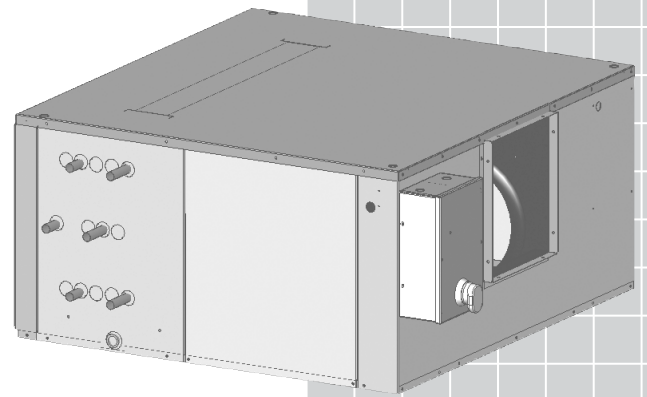


Magic Aire®

Producing Quality Heating & Cooling Equipment For Over 50 Years

HB SERIES

BELT DRIVE HORIZONTAL CHILLED WATER & DIRECT EXPANSION BLOWER COIL UNITS



Nominal Sizes 1 through 20 Ton

**MAGIC AIRE HB SERIES FAN COILS ARE ETL
LISTED IN ACCORDANCE WITH UL 1995
AND ARE ASSEMBLED TO ORDER FOR COMPETITIVE DELIVERY.**



United Electric Company, L.P.

501 Galveston St. • Wichita Falls, TX 76301 • 940-397-2100 • Fax: 940-397-2166 • www.magicaire.com



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Nominal Sizes 1 through 20 Ton

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- Controls (i.e. contactor, starter, or transformer/fan relay) not included in standard product. Only ODP, ODP HE single and three phase motors are available factory-wired to J-box. All other motors require field wiring to J-box located on side of unit cabinet.

HB with CW/HW

- Chilled water (optional hot water or steam) coil stubouts, electrical and drain connections are standard right hand looking at filters. Optional left hand connections available.
- Optional Accessories:
 - 1 Row Hot Water Heating Coil 04-20 – Specify reheat or preheat
 - 2 Row Hot Water Heating Coil
 - MB Series Mixing Boxes
 - Mixing Box Controls (Field Install and Wire)
 - Return Air Grille
 - 2” Pleated Filters, MERV 7
 - Double deflection discharge grille plenum (not available with factory electric heat option)
 - Spring Vibration Isolators (Unit Hanger Kit)
 - Special Insulation
 - Steam Coils (See Steam Brochure)
 - Factory Mounted Electric Heat (electric heat including motor start-stop station with 24v transformer and disconnect)
 - Double Wall Construction
 - Face & Bypass Damper (See page 82 for details)
 - Motor start-stop station with 24v transformer and on-off switch

HB with DX

- Suction, liquid, optional hot water or steam coil, electrical and drain stubouts are standard right hand, looking at filters.
- Standard units equipped with nominal tonnage distributor orifice and thermal expansion valve mounted – with side port distributors, (non-adjustable 2-5 ton).
- Optional Accessories:
 - 1 Row Hot Water Heating Coil 04-20
 - 2 Row Hot Water Heating Coil
 - MB Series Mixing Boxes
 - Double deflection discharge grille plenum (not available with factory electric heat option)
 - Return Air Grille
 - Spring Vibration Isolators (Unit Hanger Kit)
 - Heat Pump Conversion Kit available for field mounting. (Contact factory for compatibility with specific heat pump models.)
 - 2” Pleated Filters, MERV 7
- Options:
 - 6 Row Direct Expansion Coil
 - Special Insulation
 - Steam Coils (See Steam Brochure)
 - Factory Mounted Electric Heat (electric heat including motor start-stop station with 24v transformer and disconnect)
 - Double Wall Construction
 - Motor start-stop station with 24v transformer and on-off switch

Specifications

MODEL	NOM. TONS	4 ROW WATER	SHP WT	6 ROW WATER	SHIP WT	2 ROW WATER	1 ROW WATER	SHP WT**	FILTER(s)
HBB 04	1	3/4"	100	3/4"	105	7/8"	5/8"	10	12 X 25
HBB 06	1.5	3/4"	105	3/4"	110	7/8"	5/8"	10	12 X 25
HBB 08	2	3/4"	145	3/4"	165	7/8"	5/8"	13	16 X 32
HBB 12	3	3/4"	171	3/4"	190	7/8"	5/8"	18	16 X 32
HBB 16	4	7/8"	200	7/8"	227	7/8"	7/8"	25	(2) 20 X 20
HBB 20	5	1-1/8"	244	1-1/8"	263	1-1/8"	7/8"	30	(2) 20 X 20
HBB 30	7.5	1-1/8"	457	1-1/8"	475	1-1/8"	N/A	41	(2) 16 X 32 (1) 20 X 32
HBB 40	10	1-3/8"	512	1-3/8"	547	1-3/8"	N/A	53	(2) 16 X 32 (1) 20 X 32
HBA 60	15	1-3/8"	700	1-3/8"	787	1-3/8"	N/A	86	(2) 20 X 25 (4) 20X 20
HBA 80	20	(2) 1-5/8"	775	(2) 1-5/8"	856	(2) 1-5/8"	N/A	106	(2) 16 X 20 (2) 16X 25 (2) 20 X 25 (2) 20X 20

** COIL ONLY

Coil Stubouts are listed in inches Outside Dimens

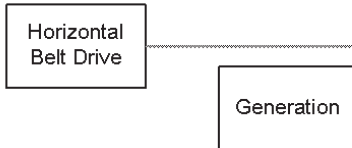
MODEL	NOM. TONS	Coil Face Area	DX Coils					Hot Water Coils			FILTER(s)	
			Single Circuit		SHP WT	Dual Split		SHP WT	2 ROW	1 ROW		SHP WT**
			Liquid	Suction		Liquid (2)	Suction (2)					
HBB 04	1	1.13	1/4"	3/4"	145	N/A			7/8"	5/8"	13	12 X 25
HBB 06	1.5	1.19	1/4"	3/4"	145	N/A			7/8"	5/8"	13	12 X 25
HBB 08	2	2.05	3/8"	3/4"	145	N/A			7/8"	5/8"	13	16 X 32
HBB 12	3	3.05	3/8"	3/4"	171	N/A			7/8"	5/8"	18	16 X 32
HBB 16	4	4.03	1/2"	7/8"	200	Contact Factory			7/8"	7/8"	25	(2) 20 X 20
HBB 20	5	5	1/2"	1-1/8"	244				1-1/8"	7/8"	30	(2) 20 X 20
HBB 30	7.5	7.16	5/8"	1-1/8"	457	1/2"	7/8"	475	1-1/8"	N/A	41	(2) 16 X 32 (1) 20 X 32
HBB 40	10	10.22	5/8"	1-3/8"	512	1/2"	7/8"	547	1-3/8"	N/A	53	(2) 16 X 32 (1) 20 X 32
HBA 60	15	13.75	N/A		700	1/2"	1-1/8"	787	1-3/8"	N/A	86	(2) 20 X 25 (4) 20X 20
HBA 80	20	16.6	N/A		775	5/8"	1-3/8"	856	(2) 1-5/8"	N/A	106	(2) 16 X 20 (2) 16X 25 (2) 20 X 25 (2) 20X 20

** COIL ONLY

Coil Stubouts are listed in inches Outside Dimension

HB Series Code Strings

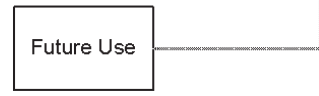
POSITION	1	2	3	4	5	6	7	8	9	10	11
EXAMPLE	H	B	B	20		A	B	A	A	H4	



Unit Size	CFM
04	400 CFM
06	600 CFM
08	800 CFM
12	1200 CFM
16	1600 CFM
20	2000 CFM
30	3000 CFM
40	4000 CFM
60	6000 CFM
80	8000 CFM



Selection	Type	Rows	Face Split
A	None		
B	Chilled Water	4 Row	None
C		6 Row	None
H	DX / R22	Std Cap*	None
J			Dual
K		High Cap (6 row)	None
L			Dual
S	DX / R4 DA	Std Cap*	None
T			Dual
U		High Cap (6 row)	None
V			Dual



Selection	TXV Nom Tons	Refrig	Nozzle No
A	Std or None*	R-22	(Std) -->
		R-4 DA	(Std) -->
C	2	R-22	15
		R-4 DA	15
E	3	R-22	2.5
		R-4 DA	2
F	4	R-22	3
		R-4 DA	2.5
G	5	R-22	4
		R-4 DA	4
H	7.5	R-22	6
		R-4 DA	5
L	15	R-22	15
		R-4 DA	12
N	20	R-22	10 (2)
		R-4 DA	8 (2)

Selection	Type	Rows
AA	NONE - USE FOR 2 PIPE UNIT OR NO COIL	
H1	Hot Water	1 Row
H2		2 Row
H4		4 Row
H6		6 Row
SS	STEAM	Std Cap (2 rows)
SH		High Cap (2 rows)
Electric Heat*		
	NOM KW	KW @ 208V**
*01	1KW	0.8 KW
02	2 KW	15 KW
03	3 KW	2.3 KW
04	4 KW	3.0 KW
05	5 KW	3.8 KW
06	6 KW	4.5 KW
07	7 KW	5.3 KW
08	8 KW	6.0 KW
09	9 KW	6.8 KW
10	10 KW	7.5 KW
11	11KW	8.3 KW
12	12 KW	9.0 KW
13	13 KW	9.8 KW
14	14 KW	10.5 KW
15	15 KW	11.3 KW
16	16 KW	12.0 KW
17	17 KW	12.8 KW
18	18 KW	13.5 KW
19	19 KW	14.3 KW
20	20 KW	15.0 KW

HB Series Code Strings (continued)

12	13	14	15	16	17	18	19	20	21	22	23
R	D	6	C	B4		A	A	B	A	A	M

Motor Selections

CFM Selection	
Selection	Description
0	None
1-9	Range 1-9
A-G	Range A-F

Power Supply	
Selection	Description
A	NA
B	115/1
D	208/240/1
E	277/1
G	208/240/3
H	460/3

Filter	
Selection	Description
A	2" Throwaway Filter
B	2" Pleated Filter (MERV 7)
C	Face & Bypass Dampers & Filter Section

Insulation	
Selection	Description
A	Standard - Fiberglass IAQ
C	Closed Cell
D	Double Wall

Motor Start/Stop	
Selection	Description
A	Junction Box Only
B	Motor Start/Stop Station*

TSP Varies by Size	
Selection	Description
1-9	Range 1-9
A-S	Range A-S

Drainpan	
Selection	Description
A	Plastic (Std for 08-40)
B	Stainless Steel (Std for 04, 06, 60, & 80)

Coil Configuration		
Selection	Heat Pos	Connection Hand
A	Pre-Heat	Right Hand (Cooling & Heating Coil) or N/A
L		Left hand (Cooling & Heating Coil)
M		Opp Cnx - Right Hand Cooling
N		Opp Cnx - Left Hand Cooling
R	Re-heat	Right Hand (Cooling & Heating Coil)
S		Left hand (Cooling & Heating Coil)
T		Opp Cnx - Right Hand Cooling
U		Opp Cnx - Left Hand Cooling

Future Use

Magic Aire

HB Series Code Strings (continued)

CFM		Description	CFM							
Ordering Number	Selection		08	12	16	20	30	40	60	80
	0	None - No Motor Supplied*	STD							
14	1	CFM Range	600	900	1200	1500	2250	3000	5000	7000
	2		650	950	1280	1600	2400	3150	5200	7200
	3		700	960	1360	1700	2550	3200	5400	7400
	4		750	1000	1440	1800	2700	3300	5600	7600
	5		800	1020	4520	1900	2850	3400	5800	7800
	6		850	1080	1600	2000	3000	3450	6000	8000
	7		900	1140	1680	2100	3150	3600	6200	8200
	8		950	1200	1760	2200	3200	3750	6400	8400
	9		960	1260	1840	2300	3300	3800	6600	8600
	A		1000	1320	1920	2400	3400	4000	6800	8800
	B			1380	2000	2500	3450	4200	7000	9000
	C			1440			3600	4400		
	D			1500			3750	4600		
	E							4800		
	F							5000		

Notes:
*1. Drive kit (blower sheave, motor sheave and belts) to be supplied and installed by field.

TSP		Description	TSP Schedule								
Ordering Number	Selection		08	12	16	20	30	40	60	80	
	0	None - No Motor Supplied									
15	1	TSP Range	0.20 - 0.30	X	X	X	X	X	X	X	X
	2		0.31 - 0.40	X	X	X	X	X	X	X	X
	3		0.41 - 0.50	X	X	X	X	X	X	X	X
	4		0.51 - 0.60	X	X	X	X	X	X	X	X
	5		0.61 - 0.70	X	X	X	X	X	X	X	X
	6		0.71 - 0.80	X	X	X	X	X	X	X	X
	7		0.81 - 0.90	X	X	X	X	X	X	X	X
	8		0.91 - 1.00	X	X	X	X	X	X	X	X
	9		1.01 - 1.10	X	X	X	X	X	X	X	X
	A		1.11 - 1.20	X	X	X	X	X	X	X	X
	B		1.21 - 1.30	X	X	X	X	X	X	X	X
	C		1.31 - 1.40	X	X	X	X	X	X	X	X
	D		1.41 - 1.50	X	X	X	X	X	X	X	X
	E		1.51 - 1.60	X	X	X	X	X	X	X	X
	F		1.61 - 1.70	X	X	X	X	X	X	X	X
	G		1.71 - 1.80	X	X	X	X	X	X	X	X
	H		1.81 - 1.90	X	X	X	X	X	X	X	X
	J		1.91 - 2.00	X	X	X	X	X	X	X	X
	K		2.01 - 2.10	X	X	X	X	X	X	X	X
	L		2.11 - 2.20	X	X	X	X	X	X	X	X
M	2.21 - 2.30			X	X	X	X	X	X		
N	2.31 - 2.40			X	X	X	X	X	X		
P	2.41 - 2.50			X	X	X	X	X	X		













Code 16, 17	Description		
Selection	Voltage	Type, Encl	HP
AA	No Motor*		
B1	115/208-240/1	ODP	0.25
B2			0.33
B3			0.50
B4			0.75
B5			1.00
B6			1.50
B7			2.00
C1	115/230/1 ONLY	ODP, HE	0.50
C2			0.75
C3			1.00
E1	115/1	ODP, 2SP	0.50
E2			0.75
E3			1.00
F1	240/1	ODP, 2SP	0.50
F2			0.75
F3			1.00
G1	277/1	ODP	0.25
G2			0.33
G3			0.50
G4			0.75
G5			1.00
G6			1.50
G7			2.00
H1	208-240/460/3	ODP	0.50
H2			0.75
H3			1.00
H4			1.50
H5			2.00
H6			3.00
J1	208-240/460/3	ODP, HE	0.50
J2			0.75
J3			1.00
J4			1.50
J5			2.00
J6			3.00
J7			5.00
J8	7.50		
J9	10.00		
K1	208-240/460/3	ODP, 2SP	0.50
K2			0.75
K3			1.00
K4			1.50
K5	230/3 ONLY	ODP, 2SP	2.00
K6			3.00
K7			5.00

Notes:

- *1. Drive kit (blower sheave, motor sheave and belts) to be supplied and installed by field.
- 2. All motors are 1750 rpm, 60 Hz.
- 3. Motor pulley hand shall be on same side as primary coil connection (Code 07).
- 4. Motor voltage must match power supply (Code 12)

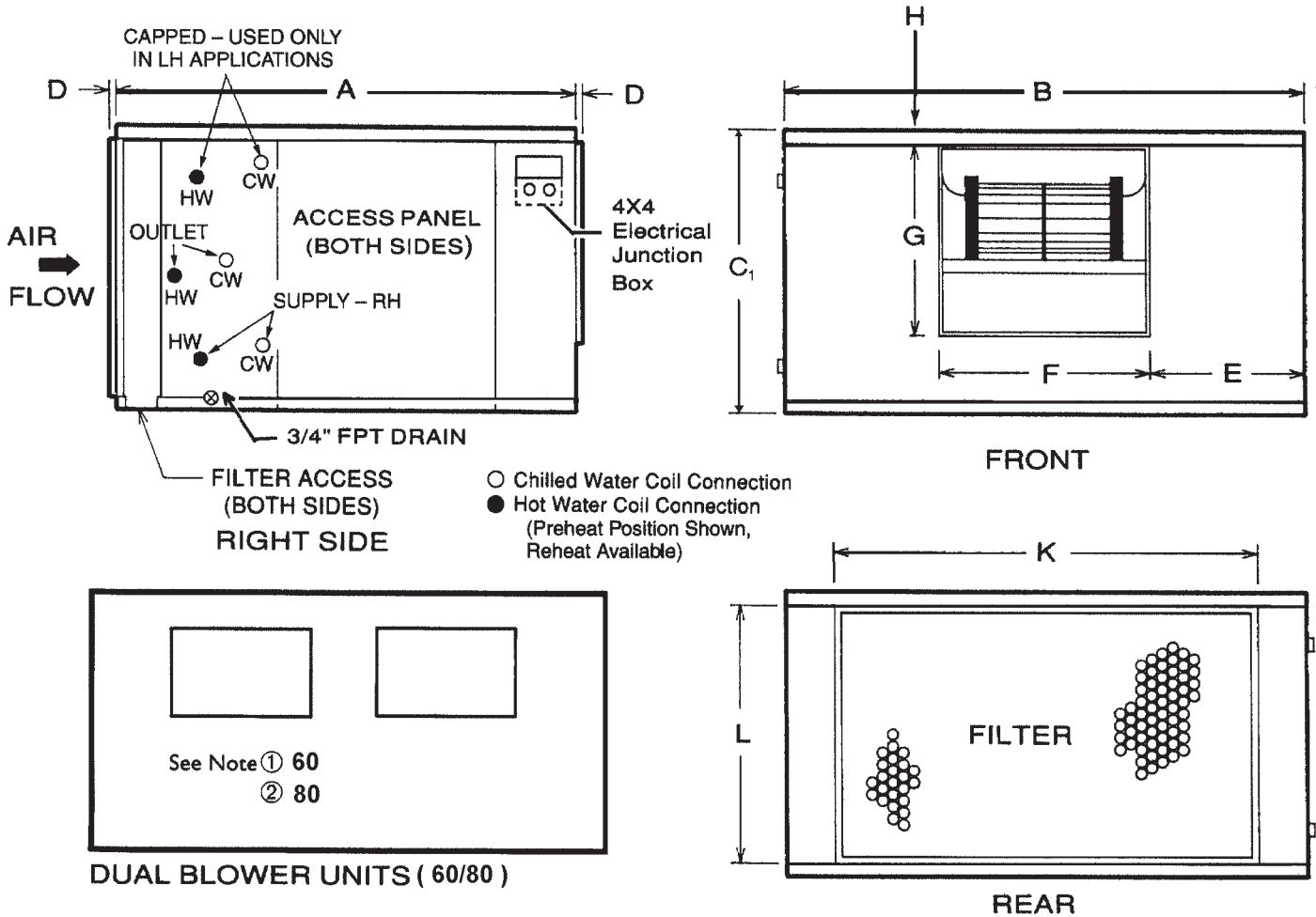
HB Series Airside Pressure Drop

Unit Size	CFM	FLAT FILTERS		ANGLED FILTERS		DISCHARGE PLENUM		MIXING BOX
		STD T/A	PLEATED	STD T/A	PLEATED	0 DEG DEF	45 DEG DEF	
HBB-04	300	0.04	0.05	0.03	0.02	0.01	0.02	0.01
	400	0.05	0.07	0.03	0.03	0.02	0.04	0.02
	500	0.07	0.10	0.05	0.04	0.04	0.06	0.03
HBB-06	450	0.06	0.08	0.04	0.04	0.03	0.05	0.02
	600	0.09	0.13	0.06	0.05	0.05	0.08	0.04
	750	0.13	0.18	0.08	0.07	0.08	0.13	0.06
HBB-08	600	0.06	0.06	0.04	0.03	0.01	0.02	0.01
	800	0.09	0.09	0.05	0.05	0.02	0.04	0.02
	1000	0.12	0.12	0.07	0.06	0.04	0.06	0.03
HBB-12	900	0.11	0.10	0.06	0.06	0.03	0.05	0.02
	1200	0.16	0.16	0.09	0.08	0.05	0.09	0.04
	1500	0.21	0.23	0.12	0.12	0.08	0.14	0.07
HBB-16	1200	0.09	0.08	0.06	0.06	0.02	0.03	0.02
	1600	0.13	0.13	0.09	0.09	0.03	0.05	0.03
	2000	0.17	0.18	0.12	0.12	0.05	0.09	0.04
HBB-20	1500	0.12	0.12	0.08	0.08	0.03	0.05	0.02
	2000	0.17	0.18	0.12	0.12	0.05	0.09	0.04
	2500	0.24	0.26	0.17	0.17	0.08	0.13	0.07
HBB-30	2250	0.07	0.06	0.06	0.06	0.03	0.05	0.03
	3000	0.10	0.10	0.09	0.09	0.05	0.09	0.05
	3750	0.13	0.14	0.12	0.12	0.09	0.14	0.08
HBB-40	3000	0.10	0.10	0.09	0.09	0.05	0.09	0.05
	4000	0.15	0.15	0.13	0.14	0.10	0.16	0.09
	5000	0.20	0.21	0.18	0.19	0.15	0.24	0.14
HBA-60	5000	0.12	0.12	0.11	0.11	0.06	0.10	0.09
	6000	0.15	0.16	0.14	0.14	0.09	0.14	0.12
	7000	0.19	0.20	0.17	0.18	0.12	0.20	0.17
HBA-80	7000	0.14	0.14	0.12	0.12	0.05	0.08	0.13
	8000	0.17	0.18	0.15	0.15	0.06	0.10	0.17
	9000	0.20	0.21	0.17	0.18	0.08	0.12	0.21

Unit Size	Blower Size	CFM	CHILLED WATER/HOT WATER				DX		Steam	
			1 ROW	2 ROW	4 ROW	6 ROW	Std Cap	High Cap	Std Cap	High Cap
HBB-04	9 X 6T	300	0.00	0.01	0.01	0.04	0.10	0.17	0.04	-
		400	0.02	0.04	0.09	0.16	0.21	0.35	0.07	-
		500	0.04	0.08	0.16	0.28	0.33	0.53	0.10	-
HBB-06	9 X 6T	450	0.02	0.04	0.08	0.14	0.08	0.14	0.08	-
		600	0.04	0.09	0.17	0.30	0.17	0.30	0.13	-
		750	0.07	0.13	0.27	0.47	0.27	0.47	0.20	-
HBB-08	9 X 6	600	0.05	0.11	0.17	0.28	0.14	0.28	0.05	0.09
		800	0.09	0.18	0.23	0.39	0.25	0.39	0.08	0.15
		1000	0.13	0.27	0.30	0.52	0.38	0.52	0.12	0.22
HBB-12	9 X 6	900	0.03	0.06	0.12	0.23	0.09	0.23	0.05	0.09
		1200	0.06	0.11	0.16	0.32	0.17	0.32	0.08	0.15
		1500	0.08	0.16	0.20	0.41	0.27	0.41	0.12	0.22
HBB-16	12 X 6	1200	0.01	0.02	0.14	0.26	0.12	0.26	0.05	0.10
		1600	0.03	0.05	0.19	0.35	0.21	0.35	0.09	0.16
		2000	0.05	0.09	0.25	0.46	0.32	0.46	0.13	0.24
HBB-20	12 X 9	1500	0.03	0.06	0.11	0.23	0.09	0.23	0.05	0.10
		2000	0.04	0.08	0.15	0.31	0.17	0.31	0.09	0.16
		2500	0.05	0.10	0.19	0.41	0.26	0.41	0.13	0.24
HBB-30	15 X 9	2250		0.06	0.17	0.29	0.15	0.29	0.05	0.10
		3000		0.12	0.23	0.40	0.27	0.40	0.09	0.17
		3150		0.13	0.25	0.43	0.29	0.43	0.10	0.18
		3750		0.18	0.31	0.53	0.40	0.53	0.13	0.24
HBB-40	15 X 9	3000		0.07	0.14	0.26	0.10	0.26	0.05	0.10
		4000		0.10	0.19	0.36	0.18	0.36	0.09	0.16
		5000		0.13	0.25	0.48	0.28	0.48	0.13	0.23
HBA-60	15 X 12 (2)	5000		0.08	0.17	0.31	0.19	0.34	0.06	0.12
		6000		0.10	0.21	0.39	0.27	0.48	0.08	0.16
		7000		0.12	0.25	0.47	0.36	0.63	0.11	0.21
HBA-80	15 X 12 (2)	7000		0.09	0.18	0.34	0.35	0.46	0.05	0.09
		8000		0.10	0.21	0.39	0.45	0.58	0.06	0.11
		9000		0.12	0.24	0.46	0.56	0.70	0.07	0.14

NOTES:

1. All values are in inches wc.
2. All pressure drops are with dry coil.



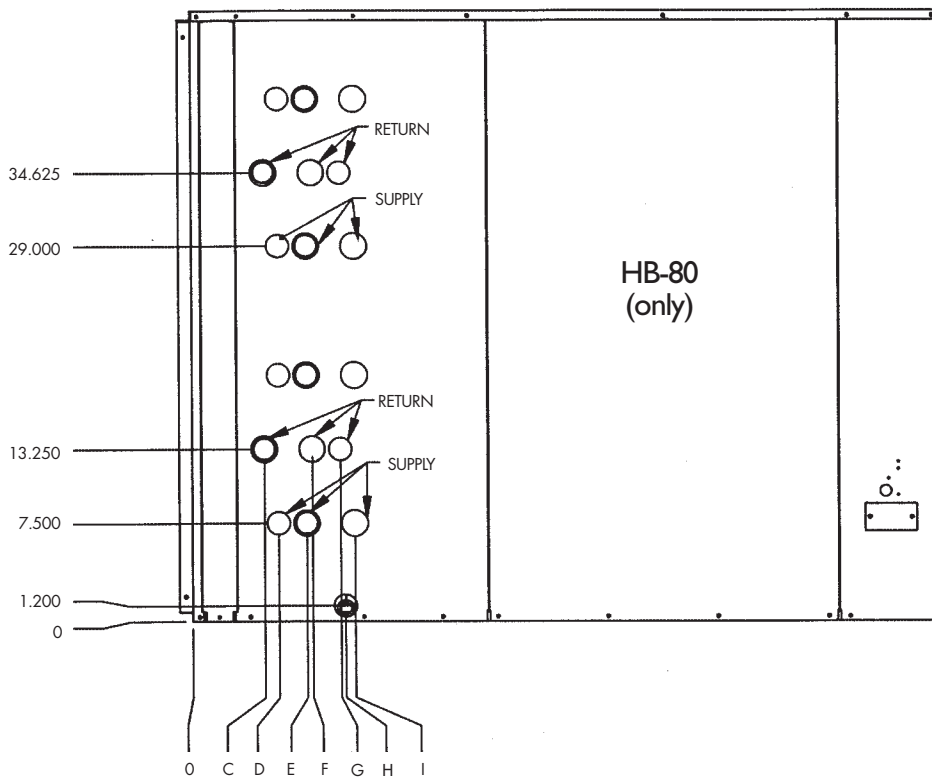
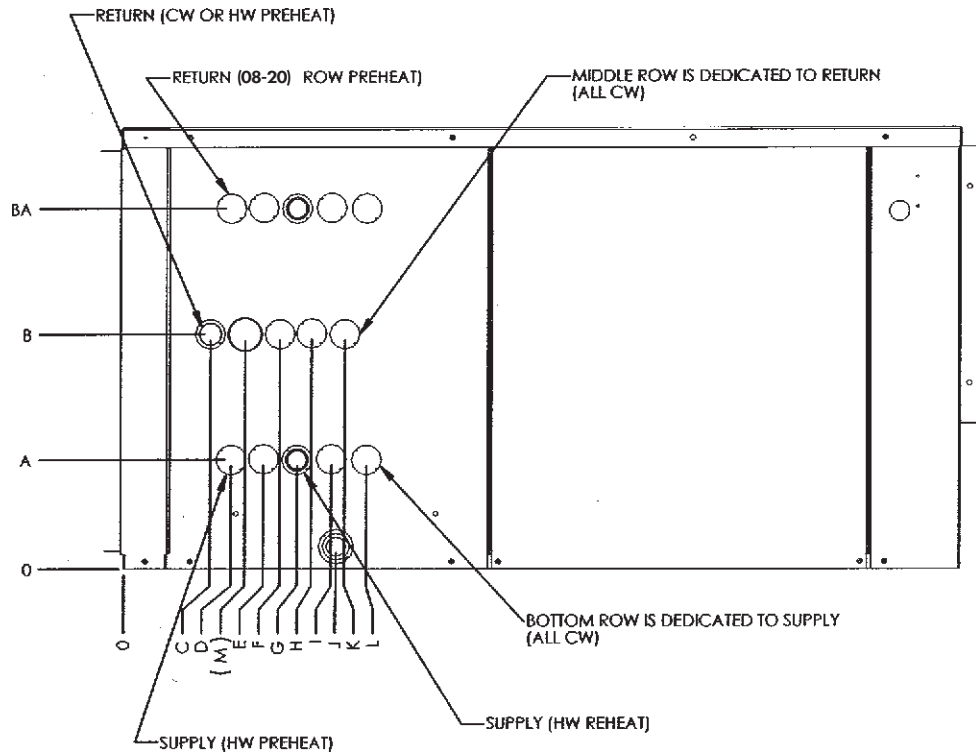
Unit Cabinet Dimensions

Model	Unit							Blower Opening Outlet		Return Duct Connection	
	A	B	C	C ₁	D	E	H	F	G	K	L
HBB 04/06	38	28	14.125	15.13	1	9.625	1	8.5	10.75	22	12.25
HBB 08/12	37.00	36.50	18.00	19.00	1	12.09	1.00	8.5	10.75	27.50	16.00
HBB 16	42.00	45.00	22.00	23.00	1	16.00	1.00	9.50	14.00	36.00	20.00
HBB 20	42.00	45.00	22.00	23.00	1	14.25	1.00	12.50	14.00	36.00	20.00
HBB 30/40	52.50	57.00	35.00	35.00	1	21.88	8.50	13.25	16.25	48.00	32.00
HBA 60	57.50	67.13	43.00	43.00	N/A	①	7.00	(2) 16.07	(2) 15.88	57.75	40.25
HBA 80	57.50	72.00	48.00	48.00	N/A	②	11.88	(2) 16.07	(2) 15.88	66.00	45.00

C₁ Double Wall Height Dimension. NOTE: Models 30-80 Top is always double wall.

① Blower opening 7" down from top of unit. Looking at discharge 14-3/8 left side, 11-3/8 center and 8-3/8 right side.

② Blower opening 11-7/8 down from top of unit. Looking at discharge 14-3/16 left side, 11-3/8 center and 13-5/16 right side.





I through 20Ton Coil Stubout Dimensional Data

Unit Model	Coil(s) Rows	A	B	BA	C	D	E	F	G	H	I	J	K	L	M
HBB 04/06	4	3.30	7.55	11.80	5.13	-	7.75	-	-	-	-	11.50	-	-	-
HBB 04/06	4-1	3.30	7.55	11.80	5.13	-	7.75	8.63	9.50	-	-	11.50	-	-	-
HBB 04/06	4-2	3.30	7.55	11.80	5.13	-	7.75	8.63	9.50	-	-	11.50	-	-	-
HBB 04/06	1-4	3.30	7.55	11.80	5.13	5.75	-	-	9.50	-	-	11.50	-	-	6.88
HBB 04/06	2-4	3.30	7.55	11.80	5.13	5.75	-	-	9.50	-	-	11.50	-	-	6.88
HBB 04/06	6	3.30	7.55	11.80	5.13	-	-	-	9.50	-	-	11.50	-	-	-
HBB 04/06	6-4	3.30	7.55	11.80	5.13	-	-	-	9.50	10.58	-	11.50	-	9.50	-
HBB 04/06	6-2	3.30	7.55	11.80	5.13	-	-	-	9.50	10.58	11.30	11.50	-	-	-
HBB 04/06	1-6	3.30	7.55	11.80	5.13	5.75	-	-	-	-	11.30	11.50	-	-	6.88
HBB 04/06	2-6	3.30	7.55	11.80	5.13	5.75	-	-	-	-	11.30	11.50	-	-	6.88
HBB 08/12	4	5.50	9.75	-	4.40	-	7.00	-	7.00	-	-	9.50	-	-	-
HBB 08/12	4-1	5.50	9.75	14.00	4.40	-	7.00	-	7.00	-	10.50	9.50	-	-	-
HBB 08/12	4-2	5.50	9.75	-	4.40	-	7.00	-	7.00	9.38	10.50	9.50	-	-	-
HBB 08/12	1-4	5.50	9.75	-	-	5.40	-	7.88	-	-	10.50	9.50	-	-	-
HBB 08/12	2-4	5.50	9.75	14.00	4.40	5.40	-	7.88	-	-	10.50	9.50	-	-	-
HBB 08/12	6	5.50	9.75	-	4.40	-	8.75	-	8.75	-	-	9.50	-	-	-
HBB 08/12	6-4	5.50	9.75	14.00	4.40	-	8.75	-	8.75	-	12.25	9.50	-	-	-
HBB 08/12	6-2	5.50	9.75	-	4.40	-	8.75	-	8.75	11.13	12.25	9.50	-	-	-
HBB 08/12	1-6	5.50	9.75	14.00	-	5.40	-	7.88	-	-	12.25	9.50	-	12.13	-
HBB 08/12	2-6	5.50	9.75	-	4.40	5.40	-	7.88	-	-	12.25	9.50	-	12.13	-
HBB 16/20	4	5.50	11.75	-	4.40	-	7.00	-	7.00	-	-	9.50	-	-	-
HBB 16/20	4-1	5.50	11.75	18.00	4.40	-	7.00	-	7.00	-	10.50	9.50	-	-	-
HBB 16/20	4-2	5.50	11.75	-	4.40	-	7.00	-	7.00	9.38	10.50	9.50	-	-	-
HBB 16/20	1-4	5.50	11.75	18.00	-	5.40	-	7.88	-	-	10.50	9.50	-	-	-
HBB 16/20	2-4	5.50	11.75	-	4.40	5.40	-	7.88	-	-	10.50	9.50	-	-	-
HBB 16/20	6	5.50	11.75	-	4.40	-	8.75	-	8.75	-	-	9.50	-	-	-
HBB 16/20	6-4	5.50	11.75	18.00	4.40	-	8.75	-	8.75	-	12.25	9.50	-	-	-
HBB 16/20	6-2	5.50	11.75	-	4.40	-	8.75	-	8.75	11.13	12.25	9.50	-	-	-
HBB 16/20	1-6	5.50	11.75	18.00	-	5.40	-	7.88	-	-	12.25	9.50	-	12.13	-
HBB 16/20	2-6	5.50	11.75	-	4.40	5.40	-	7.88	-	-	12.25	9.50	-	12.13	-
HBB 30	4	5.50	14.25	-	4.40	-	7.75	-	7.75	-	-	10.63	-	-	-
HBB 30	4-2	5.50	14.25	-	4.40	-	7.75	-	7.75	10.38	11.38	10.63	-	-	-
HBB 30	2-4	5.50	14.25	-	4.40	5.40	-	8.19	-	-	11.38	10.63	-	-	-
HBB 30	6	5.50	14.25	-	4.40	-	9.88	-	9.88	-	-	10.63	-	-	-
HBB 30	6-2	5.50	14.25	-	4.40	-	9.88	-	9.88	12.50	13.50	10.63	-	-	-
HBB 30	2-6	5.50	14.25	-	4.40	5.40	-	8.19	-	-	13.50	10.63	-	-	-
HBB 40	4	4.75	17.50	-	4.40	-	7.75	-	7.75	-	-	10.63	-	-	-
HBB 40	4-2	4.75	17.50	-	4.40	-	8.13	-	8.13	10.38	11.38	10.63	-	-	-
HBB 40	2-4	4.75	17.50	-	4.40	5.40	-	8.19	-	-	11.38	10.63	-	-	-
HBB 40	6	4.75	17.50	-	4.40	-	9.88	-	9.88	-	-	10.63	-	-	-
HBB 40	6-2	4.75	17.50	-	4.40	-	9.88	-	9.88	12.50	13.50	10.63	-	-	-
HBB 40	2-6	4.75	17.50	-	4.40	5.40	-	8.19	-	-	13.50	10.63	-	-	-
HBA 60	4	6.80	21.50	-	4.40	-	8.63	-	8.63	-	-	11.70	-	-	-
HBA 60	4-2	6.80	21.50	-	4.40	-	8.63	-	8.63	11.38	12.38	11.70	-	-	-
HBA 60	2-4	6.80	21.50	-	4.40	6.50	-	9.13	-	-	12.38	11.70	-	-	-
HBA 60	6	6.80	21.50	-	4.40	-	10.80	-	10.80	-	-	11.70	-	-	-
HBA 60	6-2	6.80	21.50	-	4.40	-	10.80	-	10.80	13.50	14.50	11.70	-	-	-
HBA 60	2-6	6.80	21.50	-	4.40	6.50	-	9.13	-	-	14.50	11.70	-	-	-
HBA 80	4	-	-	-	5.50	6.50	7.60	-	-	10.70	-	-	-	-	-
HBA 80	4-2	-	-	-	5.50	5.50	7.60	-	10.20	10.70	11.30	-	-	-	-
HBA 80	2-4	-	-	-	5.50	5.50	-	8.10	-	10.70	11.30	-	-	-	-
HBA 80	6	-	-	-	5.50	5.50	9.80	-	-	10.70	-	-	-	-	-
HBA 80	6-2	-	-	-	5.50	5.50	9.80	-	12.50	10.70	13.50	-	-	-	-
HBA 80	2-6	-	-	-	5.50	5.50	-	8.10	-	10.70	13.50	-	-	-	-

GUIDE SPECIFICATION

Fan Coil Unit
Horizontal Cabinet Model, Ducted
HVAC Guide Specifications
Size Range: 400 to 8000 Nominal CFM
MagicAire Model Number: HBB

Part 1 – General

1.01 SYSTEM DESCRIPTION

Horizontal, 2-pipe or 4-pipe, belt-driven fan coil unit. External parts are to be made with polyurethane based powder coated galvanealed, while internal parts are to be built from heavy gauge galvanized steel casing model fan coil unit for ducted installation above the ceiling, with full access to internal components.

1.02 QUALITY ASSURANCE

Each coil shall be factory tested for leakage at minimum of 400 psig air pressure with coil submerged in water. Insulation and adhesive shall meet NFPA-90A requirements for flame spread and smoke generation.

1.03 DELIVERY, STORAGE AND HANDLING

Unit shall be handled and stored in accordance with the manufacturer's instructions.

Part 2 – Products

2.01 EQUIPMENT

A. General:

Factory-assembled, horizontal, draw-thru type fan coil unit suitable for ducted installation above the ceiling or exposed. Unit shall be complete with water, DX or steam coil(s); fan(s); motor; belt drive; drain pan; and filters.

B. Casing:

Construction shall be heavy gauge galvanealed steel, painted with baked on polyurethane based powder coating, colored beige, lined with one-in. thick fiberglass Exact-O-Kote thermal/acoustical insulation. Knockouts acceptable for 3/8-in threaded rod shall be provided at the top and bottom of all unit corners for hanging the unit. Supply and return duct connections shall be approx. one inch long. Removable side panels shall be provided for access to the fan/motor assembly. A molded plastic double-sloped IAQ drain pan shall extend under the full length and width of the coil(s) with a 3/4-in FPT connection. HBB 04 & 06, and HBA 60 & 80 standard drain pans are Type 304 stainless steel coated with Aquaban. (Optional) Stainless steel drain pan for sizes HBB 08-40.

C. Fans:

Belt-driven, double-width fan wheels shall have forward-curved blades and be statically and dynamically balanced. Fan drive shall consist of variable-pitch motor pulley, fixed-pitch fan pulley and V-belt. Fans and scrolls shall be of galvanized steel.

D. Coils:

Unit shall be equipped with a standard capacity (4)-row CW/HW or DX coil for installation in a 2-pipe system. Additional coils shall be provided for installation in a 4-pipe system. Coils shall have 3/8-in. (sizes 04-20) and 1/2-in. (sizes 30-80) copper tubes with aluminum fins bonded to the tubes by mechanical expansion. Coil(s) shall have a working pressure of 400 psig at 200 F. Each coil shall have sweat connections for copper tubes. Water coil(s) shall have manual air vent(s).

E. Operating Characteristics:

A single-circuit coil unit installed in a 2-pipe CW/HW system shall be capable of providing heating or cooling. DX coils are suitable for R-22, R410A cooling only, or R-22 heat pump operation. A two coil unit installed in a 4-pipe system shall be capable of providing sequenced heating and cooling as determined by the controls provided by others.

F. Motor(s):

Fan motors shall be open, drip-proof, single-speed, 60 Hz, 1750 rpm single or 3-phase, suitable for continuous duty at 104-deg F (40 C) in 115, 208, 230, or 277 volts (60 Hz). Three-phase

motors are available in 208, 230, or 460 volts (60 Hz). Single-phase motors shall be provided with resilient mount. Three-phase 575 volt motors are by others.

G. Electric Heat:

The electric discharge heater shall be constructed of high-grade resistance wire supported by ceramic insulators on plated steel brackets. These heat elements are suspended in front of the outlet, after the blower and coil. High limit thermal cutouts and non adjustable air proving switch shall protect the heat elements in the event of an air failure. Electric heaters are factory mounted and wired for single point power connection with heater access door interlock switch.

H. Filters:

a. 2" throwaway filter(s) shall be installed in the unit.

b. (Optional) 2" pleated filter(s), MERV-7, shall be installed as indicated on the equipment schedule.

I. Insulation:

a. Units shall be equipped with 1-in. thick, 1.5-lbs/ft, Exact-O-Kote® insulation.

b. For installation in a 4-pipe CW/HW system, unit shall be equipped with either a 4-row cooling/1-row hot water heating coils, or a 4/2, 4/4, 6/1, 6/2, or 6/4 coils as required.

c. Unit shall be equipped with either a standard capacity DX (direct expansion) cooling coil or a high capacity (single or split face) DX cooling coil as required.

d. For installation in a 4-pipe system the unit shall be equipped with either a 3 or 4-row DX cooling/1-row heating coil or a 3 or 4/2, 3 or 4/4, 6/1, 6/2, or 6/4 coils as required. (Note: Hot water coil re-heat installation requires the use of a heating coil low limit on units with DX cooling).

e. Provide (High) (Low) capacity steam distributing coil

Optional Accessories:

a. Unit shall be equipped with Face & Bypass Dampers, actuator by others.

b. Mixing Boxes shall include low leak damper assemblies constructed of welded steel channel frames with 18 gauge galvanized steel blades, die formed stiffeners and full blade stop. Stainless steel side seals and vinyl blade seals to reduce leakage shall be standard. All hardware shall be zinc plated with brass pivot points and bronze oilite bearings. Shafts shall be corrosion resistant steel. Mixing box shall be fully insulated with 1-in. thick Exact-O-Kote® insulation. Optional - Provide actuators suitable for field mounting for (1) 3-position or (2) fully modulating control packages.

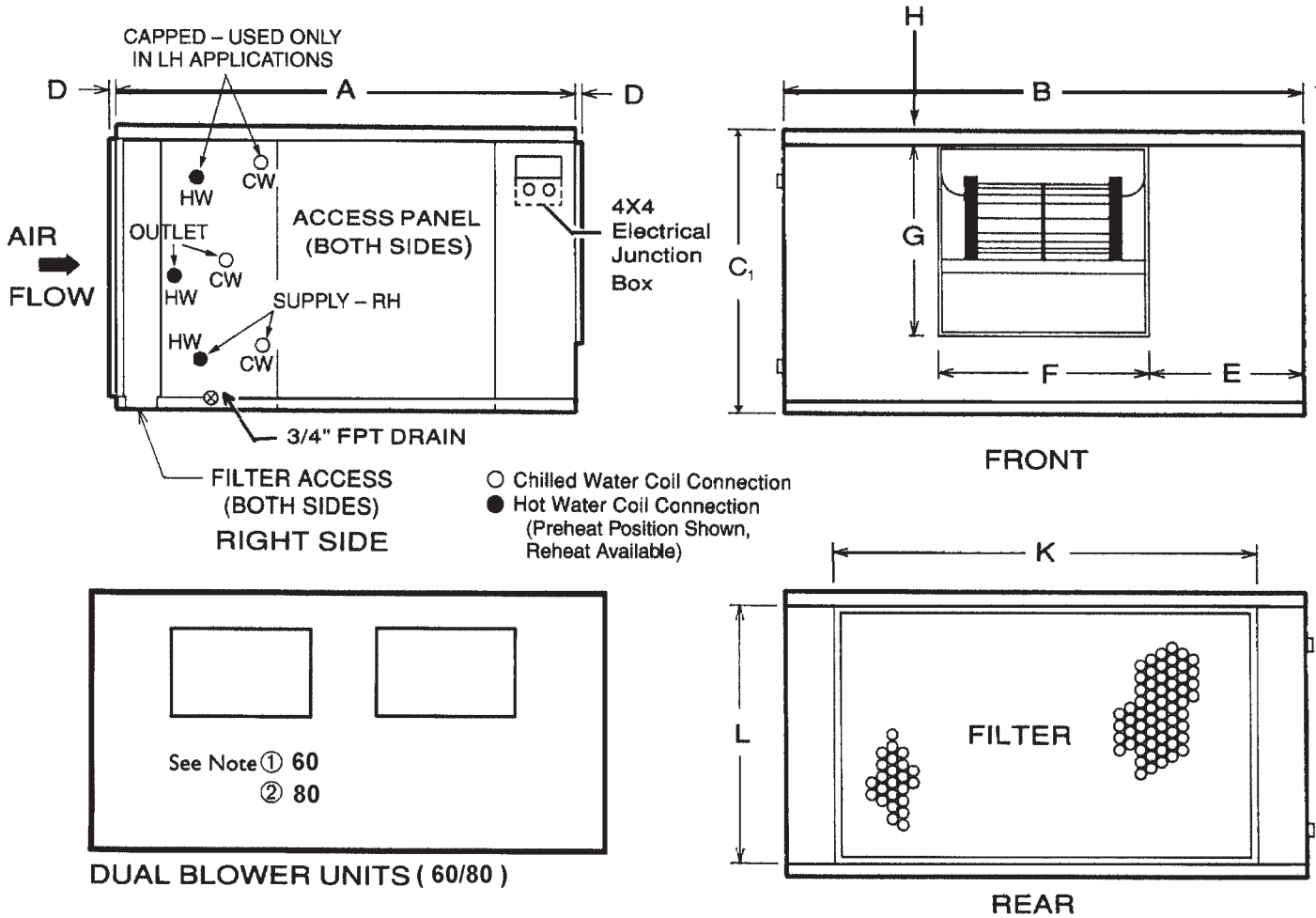
c. Units to be provided with ETL listed motor start stop station with 24v transformer; terminal strip and disconnect switch.

Motors without thermal overload will have motor starters with overload protection.

d. Provide 4-way double deflection grille, painted with baked on polyurethane based powder coating, colored beige, lined with one-in. thick fiberglass Exact-O-Kote® thermal/acoustical insulation.

e. Provide spring isolator hanging kit.

f. Provide return air grille with baked on polyurethane based powder coating, colored beige.



Unit Cabinet Dimensions

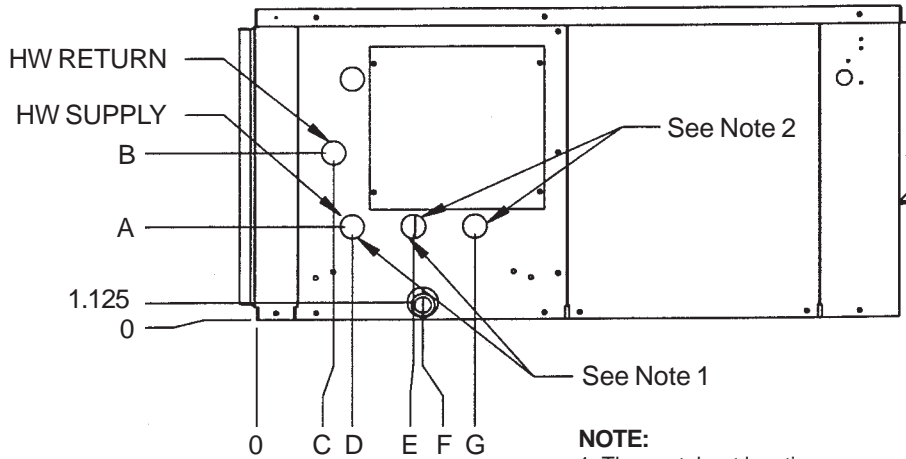
Model	Unit							Blower Opening Outlet		Return Duct Connection	
	A	B	C	C ₁	D	E	H	F	G	K	L
HBB 04/06	38	28	14.125	15.13	1	9.625	1	8.5	10.75	22	12.25
HBB 08/12	37.00	36.50	18.00	19.00	1	12.09	1.00	8.5	10.75	27.50	16.00
HBB 16	42.00	45.00	22.00	23.00	1	16.00	1.00	9.50	14.00	36.00	20.00
HBB 20	42.00	45.00	22.00	23.00	1	14.25	1.00	12.50	14.00	36.00	20.00
HBB 30/40	52.50	57.00	35.00	35.00	1	21.88	8.50	13.25	16.25	48.00	32.00
HBA 60	57.50	67.13	43.00	43.00	N/A	①	7.00	(2) 16.07	(2) 15.88	57.75	40.25
HBA 80	57.50	72.00	48.00	48.00	N/A	②	11.88	(2) 16.07	(2) 15.88	66.00	45.00

① Blower opening 7" down from top of unit. Looking at discharge 14-3/8 left side, 11-3/8 center and 8-3/8 right side.

② Blower opening 11-7/8 down from top of unit. Looking at discharge 14-3/16 left side, 11-3/8 center and 13-5/16 right side.

C₁ Double Wall Height Dimension. NOTE: Models 30-80 Top is always double wall.

SINGLE CIRCUIT COILS

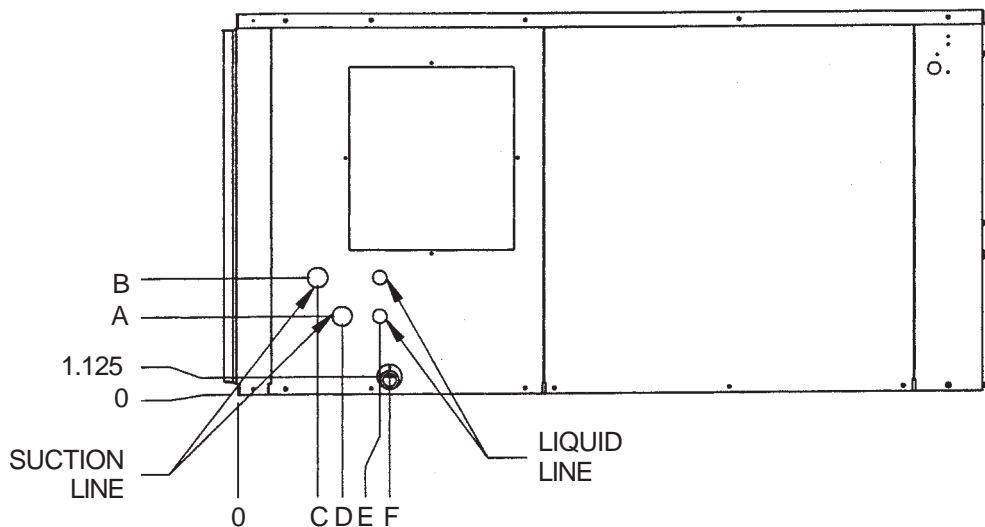


NOTE:

1. These stubout locations are used for the cooling coil if there is not a preheat coil.
2. These stubout locations are used for the cooling coil if there is a preheat coil.
3. Dimensions apply to single circuit coils only.

UNIT SIZE	A	B	C	D	E	F	G
HBB 04/06	3.300	7.500	5.125	5.750	7.750	11.500	9.500
HBB 08/12	5.400	9.750	4.400	5.500	9.000	9.500	12.500
HBB 16/20	5.400	11.750	4.400	5.500	9.000	9.500	12.500
HBB 30/40	4.750	17.500	4.400	5.500	9.300	10.625	13.000
HBA 60	6.800	21.500	5.400	6.500	10.200	11.700	14.000

DUAL CIRCUIT COILS



UNIT SIZE	A	B	C	D	E	F
HBB 30/40	5.00	7.00	5.60	7.38	10.00	10.63
HBA 60	6.80	9.50	6.50	8.25	10.90	11.70
HBA 80	10.00	13.50	6.63	8.38	11.60	11.70



HB FAN PERFORMANCE CALCULATED FAN DATA

HBB-04/06 Fan Performance																
Total Static Pressure (in. wg)																
CFM	0.20		0.50		0.80		1.00		1.10		1.30		1.50		1.70	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
300	645	0.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---
350	709	0.07	835	0.09	---	---	---	---	---	---	---	---	---	---	---	---
400	775	0.09	895	0.12	---	---	---	---	---	---	---	---	---	---	---	---
450	843	0.12	969	0.16	1062	0.19	---	---	---	---	---	---	---	---	---	---
500	913	0.16	1049	0.21	1123	0.24	0.26	0.26	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
550	983	0.20	1130	0.27	1197	0.30	0.32	0.32	0.33	0.33	0.36	0.36	0.36	0.36	0.36	0.36
600	1053	0.25	1211	0.34	1275	0.37	0.39	0.39	0.40	0.40	0.43	0.43	0.43	0.43	0.43	0.43
650	1124	0.30	1293	0.42	1355	0.45	0.48	0.48	0.49	0.49	0.51	0.51	0.51	0.51	0.51	0.51
700	1196	0.37	1374	0.51	1436	0.55	0.58	0.58	0.59	0.59	0.61	0.61	0.61	0.61	0.61	0.61
750	1267	0.44	1387	0.54	1518	0.66	0.69	0.69	0.70	0.70	0.73	0.73	0.73	0.73	0.73	0.73

NOTE:

Select appropriate motor horsepower.

When ordering, specify HP - voltage/phase CFM@TSP.

Consult List Price Pages for motor installation and options.
Only ODP and ODP HE motors are available from the factory and may be factory-mounted or shipped loose.



HB FAN PERFORMANCE CALCULATED FAN DATA

		HB8-08/12 Fan Performance																		
		Total Static Pressure (In. wg)																		
CFM	0.20		0.50		0.80		1.00		1.10		1.30		1.50		1.80		2.00		2.10	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	604	0.06	825	0.10	1011	0.14	1131	0.22	1191	0.28	1313	0.49	1441	0.85	1586	1.19	1658	1.24	1676	1.08
650	626	0.07	840	0.11	1018	0.15	1130	0.20	1185	0.24	1295	0.37	1408	0.59	1549	0.83	1658	1.24	1676	1.08
700	649	0.08	857	0.13	1028	0.17	1134	0.20	1186	0.23	1288	0.31	1391	0.45	1549	0.83	1658	1.24	1676	1.08
750	672	0.09	875	0.15	1041	0.19	1142	0.22	1192	0.24	1288	0.29	1384	0.39	1528	0.64	1626	0.90	1676	1.08
800	697	0.11	894	0.17	1056	0.21	1154	0.24	1201	0.26	1293	0.30	1384	0.37	1518	0.54	1608	0.72	1654	0.84
850	723	0.12	914	0.19	1072	0.24	1167	0.27	1213	0.29	1301	0.32	1388	0.37	1515	0.49	1599	0.62	1642	0.70
900	749	0.14	934	0.21	1089	0.27	1182	0.30	1226	0.32	1312	0.35	1396	0.39	1517	0.48	1597	0.57	1637	0.63
950	776	0.16	955	0.23	1107	0.30	1198	0.34	1242	0.36	1325	0.39	1406	0.42	1523	0.49	1599	0.56	1637	0.61
960	782	0.16	960	0.24	1111	0.31	1202	0.35	1245	0.36	1328	0.40	1408	0.43	1524	0.50	1600	0.56	1638	0.60
1000	804	0.18	977	0.26	1126	0.34	1216	0.38	1258	0.39	1340	0.43	1418	0.46	1531	0.52	1605	0.58	1641	0.61
1020	815	0.19	986	0.27	1134	0.35	1223	0.39	1265	0.41	1346	0.45	1423	0.48	1535	0.54	1608	0.59	1644	0.62
1080	850	0.22	1013	0.30	1158	0.39	1245	0.44	1286	0.46	1365	0.50	1441	0.54	1549	0.59	1620	0.63	1654	0.66
1140	885	0.26	1041	0.34	1182	0.43	1268	0.49	1308	0.51	1386	0.56	1460	0.60	1566	0.66	1634	0.69	1667	0.72
1200	921	0.29	1070	0.37	1208	0.47	1291	0.54	1331	0.56	1407	0.62	1480	0.66	1584	0.73	1650	0.77	1682	0.79
1260	958	0.34	1100	0.42	1234	0.52	1316	0.59	1355	0.62	1430	0.68	1501	0.73	1603	0.80	1668	0.84	1699	0.86
1320	995	0.38	1130	0.46	1260	0.57	1341	0.64	1379	0.68	1453	0.74	1523	0.80	1623	0.88	1687	0.93	1711	0.93
1380	1032	0.43	1161	0.51	1288	0.62	1367	0.70	1405	0.74	1477	0.81	1546	0.87	1644	0.96	1711	0.93	1711	0.93
1440	1070	0.49	1193	0.57	1316	0.68	1393	0.76	1430	0.80	1502	0.88	1570	0.95	1667	1.05	1711	0.93	1711	0.93
1500	1108	0.55	1226	0.63	1344	0.74	1420	0.82	1456	0.86	1527	0.95	1594	1.02	1689	1.13	1711	0.93	1711	0.93

Available Motors (60 Hz)

HORSE POWER	VOLTAGE/PHASE
1/4, 1/3	115/1 Split Phase
1/4, 1/3, 1/2, 3/4, 1, 1 1/2, 2	115/208-230/1
1/4, 1/3, 1/2, 3/4	115/1 2 SPD
1/4, 1/3, 1/2, 3/4	230/1 2 SPD
1/4, 1/3, 1/2, 3/4, 1, 1 1/2	277/1
1/3, 1/2, 3/4, 1, 1 1/2, 2, 3, 5, 7 1/2, 10	208-230/460/3

Select appropriate motor horsepower:

When ordering, specify HP-voltage/phase -- CFM@TSP

Consult List Price Pages for motor installation and options.

Only ODP and ODP HE motors are available from the factory and may be factory mounted or shipped loose.



HB FAN PERFORMANCE CALCULATED FAN DATA

HBB-16 Fan Performance

CFM	Total Static Pressure (in. wg)																			
	0.20		0.50		0.80		1.00		1.30		1.50		1.80		2.00		2.30		2.50	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	545	0.16	688	0.24	810	0.32	884	0.38	987	0.46	1051	0.52	1143	0.62	1201	0.68	1284	0.78	1338	0.86
1280	569	0.19	705	0.27	824	0.36	896	0.42	996	0.51	1059	0.57	1149	0.66	1205	0.73	1287	0.83	1340	0.91
1360	592	0.22	723	0.30	838	0.40	909	0.46	1007	0.55	1068	0.62	1156	0.72	1212	0.79	1292	0.89	1343	0.96
1440	617	0.25	742	0.34	854	0.44	923	0.50	1019	0.61	1079	0.67	1164	0.78	1219	0.85	1298	0.95	1348	1.03
1520	641	0.29	761	0.38	870	0.48	937	0.55	1031	0.66	1090	0.73	1174	0.84	1228	0.91	1305	1.02	1354	1.10
1600	667	0.33	782	0.43	887	0.53	953	0.61	1045	0.72	1102	0.79	1185	0.90	1237	0.98	1313	1.10	1362	1.17
1680	692	0.37	803	0.48	905	0.59	969	0.66	1059	0.78	1116	0.86	1196	0.97	1248	1.05	1322	1.17	1370	1.25
1760	718	0.42	824	0.53	924	0.64	986	0.72	1074	0.84	1129	0.92	1209	1.05	1260	1.13	1333	1.25	1380	1.34
1840	745	0.48	846	0.59	943	0.71	1003	0.79	1089	0.91	1144	1.00	1222	1.12	1272	1.21	1344	1.34	1390	1.43
1920	771	0.54	869	0.65	962	0.77	1021	0.86	1106	0.99	1159	1.07	1236	1.21	1285	1.30	1355	1.43	1400	1.52
2000	798	0.60	892	0.72	982	0.84	1040	0.93	1123	1.06	1175	1.15	1250	1.29	1298	1.38	1368	1.48	1420	1.58

Full-Load Currents in Amperes, Single Phase Alternating-Current Motors*

The following values of full-load currents are for motors running at usual speeds and motors with normal torque characteristics. Motors built for especially low speeds or high torques may have higher full-load currents, and multi-speed motors will have full-load current varying with speed, in which case, the nameplate current rating shall be used.

The voltages listed are rated motor voltages. The currents listed shall be permitted for system voltage ranges of 110 to 120 and 220 to 240 volts.

HORSEPOWER	115 volts	200 volts	208 volts	230 volts
1/4	5.8	3.3	3.2	2.9
1/3	7.2	4.1	4.0	3.6
1/2	9.8	5.6	5.4	4.9
3/4	13.8	7.9	7.6	6.9
1	16	9.2	8.8	8
1.5	20	11.5	11	10
2	24	13.8	13.2	12

*Values from NEC Handbook 1999 Edition, actual motor nameplate amps may vary.



HB FAN PERFORMANCE CALCULATED FAN DATA

CFM		HB-B-20 Fan Performance																			
		Total Static Pressure (in. wg)																			
		0.20		0.50		0.80		1.00		1.30		1.50		1.80		2.00		2.30		2.50	
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	484	0.16	631	0.25	752	0.34	831	0.41	961	0.50	1077	0.56	-----	-----	-----	-----	-----	-----	-----	-----	-----
1600	501	0.19	644	0.28	762	0.38	836	0.45	949	0.55	1035	0.62	1228	0.68	-----	-----	-----	-----	-----	-----	-----
1700	519	0.22	658	0.32	773	0.42	843	0.49	948	0.60	1021	0.67	1149	0.78	1274	0.82	-----	-----	-----	-----	-----
1800	538	0.25	673	0.36	785	0.46	853	0.54	951	0.65	1018	0.73	1125	0.84	1209	0.91	1407	0.96	-----	-----	-----
1900	557	0.29	688	0.40	798	0.51	864	0.59	958	0.71	1020	0.79	1116	0.91	1186	0.99	1407	0.96	-----	-----	-----
2000	576	0.32	703	0.44	811	0.56	876	0.64	967	0.76	1026	0.85	1115	0.98	1177	1.06	1306	1.10	1425	1.14	-----
2100	596	0.37	719	0.49	825	0.61	889	0.70	977	0.83	1034	0.91	1118	1.05	1175	1.14	1300	1.22	1356	1.27	-----
2200	617	0.41	736	0.54	840	0.67	902	0.76	989	0.89	1044	0.98	1125	1.12	1178	1.22	1294	1.32	1329	1.36	-----
2300	637	0.47	752	0.60	855	0.73	916	0.83	1001	0.96	1055	1.06	1133	1.20	1184	1.30	1288	1.41	1318	1.45	-----
2400	658	0.52	769	0.66	870	0.80	930	0.90	1014	1.04	1067	1.14	1143	1.28	1192	1.38	1282	1.49	1314	1.54	-----
2500	679	0.58	787	0.73	885	0.87	945	0.97	1028	1.12	1079	1.22	1153	1.37	1201	1.47	1276	1.57	1315	1.64	-----

HB-B-30/40 Fan Performance

CFM		HB-B-30/40 Fan Performance																			
		Total Static Pressure (in. wg)																			
		0.20		0.50		0.80		1.00		1.30		1.50		1.80		2.00		2.30		2.50	
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2250	494	0.35	560	0.44	655	0.57	715	0.66	799	0.80	853	0.89	929	1.05	978	1.16	1047	1.34	1091	1.48	-----
2400	488	0.38	576	0.50	667	0.64	724	0.73	806	0.88	858	0.98	933	1.13	980	1.24	1049	1.42	1092	1.55	-----
2550	492	0.42	592	0.56	680	0.71	735	0.81	814	0.97	864	1.07	937	1.23	984	1.34	1051	1.52	1094	1.64	-----
2700	512	0.49	609	0.64	694	0.79	748	0.90	824	1.06	872	1.17	943	1.34	988	1.45	1054	1.63	1096	1.75	-----
2850	533	0.56	627	0.72	709	0.88	761	0.99	834	1.16	881	1.28	950	1.45	994	1.57	1058	1.75	1099	1.87	-----
3000	554	0.65	645	0.81	725	0.98	775	1.10	846	1.27	892	1.39	958	1.57	1001	1.69	1063	1.88	1104	2.01	-----
3150	575	0.74	663	0.91	741	1.09	789	1.21	859	1.39	903	1.52	967	1.70	1009	1.83	1070	2.02	1110	2.15	-----
3200	583	0.77	669	0.94	746	1.12	794	1.25	863	1.43	907	1.56	971	1.75	1012	1.88	1072	2.07	1112	2.15	-----
3300	597	0.83	682	1.02	758	1.20	805	1.33	872	1.52	915	1.65	978	1.84	1018	1.97	1078	2.17	1116	2.20	-----
3400	612	0.90	694	1.09	769	1.28	815	1.41	881	1.61	924	1.74	985	1.94	1025	2.08	1083	2.28	1121	2.42	-----
3450	619	0.94	701	1.13	775	1.32	821	1.45	886	1.65	928	1.79	989	1.99	1028	2.13	1086	2.33	1124	2.47	-----
3600	641	1.06	720	1.26	792	1.46	837	1.59	901	1.80	942	1.94	1001	2.15	1040	2.29	1096	2.50	1133	2.65	-----
3750	663	1.18	740	1.39	810	1.60	854	1.74	916	1.95	956	2.10	1014	2.32	1052	2.46	1106	2.69	1142	2.83	-----
3800	671	1.23	746	1.44	816	1.65	859	1.79	921	2.01	961	2.15	1018	2.37	1056	2.52	1110	2.75	1146	2.90	-----
4000	700	1.42	773	1.64	840	1.86	883	2.01	943	2.23	981	2.39	1037	2.62	1073	2.77	1126	3.01	1160	3.17	-----
4200	731	1.62	800	1.86	866	2.09	907	2.24	965	2.48	1002	2.64	1056	2.88	1091	3.04	1143	3.29	1176	3.45	-----
4400	761	1.85	828	2.09	886	2.34	931	2.50	988	2.74	1024	2.91	1077	3.16	1111	3.33	1161	3.59	1193	3.76	-----
4600	792	2.10	856	2.35	917	2.61	956	2.78	1011	3.03	1046	3.20	1098	3.47	1131	3.64	1180	3.91	1211	4.09	-----
4800	822	2.37	884	2.63	943	2.90	981	3.07	1035	3.34	1069	3.52	1120	3.79	1152	3.97	1199	4.25	1230	4.44	-----
5000	853	2.66	913	2.94	970	3.21	1007	3.40	1059	3.67	1093	3.86	1142	4.14	1174	4.33	1220	4.62	1250	4.81	-----



HB FAN PERFORMANCE CALCULATED FAN DATA

HBH — 60/80 Fan Performance
Total Static Static Pressure (in. wg)

CFM	0.20		0.50		0.80		1.00		1.20		1.50		1.70		2.00		2.10		2.20		2.50	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	418	0.57	538	0.84	643	1.13	708	1.34	771	1.58	864	1.97	925	2.27	1017	2.76	1048	2.94	1080	3.12	1175	3.72
5200	427	0.62	545	0.90	648	1.20	711	1.42	773	1.65	862	2.04	922	2.33	1010	2.82	1039	2.99	1074	3.20	1159	3.75
5400	437	0.68	552	0.97	653	1.27	715	1.49	775	1.73	862	2.12	919	2.41	1004	2.88	1033	3.05	1068	3.27	1147	3.80
5600	447	0.75	560	1.05	658	1.36	719	1.58	778	1.82	862	2.21	918	2.49	1000	2.96	1027	3.13	1062	3.35	1137	3.86
5800	457	0.81	568	1.12	664	1.44	724	1.67	781	1.91	864	2.30	918	2.59	997	3.05	1024	3.21	1056	3.42	1129	3.93
6000	468	0.89	576	1.21	670	1.53	729	1.76	785	2.01	866	2.40	918	2.68	996	3.15	1022	3.31	1050	3.49	1124	4.01
6200	478	0.96	584	1.29	677	1.63	734	1.86	789	2.11	868	2.51	920	2.79	995	3.25	1020	3.41	1045	3.58	1119	4.11
6400	489	1.04	592	1.39	683	1.73	740	1.97	794	2.22	872	2.62	922	2.90	996	3.36	1020	3.52	1044	3.69	1116	4.21
6600	499	1.13	601	1.48	690	1.84	746	2.08	799	2.33	875	2.74	924	3.02	997	3.48	1020	3.64	1044	3.81	1114	4.33
6800	510	1.22	609	1.59	698	1.95	752	2.20	804	2.45	879	2.86	928	3.15	998	3.61	1022	3.77	1044	3.93	1113	4.45
7000	521	1.31	618	1.69	705	2.07	759	2.32	810	2.58	884	2.99	931	3.28	1001	3.74	1023	3.91	1046	4.07	1113	4.59
7200	532	1.41	627	1.80	713	2.19	766	2.45	816	2.71	889	3.13	935	3.43	1003	3.89	1026	4.05	1048	4.21	1113	4.73
7400	543	1.52	637	1.92	721	2.32	773	2.58	822	2.85	894	3.28	940	3.57	1007	4.04	1028	4.20	1050	4.36	1114	4.88
7600	554	1.63	646	2.05	729	2.45	780	2.72	829	3.00	899	3.43	944	3.73	1010	4.20	1032	4.36	1053	4.52	1116	5.04
7800	565	1.75	655	2.17	737	2.59	787	2.87	836	3.15	905	3.59	950	3.89	1014	4.36	1035	4.53	1056	4.69	1118	5.21
8000	576	1.87	665	2.31	745	2.74	795	3.02	843	3.31	911	3.75	955	4.06	1019	4.54	1039	4.70	1060	4.87	1121	5.39
8200	588	2.00	675	2.45	753	2.89	803	3.18	850	3.47	917	3.92	960	4.23	1023	4.72	1044	4.88	1064	5.05	1124	5.57
8400	599	2.13	684	2.59	762	3.04	811	3.34	857	3.64	924	4.10	966	4.42	1028	4.90	1049	5.07	1068	5.24	1128	5.77
8600	610	2.27	694	2.75	771	3.21	819	3.51	865	3.82	930	4.29	972	4.61	1034	5.10	1054	5.27	1073	5.44	1131	5.97
8800	622	2.42	704	2.91	780	3.38	827	3.69	872	4.00	937	4.48	979	4.80	1039	5.30	1059	5.47	1078	5.65	1136	6.18
9000	633	2.57	714	3.07	789	3.55	835	3.87	880	4.19	944	4.68	985	5.01	1045	5.52	1064	5.69	1083	5.86	1140	6.40

Full-Load Currents in Amperes, Three Phase Alternating-Current Motors*

The following values of full-load currents are typical for motors running at speeds usual for belted motors and motors with normal torque characteristics. Motors built for low speeds (1200 RPM or less) or high torques may require more running current, and multi-speed motors will have full-load current varying with speed. In these cases, the nameplate current rating shall be used.

The voltages listed are rated motor voltages. The currents listed shall be permitted for system voltage ranges of 110 to 120, 220 to 240, 440 to 480, and 550 to 600 volts.

HORSEPOWER	200 volts	208 volts	230 volts	460 volts	575 volts
1/2	2.5	2.4	2.2	1.1	0.9
3/4	3.7	3.5	3.2	1.6	1.3
1	4.8	4.6	4.2	2.1	1.7
1.5	6.9	6.6	6	3	2.4
2	7.8	7.5	6.8	3.4	2.7
3	11	10.6	9.6	4.8	3.9
5	17.5	16.7	15.2	7.6	6.1
7.5	25.3	24.2	22	11	9
10	32.2	30.8	28	14	11

*Values from NEC Handbook 1999 Edition, actual motor nameplate amps may vary.

HB CHILLED WATER COOLING CAPACITIES

HBB-04 (4 ROW)
HBB 04 (4 ROW COIL)

EWT (F)	GPM	PD (FT)		CFM @ 80 F EDB								
				300			400			500		
				AIR ENTERING TEMPERATURE EWB (F)								
				67.00	72.00	77.00	67.00	72.00	77.00	67.00	72.00	77.00
42	2.0	2.4	TC	12.26	15.51	19.05	13.79	17.22	21.04	14.96	18.38	22.38
			SHC	8.65	8.08	7.40	10.26	9.28	8.23	11.66	10.27	8.88
			LDB	54.6	57.4	60.7	57.3	60.5	64.0	59.3	62.7	66.2
			LWB	53.9	57.1	60.7	56.2	60.0	63.9	57.7	61.9	66.2
	BF	0.06	0.05	0.00	0.10	0.09	0.10	0.13	0.11	0.04		
	2.7	4.0	TC	13.57	17.24	21.25	15.47	19.56	24.02	16.91	21.23	25.97
			SHC	9.23	8.81	8.26	11.01	10.24	9.34	12.55	11.41	10.17
			LDB	53.0	55.4	58.4	55.8	58.5	61.8	57.8	60.8	64.2
LWB			52.3	55.2	58.3	54.7	58.1	61.7	56.4	60.2	64.1	
BF	0.06	0.05	0.00	0.09	0.08	0.00	0.12	0.11	0.08			
45	2.0	2.4	TC	10.97	14.14	17.63	12.38	15.66	19.43	13.45	16.69	20.64
			SHC	8.07	7.51	6.86	9.64	8.66	7.65	10.99	9.61	8.25
			LDB	56.2	59.0	62.2	58.6	61.8	65.2	60.4	63.7	67.2
			LWB	55.5	58.7	62.1	57.4	61.2	65.1	58.7	62.9	67.1
	BF	0.07	0.06	0.00	0.10	0.09	0.05	0.14	0.12	0.06		
	2.7	4.0	TC	12.10	15.73	19.70	13.80	17.81	22.21	15.16	19.29	23.97
			SHC	8.57	8.16	7.65	10.28	9.52	8.66	11.77	10.62	9.45
			LDB	54.8	57.2	60.0	57.3	60.0	63.2	59.1	62.1	65.3
LWB			54.1	56.9	60.0	56.2	59.5	63.1	57.6	61.4	65.3	
BF	0.07	0.06	0.00	0.10	0.09	0.00	0.13	0.12	0.05			
48	2.0	2.4	TC	9.69	12.72	16.17	10.94	14.05	17.78	12.00	14.95	18.86
			SHC	7.51	6.93	6.32	9.01	8.03	7.06	10.32	8.94	7.60
			LDB	57.8	60.6	63.6	59.9	63.0	66.3	61.5	64.8	68.2
			LWB	56.9	60.2	63.6	58.6	62.4	66.2	59.7	63.9	68.1
	BF	0.07	0.06	0.00	0.11	0.09	0.04	0.15	0.12	0.09		
	2.7	4.0	TC	10.60	14.17	18.10	12.17	16.00	20.35	13.37	17.30	21.93
			SHC	7.92	7.51	7.04	9.56	8.78	7.98	10.99	9.83	8.71
			LDB	56.7	59.0	61.7	58.8	61.5	64.5	60.4	63.4	66.5
LWB			55.9	58.6	61.6	57.6	60.9	64.4	58.8	62.6	66.4	
BF	0.07	0.06	0.00	0.10	0.09	0.06	0.13	0.12	0.06			

HBB-04 (6 ROW)
HBB 04 (6 ROW COIL)

EWT (F)	GPM	PD (FT)		CFM @ 80 F EDB								
				300			400			500		
				AIR ENTERING TEMPERATURE EWB (F)								
				67.00	72.00	77.00	67.00	72.00	77.00	67.00	72.00	77.00
42	2.5	2.6	TC	15.18	19.27	23.75	17.49	21.92	26.87	19.19	23.73	28.95
			SHC	10.12	9.73	9.28	12.20	11.37	10.43	13.99	12.67	11.27
			LDB	50.4	52.8	55.5	53.2	56.2	59.6	55.3	58.7	62.4
			LWB	50.3	52.7	55.5	52.9	56.1	59.5	54.8	58.5	62.4
	BF	0.02	0.02	0.00	0.03	0.02	0.00	0.05	0.03	0.00		
	3.3	4.0	TC	16.42	20.92	25.89	19.26	24.44	30.09	21.46	26.97	33.06
			SHC	10.70	10.47	10.18	13.00	12.43	11.72	15.00	14.00	12.84
			LDB	48.8	50.7	52.9	51.5	53.9	56.9	53.6	56.5	59.9
LWB			48.6	50.6	52.9	51.2	53.9	56.8	53.2	56.4	59.8	
BF	0.01	0.03	0.00	0.03	0.02	0.00	0.04	0.03	0.00			
45	2.5	2.6	TC	13.60	17.60	22.04	15.67	19.97	24.85	17.27	21.57	26.72
			SHC	9.40	9.02	8.58	11.39	10.55	9.66	13.13	11.79	10.45
			LDB	52.5	54.8	57.5	54.9	57.9	61.2	56.7	60.2	63.8
			LWB	52.3	54.7	57.4	54.5	57.7	61.1	56.1	59.9	63.7
	BF	0.02	0.02	0.00	0.03	0.02	0.00	0.05	0.04	0.00		
	3.3	4.0	TC	14.69	19.15	24.07	17.24	22.29	27.87	19.20	24.54	30.56
			SHC	9.89	9.68	9.41	12.08	11.52	10.83	13.99	12.99	11.88
			LDB	51.1	52.9	55.1	53.4	55.8	58.7	55.3	58.2	61.5
LWB			50.9	52.8	55.1	53.1	55.8	58.7	54.8	58.0	61.4	
BF	0.02	0.02	0.00	0.03	0.02	0.00	0.04	0.03	0.00			
48	2.5	2.6	TC	11.99	15.88	20.26	13.85	17.95	22.77	15.31	19.35	24.43
			SHC	8.69	8.30	7.87	10.59	9.73	8.87	12.28	10.91	9.62
			LDB	54.5	56.8	59.4	56.5	59.5	62.7	58.1	61.6	65.1
			LWB	54.2	56.7	59.4	56.1	59.4	62.7	57.5	61.3	65.0
	BF	0.02	0.01	0.00	0.04	0.03	0.00	0.06	0.04	0.06		
	3.3	4.0	TC	12.90	17.30	22.17	15.16	20.07	25.59	16.92	22.04	27.98
			SHC	9.09	8.89	8.63	11.17	10.59	9.94	13.00	11.97	10.92
			LDB	53.3	55.1	57.3	55.3	57.8	60.6	57.0	59.9	63.0
LWB			53.1	55.1	57.3	55.0	57.6	60.5	56.4	59.6	63.0	
BF	0.02	0.01	0.00	0.03	0.02	0.00	0.05	0.04	0.00			

HB CHILLED WATER COOLING CAPACITIES

HBB-06 (4 ROW)

HBB 06 (4 ROW COIL)

EWT (F)	GPM	PD (FT)		CFM @ 80 F EDB								
				450			600			750		
				AIR ENTERING TEMPERATURE EWB (F)								
				67.00	72.00	77.00	67.00	72.00	77.00	67.00	72.00	77.00
42	2.6	2.0	TC	15.93	20.04	24.55	17.75	21.91	26.74	19.09	23.19	28.21
			SHC	11.74	10.71	9.59	13.86	12.24	10.61	15.69	13.51	11.33
			LDB	57.0	60.0	63.4	59.5	62.8	66.3	61.4	64.7	68.3
			LWB	55.9	59.5	63.4	57.8	62.0	66.2	59.2	63.7	68.1
			BF	0.10	0.09	0.00	0.14	0.12	0.05	0.18	0.15	0.11
	3.5	3.4	TC	17.83	22.59	27.78	20.01	25.19	30.85	21.75	27.03	33.00
			SHC	12.58	11.76	10.79	14.89	13.54	12.09	16.90	15.00	13.09
			LDB	55.4	58.1	61.3	58.1	61.1	64.3	60.0	63.2	66.5
			LWB	54.4	57.6	61.2	56.6	60.3	64.3	58.0	62.1	66.4
			BF	0.09	0.08	0.00	0.13	0.12	0.07	0.16	0.15	0.07
45	2.6	2.0	TC	14.31	18.25	22.71	15.94	19.92	24.69	17.29	21.05	26.02
			SHC	11.02	9.99	8.91	13.07	11.45	9.85	14.84	12.69	10.54
			LDB	58.3	61.3	64.6	60.6	63.9	67.3	62.3	65.6	69.1
			LWB	57.1	60.8	64.6	58.8	63.0	67.1	60.0	64.5	68.8
			BF	0.10	0.09	0.06	0.14	0.13	0.08	0.19	0.16	0.13
	3.5	3.4	TC	15.89	20.58	25.71	17.94	22.90	28.49	19.50	24.54	30.44
			SHC	11.73	10.92	10.02	13.97	12.62	11.24	15.91	14.02	12.13
			LDB	57.0	59.6	62.7	59.3	62.3	65.5	61.1	64.2	67.5
			LWB	55.9	59.1	62.6	57.7	61.5	65.4	59.0	63.1	67.3
			BF	0.09	0.09	0.00	0.13	0.12	0.05	0.17	0.16	0.10
48	2.6	2.0	TC	12.64	16.40	20.82	14.22	17.87	22.58	15.48	18.86	23.77
			SHC	10.30	9.26	8.23	12.27	10.67	9.09	13.96	11.86	9.74
			LDB	59.6	62.6	65.8	61.7	64.9	68.3	63.3	66.5	69.9
			LWB	58.3	62.0	65.8	59.8	64.0	68.1	60.7	65.3	69.6
			BF	0.11	0.09	0.04	0.16	0.13	0.10	0.20	0.16	0.14
	3.5	3.4	TC	13.99	18.51	23.58	15.82	20.55	26.08	17.31	21.99	27.82
			SHC	10.89	10.08	9.23	13.05	11.69	10.35	14.92	13.03	11.18
			LDB	58.5	61.2	64.1	60.6	63.5	66.6	62.2	65.3	68.5
			LWB	57.3	60.6	64.0	58.9	62.7	66.5	60.0	64.1	68.2
			BF	0.10	0.09	0.08	0.14	0.13	0.07	0.18	0.16	0.12

HBB-06 (6 ROW)

HBB 06 (6 ROW COIL)

EWT (F)	GPM	PD (FT)		CFM @ 80 F EDB								
				450			600			750		
				AIR ENTERING TEMPERATURE EWB (F)								
				67	72	77	67	72	77	67	72	77
42	4.7	8.7	TC	23.41	29.80	36.83	27.22	34.50	42.44	30.17	37.88	46.42
			SHC	15.43	14.99	14.42	18.64	17.70	16.50	21.44	19.86	18.05
			LDB	50.0	52.0	54.5	52.7	55.3	58.4	54.8	57.8	61.2
			LWB	49.7	52.0	54.5	52.3	55.1	58.3	54.2	57.5	61.2
			BF	0.03	0.02	0.00	0.04	0.03	0.00	0.06	0.05	0.00
	6.1	14.3	TC	24.65	31.45	38.99	29.18	37.11	45.83	32.63	41.37	50.92
			SHC	16.01	15.73	15.34	19.53	18.83	17.87	22.54	21.32	19.79
			LDB	48.9	50.6	52.8	51.5	53.7	56.5	53.6	56.2	59.3
			LWB	48.6	50.5	52.7	51.0	53.6	56.4	53.0	55.9	59.3
			BF	0.03	0.03	0.00	0.04	0.03	0.00	0.06	0.05	0.00
45	4.7	8.7	TC	20.91	27.24	34.20	24.34	31.44	39.28	26.97	34.44	42.87
			SHC	14.28	13.88	13.33	17.35	16.39	15.26	20.02	18.43	16.71
			LDB	52.1	54.1	56.6	54.5	57.1	60.1	56.4	59.4	62.6
			LWB	51.9	54.1	56.6	54.0	56.9	60.0	55.7	59.0	62.6
			BF	0.03	0.02	0.00	0.05	0.04	0.00	0.07	0.05	0.00
	6.1	14.3	TC	22.06	28.81	36.28	26.05	33.90	42.52	29.17	37.71	47.14
			SHC	14.80	14.56	14.19	18.11	17.42	16.53	20.99	19.76	18.33
			LDB	51.2	52.8	55.0	53.5	55.7	58.3	55.3	57.9	60.9
			LWB	50.9	52.8	54.9	53.0	55.5	58.3	54.6	57.6	60.9
			BF	0.03	0.02	0.00	0.05	0.04	0.00	0.06	0.05	0.00
48	4.7	8.7	TC	18.36	24.59	31.47	21.40	28.28	36.03	23.80	30.92	39.24
			SHC	13.14	12.74	12.24	16.06	15.08	14.02	18.64	17.01	15.38
			LDB	54.3	56.3	58.6	56.3	58.9	61.8	57.9	60.9	64.1
			LWB	53.9	56.1	58.6	55.8	58.6	61.7	57.1	60.5	64.0
			BF	0.03	0.02	0.00	0.05	0.04	0.00	0.07	0.06	0.08
	6.1	14.3	TC	19.36	26.06	33.47	22.88	30.57	39.09	25.65	33.93	43.24
			SHC	13.58	13.36	13.03	16.71	16.01	15.19	19.45	18.20	16.86
			LDB	53.4	55.1	57.2	55.4	57.6	60.2	57.0	59.6	62.5
			LWB	53.1	55.0	57.1	54.9	57.4	60.1	56.3	59.3	62.4
			BF	0.03	0.02	0.00	0.05	0.04	0.00	0.07	0.06	0.00

HB CHILLED WATER COOLING CAPACITIES

HBB 08 (4 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	2.4	1.00	600	19.4	14.0	63.4	61.8	58.2	16.4	12.8	60.2	58.5	55.7	13.7	11.7	57.0	55.3	53.4
			800	21.0	16.4	66.0	63.6	59.6	17.9	15.1	62.6	60.1	57.0	15.1	13.7	59.2	56.7	54.6
			1000	22.2	18.5	67.9	64.8	60.6	19.2	16.9	64.4	61.2	58.0	16.2	15.1	61.0	57.6	55.6
42	6.0	5.70	600	27.4	17.1	58.7	57.3	51.2	22.8	15.5	56.1	54.7	49.6	18.6	13.9	53.6	52.2	48.2
			800	30.8	20.0	61.9	59.8	52.3	25.8	18.3	58.9	56.8	50.6	21.0	16.4	56.0	54.0	49.0
			1000	33.4	22.6	64.1	61.4	53.1	27.8	20.6	60.9	58.3	51.3	22.8	18.7	57.7	55.3	49.6
42	9.6	14.10	600	30.4	18.2	57.0	55.6	48.3	25.2	16.5	54.6	53.2	47.3	20.4	14.7	52.4	51.0	46.3
			800	34.8	21.6	60.1	58.1	49.3	28.8	19.6	57.4	55.4	48.0	23.4	17.5	54.8	52.9	46.9
			1000	38.0	24.4	62.5	59.9	49.9	31.8	22.2	59.5	57.0	48.6	25.8	19.9	56.6	54.2	47.4
45	2.4	1.00	600	17.8	13.4	64.3	62.6	59.8	14.9	12.3	61.1	59.4	57.4	12.3	11.0	58.1	56.1	55.3
			800	19.4	15.7	66.8	64.3	61.2	16.4	14.4	63.4	60.8	58.7	13.7	12.7	60.3	57.3	56.5
			1000	20.6	17.7	68.6	65.3	62.3	17.6	16.0	65.2	61.7	59.7	14.1	13.9	62.1	58.3	56.8
45	6.0	5.70	600	25.0	16.1	60.2	58.7	53.4	20.4	14.5	57.6	56.1	51.9	16.2	12.9	55.1	53.7	50.4
			800	28.0	19.0	63.0	60.9	54.4	23.0	17.2	60.1	58.0	52.7	18.3	15.3	57.3	55.2	51.1
			1000	30.4	21.4	65.1	62.4	55.2	25.0	19.6	61.9	59.3	53.4	20.0	17.4	58.9	56.3	51.7
45	9.6	14.10	600	27.6	17.1	58.7	57.2	50.8	22.4	15.4	56.3	54.9	49.7	17.8	13.5	54.2	52.7	48.7
			800	31.6	20.2	61.6	59.5	51.6	25.8	18.4	58.8	56.8	50.4	20.4	16.2	56.3	54.3	49.3
			1000	34.6	23.0	63.7	61.1	52.2	28.2	20.8	60.7	58.2	50.9	22.4	18.5	57.9	55.4	49.7
48	2.4	1.00	600	16.2	12.8	65.3	63.4	61.5	13.4	11.6	62.1	60.1	59.2	10.3	10.2	59.3	57.3	56.7
			800	17.8	15.1	67.6	64.8	62.9	15.0	13.6	64.3	61.3	60.5	11.7	11.6	61.6	58.1	57.8
			1000	19.0	17.0	69.3	65.8	63.9	15.2	15.0	66.1	62.4	60.7	12.8	12.6	63.3	58.8	58.7
48	6.0	5.70	600	22.6	15.2	61.6	60.1	55.5	18.1	13.6	59.1	57.6	54.0	13.9	11.9	56.7	55.2	52.6
			800	25.2	18.0	64.2	62.0	56.5	20.2	16.2	61.3	59.2	54.8	15.9	14.2	58.6	56.3	53.3
			1000	27.4	20.4	66.1	63.3	57.1	22.0	18.4	63.0	60.3	55.4	17.6	16.2	60.0	57.1	53.9
48	9.6	14.00	600	24.8	16.0	60.3	58.8	53.2	19.8	14.3	58.0	56.5	52.1	15.1	12.4	55.9	54.4	51.2
			800	28.2	19.0	63.0	60.8	53.9	22.6	17.1	60.3	58.2	52.7	17.3	14.9	57.8	55.7	51.6
			1000	31.0	21.8	64.9	62.2	54.5	24.8	19.5	62.0	59.4	53.2	19.2	17.1	59.2	56.6	52.0

HBB 08 (6 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	1.8	0.80	600	21.2	15.3	61.4	60.7	65.7	18.3	14.1	58.2	57.4	62.4	15.5	12.9	55.1	54.2	59.3
			800	23.4	18.3	63.9	62.7	68.2	20.2	16.8	60.6	59.2	64.6	17.3	15.1	57.5	55.7	61.2
			1000	25.0	20.6	65.9	64.0	69.9	21.6	18.8	62.6	60.4	66.1	18.4	16.7	59.6	56.9	62.5
42	3.0	2.10	600	27.2	17.5	58.0	57.5	60.2	22.8	16.1	55.2	54.7	57.3	18.8	14.5	52.7	52.1	54.6
			800	30.0	20.8	61.0	60.1	62.1	25.4	19.1	57.9	56.9	59.0	21.2	17.4	54.9	53.9	56.2
			1000	32.4	23.6	63.1	61.7	63.6	27.6	21.8	59.8	58.4	60.5	23.2	19.8	56.7	55.1	57.5
42	7.2	10.90	600	35.6	21.0	52.7	52.3	51.9	29.6	19.0	50.8	50.4	50.3	24.0	16.8	49.1	48.6	48.7
			800	41.0	25.0	56.0	55.2	53.5	34.4	22.8	53.6	52.8	51.6	28.0	20.4	51.4	50.6	49.8
			1000	45.5	28.6	58.5	57.4	54.7	38.0	26.2	55.8	54.7	52.6	31.0	23.4	53.3	52.2	50.7
45	1.8	0.80	600	19.8	14.7	62.3	61.6	67.0	16.8	13.5	59.2	58.2	63.8	14.2	12.2	56.2	55.0	60.8
			800	21.8	17.5	64.8	63.3	69.4	18.7	16.0	61.5	59.8	65.9	15.7	14.1	58.7	56.4	62.5
			1000	23.4	19.9	66.6	64.5	71.2	20.0	17.7	63.6	60.9	67.2	15.4	15.1	61.0	57.9	62.2
45	3.0	2.10	600	24.8	16.7	59.3	58.8	61.6	20.6	15.1	56.7	56.1	58.8	16.8	13.6	54.1	53.3	56.2
			800	27.6	19.9	62.0	61.1	63.5	23.2	18.2	59.0	57.9	60.5	19.2	16.4	56.1	54.8	57.9
			1000	29.8	22.6	64.0	62.5	65.0	25.2	20.8	60.8	59.2	61.9	21.0	18.6	57.8	55.9	59.1
45	7.2	10.90	600	32.6	19.7	54.7	54.2	54.1	26.6	17.6	52.9	52.3	52.4	21.0	15.5	51.1	50.6	50.9
			800	37.5	23.6	57.6	56.8	55.5	30.8	21.4	55.3	54.5	53.6	24.6	18.9	53.2	52.3	51.8
			1000	41.5	27.2	59.9	58.7	56.6	34.2	24.6	57.3	56.1	54.5	27.2	21.8	54.9	53.7	52.6
48	1.8	0.80	600	18.2	14.1	63.3	62.4	68.3	15.4	12.8	60.2	59.0	65.2	11.4	11.2	57.7	56.6	60.7
			800	20.4	16.9	65.5	63.9	70.7	17.2	15.1	62.6	60.4	67.2	12.9	12.7	60.3	57.7	62.4
			1000	21.8	18.9	67.5	65.0	72.3	16.6	16.3	64.9	62.0	66.5	13.9	13.7	62.3	58.4	63.5
48	3.0	2.10	600	22.4	15.8	60.7	60.1	63.0	18.5	14.3	58.0	57.3	60.4	14.9	12.6	55.5	54.6	57.9
			800	25.2	19.0	63.1	62.0	64.9	21.0	17.2	60.1	58.8	62.1	17.1	15.2	57.4	55.8	59.5
			1000	27.4	21.8	64.9	63.3	66.3	23.0	19.7	61.8	59.9	63.4	17.4	17.1	59.2	57.2	59.6
48	7.2	10.90	600	29.4	18.4	56.7	56.2	56.2	23.4	16.4	54.8	54.3	54.5	17.9	14.1	53.3	52.7	53.0
			800	34.0	22.2	59.3	58.5	57.5	27.2	19.9	57.0	56.2	55.6	21.0	17.3	55.0	54.0	53.9
			1000	37.4	25.6	61.3	60.1	58.4	30.0	23.0	58.8	57.6	56.3	23.6	20.2	56.3	55.0	54.6

HB CHILLED WATER COOLING CAPACITIES

HBB 12 (4 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	3.2	1.20	900	28.2	20.6	63.7	62.1	59.7	24.0	19.1	60.4	58.7	57.0	20.0	17.2	57.3	55.5	54.6
			1200	30.6	24.2	66.3	63.9	61.2	26.2	22.2	62.8	60.3	58.4	22.2	20.0	59.5	56.8	55.9
			1500	32.4	27.2	68.2	65.0	62.4	28.0	25.0	64.6	61.4	59.5	22.4	22.0	61.4	58.0	56.1
42	8.0	6.70	900	41.0	25.4	58.8	57.4	52.3	34.0	23.2	56.2	54.8	50.5	27.8	20.6	53.7	52.3	49.0
			1200	46.0	30.0	61.9	59.9	53.5	38.0	27.4	58.9	56.9	51.6	31.2	24.6	56.0	54.1	49.8
			1500	49.5	33.8	64.2	61.5	54.4	41.5	31.0	60.9	58.4	52.4	33.8	27.8	57.8	55.4	50.5
42	12.8	16.50	900	45.5	27.4	56.9	55.6	49.1	37.5	24.8	54.6	53.2	47.9	30.6	22.0	52.3	51.0	46.8
			1200	52.0	32.4	60.1	58.1	50.2	43.0	29.4	57.4	55.4	48.8	35.2	26.4	54.7	52.9	47.5
			1500	57.0	36.6	62.5	59.9	50.9	47.5	33.2	59.5	57.0	49.4	38.5	30.0	56.5	54.2	48.1
45	3.2	1.20	900	26.0	19.9	64.6	62.8	61.3	21.8	18.2	61.3	59.5	58.7	18.1	16.3	58.3	56.2	56.4
			1200	28.4	23.4	67.0	64.4	62.8	24.0	21.2	63.6	60.9	60.1	19.0	18.7	60.6	57.8	56.9
			1500	30.2	26.2	68.8	65.4	63.9	25.8	23.4	65.5	61.8	61.2	20.6	20.2	62.5	58.5	57.9
45	8.0	6.70	900	37.4	24.2	60.2	58.8	54.4	30.6	21.8	57.6	56.2	52.7	24.2	19.3	55.2	53.7	51.1
			1200	41.5	28.4	63.1	60.9	55.5	34.4	25.8	60.1	58.0	53.6	27.4	23.0	57.3	55.3	51.9
			1500	45.0	32.2	65.1	62.4	56.3	37.2	29.4	61.9	59.3	54.3	30.0	26.2	58.9	56.3	52.5
45	12.8	16.40	900	41.5	25.6	58.6	57.2	51.5	33.8	23.0	56.3	54.9	50.3	26.8	20.4	54.1	52.7	49.2
			1200	47.0	30.4	61.5	59.5	52.4	38.5	27.6	58.8	56.8	51.1	30.6	24.4	56.2	54.3	49.8
			1500	51.5	34.6	63.7	61.1	53.1	42.5	31.4	60.7	58.2	51.6	33.6	27.8	57.8	55.4	50.3
48	3.2	1.20	900	23.8	19.1	65.4	63.6	62.9	19.8	17.2	62.3	60.3	60.4	15.2	15.0	59.6	57.4	57.5
			1200	26.2	22.2	67.8	65.0	64.4	22.0	20.0	64.6	61.5	61.8	17.2	16.9	62.0	58.3	58.8
			1500	28.0	25.0	69.6	65.9	65.5	22.2	21.8	66.5	62.6	61.9	18.7	18.3	63.7	58.9	59.7
48	8.0	6.60	900	33.6	22.6	61.7	60.1	56.4	27.0	20.4	59.1	57.6	54.8	20.8	17.8	56.7	55.2	53.2
			1200	37.6	27.0	64.2	62.1	57.4	30.2	24.2	61.4	59.2	55.6	23.8	21.2	58.6	56.3	54.0
			1500	40.5	30.6	66.1	63.4	58.2	33.0	27.6	63.0	60.3	56.3	26.4	24.4	60.0	57.1	54.6
48	12.8	16.40	900	37.2	24.0	60.3	58.8	53.8	29.8	21.4	58.0	56.5	52.7	22.6	18.7	55.8	54.4	51.6
			1200	42.5	28.6	62.9	60.8	54.6	34.0	25.6	60.2	58.2	53.3	26.0	22.4	57.7	55.7	52.1
			1500	46.0	32.6	64.9	62.2	55.3	37.2	29.4	61.9	59.4	53.8	28.8	25.6	59.2	56.6	52.5

HBB 12 (6 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	2.0	0.60	900	28.2	21.4	62.9	62.1	70.3	24.6	20.0	59.5	58.5	66.7	21.2	18.2	56.3	55.0	63.3
			1200	30.6	25.2	65.5	63.8	72.8	26.8	23.2	62.1	60.2	68.9	22.8	20.6	59.1	56.6	65.0
			1500	32.2	28.0	67.7	65.1	74.3	28.0	25.2	64.5	61.4	70.0	22.0	21.6	61.7	58.2	64.1
42	4.0	2.10	900	39.5	26.0	58.3	57.8	61.9	33.4	23.8	55.6	55.0	58.8	27.8	21.4	52.9	52.2	56.0
			1200	44.0	30.8	61.3	60.4	64.1	37.4	28.2	58.2	57.2	60.8	31.4	25.6	55.2	54.0	57.8
			1500	47.5	35.2	63.3	62.0	65.8	40.5	32.4	60.0	58.6	62.3	34.2	29.4	56.9	55.3	59.2
42	9.6	10.90	900	53.0	31.4	52.8	52.4	53.1	44.0	28.4	50.9	50.4	51.3	36.0	25.2	49.1	48.6	49.5
			1200	61.5	37.6	56.1	55.3	54.9	51.5	34.2	53.7	52.9	52.7	41.5	30.4	51.5	50.7	50.7
			1500	67.0	42.5	58.6	57.5	56.2	56.5	39.0	55.9	54.8	53.9	46.5	35.2	53.3	52.2	51.7
45	2.0	0.60	900	26.2	20.6	63.8	62.8	71.2	22.6	19.0	60.5	59.2	67.8	19.3	16.9	57.6	55.8	64.4
			1200	28.6	24.2	66.4	64.4	73.7	24.6	21.6	63.3	60.8	69.6	18.8	18.6	60.7	57.8	63.9
			1500	30.6	27.0	68.3	65.4	75.7	23.2	22.8	65.9	62.3	68.3	20.0	19.6	62.9	58.6	65.0
45	4.0	2.10	900	36.4	24.6	59.7	59.2	63.2	30.4	22.4	56.9	56.3	60.2	25.0	20.2	54.2	53.4	57.5
			1200	40.5	29.4	62.3	61.3	65.3	34.2	27.0	59.2	58.1	62.2	28.4	24.2	56.3	54.9	59.3
			1500	43.5	33.8	64.2	62.7	67.0	37.2	30.8	61.0	59.3	63.7	31.2	27.6	58.0	56.0	60.6
45	9.6	10.90	900	48.5	29.4	54.8	54.3	55.2	39.5	26.4	52.9	52.4	53.3	31.6	23.2	51.1	50.6	51.6
			1200	56.0	35.4	57.7	56.9	56.7	46.0	32.0	55.4	54.6	54.6	36.8	28.2	53.2	52.4	52.7
			1500	62.0	40.5	60.0	58.9	57.9	51.0	36.8	57.3	56.2	55.6	40.5	32.6	54.9	53.7	53.5
48	2.0	0.60	900	24.4	19.8	64.7	63.4	72.4	20.8	17.8	61.7	59.9	68.9	15.4	15.2	59.4	57.3	63.4
			1200	26.6	22.8	67.4	64.9	74.7	20.0	19.7	64.8	62.0	68.1	16.9	16.6	62.2	58.4	65.0
			1500	24.6	24.4	70.0	66.5	72.7	21.2	20.8	67.1	62.8	69.3	18.0	17.7	64.1	59.1	66.0
48	4.0	2.10	900	33.0	23.4	60.9	60.3	64.6	27.4	21.2	58.1	57.4	61.8	22.2	18.9	55.6	54.6	59.2
			1200	37.2	28.2	63.3	62.2	66.7	31.2	25.6	60.2	58.9	63.6	25.6	22.6	57.6	55.8	60.8
			1500	40.5	32.2	65.1	63.4	68.3	34.2	29.2	62.0	60.0	65.1	25.4	25.0	59.6	57.4	60.8
48	9.6	10.80	900	44.0	27.6	56.7	56.2	57.2	35.2	24.6	54.8	54.3	55.4	26.8	21.0	53.3	52.7	53.6
			1200	50.5	33.2	59.4	58.5	58.6	40.5	29.8	57.0	56.2	56.5	31.6	26.0	54.9	54.0	54.6
			1500	55.5	38.0	61.4	60.2	59.6	44.5	34.2	58.9	57.6	57.4	35.4	30.4	56.3	55.0	55.4

HB CHILLED WATER COOLING CAPACITIES

HBB 16 (4 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	4.0	1.10	1200	36.8	27.2	64.0	62.3	60.5	31.4	25.2	60.6	58.9	57.7	26.2	22.6	57.5	55.6	55.2
			1600	40.0	32.0	66.5	64.0	62.1	34.4	29.4	63.0	60.4	59.2	29.0	26.2	59.8	56.9	56.6
			2000	42.5	36.0	68.4	65.1	63.3	36.6	32.6	64.9	61.5	60.3	29.4	29.0	61.6	58.2	56.7
	10.0	6.50	1200	54.0	33.8	59.0	57.6	52.8	45.0	30.6	56.4	54.9	51.0	36.6	27.6	53.8	52.4	49.3
			1600	60.0	39.5	62.1	60.0	54.1	50.5	36.2	59.1	57.1	52.1	41.0	32.6	56.2	54.2	50.3
			2000	65.0	44.5	64.4	61.7	55.1	54.5	41.0	61.1	58.5	52.9	44.5	36.8	58.0	55.5	50.9
	16.0	15.80	1200	60.0	36.2	57.1	55.8	49.5	50.0	32.8	54.7	53.4	48.3	40.5	29.2	52.5	51.1	47.1
			1600	68.0	42.5	60.3	58.3	50.6	57.0	39.0	57.5	55.6	49.2	46.5	34.8	54.9	53.0	47.8
			2000	75.0	48.0	62.7	60.1	51.4	62.5	44.0	59.6	57.1	49.8	51.0	39.5	56.7	54.3	48.4
45	4.0	1.10	1200	34.0	26.2	64.8	63.0	62.1	28.6	24.0	61.5	59.6	59.4	23.8	21.4	58.5	56.3	57.0
			1600	37.2	30.8	67.2	64.6	63.6	31.6	28.0	63.8	61.0	60.8	24.8	24.4	60.9	57.9	57.5
			2000	39.5	34.6	69.0	65.6	64.8	33.8	31.0	65.7	61.9	61.9	26.8	26.4	62.8	58.6	58.5
	10.0	6.40	1200	49.0	32.0	60.4	58.9	54.9	40.0	28.8	57.8	56.3	53.1	32.0	25.6	55.3	53.9	51.4
			1600	55.0	37.6	63.3	61.1	56.0	45.0	34.0	60.3	58.2	54.1	36.2	30.2	57.5	55.4	52.2
			2000	59.0	42.5	65.3	62.6	56.9	49.0	38.5	62.1	59.5	54.8	39.5	34.6	59.0	56.4	52.9
	16.0	15.80	1200	54.5	34.0	58.8	57.4	51.9	44.5	30.6	56.4	55.0	50.6	35.4	27.0	54.2	52.8	49.4
			1600	62.0	40.0	61.7	59.6	52.8	51.0	36.6	58.9	56.9	51.4	40.5	32.4	56.3	54.4	50.1
			2000	68.0	45.5	63.9	61.2	53.5	55.5	41.0	60.9	58.3	52.0	44.0	36.8	58.0	55.5	50.6
48	4.0	1.10	1200	31.2	25.2	65.6	63.7	63.6	26.0	22.6	62.5	60.4	61.1	20.0	19.7	59.8	57.5	58.0
			1600	34.2	29.4	68.0	65.1	65.2	28.8	26.2	64.8	61.5	62.5	22.4	22.2	62.2	58.4	59.3
			2000	36.6	32.6	69.9	66.0	66.3	29.0	28.6	66.8	62.7	62.5	24.4	24.0	63.9	59.0	60.2
	10.0	6.40	1200	44.0	30.2	61.8	60.3	56.9	35.6	27.0	59.2	57.7	55.1	27.4	23.6	56.8	55.2	53.5
			1600	49.5	35.6	64.4	62.2	57.9	39.5	32.0	61.5	59.3	56.0	31.6	28.2	58.7	56.4	54.3
			2000	53.5	40.5	66.3	63.5	58.7	43.5	36.6	63.1	60.4	56.7	34.8	32.0	60.2	57.2	55.0
	16.0	15.70	1200	49.0	32.0	60.4	58.9	54.2	39.0	28.4	58.1	56.6	52.9	29.8	24.6	56.0	54.5	51.7
			1600	56.0	38.0	63.1	60.9	55.0	44.5	34.0	60.4	58.3	53.6	34.4	29.8	57.8	55.8	52.3
			2000	61.0	43.0	65.1	62.3	55.6	49.0	38.5	62.1	59.5	54.1	38.0	34.0	59.3	56.6	52.8

HBB 16 (6 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	3.0	0.80	1200	40.0	29.8	62.1	61.4	68.9	34.8	27.4	58.9	58.0	65.2	29.6	24.8	55.8	54.6	61.8
			1600	44.0	35.2	64.7	63.2	71.6	38.5	32.6	61.2	59.6	67.8	32.4	28.8	58.4	56.2	63.7
			2000	47.5	40.0	66.5	64.4	73.7	41.0	36.2	63.3	60.8	69.4	31.2	30.8	60.8	57.8	62.9
	5.0	2.00	1200	52.0	34.2	58.7	58.1	62.9	43.5	31.4	55.8	55.3	59.6	36.6	28.4	53.1	52.4	56.7
			1600	57.5	40.5	61.6	60.6	65.1	49.0	37.4	58.4	57.3	61.7	41.0	34.0	55.4	54.2	58.6
			2000	62.0	46.0	63.7	62.2	66.8	53.0	42.5	60.3	58.8	63.3	45.0	38.5	57.1	55.4	60.0
	12.0	10.50	1200	70.0	41.5	53.1	52.6	53.7	58.5	37.6	51.1	50.6	51.8	47.5	33.4	49.3	48.8	49.9
			1600	81.0	49.5	56.4	55.6	55.5	67.0	45.0	53.9	53.1	53.3	55.0	40.5	51.6	50.8	51.2
			2000	89.0	56.5	58.9	57.7	56.9	74.0	51.5	56.1	55.0	54.5	61.0	46.5	53.5	52.4	52.2
45	3.0	0.80	1200	37.6	28.6	62.9	62.1	70.1	32.2	26.4	59.7	58.6	66.6	27.2	23.4	56.9	55.4	63.1
			1600	41.5	34.0	65.3	63.7	72.8	35.8	30.8	62.2	60.2	68.9	26.6	26.2	59.8	57.5	62.8
			2000	44.0	38.0	67.4	64.9	74.6	37.6	33.6	64.5	61.3	70.2	28.6	28.2	62.0	58.3	64.1
	5.0	2.00	1200	47.5	32.4	60.0	59.4	64.1	40.0	29.8	57.1	56.4	61.0	33.0	26.8	54.3	53.6	58.2
			1600	53.0	38.5	62.6	61.5	66.3	45.0	35.6	59.4	58.2	63.0	37.6	32.0	56.5	55.1	60.0
			2000	57.5	44.5	64.4	62.9	68.0	49.0	40.5	61.2	59.5	64.6	40.5	36.2	58.3	56.1	61.4
	12.0	10.50	1200	64.0	39.0	55.0	54.5	55.7	52.5	35.0	53.1	52.5	53.8	41.5	30.8	51.3	50.7	52.0
			1600	74.0	46.5	58.0	57.1	57.4	60.5	42.0	55.6	54.7	55.2	48.5	37.6	53.3	52.5	53.1
			2000	81.0	53.5	60.2	59.1	58.6	67.0	48.5	57.5	56.4	56.2	53.5	43.0	55.0	53.8	54.0
48	3.0	0.80	1200	35.0	27.6	63.8	62.7	71.4	29.8	25.0	60.7	59.3	68.0	21.6	21.2	58.6	57.0	62.5
			1600	38.5	32.6	66.2	64.2	73.9	32.8	28.8	63.4	60.8	69.9	24.0	23.6	61.3	58.0	64.1
			2000	41.0	35.4	68.6	65.4	75.3	30.8	30.2	66.0	62.4	68.6	25.8	25.6	63.2	58.8	65.3
	5.0	2.00	1200	43.5	30.8	61.2	60.5	65.4	36.0	28.2	58.3	57.6	62.5	29.4	25.0	55.7	54.6	59.8
			1600	48.5	37.2	63.5	62.3	67.6	41.0	34.0	60.4	59.1	64.5	33.8	29.8	57.8	55.9	61.5
			2000	53.0	42.5	65.3	63.6	69.3	44.5	38.5	62.2	60.1	66.0	33.2	32.6	59.9	57.5	61.3
	12.0	10.40	1200	58.0	36.4	56.9	56.4	57.7	46.5	32.4	55.0	54.5	55.8	35.6	28.0	53.4	52.8	53.9
			1600	66.0	44.0	59.6	58.7	59.1	53.5	39.5	57.2	56.3	57.0	41.5	34.6	55.0	54.1	55.0
			2000	73.0	50.5	61.6	60.4	60.2	59.0	45.5	59.0	57.8	57.9	47.0	40.0	56.5	55.0	55.8

HB CHILLED WATER COOLING CAPACITIES

HBB 20 (4 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	5.2	1.00	1500	46.0	34.0	64.0	62.3	59.7	39.0	31.4	60.7	59.0	57.0	32.8	28.4	57.5	55.6	54.6
			2000	50.0	40.0	66.5	64.0	61.2	42.5	36.6	63.1	60.5	58.5	36.2	32.8	59.8	57.0	55.9
			2500	53.0	45.0	68.4	65.2	62.4	43.5	40.5	64.9	61.5	59.5	36.6	36.0	61.7	58.2	56.1
	13.0	5.40	1500	67.0	42.0	59.1	57.6	52.4	56.0	38.0	56.4	54.9	50.7	45.5	34.4	53.8	52.4	49.0
			2000	75.0	49.5	62.1	60.0	53.6	63.0	45.0	59.1	57.0	51.7	51.5	40.5	56.2	54.2	49.9
			2500	81.0	55.5	64.4	61.7	54.6	68.0	51.0	61.1	58.5	52.5	55.5	46.0	58.0	55.5	50.6
	20.8	13.10	1500	75.0	45.0	57.1	55.7	49.3	62.5	41.0	54.7	53.4	48.0	50.5	36.6	52.5	51.1	46.9
			2000	86.0	53.5	60.3	58.3	50.3	71.0	48.5	57.5	55.5	48.9	58.0	43.5	54.9	53.0	47.6
			2500	94.0	60.0	62.7	60.1	51.0	78.0	55.0	59.6	57.1	49.6	64.0	49.5	56.7	54.3	48.2
45	5.2	1.00	1500	42.0	32.8	64.8	63.0	61.3	35.8	29.8	61.6	59.7	58.8	29.6	26.6	58.6	56.4	56.4
			2000	46.0	38.5	67.2	64.6	62.8	39.0	34.8	63.9	61.0	60.2	31.0	30.4	60.9	57.9	56.9
			2500	49.0	43.0	69.1	65.6	64.0	42.0	38.5	65.7	61.9	61.2	33.6	33.0	62.8	58.6	57.9
	13.0	5.40	1500	61.5	40.0	60.4	58.9	54.5	50.5	36.0	57.8	56.3	52.8	40.0	32.0	55.3	53.9	51.2
			2000	69.0	47.0	63.3	61.1	55.6	56.5	42.5	60.3	58.2	53.7	45.0	37.5	57.5	55.4	52.0
			2500	74.0	53.0	65.3	62.6	56.5	61.0	48.5	62.1	59.5	54.4	49.5	43.0	59.0	56.4	52.6
	20.8	13.00	1500	68.0	42.5	58.8	57.3	51.6	56.0	38.0	56.4	55.0	50.4	44.0	33.8	54.2	52.8	49.3
			2000	78.0	50.5	61.7	59.6	52.5	64.0	45.5	58.9	56.9	51.2	50.5	40.5	56.3	54.4	49.9
			2500	85.0	57.0	63.9	61.2	53.2	70.0	51.5	60.9	58.3	51.7	55.5	46.0	57.9	55.5	50.4
48	5.2	1.00	1500	38.5	31.4	65.7	63.7	63.0	32.4	28.4	62.5	60.4	60.5	24.8	24.4	59.9	57.5	57.6
			2000	42.5	36.8	68.0	65.1	64.5	36.0	32.8	64.8	61.6	61.9	28.0	27.6	62.2	58.4	58.8
			2500	45.5	40.5	69.9	66.0	65.6	36.2	35.8	66.8	62.7	61.9	30.4	30.0	63.9	59.0	59.7
	13.0	5.30	1500	55.5	37.6	61.8	60.3	56.6	44.5	33.8	59.2	57.7	54.9	34.4	29.6	56.8	55.2	53.3
			2000	62.0	44.5	64.4	62.2	57.6	50.0	40.0	61.5	59.3	55.7	39.5	35.2	58.7	56.4	54.1
			2500	67.0	50.5	66.3	63.5	58.3	54.0	45.5	63.1	60.4	56.4	43.5	40.0	60.2	57.2	54.7
	20.8	13.00	1500	61.5	40.0	60.4	58.9	53.9	49.0	35.6	58.1	56.6	52.7	37.4	30.8	56.0	54.5	51.6
			2000	70.0	47.5	63.1	60.9	54.8	56.0	42.5	60.4	58.3	53.4	43.0	37.2	57.8	55.7	52.2
			2500	76.0	53.5	65.1	62.3	55.4	61.0	48.5	62.1	59.4	53.9	47.5	42.5	59.3	56.6	52.6

HBB 20 (6 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	3.7	0.80	1500	50.0	37.0	62.2	61.5	69.2	43.0	34.0	59.0	58.0	65.5	36.6	31.0	55.9	54.7	62.0
			2000	55.0	43.5	64.8	63.3	71.9	47.5	40.5	61.3	59.7	68.0	40.0	35.8	58.5	56.3	63.9
			2500	59.0	49.5	66.6	64.4	74.1	50.5	45.0	63.4	60.8	69.7	38.5	37.5	61.0	57.9	63.0
	7.2	2.90	1500	69.0	44.5	57.6	57.1	61.4	58.5	40.5	54.9	54.4	58.3	48.0	36.6	52.4	51.8	55.4
			2000	77.0	52.5	60.7	59.8	63.4	65.0	48.5	57.6	56.6	60.2	54.5	44.0	54.7	53.6	57.2
			2500	83.0	60.0	62.8	61.5	65.2	71.0	55.0	59.6	58.1	61.8	59.5	50.0	56.4	54.9	58.6
	14.4	10.80	1500	87.0	51.5	53.2	52.8	54.2	72.0	46.5	51.2	50.7	52.1	59.0	41.5	49.4	48.9	50.2
			2000	100.0	61.5	56.5	55.7	56.0	84.0	56.0	54.1	53.2	53.7	68.0	50.5	51.7	50.9	51.5
			2500	110.0	70.0	59.0	57.9	57.4	92.0	64.0	56.2	55.1	54.9	75.0	58.0	53.6	52.5	52.5
45	3.7	0.80	1500	46.5	35.8	63.0	62.1	70.4	40.0	32.8	59.8	58.7	66.9	33.6	29.2	57.0	55.4	63.4
			2000	51.5	42.5	65.4	63.8	73.2	44.5	38.5	62.2	60.2	69.2	33.0	32.4	60.0	57.5	62.9
			2500	55.0	47.0	67.5	64.9	74.9	46.5	41.5	64.6	61.4	70.4	35.2	34.6	62.2	58.3	64.2
	7.2	2.90	1500	63.5	42.0	59.0	58.5	62.7	52.5	38.0	56.4	55.8	59.7	43.0	34.4	53.8	53.1	57.0
			2000	71.0	50.5	61.7	60.8	64.7	59.5	46.0	58.7	57.6	61.6	49.5	41.5	55.8	54.6	58.8
			2500	76.0	57.5	63.7	62.3	66.4	65.0	52.5	60.5	59.0	63.1	54.0	47.0	57.5	55.7	60.1
	14.4	10.70	1500	80.0	48.5	55.1	54.6	56.1	65.0	43.5	53.2	52.6	54.1	52.0	38.5	51.3	50.8	52.2
			2000	91.0	58.0	58.1	57.3	57.8	75.0	52.5	55.7	54.8	55.5	59.5	46.5	53.5	52.6	53.3
			2500	100.0	66.0	60.4	59.2	59.0	83.0	60.5	57.6	56.5	56.6	66.0	53.5	55.1	53.9	54.3
48	3.7	0.80	1500	43.5	34.2	63.9	62.8	71.7	37.2	31.2	60.8	59.4	68.3	26.8	26.2	58.8	57.1	62.6
			2000	48.0	40.5	66.3	64.3	74.3	40.5	35.8	63.5	60.8	70.2	29.8	29.4	61.4	58.1	64.2
			2500	50.5	44.0	68.7	65.4	75.6	38.0	37.4	66.2	62.4	68.7	31.8	31.4	63.4	58.8	65.4
	7.2	2.90	1500	57.5	40.0	60.4	59.8	64.0	47.5	36.2	57.7	57.0	61.2	38.0	32.2	55.2	54.3	58.6
			2000	65.0	48.0	62.8	61.7	66.1	54.0	43.5	59.8	58.6	63.1	44.0	38.5	57.2	55.6	60.3
			2500	70.0	55.0	64.6	63.0	67.7	59.0	50.0	61.5	59.7	64.5	44.0	43.0	59.0	57.2	60.2
	14.4	10.70	1500	72.0	45.0	57.1	56.5	58.0	57.5	40.5	55.1	54.5	56.0	44.0	35.0	53.4	52.8	54.2
			2000	82.0	54.5	59.7	58.8	59.5	66.0	49.0	57.3	56.4	57.3	52.0	43.0	55.1	54.1	55.2
			2500	90.0	62.5	61.8	60.5	60.6	73.0	56.5	59.1	57.8	58.2	58.5	50.0	56.5	55.1	56.1

HB CHILLED WATER COOLING CAPACITIES

HBB 30 (4 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	8.0	1.40	2250	76.0	54.5	62.6	61.3	61.0	64.0	50.5	59.3	58.0	58.2	54.0	45.5	56.3	54.8	55.6
			3000	83.0	65.0	65.0	63.1	63.0	71.0	59.5	61.6	59.7	60.0	60.5	54.0	58.4	56.2	57.2
			3750	89.0	73.0	66.9	64.4	64.4	77.0	67.0	63.3	60.7	61.3	65.0	60.0	60.2	57.2	58.4
42	17.5	6.40	2250	104.0	65.0	58.2	57.2	53.9	86.0	59.5	55.6	54.5	51.9	70.0	53.0	53.1	52.1	50.1
			3000	117.0	77.0	61.1	59.6	55.4	98.0	71.0	58.1	56.6	53.3	80.0	63.5	55.4	53.9	51.2
			3750	127.0	88.0	63.3	61.3	56.5	107.0	81.0	60.0	58.1	54.2	88.0	73.0	57.0	55.0	52.1
42	25.0	12.70	2250	113.0	68.0	56.8	55.8	51.0	94.0	62.0	54.4	53.3	49.5	76.0	55.5	52.1	51.1	48.1
			3000	129.0	82.0	59.8	58.3	52.3	108.0	74.0	57.0	55.5	50.6	88.0	67.0	54.3	52.9	49.0
			3750	141.0	93.0	62.0	60.0	53.3	118.0	85.0	58.9	57.0	51.5	97.0	77.0	56.0	54.2	49.8
45	8.0	1.40	2250	70.0	52.0	63.5	62.1	62.5	59.0	48.0	60.3	58.9	59.8	49.0	43.0	57.3	55.7	57.3
			3000	77.0	62.0	65.8	63.8	64.4	65.0	56.5	62.5	60.3	61.5	51.0	50.0	59.5	57.3	57.8
			3750	83.0	71.0	67.5	64.8	65.9	71.0	63.5	64.3	61.3	62.9	56.0	55.0	61.4	58.1	59.0
45	17.5	6.40	2250	94.0	61.5	59.7	58.6	55.8	77.0	55.5	57.1	56.0	53.9	61.5	49.5	54.7	53.6	52.1
			3000	106.0	73.0	62.3	60.7	57.2	88.0	67.0	59.4	57.8	55.1	71.0	59.5	56.6	55.0	53.1
			3750	115.0	84.0	64.3	62.2	58.2	96.0	76.0	61.1	59.1	56.0	78.0	68.0	58.1	56.0	54.0
45	25.0	12.70	2250	102.0	64.0	58.4	57.4	53.2	84.0	58.0	56.1	55.0	51.7	66.0	51.5	53.8	52.7	50.3
			3000	117.0	77.0	61.1	59.6	54.4	96.0	70.0	58.4	56.9	52.7	76.0	62.0	55.8	54.3	51.1
			3750	128.0	89.0	63.1	61.2	55.3	106.0	80.0	60.1	58.2	53.5	85.0	72.0	57.3	55.4	51.8
48	8.0	1.40	2250	64.0	50.0	64.4	63.0	64.0	53.5	45.5	61.3	59.7	61.4	40.5	40.0	58.6	57.0	58.2
			3000	71.0	59.5	66.6	64.4	65.9	60.5	53.5	63.5	60.9	63.1	46.0	45.5	61.0	57.9	59.6
			3750	77.0	67.0	68.4	65.3	67.3	60.0	59.0	65.4	62.2	63.1	50.5	50.0	62.7	58.6	60.7
48	17.5	6.40	2250	85.0	58.0	61.2	60.0	57.7	68.0	52.0	58.6	57.4	55.8	53.5	45.5	56.2	54.9	54.1
			3000	96.0	69.0	63.5	61.9	59.0	77.0	62.5	60.7	59.0	56.9	62.0	55.5	57.9	56.1	55.1
			3750	104.0	80.0	65.3	63.2	59.9	85.0	72.0	62.2	60.0	57.8	69.0	63.5	59.3	56.8	56.0
48	25.0	12.60	2250	92.0	60.5	60.1	58.9	55.4	74.0	54.0	57.7	56.6	53.9	56.5	47.0	55.6	54.4	52.6
			3000	105.0	73.0	62.5	60.9	56.4	84.0	65.0	59.8	58.2	54.8	66.0	57.5	57.2	55.6	53.3
			3750	115.0	84.0	64.3	62.3	57.2	93.0	75.0	61.4	59.3	55.5	74.0	66.0	58.6	56.4	53.9

HBB 30 (6 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	9.0	0.80	2250	90.0	62.0	59.6	59.2	62.1	77.0	57.0	56.6	56.1	59.2	65.0	52.0	53.6	53.0	56.5
			3000	101.0	74.0	62.1	61.4	64.5	86.0	69.0	58.8	58.0	61.3	73.0	62.5	55.7	54.7	58.4
			3750	109.0	85.0	63.9	62.8	66.3	94.0	78.0	60.6	59.2	63.0	80.0	71.0	57.4	55.8	59.9
42	26.3	6.40	2250	135.0	79.0	52.4	52.1	52.3	112.0	72.0	50.5	50.2	50.6	91.0	64.0	48.7	48.4	49.0
			3000	157.0	96.0	55.5	55.0	54.0	131.0	87.0	53.1	52.6	52.0	107.0	78.0	50.9	50.4	50.2
			3750	174.0	110.0	57.8	57.1	55.3	146.0	101.0	55.1	54.4	53.1	118.0	90.0	52.7	52.0	51.0
42	37.5	12.50	2250	143.0	83.0	50.9	50.6	49.7	119.0	74.0	49.3	49.0	48.4	96.0	66.0	47.8	47.4	47.2
			3000	169.0	101.0	53.9	53.4	51.1	141.0	91.0	51.8	51.3	49.5	114.0	81.0	49.9	49.3	48.1
			3750	190.0	116.0	56.3	55.6	52.2	159.0	106.0	53.8	53.1	50.5	129.0	95.0	51.6	50.8	48.9
45	9.0	0.80	2250	83.0	59.0	60.7	60.2	63.6	70.0	54.5	57.6	57.1	60.7	58.5	49.0	54.8	54.1	58.1
			3000	94.0	71.0	62.9	62.1	65.9	80.0	66.0	59.7	58.7	62.9	67.0	58.5	56.9	55.4	60.0
			3750	102.0	82.0	64.7	63.3	67.8	87.0	75.0	61.5	59.8	64.5	66.0	65.0	58.9	57.1	59.8
45	26.3	6.30	2250	123.0	74.0	54.4	54.1	54.4	101.0	67.0	52.5	52.1	52.7	80.0	59.0	50.8	50.4	51.1
			3000	143.0	90.0	57.1	56.6	55.9	118.0	82.0	54.8	54.3	54.0	93.0	72.0	52.8	52.2	52.1
			3750	158.0	104.0	59.3	58.5	57.1	131.0	95.0	56.6	55.9	55.0	105.0	84.0	54.2	53.3	53.0
45	37.5	12.50	2250	131.0	77.0	53.1	52.8	52.0	106.0	69.0	51.5	51.1	50.7	84.0	61.0	50.0	49.7	49.5
			3000	154.0	95.0	55.8	55.3	53.3	126.0	85.0	53.7	53.2	51.8	100.0	75.0	51.8	51.3	50.4
			3750	173.0	110.0	57.9	57.2	54.2	142.0	99.0	55.5	54.8	52.6	112.0	87.0	53.4	52.6	51.0
48	9.0	0.80	2250	77.0	56.5	61.7	61.2	65.1	64.0	51.5	58.7	58.0	62.4	53.0	46.0	56.1	55.0	59.8
			3000	87.0	69.0	63.8	62.8	67.4	74.0	62.5	60.7	59.4	64.5	54.5	53.5	58.5	56.9	60.1
			3750	95.0	79.0	65.5	63.9	69.2	81.0	70.0	62.6	60.4	66.0	60.0	59.0	60.4	57.7	61.4
48	26.3	6.30	2250	111.0	69.0	56.4	56.0	56.5	89.0	62.0	54.5	54.2	54.8	68.0	53.5	52.9	52.5	53.2
			3000	129.0	85.0	58.8	58.3	57.8	103.0	76.0	56.6	56.0	55.9	81.0	67.0	54.4	53.7	54.2
			3750	142.0	98.0	60.7	59.9	58.9	115.0	89.0	58.1	57.3	56.8	92.0	78.0	55.7	54.6	55.0
48	37.5	12.40	2250	118.0	72.0	55.3	54.9	54.3	94.0	64.0	53.7	53.3	53.0	71.0	55.0	52.3	51.9	51.8
			3000	139.0	89.0	57.6	57.1	55.4	111.0	79.0	55.6	55.1	54.0	85.0	69.0	53.8	53.2	52.6
			3750	155.0	103.0	59.5	58.8	56.3	124.0	92.0	57.3	56.5	54.6	97.0	81.0	55.0	54.1	53.2

HB CHILLED WATER COOLING CAPACITIES

HBB 40 (4 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	9.6	1.40	3000	97.0	71.0	63.1	61.7	62.3	83.0	65.0	59.8	58.4	59.3	69.0	59.5	56.7	55.1	56.6
			4000	107.0	85.0	65.4	63.5	64.4	92.0	77.0	62.1	59.9	61.2	78.0	69.0	58.9	56.5	58.3
			5000	114.0	96.0	67.3	64.6	66.0	98.0	87.0	63.9	61.0	62.6	78.0	77.0	60.8	57.8	58.3
	21.0	6.00	3000	134.0	85.0	58.8	57.6	54.8	112.0	77.0	56.1	54.9	52.7	91.0	69.0	53.5	52.4	50.8
			4000	151.0	101.0	61.6	60.0	56.4	127.0	92.0	58.6	57.0	54.1	103.0	83.0	55.7	54.1	51.9
			5000	163.0	115.0	63.7	61.7	57.6	137.0	106.0	60.4	58.4	55.1	113.0	96.0	57.3	55.3	52.8
	30.0	11.80	3000	146.0	90.0	57.3	56.2	51.8	122.0	82.0	54.8	53.7	50.2	99.0	73.0	52.5	51.4	48.6
			4000	167.0	107.0	60.3	58.7	53.2	139.0	98.0	57.4	55.9	51.3	114.0	88.0	54.7	53.2	49.6
			5000	182.0	122.0	62.4	60.4	54.2	153.0	112.0	59.3	57.4	52.2	125.0	100.0	56.4	54.5	50.3
45	9.6	1.40	3000	90.0	68.0	63.9	62.5	63.8	76.0	62.5	60.7	59.2	60.9	63.5	56.0	57.7	55.9	58.2
			4000	99.0	81.0	66.2	64.1	65.8	84.0	74.0	62.9	60.6	62.7	65.0	65.0	60.0	57.5	58.7
			5000	107.0	92.0	68.0	65.1	67.3	91.0	83.0	64.7	61.5	64.1	71.0	70.0	62.0	58.3	60.0
	21.0	5.90	3000	122.0	80.0	60.2	59.0	56.7	101.0	73.0	57.5	56.3	54.6	80.0	65.0	55.0	53.8	52.7
			4000	137.0	96.0	62.8	61.1	58.1	113.0	87.0	59.8	58.2	55.8	92.0	78.0	56.9	55.2	53.8
			5000	148.0	110.0	64.7	62.6	59.2	124.0	100.0	61.5	59.4	56.8	101.0	90.0	58.4	56.2	54.7
	30.0	11.70	3000	133.0	84.0	58.9	57.8	53.9	109.0	76.0	56.5	55.3	52.3	86.0	68.0	54.1	53.0	50.8
			4000	152.0	101.0	61.6	60.0	55.1	125.0	92.0	58.8	57.2	53.3	99.0	82.0	56.1	54.5	51.6
			5000	166.0	116.0	63.6	61.5	56.1	137.0	105.0	60.5	58.5	54.1	110.0	94.0	57.6	55.6	52.4
48	9.6	1.30	3000	82.0	65.0	64.8	63.3	65.2	69.0	59.5	61.7	59.9	62.5	52.0	51.5	59.1	57.2	58.9
			4000	92.0	78.0	67.0	64.6	67.2	77.0	69.0	63.9	61.1	64.2	59.5	58.5	61.5	58.1	60.4
			5000	99.0	87.0	68.9	65.5	68.7	77.0	75.0	66.0	62.4	64.1	64.0	64.0	63.2	58.7	61.5
	21.0	5.90	3000	110.0	76.0	61.6	60.4	58.5	88.0	68.0	59.0	57.8	56.4	70.0	60.0	56.5	55.1	54.7
			4000	123.0	91.0	63.9	62.2	59.8	100.0	82.0	61.0	59.2	57.6	81.0	72.0	58.2	56.2	55.7
			5000	134.0	104.0	65.7	63.5	60.8	111.0	94.0	62.5	60.2	58.6	90.0	83.0	59.7	57.0	56.6
	30.0	11.70	3000	120.0	79.0	60.5	59.3	56.0	96.0	71.0	58.1	56.9	54.4	74.0	62.0	55.8	54.6	52.9
			4000	136.0	95.0	62.9	61.2	57.1	109.0	85.0	60.2	58.5	55.3	86.0	75.0	57.5	55.7	53.8
			5000	149.0	110.0	64.7	62.6	57.9	120.0	99.0	61.7	59.6	56.1	96.0	87.0	58.8	56.6	54.4

HBB 40 (6 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	10.8	0.80	3000	116.0	80.0	60.2	59.7	63.5	99.0	74.0	57.0	56.5	60.4	84.0	68.0	54.0	53.4	57.6
			4000	129.0	97.0	62.6	61.8	66.0	111.0	89.0	59.3	58.3	62.7	95.0	81.0	56.2	54.9	59.6
			5000	140.0	111.0	64.5	63.1	67.9	121.0	102.0	61.1	59.6	64.4	103.0	91.0	58.1	56.1	61.1
	31.5	6.10	3000	176.0	104.0	52.9	52.6	53.2	146.0	94.0	50.9	50.6	51.3	119.0	84.0	49.1	48.7	49.6
			4000	203.0	125.0	56.0	55.5	54.9	170.0	114.0	53.6	53.0	52.8	139.0	102.0	51.3	50.7	50.8
			5000	224.0	144.0	58.4	57.6	56.3	188.0	132.0	55.6	54.9	54.0	154.0	118.0	53.1	52.3	51.8
	45.0	12.00	3000	187.0	109.0	51.4	51.1	50.4	156.0	98.0	49.7	49.3	48.9	126.0	87.0	48.1	47.7	47.6
			4000	221.0	132.0	54.4	53.9	51.8	184.0	120.0	52.2	51.7	50.2	150.0	107.0	50.2	49.7	48.7
			5000	247.0	152.0	56.8	56.1	53.0	206.0	139.0	54.3	53.5	51.2	168.0	125.0	51.9	51.2	49.5
45	10.8	0.80	3000	107.0	77.0	61.1	60.6	65.0	91.0	71.0	58.1	57.4	62.0	76.0	64.0	55.1	54.3	59.2
			4000	120.0	93.0	63.4	62.5	67.4	103.0	85.0	60.2	59.0	64.2	87.0	76.0	57.3	55.7	61.2
			5000	131.0	107.0	65.1	63.6	69.4	113.0	98.0	61.9	60.1	65.9	95.0	83.0	59.6	57.4	60.8
	31.5	6.00	3000	160.0	97.0	54.9	54.5	55.2	131.0	88.0	52.9	52.5	53.4	104.0	77.0	51.1	50.7	51.7
			4000	185.0	118.0	57.7	57.1	56.8	153.0	107.0	55.2	54.7	54.7	122.0	95.0	53.1	52.4	52.8
			5000	204.0	136.0	59.8	59.0	58.0	168.0	124.0	57.1	56.3	55.7	137.0	111.0	54.5	53.6	53.7
	45.0	11.90	3000	171.0	102.0	53.5	53.2	52.6	140.0	91.0	51.8	51.5	51.2	110.0	80.0	50.3	49.9	49.9
			4000	201.0	124.0	56.3	55.7	54.0	165.0	112.0	54.1	53.5	52.3	131.0	99.0	52.1	51.5	50.8
			5000	224.0	144.0	58.4	57.6	55.0	184.0	130.0	55.9	55.1	53.2	146.0	115.0	53.7	52.9	51.5
48	10.8	0.80	3000	99.0	74.0	62.1	61.5	66.4	84.0	68.0	59.0	58.3	63.6	69.0	60.0	56.5	55.2	60.8
			4000	112.0	90.0	64.2	63.1	68.9	96.0	82.0	61.1	59.6	65.8	70.0	69.0	59.0	57.2	61.0
			5000	122.0	103.0	66.0	64.2	70.8	104.0	91.0	63.1	60.7	67.3	77.0	75.0	61.0	57.9	62.3
	31.5	6.00	3000	144.0	91.0	56.8	56.5	57.2	116.0	81.0	54.9	54.5	55.4	89.0	71.0	53.1	52.7	53.7
			4000	167.0	111.0	59.3	58.7	58.6	134.0	99.0	57.0	56.3	56.5	106.0	88.0	54.7	53.9	54.8
			5000	183.0	129.0	61.2	60.4	59.7	150.0	116.0	58.5	57.6	57.6	120.0	103.0	55.9	54.8	55.7
	45.0	11.90	3000	154.0	95.0	55.7	55.3	54.9	123.0	84.0	54.0	53.6	53.5	93.0	72.0	52.6	52.1	52.2
			4000	181.0	116.0	58.1	57.5	56.1	145.0	104.0	55.9	55.4	54.5	112.0	91.0	54.0	53.4	53.0
			5000	202.0	136.0	59.9	59.2	57.0	162.0	121.0	57.6	56.8	55.2	127.0	106.0	55.3	54.3	53.7

HB CHILLED WATER COOLING CAPACITIES

HBB 60 (4 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	18.0	2.30	5000	174.0	125.0	61.9	61.0	61.4	148.0	115.0	58.7	57.7	58.5	124.0	104.0	55.7	54.5	55.9
			6000	185.0	139.0	63.5	62.2	62.6	158.0	128.0	60.2	58.8	59.7	134.0	117.0	57.0	55.5	56.9
			7000	194.0	153.0	64.8	63.2	63.7	167.0	141.0	61.4	59.6	60.7	142.0	126.0	58.3	56.2	57.8
42	31.5	6.80	5000	220.0	142.0	58.7	57.9	56.0	185.0	130.0	55.9	55.1	53.8	151.0	117.0	53.4	52.5	51.6
			6000	236.0	159.0	60.5	59.5	57.0	199.0	146.0	57.5	56.5	54.6	164.0	132.0	54.7	53.6	52.4
			7000	249.0	174.0	62.0	60.7	57.8	210.0	160.0	58.9	57.6	55.4	175.0	145.0	55.9	54.5	53.1
42	45.0	13.50	5000	243.0	151.0	57.1	56.3	52.8	203.0	138.0	54.5	53.8	51.0	165.0	123.0	52.2	51.4	49.4
			6000	263.0	169.0	59.0	58.0	53.7	220.0	154.0	56.2	55.2	51.8	180.0	139.0	53.6	52.6	50.0
			7000	280.0	186.0	60.5	59.3	54.5	235.0	170.0	57.6	56.3	52.5	192.0	153.0	54.8	53.6	50.6
45	18.0	2.30	5000	160.0	120.0	62.8	61.8	62.9	136.0	110.0	59.7	58.6	60.1	113.0	99.0	56.7	55.4	57.6
			6000	171.0	134.0	64.3	62.9	64.1	146.0	123.0	61.1	59.5	61.3	122.0	110.0	58.1	56.1	58.6
			7000	181.0	148.0	65.5	63.8	65.2	155.0	134.0	62.3	60.2	62.2	119.0	118.0	59.4	57.3	58.3
45	31.5	6.80	5000	200.0	135.0	60.1	59.2	57.8	165.0	122.0	57.4	56.5	55.5	134.0	110.0	54.7	53.8	53.5
			6000	215.0	151.0	61.7	60.6	58.7	179.0	138.0	58.8	57.7	56.4	146.0	123.0	56.0	54.7	54.3
			7000	227.0	166.0	63.1	61.7	59.4	190.0	151.0	60.0	58.6	57.1	157.0	136.0	57.0	55.4	55.0
45	45.0	13.40	5000	221.0	143.0	58.6	57.9	54.8	182.0	129.0	56.1	55.3	53.1	144.0	114.0	53.9	53.0	51.4
			6000	239.0	160.0	60.4	59.3	55.7	197.0	145.0	57.6	56.6	53.8	158.0	129.0	55.1	54.0	52.0
			7000	254.0	176.0	61.8	60.5	56.3	210.0	160.0	58.9	57.6	54.3	170.0	143.0	56.1	54.7	52.6
48	18.0	2.30	5000	147.0	115.0	63.7	62.6	64.4	124.0	104.0	60.7	59.4	61.8	93.0	91.0	58.1	56.8	58.4
			6000	159.0	129.0	65.1	63.6	65.7	134.0	117.0	62.0	60.2	62.9	101.0	100.0	59.6	57.4	59.3
			7000	168.0	142.0	66.3	64.3	66.7	142.0	126.0	63.3	60.8	63.8	108.0	107.0	60.9	57.9	60.1
48	31.5	6.70	5000	180.0	128.0	61.4	60.6	59.5	147.0	115.0	58.7	57.8	57.4	118.0	101.0	56.2	55.0	55.5
			6000	194.0	143.0	62.9	61.8	60.3	160.0	130.0	60.0	58.7	58.2	129.0	115.0	57.3	55.7	56.2
			7000	206.0	158.0	64.1	62.7	61.1	171.0	143.0	61.1	59.5	58.9	139.0	126.0	58.3	56.3	56.9
48	45.0	13.40	5000	199.0	134.0	60.2	59.4	56.9	159.0	120.0	57.8	56.9	55.1	125.0	106.0	55.4	54.5	53.6
			6000	215.0	151.0	61.7	60.6	57.6	174.0	136.0	59.1	57.9	55.7	138.0	120.0	56.5	55.2	54.2
			7000	229.0	167.0	63.0	61.7	58.2	186.0	150.0	60.2	58.7	56.3	149.0	133.0	57.4	55.8	54.6

HBB 60 (6 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	16.8	0.90	5000	176.0	127.0	61.5	60.9	63.0	151.0	117.0	58.3	57.5	60.0	128.0	107.0	55.2	54.3	57.2
			6000	188.0	143.0	63.0	62.1	64.4	162.0	132.0	59.7	58.6	61.3	138.0	119.0	56.6	55.2	58.4
			7000	198.0	157.0	64.3	63.0	65.6	171.0	145.0	60.9	59.5	62.5	146.0	129.0	57.9	56.0	59.4
42	49.0	7.10	5000	273.0	164.0	54.6	54.2	53.1	227.0	149.0	52.4	51.9	51.3	185.0	133.0	50.3	49.8	49.6
			6000	298.0	185.0	56.5	55.9	54.2	249.0	169.0	54.0	53.4	52.2	203.0	151.0	51.7	51.1	50.3
			7000	319.0	204.0	58.1	57.4	55.0	267.0	186.0	55.4	54.7	52.9	218.0	167.0	53.0	52.2	50.9
42	70.0	14.00	5000	293.0	173.0	53.0	52.6	50.4	244.0	156.0	51.1	50.6	49.0	198.0	139.0	49.3	48.8	47.7
			6000	324.0	195.0	55.0	54.4	51.3	270.0	177.0	52.7	52.1	49.7	219.0	158.0	50.6	50.0	48.3
			7000	349.0	215.0	56.6	55.9	52.0	292.0	196.0	54.1	53.4	50.4	238.0	176.0	51.8	51.1	48.8
45	16.8	0.90	5000	163.0	122.0	62.4	61.7	64.5	139.0	112.0	59.2	58.3	61.6	117.0	101.0	56.2	55.1	59.0
			6000	175.0	138.0	63.8	62.7	65.9	150.0	126.0	60.6	59.3	62.9	126.0	112.0	57.7	55.9	60.1
			7000	186.0	151.0	65.0	63.6	67.2	159.0	138.0	61.8	60.0	64.0	121.0	119.0	59.3	57.3	59.4
45	49.0	7.10	5000	249.0	155.0	56.4	55.9	55.2	204.0	139.0	54.2	53.7	53.4	161.0	123.0	52.2	51.7	51.6
			6000	272.0	175.0	58.1	57.5	56.1	224.0	158.0	55.6	55.0	54.1	178.0	140.0	53.4	52.7	52.3
			7000	290.0	192.0	59.6	58.8	56.9	239.0	174.0	57.0	56.2	54.8	193.0	156.0	54.4	53.5	52.9
45	70.0	14.00	5000	267.0	162.0	55.0	54.6	52.7	218.0	145.0	53.1	52.6	51.3	173.0	128.0	51.3	50.8	50.0
			6000	295.0	184.0	56.7	56.1	53.4	242.0	166.0	54.5	53.9	51.9	190.0	145.0	52.6	51.9	50.5
			7000	318.0	203.0	58.2	57.4	54.1	261.0	183.0	55.8	55.0	52.5	207.0	162.0	53.6	52.8	50.9
48	16.8	0.90	5000	151.0	118.0	63.2	62.4	66.1	128.0	107.0	60.2	59.1	63.3	94.0	93.0	57.8	56.7	59.3
			6000	163.0	132.0	64.6	63.3	67.5	138.0	119.0	61.6	59.9	64.5	103.0	101.0	59.4	57.3	60.3
			7000	173.0	145.0	65.8	64.1	68.7	147.0	129.0	62.9	60.6	65.6	109.0	107.0	60.8	57.8	61.1
48	49.0	7.00	5000	224.0	145.0	58.1	57.6	57.2	180.0	130.0	56.0	55.5	55.4	140.0	113.0	54.0	53.4	53.7
			6000	244.0	164.0	59.7	59.0	58.0	196.0	147.0	57.3	56.6	56.0	155.0	130.0	55.0	54.1	54.4
			7000	261.0	182.0	61.0	60.2	58.7	212.0	164.0	58.4	57.5	56.7	169.0	145.0	55.9	54.8	54.9
48	70.0	14.00	5000	241.0	151.0	57.0	56.5	54.9	192.0	135.0	55.1	54.6	53.5	147.0	117.0	53.4	52.8	52.2
			6000	265.0	172.0	58.5	57.9	55.6	213.0	154.0	56.3	55.7	54.1	164.0	134.0	54.3	53.6	52.7
			7000	286.0	191.0	59.8	59.0	56.2	229.0	170.0	57.5	56.7	54.5	179.0	150.0	55.2	54.3	53.1

HB CHILLED WATER COOLING CAPACITIES

HB 80 (4 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	27.5	2.70	7000	239.0	168.0	62.8	61.2	59.4	202.0	154.0	59.6	58.0	56.7	168.0	140.0	56.5	54.9	54.2
			8000	250.0	183.0	63.9	62.1	60.2	212.0	167.0	60.7	58.8	57.4	177.0	151.0	57.5	55.5	54.9
			9000	259.0	195.0	65.0	62.9	60.9	221.0	179.0	61.6	59.4	58.1	185.0	162.0	58.4	56.1	55.5
42	44.0	6.60	7000	284.0	185.0	60.6	59.1	55.0	238.0	170.0	57.6	56.2	52.9	195.0	153.0	54.8	53.4	50.9
			8000	300.0	200.0	61.9	60.1	55.6	252.0	184.0	58.8	57.1	53.5	206.0	165.0	55.9	54.2	51.4
			9000	313.0	214.0	63.0	61.0	56.2	263.0	197.0	59.8	57.9	54.0	216.0	177.0	56.8	54.8	51.9
42	60.5	12.10	7000	309.0	194.0	59.4	57.9	52.2	258.0	177.0	56.6	55.2	50.5	210.0	159.0	54.0	52.6	49.0
			8000	327.0	210.0	60.7	59.0	52.8	273.0	192.0	57.8	56.1	51.1	223.0	173.0	55.0	53.4	49.4
			9000	343.0	225.0	61.9	59.9	53.4	287.0	207.0	58.8	56.9	51.5	235.0	186.0	55.9	54.1	49.8
45	27.5	2.70	7000	219.0	161.0	63.8	62.1	60.9	183.0	147.0	60.6	58.9	58.3	151.0	132.0	57.6	55.7	56.0
			8000	230.0	174.0	64.9	62.9	61.7	193.0	159.0	61.6	59.6	59.1	160.0	143.0	58.5	56.3	56.6
			9000	239.0	187.0	65.8	63.6	62.4	202.0	170.0	62.5	60.1	59.7	168.0	152.0	59.4	56.8	57.2
45	44.0	6.60	7000	259.0	176.0	61.8	60.3	56.8	213.0	160.0	58.9	57.4	54.7	171.0	142.0	56.3	54.7	52.8
			8000	272.0	190.0	63.0	61.2	57.4	225.0	173.0	60.0	58.2	55.3	182.0	155.0	57.1	55.3	53.3
			9000	284.0	205.0	64.0	62.0	57.9	235.0	186.0	60.9	58.9	55.7	192.0	166.0	57.9	55.8	53.8
45	60.5	12.00	7000	281.0	183.0	60.8	59.3	54.3	230.0	166.0	58.1	56.6	52.6	182.0	147.0	55.6	54.1	51.0
			8000	297.0	199.0	62.0	60.2	54.8	244.0	181.0	59.1	57.4	53.1	195.0	160.0	56.5	54.7	51.5
			9000	311.0	214.0	63.0	61.0	55.3	257.0	195.0	60.0	58.1	53.5	206.0	173.0	57.2	55.3	51.8
48	27.5	2.70	7000	199.0	154.0	64.7	63.0	62.5	165.0	139.0	61.6	59.7	60.1	135.0	122.0	58.9	56.6	57.8
			8000	209.0	167.0	65.7	63.7	63.3	175.0	151.0	62.6	60.3	60.7	133.0	131.0	59.8	57.5	57.7
			9000	219.0	179.0	66.6	64.2	64.0	183.0	162.0	63.4	60.8	61.4	141.0	138.0	60.8	57.8	58.3
48	44.0	6.60	7000	232.0	166.0	63.1	61.5	58.6	188.0	149.0	60.3	58.7	56.6	149.0	132.0	57.6	55.8	54.8
			8000	245.0	181.0	64.1	62.3	59.2	199.0	163.0	61.2	59.3	57.1	160.0	144.0	58.4	56.3	55.3
			9000	255.0	194.0	65.1	63.0	59.6	210.0	175.0	62.0	59.9	57.5	169.0	155.0	59.1	56.7	55.7
48	60.5	11.90	7000	252.0	173.0	62.2	60.6	56.3	202.0	155.0	59.5	58.0	54.7	158.0	136.0	57.0	55.4	53.2
			8000	267.0	188.0	63.3	61.5	56.8	214.0	169.0	60.5	58.7	55.1	169.0	149.0	57.8	55.9	53.6
			9000	279.0	203.0	64.2	62.2	57.3	226.0	182.0	61.3	59.3	55.5	179.0	161.0	58.5	56.3	53.9

HB 80 (6 ROW COIL)

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	36.0	6.20	7000	330.0	210.0	57.3	56.8	60.4	278.0	192.0	54.6	54.1	57.5	228.0	173.0	52.2	51.6	54.7
			8000	349.0	228.0	58.7	58.1	61.4	293.0	209.0	55.9	55.2	58.3	244.0	189.0	53.2	52.4	55.6
			9000	365.0	245.0	59.9	59.1	62.3	308.0	225.0	56.9	56.1	59.2	257.0	204.0	54.1	53.1	56.3
42	48.0	10.70	7000	362.0	222.0	55.7	55.2	57.1	304.0	203.0	53.2	52.7	54.7	249.0	182.0	51.0	50.4	52.4
			8000	384.0	242.0	57.1	56.5	58.0	323.0	221.0	54.5	53.9	55.5	265.0	199.0	52.0	51.4	53.1
			9000	404.0	259.0	58.4	57.6	58.8	340.0	238.0	55.6	54.8	56.2	279.0	214.0	53.0	52.2	53.6
42	60.0	16.40	7000	383.0	230.0	54.6	54.1	54.8	320.0	210.0	52.3	51.8	52.7	261.0	188.0	50.2	49.7	50.7
			8000	409.0	251.0	56.0	55.4	55.6	342.0	229.0	53.6	52.9	53.4	280.0	205.0	51.3	50.7	51.3
			9000	431.0	270.0	57.3	56.6	56.4	362.0	247.0	54.7	53.9	54.1	297.0	222.0	52.2	51.5	51.9
45	36.0	6.20	7000	302.0	199.0	58.7	58.2	61.8	250.0	180.0	56.2	55.6	58.9	204.0	162.0	53.6	52.9	56.4
			8000	319.0	217.0	60.0	59.3	62.7	266.0	197.0	57.2	56.5	59.8	219.0	177.0	54.5	53.6	57.2
			9000	334.0	233.0	61.1	60.2	63.6	281.0	213.0	58.1	57.2	60.6	232.0	192.0	55.3	54.2	57.9
45	48.0	10.70	7000	330.0	210.0	57.3	56.8	59.8	272.0	190.0	54.9	54.4	56.4	218.0	168.0	52.8	52.2	54.1
			8000	350.0	229.0	58.6	58.0	59.6	290.0	208.0	56.0	55.4	57.1	234.0	185.0	53.6	52.9	54.8
			9000	368.0	247.0	59.7	59.0	60.3	304.0	223.0	57.1	56.3	57.7	248.0	201.0	54.4	53.5	55.4
45	60.0	16.30	7000	349.0	217.0	56.4	55.9	56.6	287.0	195.0	54.2	53.6	54.6	229.0	173.0	52.1	51.6	52.6
			8000	372.0	236.0	57.7	57.1	57.4	307.0	215.0	55.2	54.6	55.2	244.0	190.0	53.1	52.4	53.2
			9000	393.0	255.0	58.8	58.1	58.1	324.0	232.0	56.2	55.5	55.8	260.0	206.0	53.9	53.0	53.7
48	36.0	6.20	7000	272.0	188.0	60.2	59.7	63.1	224.0	170.0	57.5	56.9	60.5	181.0	151.0	55.0	54.2	58.1
			8000	289.0	205.0	61.3	60.6	64.1	240.0	186.0	58.5	57.6	61.3	195.0	165.0	55.9	54.7	58.8
			9000	304.0	222.0	62.2	61.3	64.9	254.0	202.0	59.3	58.2	62.1	208.0	179.0	56.6	55.2	59.6
48	48.0	10.60	7000	297.0	197.0	59.0	58.5	60.4	239.0	176.0	56.7	56.1	58.0	190.0	156.0	54.4	53.7	55.9
			8000	315.0	216.0	60.1	59.5	61.2	257.0	194.0	57.6	56.9	58.7	205.0	171.0	55.2	54.2	56.6
			9000	331.0	232.0	61.2	60.3	61.8	272.0	210.0	58.4	57.5	59.4	219.0	187.0	55.8	54.7	57.2
48	60.0	16.20	7000	314.0	204.0	58.1	57.6	58.5	253.0	182.0	56.0	55.4	56.4	197.0	159.0	54.0	53.3	54.6
			8000	335.0	223.0	59.3	58.6	59.2	269.0	199.0	57.0	56.3	57.0	212.0	176.0	54.7	53.9	55.1
			9000	353.0	241.0	60.3	59.5	59.8	286.0	216.0	57.8	57.0	57.5	227.0	191.0	55.4	54.4	55.6

HB HOT WATER HEATING CAPACITIES

HBB-04 (1 ROW)

EWT (F)	GPM	PD (FT)		CFM								
				300			400			500		
				AIR ENTERING TEMPERATURE EDB (F)								
40	50	60	40	50	60	40	50	60				
160	1.0	0.4	TC	13.01	11.98	10.94	14.73	13.56	12.38	16.15	14.87	13.58
			LDB	79.9	86.6	93.2	73.8	81.1	88.2	69.7	77.2	84.8
	1.9	1.5	TC	14.58	13.42	12.26	16.81	15.47	14.13	18.72	17.23	15.74
			LDB	84.7	91.0	97.2	78.6	85.4	92.2	74.4	81.6	88.7
	2.9	3.3	TC	15.30	14.09	12.87	17.78	16.37	14.95	19.96	18.37	16.77
			LDB	86.9	93.0	99.1	80.9	87.5	94.1	76.7	83.6	90.6
3.8	5.4	TC	15.66	14.42	13.17	18.28	16.82	15.36	20.58	18.94	17.29	
		LDB	88.0	94.0	100.0	82.0	88.5	95.0	77.8	84.7	91.5	
180	1.0	0.4	TC	15.31	14.28	13.24	17.34	16.17	14.99	19.03	17.75	16.46
			LDB	86.9	93.6	100.2	79.8	87.0	94.2	75.0	82.5	90.0
	1.9	1.5	TC	17.12	15.97	14.81	19.75	18.41	17.07	22.01	20.52	19.02
			LDB	92.5	98.7	105.0	85.4	92.2	98.9	80.4	87.6	94.7
	2.9	3.3	TC	17.95	16.74	15.53	20.87	19.46	18.04	23.42	21.84	20.25
			LDB	95.0	101.1	107.2	88.0	94.6	101.1	83.1	90.0	96.9
3.8	5.4	TC	18.36	17.12	15.88	21.43	19.98	18.52	24.13	22.50	20.86	
		LDB	96.3	102.3	108.2	89.2	95.8	102.2	84.4	91.2	98.0	

HBB-04 (2 ROW)

EWT (F)	GPM	PD (FT)		CFM								
				300			400			500		
				AIR ENTERING TEMPERATURE EDB (F)								
40	50	60	40	50	60	40	50	60				
160	1.5	0.7	TC	21.55	19.83	18.10	24.95	22.96	20.96	27.74	25.53	23.31
			LDB	106.0	110.5	115.0	97.3	102.6	107.8	91.0	96.8	102.5
	3.1	2.6	TC	23.98	22.06	20.13	28.44	26.16	23.88	32.28	29.70	27.11
			LDB	113.5	117.3	121.2	105.3	109.9	114.4	98.3	104.4	109.4
	4.8	5.8	TC	24.89	22.89	20.90	29.80	27.41	25.02	34.11	31.38	28.64
			LDB	116.3	119.9	123.5	108.5	112.8	117.0	102.7	107.5	112.2
6.4	10.0	TC	25.34	23.31	21.28	30.47	28.03	25.58	35.02	32.21	29.40	
		LDB	117.6	121.2	124.7	110.0	114.2	118.3	104.4	109.0	113.6	
180	1.5	0.7	TC	25.34	23.61	21.89	29.35	27.35	25.35	32.64	30.43	28.21
			LDB	117.6	122.1	126.5	107.4	112.6	117.8	100.0	105.7	111.4
	3.1	2.6	TC	28.13	26.22	24.30	33.38	31.11	28.83	37.91	35.33	32.74
			LDB	126.2	130.0	133.8	118.7	121.2	125.7	109.7	114.7	119.7
	4.8	5.8	TC	28.16	27.19	25.20	34.84	32.57	30.18	40.02	37.29	34.56
			LDB	129.4	133.0	136.6	120.3	124.6	128.8	113.6	118.3	123.0
6.4	10.0	TC	29.89	27.67	25.85	35.72	33.28	30.84	41.05	38.25	35.45	
		LDB	131.0	134.5	137.9	122.1	126.2	130.3	115.6	120.1	124.6	

HBB-04 (4 ROW)

EWT (F)	GPM	PD (FT)		CFM								
				300			400			500		
				AIR ENTERING TEMPERATURE EDB (F)								
40	50	60	40	50	60	40	50	60				
160	1.5	1.5	TC	30.08	27.67	25.28	35.78	32.91	30.04	40.31	37.09	33.86
			LDB	132.2	134.5	136.7	122.2	125.4	128.4	114.1	117.9	121.7
	2.4	3.2	TC	32.13	29.54	26.98	39.20	36.05	32.90	45.19	41.56	37.93
			LDB	138.4	140.2	141.9	130.1	132.5	135.0	123.1	126.1	129.1
	3.3	5.8	TC	33.04	30.38	27.73	40.80	37.51	34.24	47.56	43.73	39.91
			LDB	141.2	142.8	144.3	133.8	135.9	138.0	127.4	130.1	132.7
4.2	9.4	TC	33.56	30.86	28.17	41.72	38.36	35.01	48.94	45.00	41.07	
		LDB	142.8	144.2	145.6	135.9	137.8	139.8	130.0	132.4	134.9	
180	1.5	1.5	TC	35.28	32.87	30.46	41.98	39.11	36.25	47.32	44.09	40.87
			LDB	148.1	150.3	152.5	136.5	139.6	142.6	127.0	130.8	134.5
	2.4	3.2	TC	37.64	35.06	32.49	45.96	42.91	39.67	53.00	49.38	45.75
			LDB	155.3	157.0	158.7	145.8	148.0	150.4	137.4	140.4	143.4
	3.3	5.8	TC	38.89	36.04	33.40	47.81	44.53	41.26	55.75	51.93	48.12
			LDB	158.5	160.0	161.5	149.9	152.0	154.0	142.5	145.1	147.7
4.2	9.4	TC	39.29	36.59	33.91	48.87	45.52	42.18	57.35	53.42	49.50	
		LDB	160.4	161.7	163.0	152.3	154.2	156.1	145.4	147.9	150.2	

HB HOT WATER HEATING CAPACITIES

HBB-04 (6 ROW)

EWT (F)	GPM	PD (FT)		CFM								
				300			400			500		
				AIR ENTERING TEMPERATURE EDB (F)								
40	50	60	40	50	60	40	50	60				
100	1.8	1.7	TC	34.66	31.89	29.11	42.59	39.17	35.75	49.00	45.07	41.14
			LDB	146.3	147.4	148.5	137.9	139.7	141.5	130.1	132.6	135.0
	3.5	4.5	TC	36.55	33.61	30.88	48.39	42.85	38.93	55.13	50.69	46.26
			LDB	152.0	152.6	153.2	146.6	147.7	148.7	141.3	142.9	144.3
	5.1	9.2	TC	37.07	34.09	31.13	47.52	43.69	39.88	57.04	52.45	47.87
			LDB	153.6	154.1	154.6	149.2	150.0	150.9	144.9	146.1	147.3
6.8	16.3	TC	37.34	34.33	31.35	48.10	44.23	40.37	58.05	53.37	48.72	
		LDB	154.4	154.8	155.2	150.5	151.3	152.0	146.7	147.8	148.8	
180	1.8	1.7	TC	40.82	37.84	35.07	49.92	46.50	43.09	57.48	53.55	49.63
			LDB	164.4	165.5	166.5	154.7	156.5	158.2	145.6	148.1	150.5
	3.5	4.5	TC	42.75	39.82	36.91	54.30	50.58	46.87	64.58	60.15	55.74
			LDB	171.0	171.6	172.1	164.8	165.8	166.8	159.7	160.2	161.6
	5.1	9.2	TC	43.24	40.37	37.43	55.59	51.76	47.99	66.77	62.19	57.64
			LDB	172.8	173.2	173.7	167.7	168.6	169.4	162.7	163.9	165.1
6.8	16.3	TC	43.84	40.65	37.69	56.25	52.39	48.56	67.92	63.26	58.63	
		LDB	173.7	174.1	174.5	169.2	170.0	170.7	164.9	165.9	166.9	

HBB-06 (1 ROW)

EWT (F)	GPM	PD (FT)		CFM								
				450			600			750		
				AIR ENTERING TEMPERATURE EDB (F)								
40	50	60	40	50	60	40	50	60				
100	1.0	0.5	TC	16.31	15.02	13.71	18.30	16.85	15.39	19.84	18.28	16.70
			LDB	73.3	80.6	87.8	68.0	75.7	83.4	64.3	72.3	80.3
	2.4	2.5	TC	19.44	17.90	16.34	22.41	20.63	18.83	24.85	22.87	20.88
			LDB	79.7	86.4	93.1	74.3	81.5	88.6	70.4	77.9	85.4
	3.7	5.6	TC	20.44	18.81	17.19	23.76	21.89	19.98	26.55	24.43	22.31
			LDB	81.8	88.3	94.8	76.4	83.4	90.3	72.5	79.8	87.1
5.1	10.1	TC	21.01	19.34	17.66	24.54	22.59	20.62	27.51	25.32	23.12	
		LDB	82.9	89.4	95.8	77.6	84.5	91.3	73.7	80.9	88.1	
180	1.0	0.5	TC	19.20	17.90	16.60	21.55	20.10	18.64	23.39	21.82	20.23
			LDB	79.2	86.4	93.6	73.0	80.7	88.3	68.7	76.6	84.6
	2.4	2.5	TC	22.82	21.28	19.73	26.32	24.54	22.75	29.19	27.22	25.23
			LDB	88.6	93.3	100.0	80.3	87.5	94.6	75.8	83.2	90.7
	3.7	5.6	TC	23.97	22.35	20.73	27.89	26.00	24.10	31.15	29.04	26.92
			LDB	89.0	95.5	102.0	82.7	89.7	96.6	78.2	85.5	92.7
5.1	10.1	TC	24.62	22.85	21.28	28.76	26.82	24.86	32.28	30.08	27.88	
		LDB	90.3	96.7	103.1	84.1	90.9	97.6	79.5	86.7	93.9	

HBB-06 (2 ROW)

EWT (F)	GPM	PD (FT)		CFM								
				450			600			750		
				AIR ENTERING TEMPERATURE EDB (F)								
40	50	60	40	50	60	40	50	60				
100	1.7	0.9	TC	28.46	26.21	23.93	32.65	30.06	27.46	35.93	33.08	30.21
			LDB	98.2	103.3	108.5	90.0	95.9	101.7	84.0	90.4	96.7
	4.0	4.5	TC	32.79	30.16	27.53	36.75	33.85	32.54	43.71	40.22	36.71
			LDB	107.0	111.4	115.8	99.4	104.4	109.4	93.6	99.1	104.6
	6.4	10.8	TC	34.19	31.45	28.70	40.81	37.55	34.28	46.44	42.72	39.00
			LDB	109.9	114.0	118.2	102.5	107.3	112.1	96.9	102.2	107.4
8.7	19.0	TC	34.87	32.07	29.27	41.81	38.46	35.10	47.76	43.93	40.10	
		LDB	111.2	115.3	119.3	104.0	108.7	113.3	98.5	103.7	108.7	
180	1.7	0.9	TC	33.48	31.20	28.92	38.42	35.82	33.20	42.28	39.43	36.55
			LDB	108.4	113.5	118.6	98.9	104.7	110.4	91.8	98.1	104.4
	4.0	4.5	TC	38.46	35.84	33.21	45.46	42.38	39.28	51.32	47.83	44.33
			LDB	118.6	122.9	127.3	109.7	114.7	119.7	102.9	108.4	113.9
	6.4	10.8	TC	40.06	37.34	34.61	47.85	44.60	41.33	54.47	50.76	47.04
			LDB	121.9	126.0	130.1	113.3	118.1	122.8	106.7	112.0	117.2
8.7	19.0	TC	40.85	38.06	35.27	48.99	45.85	42.31	55.98	52.16	48.34	
		LDB	123.4	127.5	131.4	115.1	119.7	124.3	108.6	113.7	118.8	

HB HOT WATER HEATING CAPACITIES

HBB-06 (4 ROW)

EWT (F)	GPM	PD (FT)		CFM								
				450			600			750		
				AIR ENTERING TEMPERATURE EDB (F)								
				40	50	60	40	50	60	40	50	60
180	1.9	1.3	TC	40.97	37.68	34.40	47.94	44.11	40.27	53.25	49.01	44.75
			LDB	123.7	126.7	129.7	113.4	117.3	121.2	105.3	109.9	114.4
	3.3	3.0	TC	45.04	41.41	37.79	54.38	50.01	45.64	62.04	57.06	52.08
			LDB	132.0	134.3	136.5	123.3	126.3	129.3	116.0	119.7	123.3
	4.6	5.7	TC	46.64	42.88	39.13	57.05	52.46	47.87	65.84	60.55	55.26
			LDB	135.3	137.3	139.3	127.4	130.1	132.7	120.7	123.9	127.1
6.0	9.8	TC	47.60	43.77	39.95	58.68	53.96	49.24	69.20	62.71	57.23	
		LDB	137.2	139.1	140.9	129.9	132.4	134.8	123.6	126.6	129.6	
180	1.9	1.3	TC	48.09	44.81	41.52	56.30	52.47	48.63	62.57	58.32	54.07
			LDB	138.2	141.2	144.1	126.2	130.1	133.9	116.7	121.2	125.7
	3.3	3.0	TC	52.80	49.18	45.57	63.80	59.43	55.07	72.83	67.85	62.87
			LDB	147.8	150.1	152.3	137.7	140.7	143.7	129.2	132.9	136.4
	4.6	5.7	TC	54.65	50.90	47.17	66.89	62.31	57.73	77.24	71.95	66.67
			LDB	151.6	153.6	155.6	142.5	145.1	147.7	134.7	137.9	141.0
6.0	9.8	TC	55.75	51.93	48.12	68.77	64.05	59.35	79.97	74.49	69.02	
		LDB	153.9	156.7	157.5	146.3	147.8	150.2	138.0	141.0	143.9	

HBB-06 (6 ROW)

EWT (F)	GPM	PD (FT)		CFM								
				450			600			750		
				AIR ENTERING TEMPERATURE EDB (F)								
				40	50	60	40	50	60	40	50	60
180	2.0	1.9	TC	48.14	44.27	40.41	57.55	52.94	48.32	64.67	60.51	54.33
			LDB	138.3	140.1	141.8	128.2	130.8	133.4	119.2	122.7	126.0
	3.7	5.5	TC	52.13	47.94	43.75	64.89	59.68	54.45	75.63	69.55	63.47
			LDB	146.5	147.5	148.6	138.4	141.1	142.7	132.7	134.9	137.1
	5.3	10.9	TC	53.40	49.10	44.82	67.37	61.94	56.53	79.59	73.18	66.78
			LDB	149.1	149.9	150.8	143.2	144.6	145.9	137.5	139.4	141.2
7.0	18.7	TC	54.06	49.71	45.38	68.71	63.17	57.66	81.77	75.18	68.61	
		LDB	150.4	151.2	151.9	145.3	146.4	147.6	140.2	141.8	143.4	
180	2.0	1.9	TC	56.42	52.55	48.70	67.48	62.67	58.27	75.54	70.68	65.51
			LDB	155.2	157.0	158.6	143.4	146.0	148.5	132.9	136.3	139.6
	3.7	5.5	TC	61.02	56.83	52.67	76.01	70.79	65.60	88.65	82.57	76.51
			LDB	164.6	165.7	166.7	156.4	158.1	159.7	148.6	150.8	153.0
	5.3	10.9	TC	62.46	58.18	53.92	78.87	73.46	68.07	93.22	86.83	80.45
			LDB	167.5	169.4	169.2	160.8	162.1	163.4	154.2	156.0	157.8
7.0	18.7	TC	63.22	58.88	54.56	80.40	74.69	69.40	95.74	89.16	82.62	
		LDB	169.1	169.9	170.6	163.2	164.3	166.4	157.3	158.9	160.4	



HB HOT WATER HEATING CAPACITIES

1 ROW COILS

08 HBH-1						12 HBH-1						16 HBH-1						20 HBH-1					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
2.0	4.40	600	20.6	91.9	158.8	2.0	5.30	900	30.0	90.9	149.2	2.0	1.20	1200	40.0	91.0	139.0	2.0	1.30	1500	47.5	89.4	131.4
		800	23.2	86.9	156.2			1200	33.6	85.9	145.6			1600	44.5	85.7	134.6			2000	52.5	84.3	126.6
		1000	25.4	83.5	154.1			1500	36.4	82.5	142.8			2000	47.5	82.1	131.3			2500	56.0	80.8	122.9
3.0	9.90	600	21.8	93.7	165.1	3.0	11.60	900	32.2	93.2	158.0	4.0	4.50	1200	47.0	96.2	156.0	4.0	5.00	1500	57.0	95.2	150.9
		800	24.8	88.7	163.1			1200	36.4	88.1	155.1			1600	53.0	90.7	152.9			2000	64.0	89.7	147.2
		1000	27.2	85.1	161.4			1500	39.5	84.6	152.8			2000	58.0	86.8	150.4			2500	70.0	85.9	144.2
4.0	17.60	600	22.4	94.7	168.4	4.0	20.40	900	33.4	94.4	162.8	6.0	9.80	1200	49.5	98.3	163.0	6.0	10.80	1500	61.0	97.5	159.2
		800	25.6	89.6	166.8			1200	38.0	89.3	160.5			1600	56.5	92.7	160.7			2000	69.0	92.0	156.4
		1000	28.2	86.1	165.5			1500	41.5	85.7	158.6			2000	62.0	88.8	158.7			2500	76.0	88.2	154.1

2 ROW COILS

08 HBH-2						12 HBH-2						16 HBH-2						20 HBH-2					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
2.0	1.30	600	32.2	109.7	147.0	3.0	1.10	900	49.0	110.3	146.6	4.0	0.80	1200	66.0	111.4	145.9	6.0	0.70	1500	86.0	112.9	150.7
		800	36.4	102.1	142.8			1200	55.0	102.6	142.4			1600	75.0	103.5	141.6			2000	97.0	105.0	146.8
		1000	39.5	96.6	139.6			1500	60.0	97.1	139.0			2000	82.0	97.9	138.2			2500	106.0	99.4	143.7
4.0	5.20	600	36.2	116.0	161.4	6.0	4.10	900	55.0	116.8	161.1	8.0	3.00	1200	75.0	118.4	160.6	12.0	2.70	1500	96.0	119.4	163.5
		800	41.5	108.4	158.6			1200	63.5	109.1	158.3			1600	87.0	110.6	157.6			2000	111.0	111.6	160.9
		1000	46.0	102.8	156.3			1500	70.0	103.5	155.9			2000	97.0	104.9	155.2			2500	124.0	105.9	158.8
6.0	11.70	600	37.5	118.4	167.0	9.0	9.00	900	57.5	119.3	166.9	12.0	6.70	1200	79.0	121.2	166.4	18.0	6.00	1500	100.0	121.9	168.6
		800	44.0	110.9	165.0			1200	67.0	111.7	164.7			1600	92.0	113.5	164.2			2000	117.0	114.2	166.6
		1000	49.0	105.4	163.2			1500	75.0	106.2	162.9			2000	103.0	107.8	162.3			2500	131.0	108.6	165.1

30 HBH-2						40 HBH-2						60 HBH-2						80 HBH-2					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
9.0	1.20	2250	132.0	114.3	150.0	11.0	1.50	3000	173.0	113.3	147.9	14.0	2.00	5000	267.0	109.4	141.0	12.8	0.90	7000	328.0	103.3	127.9
		3000	150.0	106.3	145.9			4000	196.0	105.3	143.6			6000	288.0	104.4	138.0			8000	343.0	99.7	125.4
		3750	164.0	100.6	142.7			5000	214.0	99.6	140.2			7000	306.0	100.4	135.4			9000	357.0	96.7	123.2
18.0	4.60	2250	147.0	120.5	163.2	22.0	5.60	3000	194.0	119.8	161.9	28.0	7.60	5000	306.0	116.6	157.6	22.4	2.60	7000	384.0	110.7	145.0
		3000	171.0	112.8	160.5			4000	225.5	112.0	159.1			6000	335.0	111.7	155.5			8000	408.5	107.1	142.8
		3750	190.0	107.0	158.3			5000	250.0	106.3	156.7			7000	361.0	107.6	153.7			9000	429.0	104.0	141.0
27.0	10.20	2250	153.0	122.9	168.4	33.0	12.40	3000	202.0	122.3	167.4	42.0	16.70	5000	321.0	119.4	164.3	40.00	7.80	7000	425.0	116.1	158.3
		3000	179.0	115.3	166.4			4000	236.0	114.6	165.3			6000	354.0	114.5	162.7			8000	455.0	112.5	156.8
		3750	201.0	109.6	164.7			5000	265.0	108.9	163.6			7000	383.0	110.5	161.3			9000	481.0	109.4	155.4

HOT WATER HEATING CORRECTION FACTORS

ENTERING AIR TEMP (F)	ENTERING WATER TEMP (F)									
	100	110	120	130	140	150	160	170	180	
50	.419	.500	.579	.665	.742	.838	.917	1.000	1.090	
55	.376	.460	.544	.629	.708	.791	.873	.963	1.048	
60	.335	.419	.500	.579	.665	.742	.838	.917	1.000	
65	.290	.376	.460	.544	.629	.708	.791	.873	.963	
70	.251	.335	.419	.500	.579	.665	.742	.838	.917	
75	.205	.290	.376	.460	.544	.629	.708	.791	.873	
80	.167	.251	.335	.419	.500	.579	.665	.742	.838	

When correction factors are used for various entering and air and entering water temperatures, multiply the correction factor times the above listed capacity. The correction factors may be used with all Magic Aire published 180° E.W.T. heating capacities.



HB HOT WATER HEATING CAPACITIES

4 ROW COILS

HBB 08						HBB 12					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
2.4	0.90	600	50.0	136.9	137.6	3.2	1.00	900	73.0	135.9	132.9
		800	57.0	126.2	131.3			1200	84.0	125.0	126.3
		1000	63.0	118.2	126.6			1500	92.0	116.8	121.4
6.0	5.10	600	57.0	147.9	160.5	8.0	5.90	900	85.0	148.0	158.1
		800	68.0	138.6	156.8			1200	102.0	138.6	153.9
		1000	77.0	131.2	153.8			1500	115.0	131.1	150.6
9.0	11.20	600	58.5	150.5	166.6	12.0	12.90	900	88.0	150.9	164.9
		800	70.0	141.7	163.9			1200	106.0	142.0	161.8
		1000	80.0	134.6	161.6			1500	121.0	134.8	159.3
HBB 16						HBB 20					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
4.0	1.00	1200	97.0	134.7	130.6	5.2	0.80	1500	121.0	135.0	132.3
		1600	110.0	123.8	123.9			2000	139.0	124.2	125.7
		2000	120.0	115.6	118.9			2500	151.0	116.0	120.8
10.0	5.60	1200	113.0	147.3	156.8	13.0	4.60	1500	142.0	147.4	157.7
		1600	134.0	137.9	152.5			2000	169.0	138.0	153.5
		2000	152.0	130.3	148.9			2500	190.0	130.5	150.0
15.0	12.30	1200	117.0	150.3	164.0	19.5	9.90	1500	146.0	150.4	164.6
		1600	141.0	141.4	160.8			2000	176.0	141.5	161.5
		2000	160.0	134.2	158.1			2500	201.0	134.3	158.9
HBB 30						HBB 40					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
8.0	1.30	2250	192.0	138.9	131.1	9.6	1.20	3000	248.0	136.5	127.4
		3000	221.0	128.2	123.7			4000	284.0	125.7	119.8
		3750	243.0	120.0	118.2			5000	311.0	117.5	114.2
18.0	6.00	2250	220.0	150.4	155.0	19.2	4.40	3000	284.0	147.5	149.7
		3000	264.0	141.5	149.9			4000	339.0	138.2	144.0
		3750	301.0	134.3	145.8			5000	383.0	130.7	139.3
25.0	11.30	2250	226.0	153.1	161.4	30.0	10.30	3000	298.0	151.7	159.7
		3000	275.0	144.8	157.5			4000	360.0	143.3	155.4
		3750	316.0	137.9	154.1			5000	413.0	136.3	151.9
HBA 60						HBA 80					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
14.4	1.40	5000	412.0	136.1	121.8	26.4	2.20	7000	574.0	135.7	135.7
		6000	447.0	128.8	117.0			8000	615.0	131.0	132.6
		7000	475.0	122.7	113.0			9000	651.0	126.9	129.8
28.8	5.10	5000	483.0	149.2	145.8	44.0	5.60	7000	628.0	142.8	150.9
		6000	539.0	143.0	141.8			8000	680.0	138.5	148.4
		7000	588.0	137.5	138.4			9000	728.0	134.7	146.2
45.0	12.00	5000	510.0	154.2	156.8	55.0	8.60	7000	644.0	145.0	156.1
		6000	576.0	148.6	153.9			8000	701.0	140.9	154.0
		7000	634.0	143.7	151.2			9000	753.0	137.2	152.1

CAPACITIES BASED ON 60° EAT AND 180° EWT.

Units not recommended for heating applications when the leaving air exceeds 130°.



HB STEAM HEATING CAPACITIES

Heating Capacity - High Capacity Steam Coils

HBB

Size	SCFM		Entering Air Temp - EDB (F)								
			-20	-10	0	10	20	30	40	50	60
08	600	TC	82.90	79.50	76.20	72.80	69.50	66.10	62.80	59.40	56.10
		LDB	106.8	111.7	116.6	121.4	126.3	131.2	136.1	140.9	145.8
	800	TC	97.10	93.20	89.20	85.30	81.40	77.50	73.50	69.60	65.70
		LDB	91.4	96.9	102.4	107.9	113.4	118.9	124.4	129.9	135.4
	1000	TC	108.80	104.40	100.00	95.60	91.20	86.80	82.40	78.00	73.60
		LDB	79.9	85.8	91.8	97.8	103.7	109.7	115.7	121.6	127.6
12	900	TC	125.30	120.20	115.10	110.10	105.00	99.90	94.90	89.80	84.80
		LDB	107.8	112.6	117.5	122.3	127.1	132.0	136.8	141.6	146.5
	1200	TC	146.90	140.90	135.00	129.10	123.10	117.20	111.30	105.30	99.40
		LDB	92.4	97.9	103.3	108.8	114.2	119.7	125.1	130.6	136.0
	1500	TC	164.70	158.00	151.40	144.70	138.00	131.40	124.70	118.10	111.40
		LDB	80.8	86.7	92.7	98.6	104.5	110.4	116.4	122.3	128.2
16	1200	TC	166.20	159.50	152.80	146.00	139.30	132.60	125.90	119.20	112.50
		LDB	107.2	112.0	116.9	121.8	126.6	131.5	136.3	141.2	146.1
	1600	TC	194.80	186.90	179.00	171.20	163.30	155.40	147.50	139.70	131.80
		LDB	91.8	97.3	102.7	108.2	113.7	119.2	124.7	130.2	135.6
	2000	TC	218.30	209.50	200.60	191.80	183.00	174.20	165.40	156.50	147.70
		LDB	80.2	86.2	92.1	98.1	104.0	110.0	115.9	121.9	127.8
20	1500	TC	207.10	198.80	190.40	182.00	173.70	165.30	156.90	148.50	140.20
		LDB	106.8	111.7	116.6	121.4	126.3	131.2	136.1	140.9	145.8
	2000	TC	242.70	232.90	223.10	213.20	203.40	193.60	183.80	174.00	164.20
		LDB	91.4	96.9	102.4	107.9	113.4	118.9	124.4	129.9	135.4
	112	TC	271.90	260.90	249.90	238.90	227.90	217.00	206.00	195.00	184.00
		LDB	79.9	85.8	91.8	97.8	103.7	109.7	115.7	121.6	127.6
30	2250	TC	315.30	302.60	289.80	277.10	264.30	251.60	238.80	226.10	213.30
		LDB	108.7	113.5	118.3	123.1	127.9	132.7	137.5	142.3	147.1
	3000	TC	370.00	355.00	340.10	325.10	310.20	295.20	280.30	265.30	250.30
		LDB	93.3	98.7	104.1	109.5	114.9	120.4	125.8	131.2	136.6
	3750	TC	415.00	398.30	381.50	364.70	347.90	331.20	314.40	297.60	280.80
		LDB	81.6	87.5	93.4	99.3	105.2	111.1	117.0	122.9	128.8
40	3000	TC	439.00	421.30	403.60	385.80	368.10	350.30	332.60	314.80	297.10
		LDB	114.4	119.0	123.5	128.1	132.7	137.2	141.8	146.4	150.9
	4000	TC	517.70	496.80	475.80	454.90	434.00	413.10	392.10	371.20	350.30
		LDB	98.8	104.0	109.2	114.4	119.6	124.8	130.0	135.2	140.4
	5000	TC	582.90	559.40	535.80	512.20	488.70	465.10	441.60	418.00	394.40
		LDB	87.1	92.7	98.4	104.1	109.7	115.4	121.1	126.8	132.4
60	5000	TC	693.40	665.40	637.40	609.40	581.30	553.30	525.30	497.30	469.20
		LDB	107.4	112.2	117.1	121.9	126.8	131.6	136.5	141.3	146.2
	6000	TC	765.60	735.10	706.00	674.90	643.90	612.80	581.80	550.70	519.70
		LDB	97.2	102.5	108.0	113.3	118.5	123.8	129.0	134.3	139.5
	7000	TC	827.60	796.30	764.00	730.90	699.10	665.40	631.70	598.00	564.20
		LDB	88.6	94.5	100.2	105.9	111.7	117.3	122.9	128.4	134.0
80	7000	TC	932.10	895.60	860.50	822.60	784.80	747.00	709.10	671.30	633.50
		LDB	102.3	107.5	112.9	117.9	123.0	128.0	133.0	138.1	143.1
	8000	TC	998.00	960.90	922.60	883.00	844.70	804.00	763.30	722.50	681.80
		LDB	94.6	100.3	105.9	111.4	117.0	122.3	127.6	132.9	138.3
	9000	TC	1054.00	1017.00	978.40	938.20	896.50	855.80	812.50	769.10	725.80
		LDB	87.5	93.8	99.8	105.7	111.5	117.3	122.9	128.5	134.1

NOTES:

1. Steam coil rating based on 5 psig steam pressure.
 2. Reference steam capacity multiplier table for other steam pressures.
 3. Maximum discharge temperature is 104F for standard motors.
- Bold Italic*** type is for reference only.

LEGEND

- EDB - Entering Dry-Bulb (F)
- LDB - Leaving Dry-Bulb (F)
- TC - Total Capacity (MBH)



HB STEAM HEATING CAPACITIES

Heating Capacity - Standard Capacity Steam Coils

HBB

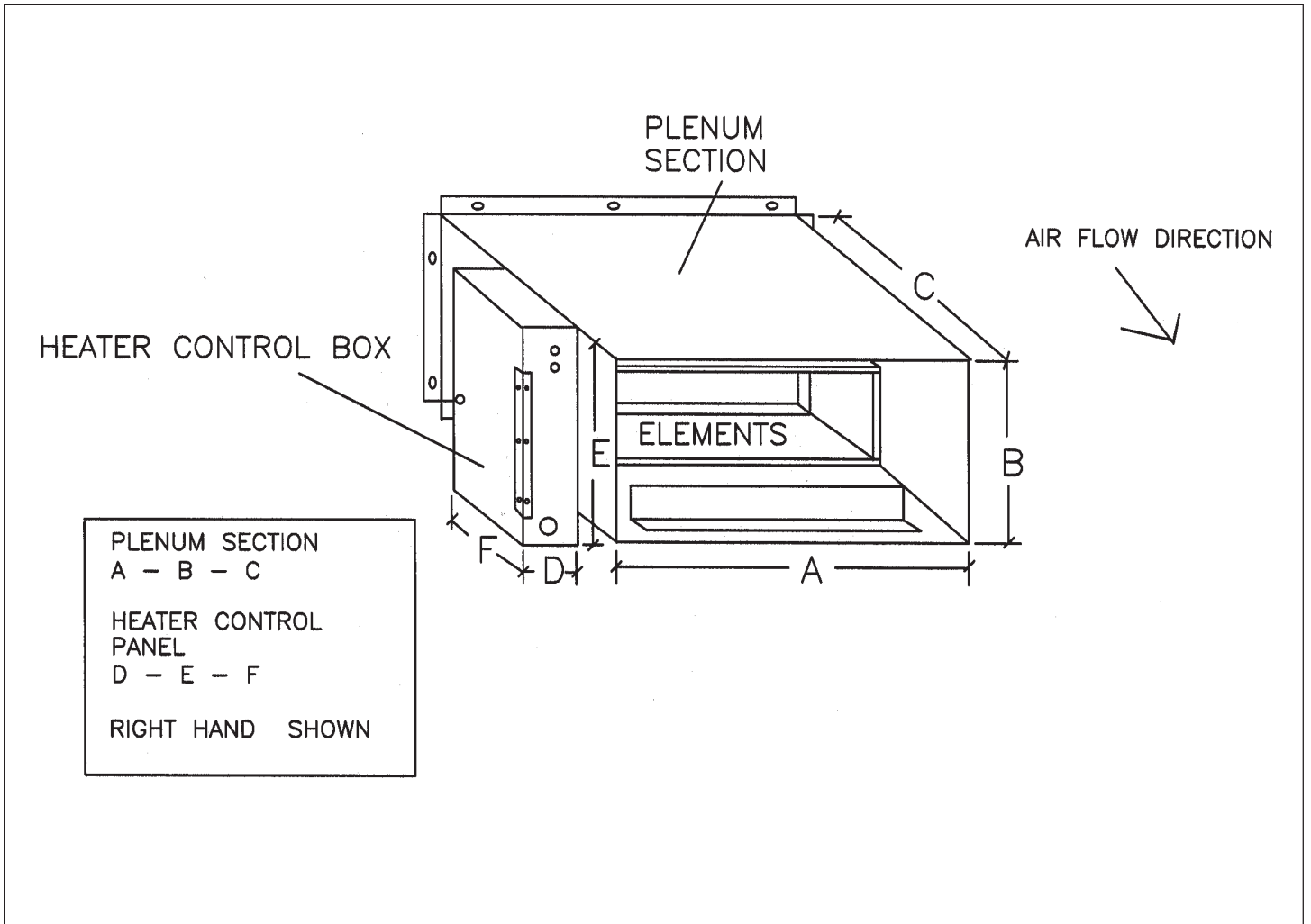
Size	SCFM		Entering Air Temp - EDB (F)								
			-20	-10	0	10	20	30	40	50	60
04	300	TC	32.30	31.00	29.70	28.40	27.10				
		LDB	78.8	84.9	90.9	96.9	102.9				
	400	TC	38.10	36.60	35.00	33.50	31.90	30.40	28.90		
		LDB	67.4	73.9	80.4	86.9	93.3	99.8	106.3		
	500	TC	43.00	41.30	39.60	37.80	36.10	34.30	32.60		
		LDB	59.0	65.8	72.6	79.4	86.2	93.1	99.9		
06	450	TC	41.70	40.00	38.30	36.60	34.90	33.20	31.60	29.90	
		LDB	65.0	71.6	78.2	84.7	91.3	97.8	104.4	111.0	
	600	TC	48.60	46.60	44.60	42.70	40.70	38.80	36.80	34.80	
		LDB	54.3	61.3	68.3	75.3	82.3	89.3	96.3	103.3	
	750	TC	54.30	52.10	49.90	47.70	45.50	43.30	41.20	39.00	
		LDB	46.5	53.8	61.1	68.5	75.8	83.1	90.4	97.7	
08	600	TC	44.60	42.80	41.00	39.20	37.40	35.60	33.80	32.00	30.20
		LDB	48.3	55.5	62.8	70.0	77.3	84.5	91.7	99.0	106.2
	800	TC	52.30	50.20	48.10	46.00	43.90	41.80	39.60	37.50	35.40
		LDB	40.1	47.6	55.2	62.8	70.4	77.9	85.5	93.1	100.6
	1000	TC	58.90	56.50	54.10	51.70	49.30	47.00	44.60	42.20	39.80
		LDB	34.0	41.9	49.7	57.5	65.3	73.1	80.9	88.8	96.6
12	900	TC	67.50	64.70	62.00	59.30	56.60	53.80	51.10	48.40	45.70
		LDB	48.8	56.1	63.3	70.5	77.7	84.9	92.1	99.4	106.6
	1200	TC	79.20	76.00	72.80	69.60	66.40	63.20	60.00	56.80	53.60
		LDB	40.6	48.1	55.7	63.2	70.8	78.3	85.9	93.4	101.0
	1500	TC	89.10	85.50	81.90	78.30	74.70	71.10	67.50	63.90	60.30
		LDB	34.5	42.3	50.1	57.9	65.7	73.5	81.3	89.1	96.9
16	1200	TC	89.50	85.90	82.30	78.70	75.04	71.40	67.80	64.20	60.60
		LDB	48.5	55.7	63.0	70.2	77.4	84.7	91.9	99.1	106.3
	1600	TC	105.00	100.70	96.50	92.30	88.00	83.80	79.50	75.30	71.00
		LDB	40.3	47.8	55.4	63.0	70.5	78.1	85.6	93.2	100.8
	2000	TC	118.10	113.30	108.50	103.80	99.00	94.20	89.50	84.70	79.90
		LDB	34.2	42.0	49.8	57.7	65.5	73.3	81.1	88.9	96.7
20	1500	TC	111.60	107.00	102.50	98.00	93.50	89.00	84.50	80.00	75.50
		LDB	48.3	55.5	62.8	70.0	77.3	84.5	91.7	99.0	106.2
	2000	TC	130.80	125.50	120.20	114.90	109.70	104.40	99.10	93.80	88.50
		LDB	40.1	47.6	55.2	62.8	70.4	77.9	85.5	93.1	100.6
	2500	TC	147.10	141.20	135.20	129.30	123.30	117.40	111.40	105.50	99.60
		LDB	34.0	41.9	49.7	57.5	65.3	73.1	80.9	88.8	96.6
30	2250	TC	169.80	163.00	156.10	149.20	142.40	135.50	128.70	121.80	114.90
		LDB	49.3	56.5	63.7	70.9	78.1	85.3	92.5	99.7	106.9
	3000	TC	199.40	191.30	183.20	175.20	167.10	159.10	151.00	143.00	134.90
		LDB	41.0	48.6	56.1	63.6	71.2	78.7	86.2	93.8	101.3
	3750	TC	224.40	215.30	206.30	197.20	188.10	179.10	170.00	160.90	151.80
		LDB	35.0	42.7	50.5	58.3	66.1	73.9	81.6	89.4	97.2
40	3000	TC	236.80	227.20	217.60	208.00	198.50	188.90	179.30	169.80	160.20
		LDB	52.5	59.5	66.6	73.7	80.8	87.8	94.9	102.0	109.0
	4000	TC	278.80	267.50	256.20	245.00	233.70	222.40	211.20	199.90	188.60
		LDB	44.0	51.4	58.8	66.2	73.7	81.1	88.5	95.9	103.3
	5000	TC	314.60	301.80	289.10	276.40	263.70	251.00	238.30	225.60	212.90
		LDB	37.8	45.4	53.1	60.8	68.4	76.1	83.8	91.4	99.1
60	5000	TC	373.50	358.40	343.30	328.20	313.10	298.00	282.90	267.80	252.70
		LDB	48.6	55.8	63.1	70.3	77.5	84.7	92.0	99.2	106.4
	6000	TC	413.60	396.90	380.20	363.50	346.70	330.00	313.30	296.60	279.90
		LDB	43.3	50.7	58.2	65.6	73.1	80.5	88.0	95.4	102.8
	7000	TC	449.70	431.50	413.30	395.20	377.00	358.80	340.60	322.50	304.30
		LDB	39.0	46.6	54.2	61.8	69.5	77.1	84.7	92.3	99.9
80	7000	TC	504.10	483.70	463.30	442.90	422.60	402.20	381.80	361.40	341.10
		LDB	46.1	53.5	60.8	68.1	75.4	82.8	90.1	97.4	104.7
	8000	TC	542.70	520.80	498.90	476.90	455.00	433.10	411.10	389.20	367.30
		LDB	42.3	49.8	57.3	64.7	72.2	79.7	87.2	94.7	102.2
	9000	TC	578.40	555.00	531.70	508.30	484.90	461.50	438.20	414.80	391.40
		LDB	39.0	46.6	54.3	61.9	69.5	77.1	84.7	92.3	99.9

NOTES:

1. Steam coil rating based on 5 psig steam pressure.
 2. Reference steam capacity multiplier table for other steam pressures.
 3. Maximum discharge temperature is 104F for standard motors.
- Shaded areas are for reference only.

LEGEND

- EDB - Entering Dry-Bulb (F)
- LDB - Leaving Dry-Bulb (F)
- TC - Total Capacity (MBH)





FACTORY MOUNTED ELECTRIC HEAT

HBB Factory Installed EH List

Unit Size	Rated Volts	KW	Disc	No. Stages	A	B	C	D	E	F
			Size AMPS							
04	240-1	1-4	40	1	8.6	10.6	14	5.5	14	11.5
04	277-1	1-4	40	1	8.6	10.6	16	5.5	14	14
04	240-3	1-4	40	2	8.6	10.6	14	5.5	14	11.5
04	480-3	2-4	40	2	8.6	10.6	16	5.5	14	14
06	240-1	1-6	40	1	8.6	10.6	14	5.5	14	11.5
06	277-1	1-4	40	1	8.6	10.6	16	5.5	14	14
06	277-1	5-6	40	2	8.6	10.6	16	5.5	14	14
06	240-3	1-6	40	2	8.6	10.6	14	5.5	14	11.5
06	480-3	2-6	40	2	8.6	10.6	16	5.5	14	14
08	240-1	5-7	40	1	8.6	10.6	14	5.5	17	11.5
08	240-1	7-10	80	2	8.6	10.6	14	5.5	17	11.5
08	277-1	5	40	1	8.6	10.6	14	5.5	17	11.5
08	277-1	6-10	40	2	8.6	10.6	14	5.5	17	11.5
08	240-3	5-10	40	2	8.6	10.6	14	5.5	17	11.5
08	480-3	5-8	40	2	8.6	10.6	14	5.5	17	11.5
08	480-3	9-10	40	2	8.6	10.6	16	5.5	17	14
12	240-1	5-7	40	1	8.6	10.6	14	5.5	17	11.5
12	240-1	7-10	80	2	8.6	10.6	14	5.5	17	11.5
12	277-1	5	40	1	8.6	10.6	14	5.5	17	11.5
12	277-1	6-8	40	2	8.6	10.6	14	5.5	17	11.5
12	277-1	8-10	80	2	8.6	10.6	14	5.5	17	11.5
12	240-3	5-10	40	2	8.6	10.6	14	5.5	17	11.5
12	480-3	5-8	40	2	8.6	10.6	14	5.5	17	11.5
12	480-3	9-10	40	2	8.6	10.6	16	5.5	17	14
16	240-1	5-7	40	1	9.3	13.9	14	5.5	17	11.5
16	240-1	7-15	80	2	9.3	13.9	14	5.5	17	11.5
16	240-1	15-17	100	2	9.3	13.9	14	5.5	17	11.5
16	277-1	5	40	1	9.3	13.9	14	5.5	17	11.5
16	277-1	8-11	80	2	9.3	13.9	14	5.5	17	11.5
16	240-3	9-13	40	2	9.3	13.9	14	5.5	17	11.5
18	240-3	13-17	80	2	9.3	13.9	14	5.5	17	11.5
16	480-3	5-17	40	2	9.3	13.9	14	5.5	21	11.5
20	240-1	10-11	80	2	12.6	13.9	14	5.5	17	11.5
20	240-1	12-15	80	2	12.6	13.9	14	5.5	21	11.5
20	240-1	15-19	80	2	12.6	13.9	14	5.5	21	11.5
20	240-1	19	125	2	12.6	13.9	16	5.5	21	14
20	277-1	10-11	80	2	12.6	13.9	14	5.5	21	11.5
20	240-3	10-13	40	2	12.6	13.9	14	5.5	21	11.5
20	240-3	13-19	80	2	12.6	13.9	14	5.5	21	11.5
20	480-3	10-19	40	2	12.6	13.9	14	5.5	21	11.5
30	240-1	12-15	80	2	13.4	16.2	14	5.5	23	11.5
30	240-1	15-19	100	2	13.4	16.2	14	5.5	23	11.5
30	240-1	19-21	125	2	13.4	16.2	16	5.5	23	14
30	240-3	12	40	2	13.4	16.2	14	5.5	23	11.5
30	240-3	12-18	80	2	13.4	16.2	14	5.5	23	11.5
30	240-3	19-20	80	2	13.4	16.2	16	5.5	23	14
30	240-3	21	80	2	13.4	16.2	14	5.5	23	11.5
30	480-3	10-21	40	2	13.4	16.2	14	5.5	23	11.5
40	240-1	17-18	100	2	13.4	16.2	14	5.5	23	11.5
40	240-1	19-21	125	2	13.4	16.2	16	5.5	23	14
40	240-3	17-18	80	2	13.4	16.2	14	5.5	23	11.5
40	240-3	19-21	80	2	13.4	16.2	16	5.5	23	14
40	480-3	10-21	40	2	13.4	16.2	14	5.5	23	11.5



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

To assist with the selection of cooling coils on this and the following pages, please use these formulas:

I. SHC is based on 80 F EDB of air entering coil. Use the following formulas to correct SHC based on other EDB.

$$\text{Correction Factor} = 1.10 \times (1 - \text{BF}) \times (\text{EDB} - 80)$$

$$\text{SHC (New)} = (\text{Correction Factor} \times \text{CFM}/1000) + \text{SHC (MBH)} \text{ (from Tables above)}$$

$$\text{LDB} = \text{EDB} - \text{SHC (MBH)}/1.10/\text{CFM} \times 1000$$

LEGEND

- BF** - Bypass Factor
- EDB** - Entering Dry-Bulb (F)
- EWB** - Entering Wet-Bulb (F)
- LDB** - Leaving Dry-Bulb (F)
- LWB** - Leaving Wet-Bulb (F)
- PD** - Refrig Pressure Drop (psi)
- SCT** - Saturated Cond Temp (F)
- SET** - Saturated Evap Temp (F)
- SHC** - Sensible Capacity (MBH)
- TC** - Total Capacity

HBB 04 Cooling Capacity – Standard Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			300			400			500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	11.45	14.83	18.58	13.52	17.40	21.69	15.22	19.41	24.07
		SHC	9.92	9.38	8.75	12.17	11.30	10.30	14.17	12.95	11.57
		LDB	49.9	51.6	53.6	52.2	54.3	56.7	54.1	56.5	59.1
		LWB	48.1	50.5	53.0	49.9	52.7	55.8	51.2	54.5	57.9
		PD	2.60	4.28	6.51	3.66	5.92	8.88	4.63	7.36	10.91
	BF	0.11	0.12	0.00	0.15	0.16	0.25	0.18	0.18	0.24	
	45	TC	9.15	12.46	16.21	11.03	14.64	18.96	12.74	16.36	21.09
		SHC	8.83	8.35	7.77	10.92	10.14	9.22	12.74	11.70	10.44
		LDB	53.20	54.75	56.60	55.12	56.98	59.15	56.75	58.74	61.12
		LWB	51.20	53.49	55.89	52.32	55.27	58.17	53.11	56.64	59.89
		PD	1.51	2.77	4.55	2.19	3.85	6.26	2.92	4.82	7.75
	BF	0.12	0.12	0.17	0.17	0.15	0.19	0.21	0.18	0.21	
	50	TC	7.50	9.81	13.56	9.34	11.53	15.89	10.91	12.90	17.70
		SHC	7.50	7.28	6.74	9.34	8.91	8.08	10.91	10.36	9.20
		LDB	57.2	58.0	59.7	58.7	59.8	61.8	60.1	61.2	63.4
LWB		53.3	56.7	58.9	53.9	58.0	60.7	54.5	59.0	62.1	
PD		0.94	1.59	2.93	1.44	2.21	4.06	1.95	2.77	5.05	
BF	0.23	0.11	0.14	0.28	0.15	0.17	0.33	0.18	0.20		
95	40	TC	11.42	14.77	18.48	13.46	17.29	21.52	15.14	19.25	23.83
		SHC	9.91	9.35	8.70	12.15	11.25	10.23	14.14	12.88	11.48
		LDB	49.9	51.7	53.8	52.3	54.4	56.9	54.2	56.6	59.2
		LWB	48.2	50.5	53.1	49.9	52.8	56.0	51.3	54.6	58.1
		PD	2.91	4.75	7.22	4.06	6.54	9.77	5.12	8.10	11.93
	BF	0.11	0.12	0.00	0.15	0.16	0.24	0.18	0.18	0.24	
	45	TC	9.16	12.43	16.15	11.02	14.59	18.85	12.73	16.27	20.93
		SHC	8.84	8.34	7.75	10.91	10.12	9.19	12.73	11.67	10.38
		LDB	53.18	54.78	56.67	55.13	57.02	59.24	56.78	58.81	61.23
		LWB	51.18	53.52	55.96	52.33	55.32	58.26	53.12	56.70	60.00
		PD	1.70	3.09	5.07	2.45	4.28	6.92	3.26	5.33	8.53
	BF	0.12	0.12	0.17	0.17	0.15	0.19	0.22	0.18	0.21	
	50	TC	7.57	9.82	13.55	9.35	11.52	15.83	10.92	12.88	17.60
		SHC	7.57	7.28	6.74	9.35	8.91	8.06	10.92	10.35	9.17
		LDB	57.0	58.0	59.7	58.7	59.8	61.8	60.1	61.2	63.4
LWB		53.2	56.7	58.9	53.9	58.0	60.7	54.5	59.0	62.1	
PD		1.05	1.78	3.28	1.60	2.46	4.50	2.19	3.08	5.59	
BF	0.22	0.11	0.14	0.28	0.15	0.17	0.33	0.18	0.20		
105	40	TC	11.38	14.70	18.35	13.39	17.16	21.32	15.02	19.07	23.53
		SHC	9.89	9.32	8.65	12.12	11.20	10.15	14.09	12.81	11.36
		LDB	49.9	51.8	53.9	52.4	54.6	57.0	54.3	56.7	59.4
		LWB	48.2	50.6	53.3	50.0	53.0	56.1	51.4	54.7	58.3
		PD	3.26	5.30	8.01	4.52	7.23	10.76	5.67	8.92	13.04
	BF	0.11	0.12	0.00	0.15	0.15	0.23	0.18	0.18	0.23	
	45	TC	9.16	12.40	16.08	11.00	14.52	18.72	12.70	16.17	20.74
		SHC	8.83	8.33	7.72	10.90	10.09	9.13	12.70	11.63	10.31
		LDB	53.19	54.82	56.75	55.15	57.09	59.36	56.83	58.88	61.35
		LWB	51.19	53.56	56.05	52.35	55.39	58.37	53.14	56.78	60.12
		PD	1.91	3.45	5.65	2.74	4.75	7.67	3.66	5.91	9.40
	BF	0.12	0.12	0.17	0.17	0.15	0.19	0.22	0.18	0.21	
	50	TC	7.59	9.82	13.51	9.36	11.50	15.76	10.91	12.84	17.49
		SHC	7.59	7.28	6.72	9.36	8.90	8.03	10.91	10.33	9.14
		LDB	57.0	58.0	59.8	58.7	59.8	61.9	60.1	61.2	63.5
LWB		53.2	56.7	59.0	53.9	58.0	60.8	54.5	59.0	62.2	
PD		1.19	1.99	3.67	1.81	2.76	5.01	2.46	3.45	6.19	
BF	0.22	0.11	0.14	0.28	0.15	0.17	0.33	0.18	0.20		



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 06 Cooling Capacity – Standard Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			450			600			750		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	14.67	19.58	25.52	17.46	23.10	29.98	20.00	25.94	33.53
		SHC	13.63	12.88	12.14	16.82	15.65	14.44	19.72	18.07	16.37
		LDB	52.4	54.0	55.6	54.4	56.3	58.2	56.0	58.1	60.3
		LWB	50.4	52.7	54.9	51.7	54.6	57.3	52.7	56.0	59.1
		PD	1.07	1.92	3.25	1.54	2.72	4.56	2.04	3.48	5.76
		BF	0.12	0.12	0.19	0.16	0.16	0.20	0.20	0.19	0.22
	45	TC	11.80	15.56	21.31	14.56	18.34	25.03	16.97	20.60	28.01
		SHC	11.80	11.21	10.47	14.56	13.72	12.54	16.97	15.93	14.31
		LDB	56.07	57.36	58.95	57.89	59.25	61.12	59.38	60.74	62.78
		LWB	52.83	55.99	58.17	53.58	57.40	60.06	54.19	58.46	61.46
		PD	0.61	1.07	2.01	0.94	1.53	2.82	1.30	1.94	3.58
		BF	0.19	0.12	0.15	0.25	0.16	0.18	0.30	0.19	0.21
	50	TC	9.73	11.21	16.67	12.01	13.21	19.50	14.02	14.88	21.80
		SHC	9.73	9.51	8.76	12.01	11.72	10.56	14.02	13.71	12.13
		LDB	60.3	60.8	62.4	61.8	62.3	64.1	63.0	63.4	65.4
		LWB	54.6	59.3	61.5	55.2	60.3	63.0	55.6	61.0	64.0
		PD	0.37	0.50	1.10	0.57	0.70	1.52	0.79	0.90	1.93
		BF	0.33	0.12	0.13	0.38	0.16	0.17	0.42	0.20	0.20
95	40	TC	14.87	19.78	25.68	17.70	23.31	30.13	20.19	26.15	33.65
		SHC	13.72	12.96	12.21	16.93	15.74	14.50	19.84	18.15	16.42
		LDB	52.2	53.8	55.4	54.3	56.2	58.1	55.9	58.0	60.2
		LWB	50.2	52.5	54.8	51.6	54.5	57.2	52.6	55.9	59.0
		PD	1.25	2.21	3.71	1.79	3.13	5.19	2.35	3.98	6.54
		BF	0.12	0.12	0.19	0.16	0.16	0.20	0.20	0.19	0.22
	45	TC	11.93	15.81	21.54	14.71	18.63	25.27	17.15	20.90	28.24
		SHC	11.93	11.31	10.56	14.71	13.83	12.63	17.15	16.04	14.39
		LDB	55.81	57.16	58.77	57.65	59.08	60.98	59.17	60.60	62.67
		LWB	52.72	55.79	58.00	53.48	57.23	59.92	54.11	58.32	61.36
		PD	0.70	1.26	2.32	1.09	1.78	3.26	1.50	2.26	4.12
		BF	0.18	0.12	0.15	0.24	0.16	0.18	0.30	0.19	0.21
	50	TC	9.88	11.51	16.95	12.19	13.54	19.81	14.21	15.25	22.15
		SHC	9.88	9.62	8.86	12.19	11.85	10.66	14.21	13.85	12.25
		LDB	60.0	60.6	62.2	61.5	62.1	64.0	62.7	63.3	65.3
		LWB	54.4	59.1	61.3	55.0	60.1	62.8	55.5	60.8	63.9
		PD	0.43	0.60	1.27	0.67	0.83	1.77	0.91	1.06	2.25
		BF	0.32	0.12	0.13	0.37	0.16	0.17	0.42	0.20	0.20
105	40	TC	15.07	19.94	25.80	17.91	23.48	30.22	20.38	26.31	33.69
		SHC	13.81	13.03	12.26	17.03	15.81	14.54	19.92	18.22	16.44
		LDB	52.0	53.7	55.3	54.1	56.1	58.1	55.8	58.0	60.2
		LWB	50.0	52.4	54.7	51.4	54.4	57.2	52.5	55.8	59.0
		PD	1.45	2.55	4.26	2.08	3.60	5.91	2.72	4.57	7.40
		BF	0.12	0.12	0.20	0.16	0.16	0.20	0.20	0.19	0.22
	45	TC	12.05	16.03	21.74	14.85	18.88	25.46	17.30	21.16	28.42
		SHC	12.05	11.40	10.63	14.85	13.93	12.70	17.30	16.14	14.46
		LDB	55.56	56.98	58.61	57.44	58.94	60.87	58.99	60.48	62.60
		LWB	52.61	55.61	57.84	53.39	57.09	59.82	54.03	58.20	61.28
		PD	0.80	1.46	2.69	1.25	2.06	3.75	1.73	2.63	4.71
		BF	0.18	0.12	0.15	0.24	0.16	0.18	0.29	0.19	0.21
	50	TC	10.03	11.77	17.20	12.35	13.86	20.12	14.39	15.55	22.46
		SHC	10.03	9.72	8.95	12.35	11.96	10.77	14.39	13.96	12.35
		LDB	59.7	60.4	62.0	61.2	61.9	63.8	62.5	63.1	65.1
		LWB	54.3	58.9	61.2	54.9	59.9	62.6	55.5	60.7	63.7
		PD	0.50	0.70	1.49	0.77	0.98	2.07	1.07	1.26	2.61
		BF	0.31	0.12	0.13	0.37	0.16	0.17	0.41	0.20	0.20



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 08 Cooling Capacity – Standard Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			600			800			1000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	19.88	25.94	32.82	23.35	30.16	38.02	26.21	33.49	42.07
		SHC	17.84	16.75	15.53	21.72	20.04	18.21	25.10	22.87	20.43
		LDB	52.9	54.6	56.6	55.2	57.2	59.4	57.1	59.2	61.5
		LWB	50.2	52.8	55.6	51.7	54.9	58.1	52.8	56.4	59.9
		PD	1.42	2.37	3.70	1.95	3.21	4.98	2.45	3.97	6.10
	BF	0.17	0.18	0.00	0.21	0.22	0.28	0.25	0.25	0.29	
	45	TC	15.92	21.34	28.09	19.28	24.77	32.53	22.26	27.50	36.00
		SHC	15.79	14.81	13.65	19.28	17.83	16.10	22.26	20.46	18.16
		LDB	56.00	57.58	59.43	58.02	59.77	61.81	59.70	61.43	63.59
		LWB	52.71	55.64	58.36	53.63	57.26	60.39	54.32	58.44	61.86
		PD	0.83	1.47	2.49	1.20	1.99	3.35	1.60	2.46	4.11
	BF	0.19	0.17	0.21	0.26	0.21	0.24	0.31	0.25	0.27	
	50	TC	13.37	16.42	22.98	16.32	19.04	26.56	18.85	21.16	29.39
		SHC	13.37	12.84	11.72	16.32	15.58	13.92	18.85	17.99	15.79
		LDB	59.7	60.6	62.3	61.4	62.3	64.3	62.8	63.7	65.7
LWB		54.3	58.5	61.1	55.0	59.7	62.7	55.6	60.5	63.9	
PD		0.55	0.82	1.55	0.80	1.10	2.07	1.07	1.35	2.52	
BF	0.31	0.17	0.19	0.37	0.22	0.23	0.42	0.25	0.26		
95	40	TC	19.88	25.91	32.75	23.34	30.10	37.91	26.18	33.40	41.89
		SHC	17.84	16.74	15.51	21.72	20.02	18.16	25.09	22.83	20.36
		LDB	52.9	54.6	56.6	55.2	57.3	59.5	57.1	59.3	61.6
		LWB	50.1	52.8	55.7	51.7	54.9	58.2	52.8	56.4	60.0
		PD	1.57	2.63	4.11	2.16	3.55	5.51	2.71	4.39	6.72
	BF	0.17	0.18	0.00	0.21	0.22	0.27	0.25	0.25	0.29	
	45	TC	15.98	21.35	28.08	19.31	24.77	32.49	22.28	27.48	35.92
		SHC	15.83	14.82	13.64	19.31	17.83	16.09	22.28	20.45	18.13
		LDB	55.94	57.57	59.43	57.99	59.76	61.82	59.69	61.44	63.62
		LWB	52.68	55.64	58.37	53.62	57.26	60.41	54.31	58.44	61.89
		PD	0.92	1.64	2.76	1.34	2.21	3.71	1.78	2.72	4.55
	BF	0.19	0.17	0.21	0.26	0.21	0.24	0.31	0.25	0.27	
	50	TC	13.44	16.48	23.00	16.37	19.09	26.57	18.90	21.24	29.38
		SHC	13.44	12.87	11.73	16.37	15.60	13.92	18.90	18.03	15.79
		LDB	59.6	60.5	62.3	61.3	62.3	64.3	62.8	63.6	65.7
LWB		54.3	58.5	61.1	55.0	59.6	62.7	55.6	60.5	63.9	
PD		0.60	0.91	1.72	0.89	1.22	2.29	1.18	1.50	2.80	
BF	0.31	0.17	0.19	0.37	0.22	0.23	0.42	0.25	0.26		
105	40	TC	19.88	25.87	32.66	23.31	30.01	37.75	26.13	33.26	41.66
		SHC	17.84	16.72	15.47	21.71	19.98	18.10	25.07	22.78	20.27
		LDB	52.9	54.7	56.7	55.3	57.3	59.5	57.1	59.3	61.7
		LWB	50.1	52.9	55.7	51.7	54.9	58.2	52.9	56.5	60.1
		PD	1.76	2.93	4.57	2.41	3.95	6.11	3.03	4.86	7.43
	BF	0.17	0.18	0.00	0.21	0.22	0.27	0.25	0.25	0.29	
	45	TC	16.00	21.35	28.03	19.32	24.75	32.39	22.28	27.45	35.78
		SHC	15.84	14.82	13.63	19.32	17.82	16.05	22.28	20.44	18.08
		LDB	55.92	57.57	59.46	57.98	59.77	61.86	59.69	61.45	63.66
		LWB	52.67	55.64	58.40	53.62	57.27	60.44	54.31	58.45	61.93
		PD	1.03	1.83	3.08	1.49	2.46	4.12	1.99	3.04	5.03
	BF	0.19	0.17	0.21	0.26	0.21	0.24	0.31	0.25	0.27	
	50	TC	13.48	16.52	23.01	16.40	19.14	26.55	18.93	21.27	29.34
		SHC	13.48	12.89	11.74	16.40	15.62	13.92	18.93	18.05	15.78
		LDB	59.5	60.5	62.3	61.3	62.3	64.3	62.7	63.6	65.8
LWB		54.3	58.4	61.1	55.0	59.6	62.7	55.5	60.5	63.9	
PD		0.68	1.01	1.91	0.99	1.36	2.55	1.32	1.68	3.11	
BF	0.31	0.17	0.19	0.37	0.22	0.23	0.42	0.25	0.26		



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 12 Cooling Capacity – Standard Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			900			1200			1500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	29.97	39.05	49.22	35.23	45.53	57.21	39.59	50.69	63.45
		SHC	26.84	25.19	23.32	32.67	30.20	27.41	37.87	34.52	30.80
		LDB	52.7	54.5	56.5	55.1	57.1	59.3	56.9	59.1	61.4
		LWB	50.1	52.7	55.6	51.6	54.8	58.0	52.7	56.3	59.8
		PD	1.37	2.27	3.51	1.88	3.07	4.72	2.35	3.80	5.78
		BF	0.16	0.17	0.00	0.21	0.21	0.27	0.25	0.25	0.29
	45	TC	23.97	32.20	42.09	29.02	37.48	48.93	33.54	41.67	54.29
		SHC	23.73	22.30	20.46	29.02	26.89	24.21	33.54	30.88	27.36
		LDB	55.91	57.45	59.40	57.91	59.61	61.73	59.57	61.28	63.49
		LWB	52.66	55.55	58.35	53.59	57.15	60.33	54.27	58.33	61.79
		PD	0.81	1.43	2.37	1.16	1.93	3.19	1.54	2.37	3.92
		BF	0.19	0.17	0.20	0.25	0.21	0.24	0.31	0.25	0.27
	50	TC	19.96	24.76	34.53	24.50	28.78	40.09	28.37	32.01	44.50
		SHC	19.96	19.32	17.60	24.50	23.46	20.97	28.37	27.12	23.84
		LDB	59.7	60.5	62.3	61.4	62.2	64.2	62.7	63.6	65.6
		LWB	54.3	58.4	61.1	55.0	59.6	62.7	55.5	60.5	63.8
		PD	0.54	0.81	1.49	0.78	1.07	1.99	1.03	1.32	2.44
		BF	0.32	0.17	0.19	0.37	0.21	0.23	0.42	0.25	0.26
95	40	TC	29.99	39.03	49.18	35.23	45.47	57.07	39.56	50.57	63.23
		SHC	26.85	25.19	23.30	32.67	30.18	27.35	37.86	34.48	30.71
		LDB	52.7	54.5	56.5	55.1	57.1	59.3	56.9	59.1	61.5
		LWB	50.0	52.7	55.6	51.6	54.8	58.1	52.8	56.3	59.9
		PD	1.52	2.51	3.89	2.07	3.39	5.21	2.61	4.19	6.37
		BF	0.16	0.17	0.30	0.21	0.21	0.27	0.25	0.25	0.29
	45	TC	24.04	32.24	42.13	29.07	37.50	48.90	33.58	41.67	54.21
		SHC	23.80	22.32	20.48	29.07	26.90	24.20	33.58	30.89	27.33
		LDB	55.84	57.43	59.38	57.87	59.61	61.73	59.55	61.27	63.50
		LWB	52.63	55.53	58.34	53.57	57.14	60.34	54.26	58.33	61.80
		PD	0.90	1.58	2.62	1.29	2.14	3.52	1.71	2.62	4.32
		BF	0.19	0.17	0.20	0.25	0.21	0.24	0.31	0.25	0.27
	50	TC	20.17	24.88	34.60	24.62	28.88	40.14	28.47	32.11	44.50
		SHC	20.17	19.38	17.63	24.62	23.51	20.99	28.47	27.17	23.85
		LDB	59.5	60.4	62.3	61.3	62.2	64.2	62.7	63.5	65.6
		LWB	54.3	58.4	61.1	55.0	59.6	62.6	55.5	60.4	63.8
		PD	0.59	0.89	1.65	0.86	1.18	2.20	1.14	1.45	2.70
		BF	0.31	0.17	0.19	0.37	0.21	0.23	0.41	0.25	0.26
105	40	TC	30.00	38.99	49.09	35.20	45.36	56.88	39.51	50.40	62.93
		SHC	26.86	25.17	23.26	32.66	30.13	27.28	37.84	34.41	30.60
		LDB	52.7	54.5	56.6	55.1	57.1	59.4	56.9	59.1	61.5
		LWB	50.0	52.8	55.6	51.6	54.8	58.1	52.8	56.3	59.9
		PD	1.69	2.79	4.31	2.32	3.78	5.77	2.90	4.64	7.03
		BF	0.16	0.17	0.30	0.21	0.21	0.27	0.25	0.25	0.29
	45	TC	24.08	32.26	42.12	29.09	37.49	48.82	33.59	41.63	54.06
		SHC	23.83	22.33	20.48	29.09	26.90	24.18	33.59	30.87	27.29
		LDB	55.81	57.43	59.38	57.85	59.61	61.75	59.54	61.28	63.53
		LWB	52.61	55.52	58.34	53.57	57.15	60.36	54.26	58.34	61.84
		PD	1.00	1.76	2.93	1.44	2.38	3.92	1.91	2.92	4.79
		BF	0.19	0.17	0.20	0.25	0.21	0.24	0.31	0.25	0.27
	50	TC	20.24	24.93	34.64	24.69	28.93	40.14	28.52	32.20	44.48
		SHC	20.24	19.40	17.65	24.69	23.53	20.99	28.52	27.21	23.84
		LDB	59.5	60.4	62.2	61.2	62.2	64.2	62.6	63.5	65.6
		LWB	54.2	58.4	61.1	54.9	59.6	62.6	55.5	60.4	63.8
		PD	0.66	0.98	1.84	0.96	1.32	2.45	1.27	1.63	2.99
		BF	0.31	0.17	0.19	0.37	0.21	0.23	0.41	0.25	0.26



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

Cooling Capacity – Standard Capacity DX Coils

HBB 16

SCT (F)	SET (F)		CFM @ 80 F EDB								
			1200			1600			2000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	39.32	50.83	63.64	45.77	58.52	72.87	51.11	64.44	79.84
		SHC	35.60	33.09	30.25	43.17	39.41	35.18	49.94	44.81	39.23
		LDB	52.9	54.9	57.2	55.4	57.6	60.1	57.2	59.6	62.2
		LWB	50.3	53.2	56.2	51.9	55.3	58.8	53.1	56.8	60.6
		PD	2.87	4.66	7.05	3.85	6.15	9.17	4.77	7.40	10.90
	BF	0.16	0.17	0.26	0.21	0.21	0.26	0.24	0.25	0.28	
	45	TC	31.95	42.41	55.07	38.55	48.89	63.23	44.32	53.91	69.44
		SHC	31.73	29.57	26.88	38.55	35.50	31.55	44.32	40.63	35.43
		LDB	55.89	57.62	59.74	58.01	59.85	62.17	59.77	61.54	63.98
		LWB	52.68	55.73	58.68	53.63	57.39	60.75	54.35	58.61	62.26
		PD	1.74	3.01	4.91	2.50	3.98	6.42	3.29	4.82	7.70
	BF	0.19	0.17	0.20	0.26	0.21	0.23	0.32	0.24	0.26	
	50	TC	27.01	33.07	45.69	32.85	38.15	52.53	37.84	42.16	57.83
		SHC	27.01	25.87	23.38	32.85	31.32	27.67	37.84	36.11	31.32
		LDB	59.5	60.4	62.4	61.3	62.2	64.4	62.7	63.6	65.8
LWB		54.2	58.4	61.2	55.0	59.7	62.8	55.5	60.5	64.0	
PD		1.16	1.72	3.15	1.69	2.27	4.13	2.22	2.77	4.99	
BF	0.31	0.17	0.19	0.37	0.21	0.23	0.42	0.25	0.26		
95	40	TC	39.23	50.62	63.32	45.61	58.17	72.33	50.89	63.97	79.11
		SHC	35.57	33.01	30.12	43.11	39.27	34.97	49.85	44.63	38.96
		LDB	53.0	55.0	57.3	55.4	57.7	60.2	57.2	59.7	62.4
		LWB	50.3	53.2	56.3	52.0	55.4	58.9	53.1	56.9	60.7
		PD	3.18	5.14	7.76	4.26	6.75	10.01	5.26	8.10	11.88
	BF	0.16	0.17	0.26	0.21	0.21	0.26	0.24	0.24	0.28	
	45	TC	31.97	42.33	54.92	38.53	48.72	62.91	44.27	53.65	68.96
		SHC	31.75	29.54	26.83	38.53	35.43	31.43	44.27	40.53	35.27
		LDB	55.88	57.64	59.79	58.02	59.88	62.23	59.79	61.59	64.05
		LWB	52.68	55.75	58.72	53.64	57.43	60.82	54.36	58.66	62.33
		PD	1.92	3.33	5.41	2.78	4.39	7.06	3.64	5.31	8.42
	BF	0.19	0.17	0.20	0.26	0.21	0.23	0.32	0.24	0.26	
	50	TC	27.09	33.11	45.59	32.89	38.13	52.36	37.87	42.10	57.58
		SHC	27.09	25.89	23.35	32.89	31.31	27.62	37.87	36.10	31.24
		LDB	59.4	60.4	62.4	61.2	62.2	64.4	62.7	63.6	65.9
LWB		54.2	58.4	61.3	54.9	59.7	62.9	55.5	60.6	64.1	
PD		1.29	1.90	3.47	1.87	2.52	4.56	2.46	3.06	5.49	
BF	0.30	0.17	0.19	0.37	0.21	0.23	0.42	0.25	0.26		
105	40	TC	39.11	50.36	62.91	45.38	57.75	71.69	50.62	63.39	78.27
		SHC	35.52	32.90	29.95	43.01	39.10	34.72	49.72	44.40	38.65
		LDB	53.0	55.1	57.4	55.5	57.8	60.4	57.3	59.8	62.5
		LWB	50.4	53.3	56.4	52.0	55.4	59.0	53.2	57.0	60.9
		PD	3.53	5.69	8.55	4.71	7.42	10.98	5.81	8.88	12.95
	BF	0.16	0.17	0.25	0.21	0.21	0.26	0.24	0.24	0.28	
	45	TC	31.95	42.21	54.70	38.49	48.49	62.50	44.16	53.32	68.39
		SHC	31.75	29.50	26.74	38.49	35.35	31.28	44.16	40.41	35.07
		LDB	55.88	57.68	59.85	58.05	59.93	62.32	59.84	61.64	64.14
		LWB	52.68	55.79	58.78	53.65	57.48	60.90	54.38	58.71	62.42
		PD	2.15	3.70	5.99	3.10	4.86	7.76	4.06	5.85	9.23
	BF	0.19	0.17	0.20	0.26	0.21	0.23	0.32	0.24	0.26	
	50	TC	27.13	33.10	45.48	32.91	38.07	52.14	37.84	41.98	57.24
		SHC	27.13	25.89	23.31	32.91	31.30	27.55	37.84	36.06	31.14
		LDB	59.4	60.4	62.4	61.2	62.2	64.4	62.7	63.6	65.9
LWB		54.2	58.4	61.3	54.9	59.7	62.9	55.5	60.6	64.1	
PD		1.43	2.12	3.86	2.09	2.80	5.05	2.75	3.39	6.05	
BF	0.30	0.17	0.19	0.37	0.21	0.22	0.42	0.24	0.26		



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 20 Cooling Capacity – Standard Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			1500			2000			2500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	49.61	64.51	81.27	58.29	75.20	94.28	65.60	83.70	104.48
		SHC	44.51	41.72	38.55	54.15	50.01	45.26	62.78	57.15	50.84
		LDB	52.9	54.7	56.7	55.3	57.3	59.5	57.1	59.2	61.6
		LWB	50.2	52.9	55.8	51.7	54.9	58.3	52.8	56.4	60.0
		PD	1.30	2.14	3.31	1.78	2.89	4.42	2.22	3.57	5.41
		BF	0.17	0.18	0.27	0.22	0.22	0.27	0.25	0.25	0.29
	45	TC	39.52	53.18	69.46	48.00	61.90	80.51	55.49	68.83	89.26
		SHC	39.21	36.93	33.83	48.00	44.54	39.96	55.49	51.16	45.13
		LDB	56.16	57.64	59.60	58.12	59.78	61.94	59.76	61.43	63.69
		LWB	52.79	55.69	58.54	53.67	57.27	60.52	54.34	58.43	61.96
		PD	0.77	1.35	2.25	1.11	1.82	2.99	1.47	2.24	3.66
		BF	0.20	0.17	0.20	0.26	0.21	0.24	0.32	0.25	0.27
	50	TC	32.40	40.65	56.86	40.25	47.34	65.96	46.81	52.70	73.12
		SHC	32.40	31.87	29.07	40.25	38.76	34.61	46.81	44.81	39.33
		LDB	60.3	60.7	62.5	61.6	62.4	64.4	62.9	63.7	65.8
		LWB	54.6	58.6	61.3	55.1	59.7	62.8	55.6	60.6	63.9
		PD	0.52	0.77	1.42	0.75	1.02	1.88	0.99	1.25	2.29
		BF	0.33	0.18	0.19	0.38	0.22	0.23	0.42	0.26	0.26
95	40	TC	49.69	64.51	81.21	58.41	75.12	94.11	65.59	83.54	104.18
		SHC	44.56	41.73	38.53	54.22	49.98	45.19	62.79	57.10	50.73
		LDB	52.9	54.7	56.8	55.3	57.3	59.6	57.1	59.3	61.7
		LWB	50.2	52.9	55.8	51.7	54.9	58.3	52.8	56.4	60.1
		PD	1.44	2.37	3.66	1.97	3.20	4.88	2.47	3.93	5.95
		BF	0.17	0.18	0.27	0.22	0.22	0.27	0.25	0.25	0.29
	45	TC	39.75	53.31	69.52	48.14	61.98	80.52	55.61	68.88	89.15
		SHC	39.42	37.00	33.86	48.14	44.58	39.97	55.61	51.18	45.10
		LDB	56.03	57.60	59.58	58.05	59.76	61.94	59.72	61.42	63.70
		LWB	52.73	55.66	58.52	53.65	57.25	60.52	54.33	58.42	61.97
		PD	0.85	1.50	2.48	1.23	2.02	3.31	1.63	2.48	4.05
		BF	0.20	0.17	0.20	0.26	0.21	0.24	0.31	0.25	0.27
	50	TC	33.10	41.01	57.07	40.65	47.59	66.09	47.06	52.92	73.22
		SHC	33.10	32.06	29.16	40.65	38.89	34.67	47.06	44.91	39.38
		LDB	59.9	60.6	62.4	61.5	62.4	64.3	62.8	63.7	65.8
		LWB	54.4	58.5	61.2	55.0	59.7	62.8	55.6	60.5	63.9
		PD	0.57	0.85	1.57	0.83	1.12	2.08	1.09	1.38	2.53
		BF	0.32	0.17	0.19	0.37	0.22	0.23	0.42	0.26	0.26
105	40	TC	49.72	64.45	81.08	58.38	74.95	93.82	65.52	83.28	103.74
		SHC	44.58	41.70	38.47	54.21	49.92	45.08	62.76	56.99	50.56
		LDB	52.9	54.7	56.8	55.3	57.3	59.6	57.1	59.3	61.7
		LWB	50.1	52.9	55.9	51.7	55.0	58.3	52.8	56.4	60.1
		PD	1.61	2.64	4.07	2.20	3.55	5.41	2.74	4.36	6.56
		BF	0.17	0.17	0.27	0.22	0.22	0.27	0.25	0.25	0.29
	45	TC	39.87	53.37	69.51	48.22	61.99	80.41	55.65	68.83	88.95
		SHC	39.54	37.03	33.86	48.22	44.59	39.94	55.65	51.17	45.04
		LDB	55.96	57.58	59.58	58.02	59.76	61.95	59.70	61.42	63.72
		LWB	52.70	55.64	58.52	53.63	57.25	60.54	54.32	58.43	62.00
		PD	0.96	1.67	2.76	1.37	2.24	3.67	1.81	2.75	4.48
		BF	0.19	0.17	0.20	0.26	0.21	0.24	0.31	0.25	0.27
	50	TC	33.46	41.19	57.18	40.84	47.73	66.13	47.19	53.05	73.20
		SHC	33.46	32.15	29.21	40.84	38.96	34.70	47.19	44.97	39.38
		LDB	59.7	60.5	62.4	61.4	62.3	64.3	62.8	63.7	65.8
		LWB	54.3	58.5	61.2	55.0	59.7	62.8	55.6	60.5	63.9
		PD	0.63	0.94	1.74	0.92	1.25	2.30	1.21	1.54	2.81
		BF	0.31	0.17	0.19	0.37	0.22	0.23	0.42	0.26	0.26



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 30

Cooling Capacity – Standard Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			2250			3000			3750		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	72.76	94.58	119.24	84.91	109.24	137.08	95.15	120.65	150.77
		SHC	65.85	61.47	56.56	79.87	73.27	65.94	92.29	83.39	73.69
		LDB	53.2	55.1	57.2	55.6	57.7	60.0	57.5	59.7	62.2
		LWB	50.4	53.2	56.2	52.0	55.3	58.7	53.1	56.8	60.5
		PD	2.17	3.54	5.39	2.92	4.67	7.06	3.61	5.67	8.47
	BF	0.17	0.18	0.29	0.22	0.22	0.28	0.26	0.26	0.29	
	45	TC	58.63	78.24	102.52	71.06	90.36	118.01	81.84	99.82	129.94
		SHC	58.38	54.62	49.98	71.06	65.58	58.73	81.84	75.07	66.03
		LDB	56.27	57.89	59.85	58.32	60.08	62.24	60.01	61.75	64.02
		LWB	52.87	55.89	58.74	53.76	57.51	60.77	54.45	58.70	62.24
		PD	1.31	2.27	3.72	1.88	3.00	4.90	2.48	3.64	5.89
	BF	0.20	0.18	0.21	0.27	0.22	0.24	0.32	0.25	0.28	
	50	TC	48.92	60.38	84.27	60.11	69.82	97.01	69.47	77.37	106.95
		SHC	48.92	47.49	43.15	60.11	57.54	51.11	69.47	66.36	57.87
		LDB	60.1	60.8	62.6	61.7	62.5	64.6	63.0	63.9	66.0
LWB		54.5	58.6	61.4	55.1	59.8	63.0	55.7	60.7	64.1	
PD		0.89	1.31	2.38	1.29	1.72	3.12	1.67	2.08	3.76	
BF	0.33	0.18	0.19	0.38	0.22	0.23	0.43	0.26	0.27		
95	40	TC	72.71	94.35	118.70	84.74	108.81	136.35	94.87	120.03	149.76
		SHC	65.84	61.37	56.34	79.81	73.10	65.66	92.19	83.15	73.31
		LDB	53.2	55.1	57.3	55.6	57.8	60.1	57.5	59.8	62.3
		LWB	50.4	53.3	56.3	52.0	55.3	58.8	53.1	56.8	60.6
		PD	2.39	3.90	5.93	3.22	5.14	7.74	3.99	6.22	9.24
	BF	0.17	0.18	0.28	0.22	0.22	0.27	0.26	0.25	0.29	
	45	TC	58.81	78.23	102.39	71.16	90.22	117.63	81.84	99.57	129.37
		SHC	58.56	54.63	49.93	71.16	65.53	58.59	81.84	74.98	65.84
		LDB	56.19	57.88	59.87	58.29	60.09	62.28	60.01	61.77	64.07
		LWB	52.84	55.89	58.76	53.75	57.53	60.81	54.45	58.72	62.29
		PD	1.45	2.51	4.11	2.09	3.31	5.38	2.73	4.00	6.47
	BF	0.20	0.18	0.21	0.27	0.22	0.24	0.32	0.25	0.27	
	50	TC	49.62	60.65	84.32	60.43	69.99	96.98	69.65	77.47	106.81
		SHC	49.62	47.64	43.19	60.43	57.64	51.11	69.65	66.43	57.83
		LDB	59.8	60.7	62.6	61.6	62.5	64.6	63.0	63.9	66.0
LWB		54.4	58.6	61.4	55.1	59.8	63.0	55.6	60.7	64.1	
PD		0.98	1.44	2.62	1.41	1.89	3.44	1.86	2.30	4.15	
BF	0.32	0.18	0.19	0.38	0.22	0.23	0.43	0.26	0.27		
105	40	TC	72.59	94.04	118.15	84.47	108.26	135.43	94.48	119.27	148.54
		SHC	65.79	61.24	56.11	79.71	72.88	65.30	92.10	82.85	72.85
		LDB	53.2	55.2	57.4	55.7	57.8	60.2	57.5	59.8	62.4
		LWB	50.5	53.3	56.3	52.1	55.4	58.9	53.2	56.9	60.7
		PD	2.66	4.33	6.56	3.56	5.68	8.51	4.41	6.84	10.13
	BF	0.17	0.18	0.27	0.22	0.22	0.27	0.26	0.25	0.29	
	45	TC	58.91	78.12	102.11	71.15	89.98	117.10	81.76	99.20	128.62
		SHC	58.65	54.59	49.83	71.15	65.45	58.41	81.76	74.85	65.58
		LDB	56.16	57.90	59.91	58.29	60.12	62.34	60.03	61.81	64.13
		LWB	52.82	55.91	58.80	53.75	57.55	60.87	54.45	58.75	62.35
		PD	1.61	2.78	4.55	2.32	3.66	5.94	3.04	4.43	7.11
	BF	0.20	0.18	0.21	0.27	0.22	0.24	0.33	0.25	0.27	
	50	TC	49.88	60.77	84.26	60.57	70.03	96.80	69.73	77.44	106.48
		SHC	49.88	47.71	43.17	60.57	57.67	51.05	69.73	66.43	57.73
		LDB	59.7	60.7	62.6	61.5	62.5	64.6	63.0	63.9	66.0
LWB		54.3	58.6	61.4	55.1	59.8	63.0	55.6	60.7	64.2	
PD		1.08	1.60	2.91	1.56	2.09	3.80	2.06	2.54	4.58	
BF	0.31	0.18	0.19	0.38	0.22	0.23	0.42	0.26	0.27		



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 40 Cooling Capacity – Standard Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			3000			4000			5000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	99.65	129.58	163.16	116.40	149.73	187.58	130.51	165.56	206.49
		SHC	89.76	83.91	77.31	108.90	100.03	90.09	126.09	113.98	100.75
		LDB	52.7	54.6	56.7	55.1	57.3	59.6	57.0	59.3	61.8
		LWB	50.1	52.9	55.8	51.7	55.0	58.3	52.9	56.5	60.2
		PD	2.42	3.92	5.94	3.25	5.18	7.76	4.02	6.28	9.32
		BF	0.16	0.17	0.30	0.21	0.21	0.27	0.24	0.24	0.28
	45	TC	80.13	107.48	140.61	96.97	124.29	161.96	111.95	137.55	178.61
		SHC	79.53	74.61	68.39	96.97	89.63	80.36	111.95	102.77	90.47
		LDB	55.87	57.45	59.42	57.88	59.64	61.83	59.58	61.34	63.65
		LWB	52.67	55.58	58.37	53.58	57.21	60.44	54.27	58.43	61.95
		PD	1.48	2.54	4.14	2.10	3.36	5.43	2.74	4.08	6.55
		BF	0.19	0.17	0.20	0.25	0.21	0.24	0.31	0.24	0.26
	50	TC	66.22	83.05	115.84	81.79	96.26	133.58	95.03	106.85	147.52
		SHC	66.22	64.80	59.08	81.79	78.61	70.02	95.03	90.87	79.40
		LDB	59.9	60.4	62.2	61.3	62.2	64.2	62.7	63.5	65.7
		LWB	54.4	58.4	61.1	55.0	59.6	62.7	55.5	60.5	63.9
		PD	1.00	1.48	2.67	1.44	1.94	3.51	1.88	2.36	4.23
		BF	0.32	0.17	0.19	0.37	0.21	0.22	0.41	0.25	0.26
95	40	TC	99.58	129.24	162.38	116.12	149.05	186.45	130.05	164.57	204.92
		SHC	89.75	83.77	76.98	108.78	99.76	89.65	125.87	113.60	100.15
		LDB	52.8	54.7	56.8	55.2	57.3	59.7	57.0	59.4	61.9
		LWB	50.1	52.9	55.9	51.8	55.0	58.4	52.9	56.6	60.3
		PD	2.67	4.33	6.53	3.58	5.69	8.49	4.43	6.88	10.15
		BF	0.16	0.17	0.29	0.21	0.21	0.27	0.24	0.24	0.28
	45	TC	80.47	107.49	140.46	97.15	124.05	161.37	111.97	137.11	177.68
		SHC	79.87	74.64	68.33	97.15	89.55	80.15	111.97	102.62	90.15
		LDB	55.76	57.44	59.44	57.84	59.66	61.87	59.57	61.37	63.71
		LWB	52.62	55.57	58.39	53.56	57.24	60.48	54.27	58.46	62.01
		PD	1.63	2.81	4.56	2.31	3.70	5.96	3.03	4.49	7.17
		BF	0.19	0.17	0.20	0.25	0.21	0.23	0.31	0.24	0.26
	50	TC	67.47	83.56	115.96	82.54	96.54	133.48	95.39	106.97	147.26
		SHC	67.47	65.10	59.15	82.54	78.79	70.01	95.39	90.97	79.34
		LDB	59.5	60.3	62.2	61.2	62.1	64.2	62.6	63.5	65.7
		LWB	54.3	58.3	61.1	54.9	59.6	62.7	55.5	60.5	63.9
		PD	1.10	1.62	2.94	1.58	2.13	3.85	2.07	2.59	4.65
		BF	0.31	0.17	0.19	0.36	0.21	0.22	0.41	0.24	0.26
105	40	TC	99.39	128.73	161.50	115.73	148.20	184.80	129.40	163.38	203.10
		SHC	89.68	83.56	76.62	108.62	99.41	89.00	125.56	113.13	99.47
		LDB	52.8	54.7	56.9	55.2	57.4	59.9	57.1	59.4	62.0
		LWB	50.2	53.0	56.0	51.8	55.1	58.6	53.0	56.7	60.4
		PD	2.96	4.78	7.20	3.95	6.26	9.30	4.89	7.55	11.09
		BF	0.16	0.17	0.27	0.21	0.21	0.26	0.24	0.24	0.28
	45	TC	80.55	107.32	140.02	97.15	123.65	160.57	111.84	136.52	176.49
		SHC	79.99	74.58	68.16	97.15	89.41	79.86	111.84	102.41	89.74
		LDB	55.73	57.46	59.49	57.83	59.69	61.94	59.60	61.40	63.78
		LWB	52.61	55.59	58.44	53.56	57.27	60.55	54.28	58.50	62.09
		PD	1.80	3.10	5.05	2.57	4.08	6.57	3.37	4.95	7.87
		BF	0.18	0.17	0.20	0.25	0.21	0.23	0.31	0.24	0.26
	50	TC	68.08	83.72	115.86	82.78	96.57	133.24	95.50	106.87	146.66
		SHC	68.08	65.19	59.13	82.78	78.84	69.94	95.50	90.96	79.15
		LDB	59.3	60.3	62.2	61.1	62.1	64.2	62.6	63.5	65.7
		LWB	54.2	58.3	61.1	54.9	59.6	62.7	55.5	60.5	63.9
		PD	1.22	1.80	3.26	1.75	2.37	4.26	2.30	2.87	5.13
		BF	0.30	0.17	0.18	0.36	0.21	0.22	0.41	0.24	0.26



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBA 60 Cooling Capacity – Standard Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			5000			6000			7000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	167.64	219.21	277.49	186.35	242.53	306.22	202.91	262.91	331.16
		SHC	149.79	141.12	131.23	170.08	158.65	145.68	189.22	174.73	158.64
		LDB	52.7	54.4	56.3	54.1	55.9	58.0	55.3	57.3	59.5
		LWB	50.0	52.6	55.4	51.0	53.9	56.9	51.8	54.9	58.2
		PD	1.19	1.92	2.94	1.44	2.32	3.55	1.69	2.72	4.12
	BF	0.17	0.17	0.00	0.19	0.20	0.28	0.21	0.22	0.28	
	45	TC	130.65	179.33	236.38	148.74	198.52	260.92	166.53	215.21	282.24
		SHC	129.61	124.12	114.70	148.63	140.25	127.88	166.53	155.10	139.78
		LDB	56.38	57.47	59.27	57.39	58.75	60.71	58.30	59.88	61.95
		LWB	52.88	55.55	58.22	53.37	56.51	59.45	53.75	57.33	60.49
		PD	0.73	1.25	2.02	0.90	1.50	2.43	1.09	1.74	2.82
	BF	0.21	0.17	0.21	0.24	0.19	0.23	0.27	0.22	0.25	
	50	TC	101.89	133.62	192.15	120.05	149.40	212.06	136.23	162.92	229.65
		SHC	101.89	105.04	97.89	120.05	120.16	109.68	136.23	134.02	120.52
		LDB	61.4	61.0	62.3	61.7	61.8	63.5	62.2	62.6	64.4
LWB		55.0	58.7	61.1	55.1	59.3	62.1	55.3	59.8	62.8	
PD		0.51	0.74	1.31	0.63	0.88	1.55	0.76	1.01	1.80	
BF	0.37	0.19	0.19	0.38	0.21	0.21	0.40	0.23	0.24		
95	40	TC	168.64	219.72	277.64	187.12	242.71	306.00	203.26	262.81	330.71
		SHC	150.43	141.40	131.29	170.57	158.77	145.59	189.59	174.72	158.46
		LDB	52.6	54.3	56.3	54.0	55.9	58.0	55.3	57.3	59.5
		LWB	49.9	52.6	55.3	50.9	53.9	56.9	51.7	54.9	58.2
		PD	1.31	2.11	3.24	1.58	2.56	3.91	1.85	2.98	4.53
	BF	0.16	0.17	0.00	0.19	0.20	0.28	0.21	0.22	0.28	
	45	TC	133.64	180.63	237.37	151.11	199.44	261.56	168.29	215.88	282.50
		SHC	132.33	124.82	115.11	151.01	140.74	128.16	168.29	155.45	139.92
		LDB	55.89	57.35	59.20	57.03	58.68	60.67	58.07	59.83	61.93
		LWB	52.65	55.45	58.15	53.22	56.45	59.42	53.65	57.29	60.48
		PD	0.80	1.36	2.23	0.99	1.64	2.68	1.19	1.90	3.10
	BF	0.19	0.17	0.21	0.22	0.19	0.23	0.26	0.22	0.24	
	50	TC	107.91	137.45	193.78	124.91	152.30	213.68	140.40	165.20	230.95
		SHC	107.91	107.23	98.60	124.91	121.83	110.36	140.40	135.35	121.05
		LDB	60.3	60.6	62.2	61.0	61.6	63.4	61.7	62.5	64.4
LWB		54.6	58.4	61.0	54.8	59.1	62.0	55.1	59.7	62.8	
PD		0.55	0.80	1.43	0.69	0.95	1.71	0.82	1.10	1.97	
BF	0.34	0.17	0.19	0.36	0.20	0.21	0.38	0.22	0.23		
105	40	TC	168.95	219.69	277.38	187.29	242.49	305.48	203.29	262.46	329.93
		SHC	150.63	141.41	131.18	170.70	158.69	145.38	189.77	174.59	158.15
		LDB	52.5	54.3	56.3	54.0	55.9	58.1	55.3	57.3	59.6
		LWB	49.9	52.6	55.4	50.9	53.9	56.9	51.7	54.9	58.2
		PD	1.44	2.35	3.58	1.76	2.83	4.32	2.04	3.30	5.01
	BF	0.16	0.17	0.00	0.19	0.20	0.28	0.21	0.22	0.28	
	45	TC	135.00	181.20	237.66	152.10	199.87	261.66	168.98	216.17	282.36
		SHC	133.41	125.11	115.25	152.03	140.97	128.23	168.98	155.61	139.90
		LDB	55.69	57.29	59.17	56.87	58.64	60.66	57.98	59.81	61.93
		LWB	52.55	55.41	58.13	53.15	56.43	59.41	53.61	57.28	60.48
		PD	0.88	1.51	2.46	1.09	1.81	2.96	1.32	2.10	3.43
	BF	0.19	0.17	0.20	0.22	0.19	0.22	0.26	0.22	0.24	
	50	TC	111.24	139.22	194.89	127.66	153.60	214.52	142.49	166.26	231.63
		SHC	111.24	108.20	99.06	127.66	122.55	110.70	142.49	135.94	121.34
		LDB	59.7	60.4	62.1	60.6	61.5	63.3	61.4	62.4	64.3
LWB		54.3	58.3	60.9	54.7	59.1	61.9	55.0	59.7	62.8	
PD		0.60	0.88	1.57	0.75	1.04	1.89	0.90	1.21	2.18	
BF	0.32	0.17	0.19	0.34	0.20	0.21	0.37	0.22	0.23		



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBA 80 Cooling Capacity – Standard Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			7000			8000			9000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	238.88	309.20	388.45	257.35	332.08	416.37	274.67	352.46	441.04
		SHC	215.37	200.91	184.68	236.36	218.88	199.13	257.07	235.60	212.31
		LDB	51.9	53.9	56.1	53.0	55.1	57.5	53.9	56.2	58.7
		LWB	49.7	52.5	55.3	50.5	53.5	56.6	51.2	54.3	57.6
		PD	1.85	3.04	4.63	2.14	3.49	5.32	2.44	3.93	5.94
		BF	0.14	0.14	0.22	0.15	0.16	0.21	0.17	0.17	0.22
	45	TC	193.90	255.89	333.71	212.14	274.55	357.59	229.83	291.10	378.90
		SHC	192.43	178.57	162.92	212.14	195.11	176.20	229.83	210.54	188.45
		LDB	54.93	56.83	58.95	55.82	57.85	60.08	56.71	58.76	61.07
		LWB	52.26	55.28	58.06	52.70	56.07	59.05	53.07	56.76	59.90
		PD	1.10	1.92	3.18	1.32	2.21	3.64	1.55	2.48	4.08
		BF	0.16	0.14	0.17	0.18	0.15	0.18	0.21	0.17	0.20
	50	TC	164.17	197.71	275.14	180.32	212.13	294.58	195.36	225.36	311.92
		SHC	164.17	155.47	140.97	180.32	170.52	152.94	195.36	184.90	164.04
		LDB	58.6	59.8	61.8	59.4	60.7	62.7	60.2	61.4	63.5
		LWB	53.9	58.2	60.8	54.2	58.8	61.6	54.5	59.2	62.3
		PD	0.72	1.07	2.00	0.88	1.23	2.29	1.03	1.39	2.57
		BF	0.28	0.14	0.15	0.31	0.16	0.17	0.33	0.17	0.19
95	40	TC	238.74	308.60	387.34	257.08	331.28	414.90	274.33	351.43	439.25
		SHC	215.31	200.66	184.22	236.23	218.55	198.55	256.91	235.18	211.61
		LDB	51.9	53.9	56.2	53.1	55.2	57.5	54.0	56.3	58.7
		LWB	49.7	52.5	55.4	50.5	53.5	56.6	51.2	54.4	57.7
		PD	2.06	3.37	5.13	2.39	3.87	5.86	2.71	4.35	6.54
		BF	0.14	0.14	0.22	0.15	0.16	0.21	0.17	0.17	0.22
	45	TC	194.07	255.86	333.04	212.22	274.43	357.00	229.87	290.85	377.99
		SHC	192.53	178.56	162.67	212.22	195.07	176.00	229.87	210.45	188.14
		LDB	54.92	56.83	58.98	55.81	57.86	60.11	56.71	58.77	61.10
		LWB	52.25	55.28	58.09	52.70	56.08	59.08	53.07	56.77	59.94
		PD	1.24	2.14	3.52	1.48	2.46	4.04	1.73	2.76	4.52
		BF	0.16	0.14	0.17	0.18	0.15	0.18	0.21	0.17	0.20
	50	TC	164.38	198.09	275.27	180.53	212.51	294.59	195.54	225.70	311.84
		SHC	164.38	155.62	141.03	180.53	170.66	152.95	195.54	185.03	164.03
		LDB	58.6	59.8	61.8	59.4	60.6	62.7	60.2	61.3	63.5
		LWB	53.9	58.2	60.8	54.2	58.7	61.6	54.5	59.2	62.3
		PD	0.81	1.20	2.23	0.98	1.38	2.55	1.15	1.55	2.86
		BF	0.28	0.14	0.15	0.30	0.16	0.17	0.33	0.17	0.19
105	40	TC	238.45	307.76	385.84	256.64	330.17	413.03	273.79	350.07	436.97
		SHC	215.20	200.31	183.60	236.05	218.10	197.80	256.67	234.63	210.72
		LDB	52.0	54.0	56.3	53.1	55.2	57.6	54.0	56.3	58.8
		LWB	49.8	52.5	55.5	50.5	53.5	56.7	51.2	54.4	57.8
		PD	2.31	3.74	5.68	2.66	4.30	6.48	3.02	4.81	7.22
		BF	0.14	0.14	0.21	0.15	0.16	0.21	0.17	0.17	0.22
	45	TC	194.19	255.66	332.35	212.25	274.14	356.09	229.82	290.36	376.82
		SHC	192.61	178.49	162.42	212.25	194.95	175.68	229.82	210.25	187.73
		LDB	54.91	56.84	59.01	55.81	57.87	60.14	56.71	58.79	61.14
		LWB	52.24	55.29	58.13	52.70	56.09	59.12	53.07	56.79	59.98
		PD	1.39	2.39	3.92	1.65	2.75	4.48	1.94	3.08	5.01
		BF	0.16	0.14	0.17	0.18	0.15	0.18	0.21	0.17	0.19
	50	TC	164.56	198.60	275.18	180.62	212.75	294.48	195.66	225.87	311.48
		SHC	164.56	155.85	141.00	180.62	170.75	152.93	195.66	185.10	163.92
		LDB	58.6	59.8	61.8	59.4	60.6	62.7	60.2	61.3	63.5
		LWB	53.8	58.1	60.8	54.2	58.7	61.6	54.5	59.2	62.3
		PD	0.91	1.34	2.50	1.10	1.54	2.85	1.29	1.74	3.19
		BF	0.28	0.14	0.15	0.30	0.16	0.17	0.33	0.17	0.19



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 04 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			300			400			500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	13.79	17.93	22.54	16.84	21.79	27.28	19.39	24.94	31.08
		SHC	11.39	11.03	10.59	14.32	13.63	12.84	16.96	15.90	14.70
		LDB	45.4	46.6	48.0	47.3	49.0	50.9	49.0	51.1	53.4
		LWB	44.8	46.2	47.8	46.4	48.4	50.6	47.8	50.2	52.9
		PD	1.60	2.66	4.08	2.42	3.98	6.07	3.23	5.26	7.92
		BF	0.04	0.05	0.00	0.06	0.07	0.00	0.08	0.09	0.00
	45	TC	10.98	15.07	19.65	13.52	18.32	23.84	15.75	20.99	27.21
		SHC	10.07	9.72	9.31	12.77	12.10	11.38	15.23	14.20	13.12
		LDB	49.42	50.58	51.92	50.90	52.51	54.25	52.22	54.18	56.25
		LWB	48.75	50.13	51.65	49.87	51.84	53.85	50.77	53.28	55.71
		PD	0.92	1.71	2.86	1.40	2.58	4.26	1.91	3.43	5.59
		BF	0.04	0.05	0.13	0.06	0.06	0.11	0.09	0.08	0.12
	50	TC	8.14	11.90	16.50	10.99	14.46	19.97	13.15	16.58	22.80
		SHC	8.14	8.39	8.01	10.99	10.51	9.84	13.15	12.43	11.42
		LDB	55.3	54.6	55.9	55.0	56.1	57.7	56.0	57.4	59.3
		LWB	52.5	54.2	55.5	52.4	55.4	57.3	52.8	56.5	58.7
		PD	0.53	0.99	1.84	0.84	1.48	2.75	1.19	1.96	3.63
		BF	0.17	0.04	0.07	0.15	0.06	0.08	0.19	0.08	0.10
95	40	TC	13.77	17.89	22.46	16.80	21.70	27.12	19.31	24.80	30.84
		SHC	11.39	11.00	10.55	14.30	13.59	12.77	16.92	15.84	14.60
		LDB	45.4	46.7	48.1	47.4	49.1	51.1	49.1	51.2	53.5
		LWB	44.8	46.3	47.9	46.5	48.5	50.7	47.9	50.3	53.1
		PD	1.80	2.98	4.57	2.71	4.44	6.74	3.61	5.84	8.74
		BF	0.04	0.05	0.00	0.06	0.07	0.00	0.08	0.09	0.00
	45	TC	11.01	15.06	19.65	13.51	18.28	23.75	15.73	20.91	27.06
		SHC	10.08	9.72	9.31	12.77	12.08	11.34	15.22	14.17	13.06
		LDB	49.38	50.58	51.92	50.90	52.55	54.33	52.23	54.24	56.36
		LWB	48.72	50.14	51.65	49.88	51.88	53.93	50.79	53.34	55.82
		PD	1.04	1.93	3.20	1.58	2.89	4.74	2.15	3.81	6.20
		BF	0.04	0.04	0.12	0.06	0.06	0.11	0.09	0.08	0.12
	50	TC	8.59	11.94	16.50	11.05	14.48	19.93	13.18	16.58	22.72
		SHC	8.59	8.40	8.01	11.05	10.52	9.83	13.18	12.43	11.39
		LDB	53.9	54.6	55.9	54.8	56.1	57.8	56.0	57.4	59.4
		LWB	51.9	54.1	55.5	52.3	55.4	57.3	52.8	56.5	58.8
		PD	0.59	1.12	2.08	0.94	1.66	3.08	1.35	2.20	4.05
		BF	0.12	0.04	0.07	0.15	0.06	0.08	0.19	0.08	0.10
105	40	TC	13.74	17.82	22.35	16.74	21.58	26.92	19.21	24.61	30.56
		SHC	11.37	10.97	10.50	14.27	13.54	12.68	16.88	15.76	14.48
		LDB	45.4	46.8	48.3	47.4	49.2	51.3	49.2	51.3	53.8
		LWB	44.9	46.3	48.1	46.5	48.6	50.9	48.0	50.5	53.3
		PD	2.03	3.35	5.13	3.05	4.96	7.50	4.03	6.48	9.67
		BF	0.04	0.05	0.00	0.06	0.07	0.00	0.08	0.09	0.19
	45	TC	11.01	15.04	19.59	13.50	18.22	23.63	15.69	20.81	26.87
		SHC	10.09	9.71	9.29	12.76	12.06	11.29	15.20	14.13	12.98
		LDB	49.37	50.61	52.00	50.92	52.61	54.45	52.26	54.31	56.50
		LWB	48.71	50.17	51.72	49.89	51.94	54.04	50.82	53.41	55.95
		PD	1.17	2.17	3.61	1.78	3.24	5.30	2.42	4.27	6.89
		BF	0.04	0.04	0.12	0.06	0.06	0.11	0.09	0.08	0.12
	50	TC	8.73	11.95	16.47	11.08	14.47	19.86	13.18	16.54	22.61
		SHC	8.73	8.41	8.00	11.08	10.52	9.80	13.18	12.42	11.35
		LDB	53.5	54.6	55.9	54.8	56.1	57.8	56.0	57.5	59.5
		LWB	51.7	54.1	55.6	52.3	55.4	57.4	52.8	56.5	58.9
		PD	0.66	1.26	2.35	1.07	1.87	3.46	1.54	2.47	4.51
		BF	0.10	0.04	0.07	0.15	0.06	0.08	0.19	0.08	0.10



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 06 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			450			600			750		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	18.45	24.19	30.68	22.26	28.91	36.43	25.41	32.65	40.89
		SHC	16.00	15.28	14.49	20.06	18.77	17.35	23.72	21.80	19.72
		LDB	47.5	49.1	50.8	49.5	51.6	53.8	51.2	53.6	56.2
		LWB	46.9	48.7	50.5	48.5	50.9	53.4	49.8	52.7	55.7
		PD	2.31	3.97	6.28	3.45	5.80	9.02	4.56	7.50	11.43
		BF	0.04	0.05	0.00	0.06	0.07	0.12	0.08	0.08	0.12
	45	TC	14.58	19.99	26.53	18.02	23.95	31.60	21.22	27.13	35.58
		SHC	14.16	13.44	12.73	17.91	16.67	15.40	21.22	19.53	17.65
		LDB	51.28	52.83	54.36	52.79	54.76	56.78	54.23	56.37	58.73
		LWB	50.42	52.36	54.07	51.36	54.06	56.34	52.04	55.42	58.15
		PD	1.25	2.43	4.22	1.95	3.59	6.14	2.77	4.68	7.88
		BF	0.05	0.04	0.08	0.08	0.06	0.09	0.13	0.08	0.10
	50	TC	12.02	15.22	21.80	15.14	18.28	26.01	17.94	20.76	29.38
		SHC	12.02	11.52	10.88	15.14	14.43	13.29	17.94	17.05	15.38
		LDB	55.6	56.8	58.1	57.0	58.2	60.0	58.2	59.4	61.5
		LWB	52.6	56.2	57.8	53.2	57.4	59.5	53.7	58.4	60.9
		PD	0.74	1.26	2.55	1.23	1.87	3.74	1.76	2.45	4.86
		BF	0.18	0.04	0.06	0.22	0.06	0.08	0.26	0.08	0.09
95	40	TC	18.54	24.22	30.61	22.33	28.87	36.24	25.42	32.53	40.58
		SHC	16.04	15.29	14.45	20.09	18.75	17.27	23.73	21.76	19.59
		LDB	47.4	49.1	50.9	49.5	51.6	53.9	51.2	53.7	56.4
		LWB	46.8	48.6	50.6	48.5	50.9	53.5	49.8	52.8	55.8
		PD	2.66	4.51	7.09	3.95	6.56	10.08	5.18	8.41	12.70
		BF	0.04	0.05	0.00	0.06	0.07	0.11	0.08	0.08	0.12
	45	TC	14.71	20.11	26.57	18.12	24.05	31.58	21.30	27.20	35.49
		SHC	14.23	13.50	12.75	17.99	16.71	15.39	21.30	19.56	17.62
		LDB	51.14	52.72	54.33	52.67	54.70	56.79	54.13	56.34	58.77
		LWB	50.30	52.25	54.03	51.29	53.99	56.35	52.00	55.39	58.19
		PD	1.45	2.80	4.81	2.25	4.10	6.95	3.18	5.33	8.86
		BF	0.05	0.04	0.08	0.08	0.06	0.09	0.13	0.08	0.10
	50	TC	12.13	15.43	21.95	15.27	18.50	26.17	18.06	20.98	29.50
		SHC	12.13	11.60	10.94	15.27	14.51	13.35	18.06	17.14	15.42
		LDB	55.4	56.6	58.0	56.8	58.1	59.9	58.1	59.3	61.4
		LWB	52.5	56.1	57.7	53.1	57.3	59.4	53.6	58.3	60.8
		PD	0.87	1.47	2.95	1.42	2.18	4.29	2.04	2.85	5.54
		BF	0.17	0.04	0.06	0.22	0.06	0.08	0.26	0.08	0.09
105	40	TC	18.60	24.24	30.47	22.34	28.77	35.97	25.38	32.34	40.17
		SHC	16.07	15.30	14.40	20.10	18.70	17.16	23.71	21.68	19.43
		LDB	47.4	49.1	51.0	49.4	51.7	54.1	51.2	53.8	56.6
		LWB	46.7	48.6	50.7	48.5	51.0	53.7	49.9	52.9	56.0
		PD	3.06	5.15	8.01	4.52	7.39	11.28	5.88	9.43	14.08
		BF	0.04	0.05	0.00	0.06	0.06	0.11	0.08	0.08	0.12
	45	TC	14.81	20.19	26.57	18.20	24.10	31.49	21.34	27.19	35.31
		SHC	14.28	13.53	12.75	18.04	16.73	15.36	21.34	19.55	17.56
		LDB	51.03	52.65	54.33	52.59	54.67	56.84	54.07	56.34	58.85
		LWB	50.21	52.18	54.03	51.24	53.96	56.40	51.97	55.39	58.27
		PD	1.69	3.22	5.49	2.60	4.69	7.86	3.65	6.05	9.96
		BF	0.05	0.04	0.08	0.08	0.06	0.09	0.12	0.08	0.10
	50	TC	12.22	15.61	22.08	15.36	18.69	26.26	18.16	21.17	29.55
		SHC	12.22	11.67	10.98	15.36	14.58	13.38	18.16	17.20	15.44
		LDB	55.2	56.4	57.9	56.7	57.9	59.8	57.9	59.2	61.4
		LWB	52.5	55.9	57.6	53.1	57.2	59.4	53.6	58.2	60.8
		PD	1.01	1.72	3.40	1.65	2.53	4.93	2.35	3.30	6.32
		BF	0.16	0.04	0.06	0.21	0.06	0.08	0.25	0.08	0.09



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 08 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			600			800			1000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	20.57	27.95	36.66	25.03	33.81	44.32	28.93	38.73	50.68
		SHC	18.96	18.18	17.38	23.80	22.53	21.19	28.18	26.42	24.47
		LDB	51.2	52.5	53.8	52.9	54.4	56.0	54.3	56.0	57.9
		LWB	49.7	51.5	53.3	50.9	53.2	55.4	51.8	54.5	57.0
		PD	0.48	0.88	1.50	0.71	1.31	2.24	0.96	1.74	2.97
		BF	0.09	0.09	0.18	0.12	0.11	0.17	0.15	0.14	0.17
	45	TC	15.91	21.89	30.33	20.25	26.37	36.54	24.03	30.16	41.72
		SHC	15.91	15.64	14.82	20.25	19.48	18.14	24.03	22.95	21.05
		LDB	55.83	56.32	57.66	56.91	57.89	59.49	58.09	59.17	60.97
		LWB	52.72	55.31	57.08	53.18	56.56	58.74	53.66	57.52	60.04
		PD	0.27	0.49	0.92	0.42	0.72	1.35	0.60	0.95	1.79
		BF	0.18	0.09	0.11	0.22	0.11	0.13	0.26	0.14	0.15
	50	TC	12.14	15.10	23.37	16.24	18.55	28.00	19.50	21.28	31.91
		SHC	12.14	12.91	12.22	16.24	16.41	15.04	19.50	19.48	17.56
		LDB	61.5	60.5	61.6	61.5	61.4	63.0	62.2	62.3	64.1
		LWB	55.1	59.2	60.9	55.0	59.9	62.2	55.3	60.5	63.1
		PD	0.17	0.24	0.50	0.27	0.34	0.72	0.37	0.44	0.95
		BF	0.38	0.10	0.10	0.37	0.12	0.12	0.40	0.15	0.15
95	40	TC	20.94	28.34	37.06	25.48	34.26	44.76	29.40	39.24	51.14
		SHC	19.13	18.35	17.55	24.00	22.72	21.37	28.42	26.63	24.65
		LDB	50.9	52.2	53.5	52.6	54.2	55.8	54.1	55.8	57.7
		LWB	49.4	51.3	53.0	50.6	53.0	55.2	51.6	54.3	56.9
		PD	0.55	1.01	1.73	0.84	1.51	2.57	1.12	2.01	3.40
		BF	0.09	0.09	0.21	0.12	0.11	0.17	0.15	0.14	0.18
	45	TC	16.31	22.33	30.81	20.60	26.90	37.10	24.33	30.76	42.31
		SHC	16.31	15.82	15.00	20.60	19.69	18.35	24.33	23.18	21.27
		LDB	55.21	56.05	57.38	56.52	57.66	59.26	57.81	58.95	60.78
		LWB	52.46	55.04	56.81	53.01	56.32	58.51	53.54	57.32	59.85
		PD	0.31	0.57	1.06	0.49	0.83	1.57	0.68	1.10	2.07
		BF	0.16	0.09	0.12	0.21	0.11	0.14	0.25	0.14	0.15
	50	TC	13.08	15.89	23.91	16.81	19.19	28.66	20.00	21.92	32.62
		SHC	13.08	13.26	12.42	16.81	16.66	15.27	20.00	19.72	17.80
		LDB	60.1	59.9	61.3	60.8	61.1	62.8	61.8	62.1	63.9
		LWB	54.5	58.8	60.6	54.8	59.6	61.9	55.2	60.3	62.9
		PD	0.20	0.27	0.58	0.30	0.39	0.84	0.42	0.51	1.10
		BF	0.33	0.10	0.10	0.35	0.12	0.12	0.38	0.15	0.15
105	40	TC	21.28	28.70	37.41	25.88	34.67	45.13	29.83	39.67	51.50
		SHC	19.28	18.51	17.70	24.19	22.90	21.52	28.62	26.81	24.80
		LDB	50.7	52.0	53.3	52.4	54.0	55.6	53.9	55.6	57.6
		LWB	49.2	51.1	52.8	50.5	52.8	55.0	51.4	54.1	56.7
		PD	0.65	1.18	1.99	0.97	1.75	2.96	1.31	2.32	3.91
		BF	0.09	0.09	0.00	0.12	0.11	0.17	0.15	0.14	0.18
	45	TC	16.62	22.73	31.24	20.84	27.39	37.58	24.61	31.29	42.81
		SHC	16.60	15.98	15.17	20.84	19.88	18.53	24.61	23.39	21.45
		LDB	54.77	55.80	57.12	56.24	57.44	59.05	57.56	58.77	60.61
		LWB	52.27	54.80	56.56	52.89	56.11	58.30	53.44	57.13	59.68
		PD	0.35	0.66	1.24	0.56	0.98	1.82	0.78	1.29	2.40
		BF	0.15	0.09	0.12	0.20	0.11	0.14	0.24	0.14	0.16
	50	TC	13.55	16.41	24.47	17.20	19.72	29.25	20.32	22.51	33.27
		SHC	13.55	13.47	12.62	17.20	16.86	15.48	20.32	19.94	18.02
		LDB	59.4	59.6	61.0	60.4	60.9	62.5	61.5	61.9	63.7
		LWB	54.2	58.5	60.3	54.6	59.4	61.7	55.0	60.1	62.7
		PD	0.22	0.32	0.69	0.35	0.46	0.98	0.48	0.60	1.29
		BF	0.30	0.09	0.10	0.34	0.12	0.12	0.37	0.15	0.15



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 12 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			900			1200			1500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	31.91	43.12	56.23	38.85	52.14	67.94	44.68	59.74	77.64
		SHC	28.98	27.80	26.59	36.40	34.43	32.38	43.05	40.36	37.35
		LDB	50.6	51.9	53.2	52.3	53.9	55.5	53.8	55.5	57.4
		LWB	49.2	51.0	52.7	50.4	52.7	54.9	51.4	54.1	56.6
		PD	0.68	1.22	2.04	1.01	1.80	3.02	1.34	2.39	3.98
	BF	0.09	0.09	0.00	0.11	0.11	0.17	0.14	0.13	0.18	
	45	TC	24.89	34.17	47.01	31.35	41.23	56.72	37.07	47.19	64.77
		SHC	24.88	24.03	22.82	31.35	29.92	27.94	37.07	35.27	32.40
		LDB	54.74	55.70	57.01	56.13	57.31	58.90	57.42	58.61	60.44
		LWB	52.26	54.75	56.46	52.85	56.04	58.17	53.38	57.05	59.53
		PD	0.38	0.70	1.28	0.59	1.03	1.89	0.82	1.34	2.49
	BF	0.15	0.08	0.12	0.19	0.11	0.13	0.24	0.13	0.15	
	50	TC	19.95	24.50	36.81	25.70	29.52	44.04	30.53	33.77	50.10
		SHC	19.95	20.20	18.98	25.70	25.36	23.29	30.53	30.05	27.14
		LDB	59.7	59.6	60.9	60.4	60.8	62.4	61.4	61.8	63.6
LWB		54.3	58.5	60.3	54.6	59.4	61.6	55.0	60.1	62.6	
PD		0.25	0.35	0.73	0.38	0.49	1.04	0.53	0.64	1.35	
BF	0.32	0.09	0.10	0.34	0.11	0.12	0.37	0.14	0.14		
95	40	TC	32.41	43.64	56.79	39.45	52.70	68.45	45.35	60.34	78.13
		SHC	29.20	28.03	26.84	36.67	34.67	32.59	43.36	40.61	37.55
		LDB	50.3	51.6	52.9	52.1	53.7	55.4	53.6	55.4	57.3
		LWB	49.0	50.8	52.5	50.2	52.5	54.7	51.3	53.9	56.5
		PD	0.78	1.40	2.34	1.17	2.07	3.45	1.55	2.73	4.53
	BF	0.09	0.09	0.00	0.11	0.11	0.18	0.14	0.13	0.18	
	45	TC	25.29	34.76	47.63	31.71	41.93	57.43	37.49	47.98	65.52
		SHC	25.26	24.27	23.07	31.71	30.20	28.21	37.49	35.57	32.68
		LDB	54.36	55.45	56.76	55.86	57.10	58.70	57.17	58.43	60.27
		LWB	52.09	54.51	56.22	52.73	55.84	57.97	53.28	56.87	59.37
		PD	0.43	0.81	1.48	0.67	1.18	2.17	0.94	1.56	2.86
	BF	0.13	0.08	0.12	0.19	0.11	0.14	0.23	0.13	0.15	
	50	TC	20.72	25.22	37.59	26.23	30.33	45.18	31.03	34.66	50.99
		SHC	20.72	20.49	19.26	26.23	25.67	23.69	31.03	30.38	27.44
		LDB	59.0	59.3	60.6	60.0	60.6	62.1	61.1	61.6	63.4
LWB		54.0	58.2	60.0	54.5	59.2	61.3	54.9	59.9	62.5	
PD		0.27	0.40	0.84	0.43	0.57	1.22	0.59	0.74	1.57	
BF	0.29	0.09	0.10	0.33	0.11	0.12	0.36	0.14	0.14		
105	40	TC	32.86	44.12	57.23	40.02	53.24	68.92	45.99	60.84	78.51
		SHC	29.41	28.24	27.03	36.93	34.90	32.78	43.67	40.82	37.70
		LDB	50.1	51.4	52.7	51.9	53.5	55.2	53.4	55.2	57.2
		LWB	48.7	50.6	52.3	50.0	52.4	54.6	51.1	53.8	56.4
		PD	0.91	1.62	2.69	1.36	2.39	3.95	1.81	3.15	5.17
	BF	0.09	0.09	0.00	0.11	0.11	0.18	0.14	0.13	0.18	
	45	TC	25.61	35.34	48.22	32.04	42.59	58.02	37.88	48.68	66.15
		SHC	25.54	24.51	23.30	32.04	30.47	28.44	37.88	35.85	32.91
		LDB	54.08	55.21	56.53	55.60	56.90	58.52	56.93	58.26	60.12
		LWB	51.95	54.27	55.99	52.63	55.64	57.80	53.18	56.71	59.23
		PD	0.49	0.93	1.71	0.77	1.37	2.51	1.09	1.81	3.30
	BF	0.13	0.08	0.12	0.18	0.11	0.14	0.22	0.13	0.16	
	50	TC	21.18	25.88	38.26	26.63	31.05	45.95	31.48	35.50	52.33
		SHC	21.18	20.75	19.50	26.63	25.95	23.97	31.48	30.71	27.91
		LDB	58.5	59.0	60.4	59.7	60.3	61.9	60.8	61.4	63.2
LWB		53.8	58.0	59.8	54.3	59.0	61.1	54.8	59.7	62.2	
PD		0.31	0.47	0.98	0.49	0.67	1.42	0.68	0.88	1.86	
BF	0.27	0.09	0.10	0.31	0.11	0.12	0.35	0.14	0.14		



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 16 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			1200			1600			2000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	42.90	57.80	75.19	52.14	69.68	90.46	59.85	79.60	103.01
		SHC	38.84	37.22	35.56	48.72	45.98	43.12	57.55	53.79	49.60
		LDB	50.5	51.8	53.2	52.2	53.9	55.6	53.7	55.5	57.5
		LWB	49.1	50.9	52.7	50.3	52.7	54.9	51.4	54.1	56.7
		PD	0.83	1.47	2.44	1.23	2.15	3.58	1.63	2.84	4.68
	BF	0.09	0.09	0.00	0.11	0.11	0.17	0.14	0.13	0.18	
	45	TC	33.41	45.98	63.00	42.07	55.35	75.78	49.69	63.20	86.36
		SHC	33.39	32.23	30.56	42.07	40.07	37.31	49.69	47.14	43.20
		LDB	54.63	55.60	56.96	56.01	57.25	58.89	57.32	58.58	60.45
		LWB	52.21	54.65	56.41	52.80	55.97	58.16	53.34	57.01	59.54
		PD	0.47	0.85	1.56	0.72	1.24	2.27	1.01	1.63	2.96
	BF	0.14	0.09	0.12	0.19	0.11	0.14	0.23	0.13	0.15	
	50	TC	26.80	33.09	49.56	34.51	39.87	59.48	41.01	45.52	67.25
		SHC	26.80	27.12	25.49	34.51	34.03	31.33	41.01	40.28	36.34
		LDB	59.6	59.5	60.8	60.3	60.7	62.3	61.3	61.7	63.6
LWB		54.3	58.4	60.2	54.6	59.3	61.5	55.0	60.0	62.6	
PD		0.31	0.44	0.89	0.46	0.62	1.28	0.64	0.79	1.64	
BF	0.31	0.09	0.10	0.34	0.11	0.12	0.37	0.14	0.14		
95	40	TC	43.52	58.44	75.81	52.88	70.41	91.10	60.67	80.37	103.63
		SHC	39.12	37.51	35.82	49.05	46.30	43.38	57.94	54.11	49.85
		LDB	50.3	51.6	53.0	52.0	53.7	55.4	53.5	55.4	57.4
		LWB	48.9	50.7	52.5	50.2	52.5	54.8	51.2	53.9	56.6
		PD	0.96	1.68	2.79	1.42	2.47	4.07	1.87	3.24	5.30
	BF	0.09	0.09	0.00	0.11	0.11	0.18	0.14	0.13	0.18	
	45	TC	33.98	46.75	63.84	42.53	56.25	76.66	50.22	64.20	87.23
		SHC	33.92	32.55	30.89	42.53	40.43	37.65	50.22	47.53	43.52
		LDB	54.23	55.36	56.71	55.74	57.04	58.70	57.08	58.40	60.30
		LWB	52.03	54.42	56.16	52.69	55.77	57.98	53.24	56.84	59.40
		PD	0.53	0.98	1.79	0.82	1.43	2.59	1.14	1.88	3.39
	BF	0.13	0.09	0.12	0.18	0.11	0.14	0.23	0.13	0.16	
	50	TC	27.84	34.10	50.54	35.24	40.91	60.61	41.67	46.66	68.97
		SHC	27.84	27.53	25.84	35.24	34.43	31.73	41.67	40.71	36.93
		LDB	58.8	59.2	60.5	59.9	60.5	62.1	61.0	61.5	63.3
LWB		54.0	58.1	59.9	54.4	59.1	61.3	54.8	59.8	62.3	
PD		0.34	0.50	1.03	0.53	0.71	1.48	0.72	0.91	1.92	
BF	0.29	0.09	0.10	0.32	0.11	0.12	0.36	0.14	0.14		
105	40	TC	44.07	59.00	76.30	53.53	71.04	91.60	61.39	80.99	104.04
		SHC	39.37	37.75	36.04	49.34	46.57	43.61	58.28	54.37	50.01
		LDB	50.1	51.4	52.8	51.8	53.5	55.3	53.4	55.3	57.3
		LWB	48.7	50.5	52.4	50.0	52.4	54.7	51.1	53.8	56.5
		PD	1.10	1.93	3.20	1.64	2.84	4.66	2.16	3.73	6.04
	BF	0.09	0.09	0.00	0.11	0.11	0.18	0.14	0.13	0.18	
	45	TC	34.39	47.48	64.54	42.94	57.10	77.47	50.69	65.13	88.08
		SHC	34.26	32.85	31.17	42.94	40.76	37.96	50.69	47.90	43.84
		LDB	53.97	55.14	56.50	55.51	56.85	58.53	56.86	58.23	60.16
		LWB	51.90	54.19	55.96	52.59	55.58	57.80	53.15	56.68	59.26
		PD	0.60	1.14	2.06	0.93	1.66	2.99	1.31	2.17	3.90
	BF	0.12	0.09	0.12	0.17	0.11	0.14	0.22	0.13	0.16	
	50	TC	28.44	34.95	51.44	35.77	41.92	61.58	42.23	47.76	69.98
		SHC	28.44	27.86	26.17	35.77	34.82	32.07	42.23	41.13	37.28
		LDB	58.4	58.9	60.3	59.6	60.2	61.9	60.7	61.3	63.1
LWB		53.8	57.9	59.7	54.3	58.9	61.1	54.7	59.6	62.2	
PD		0.39	0.58	1.18	0.60	0.83	1.72	0.83	1.07	2.23	
BF	0.27	0.09	0.10	0.31	0.11	0.12	0.35	0.14	0.14		



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 20 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			1500			2000			2500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	53.89	72.29	93.96	65.41	87.10	112.81	75.17	99.45	128.25
		SHC	48.67	46.55	44.44	61.02	57.49	53.80	72.15	67.24	61.81
		LDB	50.4	51.8	53.2	52.2	53.9	55.6	53.7	55.6	57.6
		LWB	49.0	50.9	52.7	50.3	52.7	55.0	51.3	54.1	56.8
		PD	0.92	1.60	2.65	1.35	2.35	3.85	1.78	3.08	5.01
		BF	0.09	0.09	0.00	0.11	0.11	0.17	0.14	0.13	0.17
	45	TC	41.98	57.67	78.77	52.77	69.41	94.54	62.34	79.18	107.51
		SHC	41.93	40.36	38.21	52.77	50.18	46.58	62.34	59.01	53.85
		LDB	54.51	55.55	56.95	55.94	57.22	58.93	57.26	58.57	60.53
		LWB	52.16	54.60	56.40	52.77	55.94	58.20	53.32	57.00	59.62
		PD	0.52	0.95	1.70	0.80	1.37	2.46	1.10	1.78	3.20
		BF	0.14	0.09	0.12	0.19	0.11	0.13	0.23	0.13	0.15
	50	TC	33.92	41.79	62.17	43.47	50.31	74.41	51.57	57.36	84.37
		SHC	33.92	34.07	31.94	43.47	42.72	39.19	51.57	50.54	45.54
		LDB	59.4	59.4	60.8	60.2	60.6	62.3	61.2	61.7	63.5
		LWB	54.2	58.3	60.1	54.5	59.2	61.5	54.9	59.9	62.6
		PD	0.34	0.49	0.99	0.52	0.69	1.40	0.71	0.87	1.79
		BF	0.30	0.09	0.10	0.33	0.11	0.12	0.36	0.14	0.14
95	40	TC	54.66	73.04	94.54	66.33	87.92	113.41	76.14	100.26	128.79
		SHC	49.02	46.88	44.69	61.44	57.84	54.05	72.60	67.58	62.03
		LDB	50.2	51.6	53.0	52.0	53.7	55.5	53.5	55.4	57.5
		LWB	48.8	50.7	52.6	50.1	52.5	54.9	51.2	54.0	56.7
		PD	1.05	1.84	3.02	1.55	2.69	4.37	2.04	3.51	5.66
		BF	0.09	0.09	0.00	0.11	0.11	0.17	0.14	0.13	0.17
	45	TC	42.60	58.57	79.64	53.33	70.46	95.53	62.96	80.34	108.57
		SHC	42.50	40.73	38.55	53.33	50.59	46.96	62.96	59.45	54.24
		LDB	54.17	55.33	56.74	55.69	57.03	58.76	57.03	58.41	60.38
		LWB	52.00	54.38	56.20	52.66	55.76	58.04	53.22	56.84	59.48
		PD	0.58	1.08	1.94	0.90	1.57	2.81	1.25	2.04	3.64
		BF	0.13	0.09	0.12	0.18	0.11	0.14	0.22	0.13	0.15
	50	TC	35.04	42.95	63.25	44.28	51.59	75.67	52.31	58.73	85.95
		SHC	35.04	34.52	32.33	44.28	43.20	39.64	52.31	51.04	46.08
		LDB	58.7	59.1	60.5	59.8	60.4	62.1	60.9	61.5	63.3
		LWB	53.9	58.0	59.9	54.4	59.0	61.3	54.8	59.8	62.4
		PD	0.39	0.56	1.12	0.58	0.79	1.61	0.80	1.01	2.08
		BF	0.28	0.09	0.10	0.32	0.11	0.12	0.36	0.14	0.14
105	40	TC	55.36	73.64	95.03	67.12	88.57	113.87	76.98	100.92	129.14
		SHC	49.34	47.14	44.90	61.80	58.12	54.26	72.99	67.85	62.18
		LDB	50.0	51.4	52.9	51.8	53.6	55.4	53.4	55.3	57.5
		LWB	48.6	50.6	52.4	50.0	52.4	54.8	51.1	53.9	56.7
		PD	1.21	2.10	3.43	1.78	3.06	4.97	2.36	4.00	6.40
		BF	0.09	0.09	0.00	0.11	0.11	0.17	0.14	0.13	0.18
	45	TC	43.12	59.39	80.39	53.83	71.40	96.39	63.52	81.38	109.47
		SHC	42.91	41.05	38.85	53.83	50.96	47.29	63.52	59.85	54.58
		LDB	53.91	55.13	56.56	55.46	56.86	58.61	56.83	58.26	60.26
		LWB	51.86	54.18	56.02	52.57	55.59	57.89	53.14	56.70	59.36
		PD	0.67	1.25	2.23	1.03	1.80	3.21	1.43	2.35	4.16
		BF	0.12	0.09	0.12	0.17	0.11	0.14	0.22	0.13	0.16
	50	TC	35.72	43.92	64.27	44.87	52.70	76.90	52.93	59.98	87.32
		SHC	35.72	34.89	32.70	44.87	43.61	40.07	52.93	51.50	46.56
		LDB	58.3	58.9	60.3	59.5	60.2	61.9	60.7	61.3	63.2
		LWB	53.7	57.8	59.7	54.3	58.8	61.1	54.7	59.6	62.2
		PD	0.43	0.65	1.29	0.66	0.91	1.86	0.91	1.18	2.40
		BF	0.27	0.09	0.10	0.31	0.11	0.12	0.35	0.14	0.14



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 30 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			2250			3000			3750		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	80.93	110.07	145.32	99.23	133.41	175.87	115.69	152.80	201.32
		SHC	75.60	72.31	69.22	95.55	90.19	84.68	113.78	106.16	98.13
		LDB	50.1	51.5	52.8	51.7	53.4	55.1	53.0	54.9	56.9
		LWB	49.3	51.1	52.6	50.5	52.7	54.7	51.3	54.1	56.4
		PD	0.30	0.55	0.95	0.45	0.82	1.40	0.61	1.09	1.86
		BF	0.05	0.04	0.08	0.07	0.05	0.08	0.10	0.07	0.09
	45	TC	64.93	84.80	118.35	81.44	101.92	142.36	96.31	116.18	162.42
		SHC	64.93	61.85	58.39	81.44	77.43	71.69	96.31	91.56	83.45
		LDB	54.33	55.65	57.10	55.85	57.14	58.92	57.11	58.34	60.34
		LWB	52.08	55.20	56.81	52.72	56.47	58.52	53.23	57.46	59.81
		PD	0.18	0.30	0.57	0.28	0.43	0.83	0.38	0.57	1.08
		BF	0.13	0.04	0.05	0.19	0.05	0.07	0.23	0.07	0.08
	50	TC	53.18	59.26	90.14	66.58	70.83	107.34	78.45	81.13	121.73
		SHC	53.18	51.94	48.01	66.58	65.34	59.15	78.45	77.58	69.18
		LDB	59.0	59.6	61.2	60.3	60.7	62.6	61.4	61.7	63.7
		LWB	54.0	59.0	60.9	54.5	59.9	62.2	55.0	60.5	63.2
		PD	0.12	0.15	0.31	0.18	0.20	0.43	0.24	0.26	0.55
		BF	0.29	0.04	0.04	0.33	0.07	0.06	0.37	0.09	0.07
95	40	TC	82.84	112.16	147.52	101.32	135.81	178.49	118.08	155.58	204.48
		SHC	76.51	73.21	70.14	96.64	91.18	85.74	115.12	107.29	99.37
		LDB	49.7	51.1	52.5	51.3	53.1	54.8	52.6	54.6	56.6
		LWB	49.0	50.7	52.2	50.2	52.5	54.4	51.0	53.8	56.1
		PD	0.35	0.64	1.09	0.53	0.95	1.62	0.72	1.26	2.15
		BF	0.04	0.04	0.09	0.07	0.05	0.09	0.09	0.07	0.09
	45	TC	65.75	86.96	120.82	82.65	104.48	145.35	97.87	119.43	165.91
		SHC	65.75	62.70	59.34	82.65	78.41	72.80	97.87	92.79	84.72
		LDB	54.01	55.31	56.72	55.50	56.85	58.59	56.74	58.05	60.04
		LWB	51.95	54.86	56.44	52.57	56.18	58.19	53.08	57.16	59.52
		PD	0.20	0.35	0.66	0.31	0.51	0.96	0.45	0.67	1.27
		BF	0.12	0.04	0.05	0.17	0.06	0.07	0.21	0.07	0.08
	50	TC	54.20	61.26	92.52	67.77	73.16	110.35	79.81	83.75	125.24
		SHC	54.20	52.68	48.85	67.77	66.23	60.18	79.81	78.67	70.36
		LDB	58.6	59.3	60.9	59.9	60.5	62.3	61.0	61.4	63.4
		LWB	53.9	58.7	60.6	54.4	59.6	61.9	54.8	60.3	62.9
		PD	0.13	0.17	0.35	0.20	0.23	0.50	0.27	0.30	0.66
		BF	0.28	0.04	0.05	0.32	0.06	0.06	0.36	0.09	0.08
105	40	TC	84.58	114.09	149.61	103.56	138.19	180.94	120.37	158.28	207.21
		SHC	77.33	74.04	71.03	97.73	92.18	86.74	116.34	108.39	100.44
		LDB	49.4	50.8	52.1	51.0	52.8	54.5	52.3	54.3	56.3
		LWB	48.7	50.4	51.9	49.9	52.2	54.1	50.8	53.5	55.8
		PD	0.41	0.75	1.27	0.63	1.12	1.88	0.84	1.47	2.49
		BF	0.04	0.04	0.09	0.07	0.06	0.09	0.09	0.07	0.09
	45	TC	66.81	88.92	123.05	83.92	107.03	148.34	99.41	122.34	168.99
		SHC	66.75	63.47	60.20	83.92	79.41	73.92	99.41	93.90	85.85
		LDB	53.61	55.01	56.38	55.12	56.56	58.26	56.38	57.79	59.77
		LWB	51.77	54.55	56.10	52.41	55.89	57.86	52.93	56.90	59.25
		PD	0.23	0.42	0.77	0.37	0.60	1.13	0.52	0.79	1.48
		BF	0.11	0.04	0.06	0.16	0.06	0.07	0.20	0.07	0.08
	50	TC	54.99	62.95	94.83	68.90	75.54	113.26	81.28	86.29	128.62
		SHC	54.99	53.29	49.66	68.90	67.11	61.18	81.28	79.67	71.50
		LDB	58.3	59.0	60.5	59.6	60.2	62.0	60.7	61.2	63.2
		LWB	53.7	58.5	60.2	54.3	59.4	61.6	54.7	60.1	62.6
		PD	0.15	0.19	0.41	0.23	0.27	0.60	0.31	0.36	0.78
		BF	0.27	0.04	0.05	0.31	0.06	0.06	0.35	0.09	0.08



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBB 40 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			3000			4000			5000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	100.64	137.70	181.89	122.44	166.17	220.08	141.84	190.30	251.66
		SHC	94.31	90.50	86.50	118.23	112.12	105.64	139.76	131.54	122.08
		LDB	51.3	52.6	53.9	53.1	54.6	56.1	54.5	56.1	57.9
		LWB	50.0	51.8	53.5	51.1	53.5	55.5	52.0	54.7	57.1
		PD	0.34	0.63	1.08	0.50	0.93	1.60	0.67	1.22	2.11
		BF	0.08	0.08	0.13	0.12	0.10	0.14	0.15	0.12	0.15
	45	TC	80.52	106.62	149.17	100.51	127.93	179.32	118.33	145.85	204.47
		SHC	80.52	77.62	73.41	100.51	96.60	89.85	118.33	113.72	104.25
		LDB	55.52	56.50	57.86	57.12	58.11	59.72	58.43	59.37	61.16
		LWB	52.59	55.64	57.36	53.25	56.90	59.03	53.78	57.85	60.29
		PD	0.20	0.34	0.66	0.31	0.49	0.95	0.42	0.65	1.25
		BF	0.17	0.07	0.09	0.23	0.10	0.12	0.27	0.12	0.14
	50	TC	66.16	74.66	113.60	82.33	88.78	135.31	96.75	100.90	153.36
		SHC	66.16	65.15	60.32	82.33	81.36	74.06	96.75	95.97	86.24
		LDB	59.9	60.3	61.8	61.3	61.6	63.3	62.4	62.6	64.4
		LWB	54.4	59.3	61.3	54.9	60.2	62.5	55.4	60.8	63.5
		PD	0.13	0.16	0.35	0.20	0.23	0.49	0.26	0.29	0.63
		BF	0.32	0.08	0.08	0.37	0.11	0.11	0.40	0.14	0.13
95	40	TC	102.74	140.06	184.39	124.91	169.13	223.09	144.48	193.64	255.18
		SHC	95.28	91.51	87.55	119.43	113.37	106.86	141.25	132.91	123.47
		LDB	51.0	52.3	53.6	52.8	54.3	55.9	54.2	55.9	57.7
		LWB	49.7	51.5	53.1	50.9	53.2	55.3	51.8	54.5	56.9
		PD	0.40	0.73	1.24	0.58	1.07	1.84	0.79	1.42	2.43
		BF	0.08	0.08	0.14	0.11	0.10	0.14	0.15	0.12	0.16
	45	TC	81.63	109.04	152.02	101.91	130.99	182.89	120.04	149.45	208.41
		SHC	81.63	78.56	74.50	101.91	97.78	91.18	120.04	115.08	105.68
		LDB	55.18	56.21	57.53	56.80	57.84	59.42	58.12	59.12	60.90
		LWB	52.45	55.35	57.03	53.12	56.63	58.73	53.65	57.60	60.04
		PD	0.22	0.40	0.76	0.35	0.59	1.12	0.49	0.76	1.45
		BF	0.16	0.07	0.10	0.22	0.10	0.12	0.26	0.12	0.14
	50	TC	67.22	77.03	116.64	83.73	91.84	138.87	98.44	104.26	157.44
		SHC	67.22	66.02	61.39	83.73	82.50	75.28	98.44	97.32	87.61
		LDB	59.6	60.0	61.5	60.9	61.3	63.0	62.1	62.4	64.2
		LWB	54.3	59.0	60.9	54.8	59.9	62.3	55.2	60.6	63.2
		PD	0.15	0.19	0.41	0.22	0.27	0.58	0.30	0.34	0.75
		BF	0.31	0.08	0.08	0.36	0.11	0.11	0.39	0.14	0.13
105	40	TC	104.80	142.30	186.77	127.34	171.84	225.84	147.29	196.71	258.15
		SHC	96.22	92.48	88.56	120.61	114.51	107.98	142.73	134.17	124.65
		LDB	50.7	52.0	53.3	52.5	54.0	55.6	54.0	55.6	57.5
		LWB	49.4	51.2	52.8	50.7	52.9	55.0	51.6	54.3	56.7
		PD	0.46	0.85	1.44	0.69	1.25	2.13	0.92	1.65	2.81
		BF	0.08	0.08	0.16	0.11	0.10	0.15	0.14	0.12	0.16
	45	TC	82.63	111.43	154.69	103.27	134.00	186.18	121.74	152.89	212.20
		SHC	82.63	79.51	75.53	103.27	98.95	92.41	121.74	116.41	107.07
		LDB	54.88	55.92	57.22	56.49	57.57	59.14	57.81	58.88	60.65
		LWB	52.32	55.06	56.72	52.99	56.37	58.46	53.52	57.37	59.79
		PD	0.26	0.47	0.88	0.41	0.68	1.30	0.57	0.89	1.70
		BF	0.15	0.08	0.10	0.21	0.10	0.12	0.25	0.12	0.14
	50	TC	68.23	79.28	119.48	85.02	94.79	142.32	100.08	107.53	161.46
		SHC	68.23	66.84	62.39	85.02	83.59	76.47	100.08	98.55	88.98
		LDB	59.3	59.8	61.2	60.6	61.1	62.8	61.8	62.1	63.9
		LWB	54.1	58.8	60.6	54.7	59.7	62.0	55.1	60.4	63.0
		PD	0.17	0.22	0.48	0.25	0.31	0.69	0.35	0.40	0.88
		BF	0.30	0.08	0.09	0.35	0.11	0.11	0.38	0.14	0.13



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBA 60 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			5000			6000			7000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
80	40	TC	205.96	267.19	335.43	231.37	298.71	373.83	253.57	326.19	406.99
		SHC	176.21	167.67	157.92	202.31	190.23	176.67	226.79	210.99	193.38
		LDB	47.9	49.5	51.4	49.2	51.1	53.3	50.4	52.6	55.0
		LWB	46.8	48.8	51.0	47.9	50.3	52.8	48.9	51.5	54.4
		PD	2.27	3.64	5.47	2.82	4.51	6.74	3.37	5.35	7.94
	BF	0.07	0.08	0.00	0.08	0.09	0.00	0.10	0.11	0.19	
	45	TC	162.78	223.07	291.13	185.52	249.86	324.94	206.64	273.17	354.31
		SHC	155.36	148.25	139.22	180.12	169.22	156.62	203.43	188.62	172.31
		LDB	51.69	53.08	54.81	52.60	54.35	56.35	53.49	55.52	57.72
		LWB	50.37	52.31	54.36	50.99	53.39	55.79	51.54	54.36	57.03
		PD	1.38	2.41	3.88	1.72	2.98	4.79	2.09	3.54	5.66
	BF	0.08	0.07	0.12	0.10	0.09	0.12	0.12	0.10	0.14	
	50	TC	122.89	172.52	241.58	147.28	194.44	270.41	169.74	213.37	295.15
		SHC	122.89	127.25	119.64	147.28	146.66	135.57	169.74	164.66	149.95
		LDB	57.6	56.9	58.4	57.6	57.8	59.6	57.9	58.6	60.6
LWB		53.5	56.0	57.9	53.5	56.7	58.9	53.6	57.4	59.9	
PD		0.88	1.44	2.57	1.14	1.78	3.17	1.42	2.11	3.74	
BF	0.24	0.08	0.09	0.24	0.09	0.11	0.25	0.10	0.12		
90	40	TC	206.15	266.73	334.30	230.96	297.61	371.87	252.99	324.54	404.32
		SHC	176.38	167.48	157.43	202.13	189.77	175.83	226.64	210.29	192.28
		LDB	47.8	49.6	51.5	49.2	51.2	53.4	50.5	52.7	55.1
		LWB	46.8	48.9	51.1	47.9	50.3	52.9	48.9	51.6	54.5
		PD	2.50	4.02	6.03	3.12	4.98	7.41	3.72	5.88	8.70
	BF	0.06	0.08	0.00	0.08	0.09	0.00	0.09	0.11	0.18	
	45	TC	164.81	223.64	291.21	186.76	249.77	324.37	207.35	272.65	352.97
		SHC	156.82	148.58	139.27	181.11	169.24	156.40	204.12	188.45	171.81
		LDB	51.42	53.02	54.80	52.45	54.35	56.39	53.40	55.54	57.79
		LWB	50.21	52.26	54.36	50.91	53.40	55.82	51.50	54.39	57.10
		PD	1.52	2.67	4.29	1.91	3.29	5.28	2.31	3.91	6.22
	BF	0.07	0.07	0.12	0.09	0.09	0.12	0.11	0.10	0.13	
	50	TC	129.27	175.13	242.96	152.89	196.22	270.81	173.75	214.44	295.09
		SHC	129.27	128.62	120.25	152.89	147.60	135.78	173.75	165.25	149.98
		LDB	56.4	56.7	58.3	56.7	57.6	59.5	57.4	58.6	60.6
LWB		53.0	55.8	57.8	53.1	56.6	58.9	53.3	57.3	59.9	
PD		0.97	1.59	2.83	1.25	1.96	3.49	1.56	2.32	4.12	
BF	0.20	0.07	0.09	0.21	0.09	0.11	0.23	0.10	0.12		
100	40	TC	205.75	265.70	332.50	230.22	296.04	369.29	251.90	322.45	401.01
		SHC	176.22	167.03	156.64	201.82	189.09	174.75	226.17	209.41	190.92
		LDB	47.9	49.6	51.6	49.3	51.3	53.6	50.5	52.8	55.3
		LWB	46.9	48.9	51.2	48.0	50.4	53.1	49.0	51.7	54.7
		PD	2.78	4.46	6.67	3.46	5.50	8.17	4.12	6.49	9.56
	BF	0.06	0.08	0.00	0.08	0.09	0.00	0.09	0.10	0.17	
	45	TC	165.39	223.45	290.48	186.93	249.16	322.85	207.23	271.62	350.94
		SHC	157.23	148.53	138.98	181.35	169.01	155.81	204.16	188.05	171.04
		LDB	51.35	53.03	54.86	52.41	54.38	56.48	53.40	55.59	57.89
		LWB	50.16	52.28	54.41	50.90	53.43	55.91	51.51	54.44	57.20
		PD	1.69	2.96	4.76	2.12	3.66	5.85	2.57	4.33	6.86
	BF	0.07	0.07	0.12	0.09	0.09	0.13	0.11	0.10	0.13	
	50	TC	133.47	176.15	243.08	155.50	196.62	270.55	175.41	214.59	294.43
		SHC	133.47	129.15	120.32	155.50	147.83	135.71	175.41	165.39	149.76
		LDB	55.7	56.6	58.3	56.3	57.6	59.5	57.1	58.5	60.7
LWB		52.7	55.8	57.8	52.9	56.6	58.9	53.3	57.3	59.9	
PD		1.07	1.76	3.15	1.39	2.18	3.87	1.73	2.57	4.56	
BF	0.18	0.07	0.09	0.20	0.08	0.10	0.23	0.10	0.12		



HB DIRECT EXPANSION COOLING CAPACITIES R-22 COILS

HBA 80 Cooling Capacity – High Capacity DX Coils

SCT (F)	SET (F)		CFM @ 80 F EDB								
			7000			8000			9000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	238.88	309.20	388.45	257.35	332.08	416.37	274.67	352.46	441.04
		SHC	215.37	200.91	184.68	236.36	218.88	199.13	257.07	235.60	212.31
		LDB	51.9	53.9	56.1	53.0	55.1	57.5	53.9	56.2	58.7
		LWB	49.7	52.5	55.3	50.5	53.5	56.6	51.2	54.3	57.6
		PD	1.85	3.04	4.63	2.14	3.49	5.32	2.44	3.93	5.94
		BF	0.14	0.14	0.22	0.15	0.16	0.21	0.17	0.17	0.22
	45	TC	193.90	255.89	333.71	212.14	274.55	357.59	229.83	291.10	378.90
		SHC	192.43	178.57	162.92	212.14	195.11	176.20	229.83	210.54	188.45
		LDB	54.93	56.83	58.95	55.82	57.85	60.08	56.71	58.76	61.07
		LWB	52.26	55.28	58.06	52.70	56.07	59.05	53.07	56.76	59.90
		PD	1.10	1.92	3.18	1.32	2.21	3.64	1.55	2.48	4.08
		BF	0.16	0.14	0.17	0.18	0.15	0.18	0.21	0.17	0.20
	50	TC	164.17	197.71	275.14	180.32	212.13	294.58	195.36	225.36	311.92
		SHC	164.17	155.47	140.97	180.32	170.52	152.94	195.36	184.90	164.04
		LDB	58.6	59.8	61.8	59.4	60.7	62.7	60.2	61.4	63.5
		LWB	53.9	58.2	60.8	54.2	58.8	61.6	54.5	59.2	62.3
		PD	0.72	1.07	2.00	0.88	1.23	2.29	1.03	1.39	2.57
		BF	0.28	0.14	0.15	0.31	0.16	0.17	0.33	0.17	0.19
95	40	TC	238.74	308.60	387.34	257.08	331.28	414.90	274.33	351.43	439.25
		SHC	215.31	200.66	184.22	236.23	218.55	198.55	256.91	235.18	211.61
		LDB	51.9	53.9	56.2	53.1	55.2	57.5	54.0	56.3	58.7
		LWB	49.7	52.5	55.4	50.5	53.5	56.6	51.2	54.4	57.7
		PD	2.06	3.37	5.13	2.39	3.87	5.86	2.71	4.35	6.54
		BF	0.14	0.14	0.22	0.15	0.16	0.21	0.17	0.17	0.22
	45	TC	194.07	255.86	333.04	212.22	274.43	357.00	229.87	290.85	377.99
		SHC	192.53	178.56	162.67	212.22	195.07	176.00	229.87	210.45	188.14
		LDB	54.92	56.83	58.98	55.81	57.86	60.11	56.71	58.77	61.10
		LWB	52.25	55.28	58.09	52.70	56.08	59.08	53.07	56.77	59.94
		PD	1.24	2.14	3.52	1.48	2.46	4.04	1.73	2.76	4.52
		BF	0.16	0.14	0.17	0.18	0.15	0.18	0.21	0.17	0.20
	50	TC	164.38	198.09	275.27	180.53	212.51	294.59	195.54	225.70	311.84
		SHC	164.38	155.62	141.03	180.53	170.66	152.95	195.54	185.03	164.03
		LDB	58.6	59.8	61.8	59.4	60.6	62.7	60.2	61.3	63.5
		LWB	53.9	58.2	60.8	54.2	58.7	61.6	54.5	59.2	62.3
		PD	0.81	1.20	2.23	0.98	1.38	2.55	1.15	1.55	2.86
		BF	0.28	0.14	0.15	0.30	0.16	0.17	0.33	0.17	0.19
105	40	TC	238.45	307.76	385.84	256.64	330.17	413.03	273.79	350.07	436.97
		SHC	215.20	200.31	183.60	236.05	218.10	197.80	256.67	234.63	210.72
		LDB	52.0	54.0	56.3	53.1	55.2	57.6	54.0	56.3	58.8
		LWB	49.8	52.5	55.5	50.5	53.5	56.7	51.2	54.4	57.8
		PD	2.31	3.74	5.68	2.66	4.30	6.48	3.02	4.81	7.22
		BF	0.14	0.14	0.21	0.15	0.16	0.21	0.17	0.17	0.22
	45	TC	194.19	255.66	332.35	212.25	274.14	356.09	229.82	290.36	376.82
		SHC	192.61	178.49	162.42	212.25	194.95	175.68	229.82	210.25	187.73
		LDB	54.91	56.84	59.01	55.81	57.87	60.14	56.71	58.79	61.14
		LWB	52.24	55.29	58.13	52.70	56.09	59.12	53.07	56.79	59.98
		PD	1.39	2.39	3.92	1.65	2.75	4.48	1.94	3.08	5.01
		BF	0.16	0.14	0.17	0.18	0.15	0.18	0.21	0.17	0.19
	50	TC	164.56	198.60	275.18	180.62	212.75	294.48	195.66	225.87	311.48
		SHC	164.56	155.85	141.00	180.62	170.75	152.93	195.66	185.10	163.92
		LDB	58.6	59.8	61.8	59.4	60.6	62.7	60.2	61.3	63.5
		LWB	53.8	58.1	60.8	54.2	58.7	61.6	54.5	59.2	62.3
		PD	0.91	1.34	2.50	1.10	1.54	2.85	1.29	1.74	3.19
		BF	0.28	0.14	0.15	0.30	0.16	0.17	0.33	0.17	0.19



COOLING CAPACITY STANDARD CAPACITY R-410A COILS

HBB 04

SCT (F)	SET (F)		CFM @ 80 F EDB								
			300			400			500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	12.43	16.07	20.18	14.89	19.16	23.93	16.89	21.64	26.94
		SHC	10.39	9.94	9.44	12.81	12.07	11.24	14.94	13.89	12.72
		LDB	48.4	49.9	51.5	50.8	52.6	54.6	52.7	54.7	57.0
		LWB	46.7	48.8	51.0	48.5	51.0	53.8	49.9	52.8	55.9
		PD	1.95	3.21	4.90	2.82	4.58	6.87	3.65	5.81	8.65
	BF	0.11	0.13	0.00	0.14	0.16	0.00	0.18	0.19	0.00	
	45	TC	9.91	13.52	17.53	11.94	16.15	20.88	13.74	18.25	23.48
		SHC	9.21	8.80	8.31	11.43	10.76	9.98	13.44	12.45	11.35
		LDB	52.05	53.38	54.96	53.94	55.57	57.43	55.48	57.37	59.47
		LWB	50.20	52.15	54.30	51.44	53.91	56.52	52.35	55.30	58.31
		PD	1.13	2.06	3.41	1.64	2.97	4.80	2.17	3.80	6.06
	BF	0.11	0.12	0.23	0.15	0.15	0.22	0.19	0.19	0.23	
	50	TC	7.85	10.74	14.72	9.85	12.83	17.49	11.59	14.50	19.67
		SHC	7.85	7.64	7.18	9.85	9.41	8.67	11.59	10.95	9.92
		LDB	56.2	56.9	58.4	57.6	58.7	60.4	58.9	60.1	62.1
LWB		52.9	55.6	57.6	53.4	56.9	59.4	54.0	57.9	60.8	
PD		0.66	1.20	2.20	1.01	1.71	3.12	1.39	2.21	3.95	
BF	0.20	0.12	0.15	0.24	0.15	0.18	0.29	0.18	0.21		
95	40	TC	12.42	16.03	20.10	14.85	19.07	23.78	16.86	21.49	26.80
		SHC	10.38	9.92	9.41	12.79	12.03	11.17	14.93	13.83	12.66
		LDB	48.4	50.0	51.6	50.8	52.7	54.7	52.7	54.9	57.1
		LWB	46.8	48.9	51.1	48.5	51.1	53.9	49.9	52.9	56.0
		PD	2.25	3.70	5.62	3.25	5.23	7.81	4.20	6.61	9.83
	BF	0.11	0.13	0.00	0.14	0.16	0.00	0.18	0.19	0.00	
	45	TC	9.91	13.52	17.54	11.95	16.10	20.79	13.72	18.17	23.31
		SHC	9.21	8.80	8.31	11.44	10.74	9.94	13.43	12.42	11.28
		LDB	52.03	53.38	54.95	53.93	55.61	57.52	55.50	57.43	59.59
		LWB	50.20	52.16	54.30	51.43	53.95	56.60	52.37	55.36	58.42
		PD	1.31	2.39	3.92	1.90	3.41	5.49	2.50	4.35	6.88
	BF	0.11	0.12	0.24	0.15	0.15	0.22	0.19	0.18	0.23	
	50	TC	7.92	10.76	14.71	9.87	12.82	17.44	11.60	14.47	19.57
		SHC	7.92	7.65	7.18	9.87	9.41	8.65	11.60	10.94	9.88
		LDB	56.0	56.9	58.4	57.5	58.7	60.5	58.8	60.1	62.1
LWB		52.8	55.6	57.6	53.4	56.9	59.4	54.0	57.9	60.9	
PD		0.76	1.39	2.54	1.17	1.98	3.59	1.61	2.54	4.51	
BF	0.19	0.12	0.15	0.24	0.15	0.18	0.29	0.18	0.20		
105	40	TC	12.39	15.96	20.00	14.78	18.95	23.61	16.76	21.29	26.61
		SHC	10.37	9.89	9.36	12.76	11.98	11.10	14.89	13.75	12.58
		LDB	48.5	50.0	51.8	50.9	52.8	54.9	52.8	55.0	57.2
		LWB	46.8	48.9	51.2	48.6	51.2	54.1	50.0	53.1	56.1
		PD	2.62	4.30	6.49	3.76	6.02	8.96	4.84	7.55	11.23
	BF	0.11	0.13	0.00	0.14	0.16	0.00	0.18	0.19	0.00	
	45	TC	9.91	13.49	17.49	11.93	16.03	20.66	13.68	18.05	23.10
		SHC	9.21	8.79	8.29	11.43	10.71	9.89	13.42	12.38	11.20
		LDB	52.04	53.42	55.02	53.95	55.68	57.64	55.52	57.51	59.74
		LWB	50.20	52.19	54.36	51.45	54.01	56.71	52.39	55.44	58.56
		PD	1.53	2.78	4.56	2.21	3.95	6.32	2.91	5.00	7.85
	BF	0.11	0.12	0.23	0.15	0.15	0.21	0.19	0.18	0.23	
	50	TC	7.94	10.76	14.68	9.88	12.80	17.34	11.60	14.43	19.46
		SHC	7.94	7.65	7.17	9.88	9.40	8.62	11.60	10.93	9.84
		LDB	55.9	56.9	58.4	57.5	58.7	60.5	58.8	60.2	62.2
LWB		52.8	55.5	57.7	53.4	56.9	59.5	54.0	58.0	60.9	
PD		0.88	1.62	2.96	1.37	2.30	4.14	1.89	2.94	5.17	
BF	0.19	0.12	0.15	0.24	0.15	0.18	0.29	0.18	0.20		



COOLING CAPACITY STANDARD CAPACITY R-410A COILS

HBB 06

SCT (F)	SET (F)		CFM @ 80 F EDB								
			450			600			750		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	16.29	21.77	28.06	19.62	26.09	33.46	22.44	29.61	37.83
		SHC	14.41	13.83	13.22	17.86	16.90	15.85	20.94	19.57	18.07
		LDB	50.8	52.0	53.4	52.9	54.4	56.1	54.6	56.3	58.2
		LWB	48.9	50.8	52.8	50.3	52.7	55.2	51.4	54.2	57.1
		PD	0.83	1.50	2.49	1.24	2.20	3.58	1.64	2.86	4.60
		BF	0.12	0.13	0.00	0.15	0.16	0.27	0.19	0.19	0.25
	45	TC	12.65	17.47	23.63	15.63	20.88	28.14	18.35	23.73	31.84
		SHC	12.54	11.98	11.38	15.62	14.72	13.72	18.35	17.14	15.73
		LDB	54.56	55.80	57.10	56.27	57.73	59.32	57.71	59.27	61.06
		LWB	52.10	54.46	56.39	52.90	55.92	58.34	53.51	57.03	59.82
		PD	0.45	0.85	1.56	0.69	1.25	2.26	0.96	1.63	2.92
		BF	0.15	0.12	0.16	0.20	0.16	0.19	0.25	0.19	0.22
	50	TC	10.43	12.96	18.92	12.99	15.44	22.48	15.25	17.50	25.44
		SHC	10.43	10.17	9.56	12.99	12.57	11.60	15.25	14.70	13.37
		LDB	58.9	59.5	60.8	60.3	61.0	62.5	61.5	62.2	63.9
		LWB	54.0	58.0	59.9	54.6	59.0	61.4	55.0	59.8	62.5
		PD	0.28	0.43	0.89	0.43	0.61	1.28	0.59	0.79	1.65
		BF	0.29	0.12	0.14	0.33	0.16	0.18	0.37	0.19	0.21
95	40	TC	16.52	21.98	28.24	19.87	26.29	33.63	22.70	29.79	37.97
		SHC	14.51	13.92	13.29	17.97	16.99	15.93	21.05	19.64	18.13
		LDB	50.6	51.9	53.2	52.7	54.3	56.0	54.4	56.2	58.2
		LWB	48.7	50.6	52.7	50.2	52.6	55.1	51.3	54.2	57.1
		PD	1.00	1.79	2.94	1.48	2.61	4.21	1.97	3.37	5.39
		BF	0.12	0.13	0.00	0.15	0.16	0.00	0.19	0.19	0.25
	45	TC	12.83	17.72	23.86	15.82	21.18	28.39	18.52	24.05	32.10
		SHC	12.67	12.08	11.47	15.77	14.83	13.82	18.52	17.27	15.83
		LDB	54.30	55.59	56.92	56.04	57.55	59.17	57.50	59.11	60.94
		LWB	51.95	54.25	56.21	52.78	55.74	58.20	53.42	56.88	59.70
		PD	0.53	1.03	1.86	0.83	1.50	2.68	1.14	1.97	3.44
		BF	0.14	0.12	0.16	0.19	0.16	0.19	0.24	0.19	0.22
	50	TC	10.61	13.25	19.19	13.18	15.77	22.82	15.45	17.87	25.83
		SHC	10.61	10.28	9.67	13.18	12.69	11.72	15.45	14.84	13.51
		LDB	58.5	59.2	60.6	60.0	60.8	62.4	61.2	62.1	63.7
		LWB	53.8	57.8	59.7	54.4	58.8	61.2	54.9	59.7	62.4
		PD	0.33	0.51	1.07	0.51	0.73	1.54	0.70	0.96	1.99
		BF	0.27	0.12	0.14	0.32	0.16	0.18	0.37	0.19	0.21
105	40	TC	16.72	22.16	28.37	20.08	26.47	33.75	22.99	29.95	38.03
		SHC	14.60	14.00	13.35	18.06	17.07	15.97	21.19	19.71	18.15
		LDB	50.4	51.7	53.1	52.5	54.1	55.9	54.3	56.1	58.1
		LWB	48.5	50.5	52.5	50.0	52.5	55.1	51.1	54.1	57.0
		PD	1.22	2.15	3.50	1.79	3.11	4.97	2.38	4.00	6.31
		BF	0.12	0.13	0.00	0.16	0.16	0.00	0.19	0.19	0.25
	45	TC	13.01	17.95	24.07	15.98	21.44	28.62	18.68	24.32	32.34
		SHC	12.78	12.18	11.56	15.90	14.94	13.91	18.68	17.37	15.92
		LDB	54.07	55.40	56.74	55.84	57.39	59.03	57.31	58.99	60.82
		LWB	51.80	54.06	56.05	52.68	55.58	58.07	53.34	56.76	59.60
		PD	0.64	1.25	2.24	0.99	1.81	3.20	1.37	2.36	4.09
		BF	0.14	0.12	0.16	0.19	0.16	0.19	0.23	0.19	0.22
	50	TC	10.74	13.52	19.46	13.33	16.08	23.15	15.62	18.21	26.15
		SHC	10.74	10.38	9.76	13.33	12.80	11.84	15.62	14.96	13.62
		LDB	58.2	59.0	60.4	59.7	60.6	62.2	61.0	61.9	63.6
		LWB	53.7	57.6	59.5	54.3	58.7	61.1	54.9	59.5	62.2
		PD	0.39	0.63	1.30	0.61	0.90	1.86	0.85	1.18	2.39
		BF	0.26	0.12	0.14	0.32	0.16	0.18	0.36	0.20	0.21



COOLING CAPACITY STANDARD CAPACITY R-410A COILS

HBB 08

SCT (F)	SET (F)		CFM @ 80 F EDB								
			600			800			1000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	21.77	28.23	35.57	25.77	33.17	41.55	28.96	37.12	46.15
		SHC	18.73	17.76	16.69	22.88	21.32	19.63	26.49	24.37	22.01
		LDB	51.5	53.1	54.8	53.9	55.8	57.8	55.8	57.9	60.1
		LWVB	48.9	51.4	54.0	50.5	53.5	56.6	51.8	55.1	58.6
		PD	1.07	1.77	2.76	1.50	2.46	3.75	1.90	3.07	4.61
		BF	0.17	0.18	0.00	0.21	0.22	0.00	0.24	0.26	0.33
	45	TC	17.30	23.48	30.48	20.69	27.56	35.49	23.81	30.83	39.48
		SHC	16.60	15.68	14.60	20.41	18.93	17.24	23.81	21.74	19.47
		LDB	54.76	56.26	57.99	56.74	58.51	60.51	58.29	60.26	62.40
		LWVB	51.83	54.36	57.00	52.97	56.04	59.18	53.74	57.30	60.76
		PD	0.63	1.13	1.85	0.88	1.55	2.53	1.16	1.95	3.12
		BF	0.18	0.18	0.22	0.22	0.22	0.25	0.27	0.25	0.28
	50	TC	14.07	18.39	25.24	17.39	21.57	29.37	20.24	24.13	32.72
		SHC	14.07	13.59	12.56	17.39	16.53	14.93	20.24	19.10	16.96
		LDB	58.6	59.4	61.1	60.2	61.2	63.1	61.5	62.7	64.7
		LWVB	53.9	57.4	59.9	54.5	58.6	61.6	55.1	59.6	62.9
		PD	0.40	0.66	1.18	0.59	0.89	1.60	0.78	1.11	1.97
		BF	0.28	0.18	0.19	0.33	0.22	0.23	0.38	0.25	0.27
95	40	TC	21.78	28.20	35.50	25.76	33.08	41.36	28.99	36.95	45.85
		SHC	18.74	17.74	16.66	22.88	21.28	19.55	26.51	24.30	21.90
		LDB	51.5	53.1	54.9	53.9	55.8	57.9	55.8	57.9	60.2
		LWVB	48.9	51.4	54.0	50.5	53.5	56.7	51.8	55.1	58.7
		PD	1.23	2.03	3.15	1.72	2.81	4.26	2.18	3.49	5.21
		BF	0.17	0.18	0.00	0.21	0.22	0.00	0.24	0.26	0.32
	45	TC	17.33	23.48	30.37	20.73	27.52	35.40	23.82	30.75	39.38
		SHC	16.62	15.68	14.55	20.43	18.91	17.21	23.82	21.71	19.43
		LDB	54.74	56.25	58.05	56.71	58.53	60.55	58.28	60.28	62.44
		LWVB	51.82	54.36	57.07	52.95	56.06	59.22	53.74	57.33	60.79
		PD	0.71	1.29	2.12	1.01	1.77	2.88	1.33	2.22	3.54
		BF	0.18	0.18	0.22	0.22	0.22	0.25	0.27	0.25	0.28
	50	TC	14.21	18.46	25.19	17.47	21.62	29.35	20.29	24.16	32.70
		SHC	14.21	13.63	12.54	17.47	16.55	14.93	20.29	19.11	16.96
		LDB	58.4	59.4	61.1	60.1	61.2	63.1	61.5	62.7	64.7
		LWVB	53.8	57.3	60.0	54.5	58.6	61.7	55.0	59.5	62.9
		PD	0.45	0.74	1.34	0.67	1.01	1.82	0.89	1.26	2.25
		BF	0.27	0.17	0.19	0.33	0.22	0.23	0.37	0.25	0.27
105	40	TC	21.77	28.12	35.36	25.72	32.93	41.10	28.91	36.71	45.43
		SHC	18.73	17.71	16.60	22.85	21.22	19.45	26.46	24.20	21.74
		LDB	51.5	53.2	54.9	53.9	55.9	58.0	55.9	58.0	60.3
		LWVB	48.9	51.4	54.1	50.5	53.6	56.8	51.8	55.2	58.8
		PD	1.42	2.35	3.62	1.99	3.22	4.87	2.52	3.99	5.93
		BF	0.17	0.18	0.00	0.21	0.22	0.00	0.24	0.25	0.32
	45	TC	17.38	23.43	30.31	20.74	27.43	35.30	23.81	30.65	39.19
		SHC	16.64	15.66	14.53	20.43	18.88	17.17	23.81	21.67	19.36
		LDB	54.70	56.28	58.08	56.71	58.57	60.59	58.28	60.32	62.50
		LWVB	51.78	54.38	57.10	52.95	56.10	59.26	53.74	57.37	60.86
		PD	0.83	1.49	2.45	1.17	2.04	3.30	1.54	2.56	4.05
		BF	0.18	0.18	0.22	0.22	0.22	0.25	0.27	0.25	0.28
	50	TC	14.26	18.47	25.19	17.50	21.63	29.33	20.30	24.16	32.62
		SHC	14.26	13.63	12.55	17.50	16.55	14.92	20.30	19.11	16.94
		LDB	58.3	59.4	61.1	60.1	61.2	63.1	61.5	62.7	64.7
		LWVB	53.8	57.3	60.0	54.5	58.6	61.7	55.0	59.5	62.9
		PD	0.52	0.85	1.55	0.77	1.17	2.09	1.02	1.46	2.59
		BF	0.27	0.17	0.19	0.33	0.22	0.23	0.37	0.25	0.27



COOLING CAPACITY STANDARD CAPACITY R-410A COILS

HBB I2

SCT (F)	SET (F)		CFM @ 80 F EDB								
			900			1200			1500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	32.82	42.41	53.33	38.78	49.96	62.53	43.82	56.01	69.72
		SHC	28.19	26.67	25.04	34.38	32.09	29.55	39.96	36.72	33.24
		LDB	51.4	53.0	54.8	53.8	55.7	57.7	55.7	57.7	59.9
		LWVB	48.8	51.3	53.9	50.4	53.4	56.5	51.7	55.0	58.4
		PD	1.04	1.70	2.61	1.44	2.35	3.55	1.84	2.93	4.38
		BF	0.16	0.18	0.00	0.21	0.22	0.00	0.24	0.25	0.32
	45	TC	25.96	35.30	45.83	31.17	41.59	53.74	35.84	46.63	60.01
		SHC	24.91	23.56	21.94	30.68	28.52	26.06	35.84	32.81	29.50
		LDB	54.71	56.17	57.90	56.64	58.37	60.33	58.17	60.10	62.19
		LWVB	51.81	54.30	56.93	52.91	55.95	59.01	53.69	57.20	60.58
		PD	0.62	1.09	1.78	0.87	1.50	2.43	1.13	1.88	3.01
		BF	0.17	0.17	0.22	0.22	0.22	0.25	0.26	0.25	0.28
	50	TC	20.88	27.63	37.87	26.07	32.54	44.31	30.42	36.46	49.50
		SHC	20.88	20.41	18.85	26.07	24.89	22.49	30.42	28.79	25.61
		LDB	58.8	59.4	61.0	60.2	61.1	63.0	61.5	62.6	64.6
		LWVB	54.0	57.3	59.9	54.5	58.6	61.6	55.0	59.5	62.8
		PD	0.40	0.64	1.13	0.58	0.87	1.55	0.76	1.08	1.91
		BF	0.28	0.17	0.19	0.33	0.22	0.23	0.37	0.25	0.27
95	40	TC	32.84	42.40	53.31	38.78	49.87	62.33	43.78	55.83	69.36
		SHC	28.20	26.67	25.03	34.38	32.05	29.47	39.93	36.65	33.10
		LDB	51.3	53.0	54.8	53.8	55.7	57.7	55.7	57.8	60.0
		LWVB	48.8	51.3	53.9	50.4	53.4	56.6	51.7	55.0	58.5
		PD	1.19	1.94	2.98	1.65	2.68	4.02	2.09	3.33	4.94
		BF	0.16	0.18	0.00	0.21	0.22	0.00	0.24	0.25	0.32
	45	TC	26.09	35.38	45.86	31.25	41.61	53.67	35.88	46.58	59.84
		SHC	25.00	23.59	21.95	30.73	28.53	26.03	35.88	32.79	29.44
		LDB	54.62	56.13	57.89	56.60	58.37	60.35	58.14	60.11	62.23
		LWVB	51.76	54.27	56.92	52.88	55.94	59.03	53.68	57.21	60.61
		PD	0.69	1.25	2.03	0.99	1.71	2.76	1.28	2.14	3.40
		BF	0.17	0.17	0.22	0.22	0.22	0.25	0.26	0.25	0.28
	50	TC	21.27	27.81	37.93	26.25	32.66	44.30	30.54	36.52	49.45
		SHC	21.27	20.50	18.88	26.25	24.94	22.50	30.54	28.81	25.60
		LDB	58.4	59.3	61.0	60.0	61.1	63.0	61.4	62.5	64.6
		LWVB	53.8	57.3	59.9	54.5	58.5	61.6	55.0	59.5	62.8
		PD	0.44	0.73	1.29	0.65	0.99	1.76	0.86	1.23	2.18
		BF	0.27	0.17	0.19	0.32	0.21	0.23	0.37	0.25	0.26
105	40	TC	32.84	42.33	53.19	38.73	49.73	62.04	43.68	55.57	68.87
		SHC	28.20	26.64	24.98	34.35	32.00	29.35	39.88	36.55	32.90
		LDB	51.3	53.0	54.8	53.8	55.7	57.8	55.7	57.8	60.1
		LWVB	48.8	51.3	54.0	50.5	53.5	56.7	51.7	55.1	58.6
		PD	1.37	2.24	3.42	1.91	3.07	4.59	2.41	3.80	5.61
		BF	0.16	0.18	0.00	0.21	0.22	0.00	0.24	0.25	0.32
	45	TC	26.13	35.40	45.82	31.29	41.55	53.54	35.88	46.45	59.55
		SHC	25.02	23.61	21.94	30.75	28.51	25.98	35.88	32.74	29.33
		LDB	54.60	56.12	57.90	56.59	58.38	60.38	58.15	60.15	62.29
		LWVB	51.74	54.26	56.93	52.87	55.96	59.07	53.68	57.24	60.67
		PD	0.80	1.44	2.35	1.13	1.97	3.17	1.48	2.46	3.88
		BF	0.17	0.17	0.22	0.22	0.22	0.25	0.26	0.25	0.28
	50	TC	21.42	27.87	37.87	26.33	32.68	44.19	30.59	36.52	49.29
		SHC	21.42	20.52	18.86	26.33	24.95	22.47	30.59	28.81	25.56
		LDB	58.3	59.3	61.0	60.0	61.1	63.1	61.4	62.5	64.6
		LWVB	53.7	57.2	59.9	54.4	58.5	61.6	55.0	59.5	62.8
		PD	0.51	0.83	1.49	0.74	1.13	2.01	0.99	1.40	2.49
		BF	0.27	0.17	0.19	0.32	0.21	0.23	0.37	0.25	0.26



COOLING CAPACITY STANDARD CAPACITY R-410A COILS

HBB 16

SCT (F)	SET (F)		CFM @ 80 F EDB								
			1200			1600			2000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	43.30	55.61	69.65	50.76	64.87	80.88	56.85	72.05	90.15
		SHC	37.44	35.18	32.74	45.49	42.08	38.34	52.65	47.91	43.16
		LDB	51.5	53.3	55.3	54.0	56.1	58.3	56.0	58.2	60.5
		LWB	49.0	51.6	54.4	50.7	53.8	57.1	52.0	55.5	58.9
		PD	2.23	3.57	5.36	3.04	4.80	7.11	3.78	5.86	8.69
	BF	0.16	0.18	0.00	0.20	0.22	0.35	0.24	0.25	0.32	
	45	TC	34.59	46.70	60.38	41.33	54.48	69.96	47.50	60.62	77.33
		SHC	33.32	31.31	28.95	40.85	37.69	34.08	47.50	43.20	38.31
		LDB	54.68	56.30	58.17	56.70	58.59	60.73	58.32	60.37	62.67
		LWB	51.84	54.44	57.17	52.98	56.18	59.38	53.76	57.47	61.01
		PD	1.31	2.33	3.74	1.84	3.15	4.96	2.42	3.87	6.00
	BF	0.17	0.17	0.22	0.22	0.21	0.25	0.27	0.25	0.28	
	50	TC	28.46	36.91	50.33	35.01	43.08	58.37	40.60	47.97	64.63
		SHC	28.46	27.33	25.09	35.01	33.15	29.77	40.60	38.24	33.71
		LDB	58.4	59.3	61.1	60.0	61.2	63.2	61.5	62.6	64.8
LWB		53.8	57.3	60.0	54.5	58.6	61.7	55.0	59.6	63.0	
PD		0.84	1.36	2.43	1.23	1.84	3.24	1.64	2.28	3.94	
BF	0.27	0.17	0.19	0.33	0.21	0.23	0.37	0.25	0.26		
95	40	TC	43.23	55.42	69.34	50.60	64.50	80.62	56.62	71.45	89.74
		SHC	37.41	35.10	32.60	45.41	41.93	38.23	52.54	47.67	42.99
		LDB	51.6	53.4	55.4	54.1	56.2	58.4	56.0	58.3	60.5
		LWB	49.0	51.7	54.5	50.7	53.9	57.1	52.0	55.6	59.0
		PD	2.54	4.07	6.07	3.46	5.42	8.06	4.29	6.59	9.82
	BF	0.16	0.17	0.00	0.20	0.21	0.34	0.24	0.25	0.32	
	45	TC	34.64	46.62	60.20	41.35	54.30	69.56	47.45	60.31	77.07
		SHC	33.34	31.28	28.88	40.86	37.63	33.92	47.45	43.08	38.22
		LDB	54.66	56.32	58.23	56.70	58.63	60.82	58.34	60.42	62.71
		LWB	51.82	54.46	57.22	52.97	56.22	59.47	53.77	57.53	61.05
		PD	1.50	2.66	4.26	2.11	3.58	5.61	2.76	4.37	6.80
	BF	0.17	0.17	0.22	0.22	0.21	0.25	0.27	0.25	0.27	
	50	TC	28.65	36.96	50.28	35.08	43.06	58.17	40.62	47.87	64.24
		SHC	28.65	27.36	25.08	35.08	33.15	29.71	40.62	38.20	33.58
		LDB	58.2	59.3	61.1	60.0	61.2	63.2	61.5	62.6	64.8
LWB		53.7	57.3	60.0	54.4	58.6	61.8	55.0	59.6	63.1	
PD		0.96	1.56	2.77	1.40	2.10	3.67	1.87	2.59	4.44	
BF	0.26	0.17	0.19	0.32	0.21	0.23	0.37	0.25	0.26		
105	40	TC	43.09	55.15	68.90	50.36	64.01	80.25	56.26	70.97	89.18
		SHC	37.35	34.99	32.41	45.31	41.72	38.08	52.36	47.48	42.78
		LDB	51.6	53.5	55.5	54.1	56.3	58.5	56.1	58.4	60.6
		LWB	49.0	51.8	54.7	50.8	54.0	57.2	52.1	55.7	59.1
		PD	2.94	4.66	6.93	3.97	6.18	9.20	4.89	7.49	11.14
	BF	0.16	0.17	0.00	0.20	0.21	0.33	0.24	0.25	0.31	
	45	TC	34.63	46.46	59.90	41.28	54.01	69.04	47.35	59.88	76.74
		SHC	33.34	31.22	28.76	40.81	37.51	33.73	47.35	42.92	38.10
		LDB	54.67	56.37	58.32	56.72	58.69	60.93	58.39	60.50	62.77
		LWB	51.83	54.51	57.31	52.99	56.28	59.57	53.78	57.60	61.11
		PD	1.73	3.06	4.87	2.44	4.08	6.37	3.19	4.98	7.76
	BF	0.17	0.17	0.22	0.22	0.21	0.25	0.27	0.25	0.27	
	50	TC	28.70	36.92	50.15	35.09	42.95	57.87	40.59	47.69	63.76
		SHC	28.70	27.34	25.03	35.09	33.11	29.60	40.59	38.13	33.42
		LDB	58.2	59.3	61.1	60.0	61.2	63.3	61.5	62.7	64.9
LWB		53.7	57.3	60.0	54.4	58.7	61.8	55.0	59.6	63.1	
PD		1.10	1.79	3.18	1.63	2.42	4.19	2.16	2.97	5.04	
BF	0.26	0.17	0.19	0.32	0.21	0.23	0.37	0.25	0.26		



COOLING CAPACITY STANDARD CAPACITY R-410A COILS

HBB 20

SCT (F)	SET (F)		CFM @ 80 F EDB								
			1500			2000			2500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	54.31	69.97	88.03	64.15	82.36	102.99	72.47	92.29	114.68
		SHC	46.75	44.12	41.38	57.01	53.05	48.75	66.21	60.70	54.80
		LDB	51.6	53.3	55.0	54.0	55.9	57.9	55.8	57.9	60.2
		LWB	48.9	51.5	54.2	50.6	53.6	56.8	51.8	55.2	58.7
		PD	1.00	1.61	2.47	1.37	2.22	3.34	1.74	2.76	4.09
	45	TC	42.70	58.22	75.74	51.48	68.58	88.57	59.31	76.86	98.72
		SHC	41.09	38.96	36.31	50.78	47.17	43.04	59.31	54.25	48.67
		LDB	55.01	56.40	58.10	56.85	58.58	60.54	58.37	60.29	62.40
		LWB	51.98	54.47	57.11	53.02	56.10	59.21	53.77	57.34	60.76
		PD	0.59	1.04	1.70	0.83	1.43	2.30	1.08	1.78	2.82
	50	TC	33.64	45.23	62.36	42.64	53.48	73.10	50.07	60.02	81.58
		SHC	33.64	33.56	31.11	42.64	41.07	37.18	50.07	47.57	42.30
		LDB	59.6	59.7	61.3	60.6	61.4	63.2	61.7	62.7	64.7
		LWB	54.3	57.5	60.1	54.7	58.7	61.7	55.1	59.6	62.9
		PD	0.39	0.62	1.09	0.56	0.83	1.48	0.74	1.03	1.82
95	40	TC	54.42	69.97	87.96	64.33	82.24	102.70	72.43	92.04	114.16
		SHC	46.82	44.13	41.34	57.11	53.01	48.63	66.18	60.61	54.59
		LDB	51.5	53.3	55.0	53.9	55.9	58.0	55.8	58.0	60.3
		LWB	48.9	51.5	54.2	50.5	53.6	56.8	51.8	55.2	58.7
		PD	1.13	1.84	2.81	1.57	2.53	3.77	1.98	3.13	4.62
	45	TC	43.09	58.42	75.83	51.69	68.64	88.50	59.44	76.84	98.51
		SHC	41.39	39.07	36.35	50.92	47.21	43.02	59.44	54.26	48.60
		LDB	54.83	56.33	58.07	56.78	58.56	60.55	58.32	60.29	62.43
		LWB	51.88	54.43	57.09	52.98	56.09	59.22	53.76	57.34	60.79
		PD	0.67	1.18	1.94	0.94	1.62	2.61	1.23	2.02	3.20
	50	TC	34.88	45.77	62.76	43.35	53.84	73.26	50.49	60.28	81.59
		SHC	34.88	33.87	31.27	43.35	41.26	37.26	50.49	47.70	42.33
		LDB	58.8	59.5	61.2	60.2	61.3	63.2	61.6	62.7	64.7
		LWB	54.0	57.4	60.0	54.5	58.6	61.7	55.1	59.6	62.9
		PD	0.43	0.70	1.24	0.63	0.95	1.68	0.83	1.17	2.07
105	40	TC	54.43	69.89	87.78	64.28	82.01	102.28	72.31	91.64	113.44
		SHC	46.83	44.10	41.27	57.08	52.92	48.45	66.11	60.45	54.30
		LDB	51.5	53.3	55.1	54.0	56.0	58.1	55.9	58.0	60.4
		LWB	48.9	51.5	54.2	50.5	53.7	56.9	51.8	55.3	58.8
		PD	1.31	2.12	3.22	1.81	2.89	4.32	2.28	3.57	5.25
	45	TC	43.28	58.47	75.80	51.78	68.60	88.33	59.47	76.69	98.13
		SHC	41.52	39.10	36.34	50.95	47.20	42.95	59.47	54.20	48.46
		LDB	54.75	56.31	58.08	56.77	58.56	60.58	58.31	60.31	62.48
		LWB	51.83	54.41	57.09	52.96	56.10	59.25	53.75	57.36	60.84
		PD	0.77	1.36	2.24	1.09	1.86	2.99	1.41	2.32	3.64
	50	TC	35.42	46.05	62.89	43.60	54.00	73.26	50.66	60.35	81.45
		SHC	35.42	34.01	31.34	43.60	41.34	37.28	50.66	47.74	42.30
		LDB	58.5	59.4	61.1	60.1	61.2	63.2	61.5	62.7	64.7
		LWB	53.8	57.4	60.0	54.5	58.6	61.7	55.1	59.6	62.9
		PD	0.49	0.79	1.43	0.72	1.08	1.92	0.96	1.34	2.36



COOLING CAPACITY STANDARD CAPACITY R-410A COILS

HBB 30

SCT (F)	SET (F)		CFM @ 80 F EDB								
			2250			3000			3750		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	79.76	103.00	129.43	93.87	120.27	149.94	105.29	133.79	166.83
		SHC	69.11	65.14	60.79	84.13	77.91	71.04	97.31	88.76	79.84
		LDB	51.9	53.6	55.5	54.3	56.3	58.5	56.2	58.4	60.7
		LWB	49.2	51.8	54.5	50.8	53.9	57.2	52.1	55.5	59.1
		PD	1.67	2.70	4.05	2.29	3.62	5.35	2.85	4.43	6.53
	BF	0.17	0.18	0.00	0.21	0.22	0.00	0.25	0.26	0.33	
	45	TC	63.42	85.97	111.61	75.90	100.40	129.38	87.47	111.78	143.04
		SHC	61.27	57.74	53.53	75.23	69.52	63.03	87.47	79.66	70.86
		LDB	55.09	56.61	58.41	57.05	58.87	60.93	58.64	60.63	62.85
		LWB	52.05	54.65	57.36	53.15	56.34	59.53	53.88	57.61	61.14
		PD	1.00	1.76	2.83	1.39	2.36	3.75	1.82	2.91	4.53
	BF	0.18	0.18	0.23	0.23	0.22	0.26	0.28	0.26	0.28	
	50	TC	51.32	67.29	92.53	63.86	78.83	107.35	74.35	87.89	118.93
		SHC	51.32	50.06	46.19	63.86	60.88	54.81	74.35	70.25	62.07
		LDB	59.1	59.7	61.4	60.5	61.5	63.4	61.8	62.9	65.0
LWB		54.1	57.6	60.2	54.7	58.8	61.9	55.2	59.8	63.1	
PD		0.66	1.04	1.84	0.95	1.39	2.45	1.25	1.71	2.96	
BF	0.30	0.18	0.20	0.34	0.22	0.24	0.39	0.26	0.27		
95	40	TC	79.75	102.85	129.05	93.71	119.78	149.20	104.98	132.92	166.37
		SHC	69.11	65.09	60.63	84.06	77.72	70.74	97.16	88.41	79.66
		LDB	51.9	53.6	55.5	54.3	56.4	58.6	56.3	58.5	60.7
		LWB	49.2	51.8	54.6	50.9	54.0	57.3	52.1	55.6	59.1
		PD	1.90	3.07	4.60	2.61	4.09	6.04	3.24	4.99	7.38
	BF	0.17	0.18	0.00	0.21	0.22	0.35	0.25	0.26	0.33	
	45	TC	63.72	85.97	111.38	76.03	100.20	128.77	87.49	111.35	141.98
		SHC	61.49	57.76	53.44	75.34	69.46	62.79	87.49	79.50	70.48
		LDB	55.00	56.60	58.45	57.01	58.89	61.00	58.63	60.67	62.94
		LWB	52.00	54.65	57.40	53.13	56.37	59.60	53.88	57.65	61.23
		PD	1.14	1.99	3.21	1.58	2.68	4.23	2.08	3.28	5.08
	BF	0.18	0.18	0.23	0.23	0.22	0.26	0.28	0.26	0.28	
	50	TC	52.41	67.74	92.46	64.41	79.00	107.01	74.65	87.92	118.21
		SHC	52.41	50.32	46.19	64.41	60.99	54.71	74.65	70.29	61.84
		LDB	58.7	59.6	61.4	60.3	61.5	63.5	61.8	62.9	65.0
LWB		53.9	57.5	60.2	54.6	58.8	61.9	55.2	59.8	63.2	
PD		0.74	1.18	2.08	1.08	1.58	2.76	1.42	1.93	3.34	
BF	0.28	0.18	0.20	0.34	0.22	0.24	0.38	0.26	0.27		
105	40	TC	79.61	102.50	128.30	93.20	119.05	148.69	104.50	131.83	165.61
		SHC	69.05	64.94	60.31	83.80	77.42	70.53	96.91	87.99	79.36
		LDB	51.9	53.7	55.7	54.4	56.5	58.6	56.3	58.6	60.8
		LWB	49.2	51.9	54.7	50.9	54.1	57.4	52.2	55.7	59.2
		PD	2.19	3.52	5.24	2.98	4.67	6.90	3.69	5.65	8.39
	BF	0.17	0.18	0.00	0.21	0.22	0.34	0.25	0.26	0.32	
	45	TC	63.80	85.78	110.91	76.01	99.74	127.81	87.40	110.71	140.75
		SHC	61.54	57.69	53.26	75.35	69.27	62.43	87.40	79.26	70.03
		LDB	54.98	56.63	58.52	57.01	58.95	61.11	58.65	60.73	63.05
		LWB	51.99	54.68	57.47	53.13	56.42	59.71	53.89	57.71	61.33
		PD	1.31	2.29	3.67	1.83	3.07	4.79	2.39	3.73	5.75
	BF	0.18	0.18	0.23	0.23	0.22	0.25	0.28	0.26	0.28	
	50	TC	52.79	67.80	92.09	64.57	78.94	106.35	74.71	87.76	117.54
		SHC	52.79	50.36	46.07	64.57	60.98	54.49	74.71	70.23	61.63
		LDB	58.5	59.6	61.4	60.3	61.5	63.5	61.8	62.9	65.1
LWB		53.9	57.5	60.3	54.6	58.8	62.0	55.2	59.8	63.3	
PD		0.84	1.35	2.39	1.23	1.81	3.14	1.62	2.22	3.79	
BF	0.27	0.18	0.20	0.33	0.22	0.24	0.38	0.26	0.27		



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBB 40

SCT (F)	SET (F)		CFM @ 80 F EDB								
			3000			4000			5000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	109.32	141.05	177.22	128.43	164.85	205.56	144.53	183.69	229.83
		SHC	94.23	88.95	83.18	114.54	106.42	97.25	132.95	121.43	109.72
		LDB	51.4	53.1	54.9	53.9	55.8	58.0	55.7	57.9	60.1
		LWB	48.8	51.4	54.1	50.5	53.6	56.8	51.8	55.2	58.6
		PD	1.88	3.01	4.49	2.56	4.02	5.92	3.19	4.93	7.27
		BF	0.16	0.17	0.00	0.20	0.21	0.00	0.24	0.25	0.32
	45	TC	86.60	117.90	153.10	103.80	137.90	177.85	119.54	153.89	197.03
		SHC	83.28	78.83	73.29	102.48	94.98	86.38	119.54	109.06	97.26
		LDB	54.73	56.17	57.93	56.62	58.41	60.46	58.19	60.19	62.41
		LWB	51.84	54.32	56.95	52.93	56.02	59.14	53.70	57.32	60.79
		PD	1.13	1.98	3.16	1.56	2.66	4.18	2.03	3.27	5.06
		BF	0.17	0.17	0.23	0.22	0.21	0.25	0.26	0.25	0.27
	50	TC	69.00	92.14	127.04	86.62	108.37	147.77	101.50	121.21	164.09
		SHC	69.00	68.14	63.21	86.62	83.09	75.12	101.50	96.13	85.23
		LDB	59.1	59.4	61.0	60.2	61.1	63.0	61.5	62.5	64.6
		LWB	54.1	57.4	59.9	54.5	58.6	61.6	55.0	59.5	62.9
		PD	0.74	1.18	2.08	1.07	1.58	2.76	1.40	1.94	3.34
		BF	0.29	0.17	0.19	0.33	0.21	0.23	0.37	0.25	0.26
95	40	TC	109.30	140.81	176.68	128.20	164.22	205.08	144.07	182.49	229.02
		SHC	94.24	88.86	82.94	114.45	106.17	97.05	132.73	120.95	109.40
		LDB	51.4	53.1	55.0	53.9	55.9	58.0	55.8	58.0	60.2
		LWB	48.8	51.4	54.1	50.6	53.6	56.8	51.8	55.3	58.7
		PD	2.13	3.41	5.07	2.90	4.55	6.71	3.61	5.54	8.21
		BF	0.16	0.17	0.00	0.20	0.21	0.00	0.24	0.25	0.32
	45	TC	87.08	117.93	152.89	104.05	137.62	177.02	119.61	153.27	195.62
		SHC	83.69	78.88	73.20	102.66	94.90	86.06	119.61	108.84	96.75
		LDB	54.60	56.15	57.96	56.58	58.43	60.53	58.18	60.23	62.51
		LWB	51.78	54.32	56.98	52.91	56.05	59.21	53.70	57.36	60.88
		PD	1.27	2.24	3.57	1.78	3.00	4.70	2.30	3.67	5.68
		BF	0.17	0.17	0.22	0.22	0.21	0.25	0.26	0.25	0.27
	50	TC	71.08	93.02	127.10	87.79	108.73	147.28	102.12	121.28	163.16
		SHC	71.08	68.66	63.28	87.79	83.33	74.98	102.12	96.23	84.94
		LDB	58.4	59.3	61.0	60.0	61.1	63.0	61.4	62.5	64.7
		LWB	53.8	57.3	59.9	54.4	58.5	61.6	55.0	59.5	62.9
		PD	0.83	1.33	2.35	1.20	1.79	3.10	1.58	2.20	3.75
		BF	0.27	0.17	0.19	0.32	0.21	0.23	0.37	0.25	0.26
105	40	TC	109.09	140.33	175.59	127.73	163.19	204.33	143.36	180.89	227.90
		SHC	94.15	88.66	82.47	114.26	105.76	96.74	132.38	120.31	108.95
		LDB	51.4	53.2	55.2	53.9	56.0	58.1	55.8	58.1	60.3
		LWB	48.9	51.5	54.3	50.6	53.7	56.9	51.9	55.4	58.8
		PD	2.45	3.90	5.78	3.32	5.18	7.64	4.11	6.27	9.32
		BF	0.16	0.17	0.00	0.20	0.21	0.00	0.24	0.25	0.32
	45	TC	87.32	117.73	152.32	104.07	137.04	175.84	119.51	152.33	194.68
		SHC	83.86	78.82	72.98	102.64	94.68	85.61	119.51	108.48	96.41
		LDB	54.55	56.17	58.03	56.58	58.48	60.63	58.20	60.30	62.57
		LWB	51.75	54.34	57.04	52.90	56.10	59.30	53.71	57.43	60.94
		PD	1.47	2.57	4.08	2.04	3.42	5.34	2.66	4.18	6.46
		BF	0.17	0.17	0.22	0.22	0.21	0.25	0.26	0.25	0.27
	50	TC	71.88	93.21	126.78	88.12	108.66	146.44	102.25	120.99	161.97
		SHC	71.88	68.79	63.18	88.12	83.33	74.71	102.25	96.13	84.56
		LDB	58.2	59.2	61.0	59.9	61.1	63.1	61.3	62.5	64.7
		LWB	53.7	57.2	59.9	54.4	58.5	61.7	55.0	59.5	63.0
		PD	0.95	1.53	2.68	1.37	2.04	3.52	1.82	2.51	4.25
		BF	0.26	0.17	0.19	0.32	0.21	0.23	0.37	0.25	0.26



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBA 60

SCT (F)	SET (F)		CFM @ 80 F EDB								
			5000			6000			7000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	183.72	238.45	299.75	204.48	264.51	332.03	223.90	287.94	360.32
		SHC	157.77	149.68	140.60	178.96	168.17	156.27	199.37	185.34	170.33
		LDB	51.2	52.8	54.6	52.8	54.5	56.4	54.0	55.9	58.0
		LWB	48.7	51.1	53.7	49.8	52.5	55.4	50.6	53.6	56.8
		PD	0.82	1.36	2.11	1.02	1.68	2.57	1.22	1.99	3.02
	BF	0.16	0.18	0.00	0.19	0.20	0.00	0.21	0.22	0.00	
	45	TC	146.12	198.42	258.49	163.77	220.68	286.07	180.88	240.01	310.23
		SHC	140.15	132.18	123.50	159.87	149.37	137.69	178.53	165.07	150.50
		LDB	54.46	56.00	57.67	55.68	57.36	59.22	56.74	58.58	60.55
		LWB	51.69	54.16	56.70	52.41	55.19	58.05	52.97	56.09	59.18
		PD	0.47	0.86	1.43	0.60	1.07	1.76	0.72	1.27	2.06
	BF	0.17	0.17	0.23	0.19	0.20	0.24	0.22	0.22	0.26	
	50	TC	120.29	156.13	214.37	137.19	172.57	236.94	152.90	187.36	256.89
		SHC	120.29	114.98	106.31	137.19	129.99	118.88	152.90	144.09	130.39
		LDB	58.1	59.1	60.8	59.1	60.3	62.1	60.1	61.3	63.2
LWB		53.7	57.2	59.7	54.1	58.0	60.8	54.5	58.7	61.6	
PD		0.29	0.49	0.91	0.38	0.61	1.11	0.47	0.71	1.31	
BF	0.26	0.17	0.19	0.29	0.19	0.22	0.33	0.22	0.24		
95	40	TC	184.34	238.31	299.47	204.55	264.26	331.50	223.90	287.90	359.41
		SHC	158.11	149.63	140.47	178.97	168.08	156.04	199.34	185.37	169.96
		LDB	51.2	52.8	54.6	52.8	54.5	56.4	54.0	55.9	58.0
		LWB	48.6	51.1	53.8	49.7	52.5	55.4	50.6	53.6	56.8
		PD	0.95	1.56	2.42	1.17	1.92	2.93	1.41	2.28	3.43
	BF	0.16	0.18	0.00	0.19	0.20	0.00	0.21	0.22	0.00	
	45	TC	146.53	198.57	258.46	164.07	220.27	285.91	181.11	240.00	310.08
		SHC	140.33	132.25	123.49	159.92	149.16	137.63	178.63	165.08	150.46
		LDB	54.43	55.99	57.67	55.67	57.40	59.23	56.72	58.58	60.56
		LWB	51.66	54.15	56.70	52.39	55.22	58.06	52.95	56.09	59.19
		PD	0.55	0.99	1.64	0.69	1.22	2.01	0.83	1.45	2.36
	BF	0.17	0.17	0.23	0.19	0.20	0.24	0.22	0.22	0.26	
	50	TC	120.58	156.47	214.46	137.46	173.31	237.01	153.13	187.68	256.78
		SHC	120.58	115.12	106.36	137.46	130.30	118.93	153.13	144.20	130.38
		LDB	58.0	59.1	60.8	59.1	60.3	62.1	60.0	61.3	63.2
LWB		53.6	57.2	59.7	54.1	58.0	60.7	54.5	58.7	61.6	
PD		0.34	0.57	1.04	0.43	0.70	1.27	0.55	0.82	1.49	
BF	0.26	0.17	0.19	0.29	0.19	0.22	0.33	0.22	0.24		
105	40	TC	184.31	237.68	298.91	204.48	264.16	330.60	223.72	286.75	358.01
		SHC	158.07	149.35	140.23	178.93	168.07	155.66	199.23	184.88	169.38
		LDB	51.2	52.9	54.6	52.8	54.5	56.5	54.0	56.0	58.1
		LWB	48.6	51.2	53.8	49.8	52.5	55.5	50.6	53.7	56.9
		PD	1.11	1.81	2.78	1.36	2.23	3.36	1.63	2.62	3.92
	BF	0.16	0.18	0.00	0.19	0.20	0.00	0.21	0.22	0.00	
	45	TC	146.73	198.59	258.27	164.26	220.19	285.47	181.21	239.20	309.12
		SHC	140.40	132.26	123.41	159.94	149.14	137.46	178.64	164.71	150.10
		LDB	54.41	55.99	57.69	55.67	57.40	59.26	56.72	58.62	60.61
		LWB	51.64	54.15	56.72	52.38	55.22	58.08	52.95	56.13	59.23
		PD	0.64	1.16	1.91	0.80	1.42	2.32	0.97	1.68	2.71
	BF	0.17	0.17	0.23	0.20	0.20	0.24	0.22	0.22	0.26	
	50	TC	120.78	156.68	214.51	137.68	173.46	236.80	153.26	187.84	256.46
		SHC	120.78	115.19	106.40	137.68	130.33	118.89	153.26	144.24	130.30
		LDB	58.0	59.1	60.8	59.1	60.3	62.1	60.0	61.3	63.2
LWB		53.6	57.1	59.7	54.1	57.9	60.8	54.4	58.7	61.7	
PD		0.39	0.66	1.21	0.51	0.82	1.48	0.64	0.96	1.74	
BF	0.26	0.17	0.19	0.29	0.19	0.22	0.33	0.22	0.24		



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBA 80

SCT (F)	SET (F)		CFM @ 80 F EDB								
			7000			8000			9000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	261.10	337.16	421.41	283.17	363.61	453.31	302.92	387.85	481.40
		SHC	225.96	213.12	198.40	248.92	232.40	214.18	270.13	250.56	228.44
		LDB	50.5	52.3	54.3	51.6	53.6	55.8	52.6	54.7	57.0
		LWVB	48.4	50.9	53.6	49.2	52.0	54.9	49.9	52.9	56.0
		PD	1.41	2.30	3.46	1.65	2.66	3.98	1.89	3.02	4.47
		BF	0.13	0.14	0.00	0.15	0.16	0.00	0.16	0.18	0.27
	45	TC	209.45	281.59	364.58	227.95	303.75	392.13	246.25	324.10	416.62
		SHC	201.68	189.01	175.06	223.04	206.78	189.56	242.74	223.61	202.83
		LDB	53.72	55.46	57.37	54.57	56.52	58.56	55.40	57.43	59.62
		LWVB	51.40	53.94	56.54	51.95	54.76	57.60	52.38	55.47	58.52
		PD	0.82	1.47	2.39	0.96	1.72	2.76	1.13	1.95	3.10
		BF	0.14	0.14	0.19	0.16	0.16	0.20	0.18	0.17	0.21
	50	TC	174.06	222.04	303.40	191.78	238.89	326.35	208.46	254.34	346.83
		SHC	174.06	164.92	151.37	191.78	180.79	164.46	208.46	195.86	176.54
		LDB	57.3	58.6	60.4	58.1	59.5	61.4	58.9	60.2	62.3
		LWVB	53.3	57.0	59.5	53.7	57.6	60.3	54.0	58.2	61.1
		PD	0.51	0.84	1.54	0.63	0.97	1.78	0.73	1.11	2.02
		BF	0.23	0.14	0.16	0.26	0.16	0.18	0.29	0.17	0.19
95	40	TC	260.97	336.52	420.02	282.89	362.65	451.28	302.48	386.08	478.73
		SHC	225.88	212.86	197.81	248.76	232.01	213.34	269.90	249.79	227.35
		LDB	50.5	52.3	54.4	51.6	53.6	55.9	52.6	54.8	57.1
		LWVB	48.5	51.0	53.7	49.2	52.0	55.0	49.9	52.9	56.1
		PD	1.62	2.64	3.94	1.90	3.04	4.52	2.17	3.43	5.06
		BF	0.13	0.14	0.00	0.15	0.16	0.00	0.16	0.18	0.27
	45	TC	209.77	281.44	363.92	228.13	303.45	391.16	246.36	323.56	415.72
		SHC	201.81	188.95	174.80	223.09	206.67	189.19	242.75	223.40	202.51
		LDB	53.71	55.47	57.40	54.57	56.53	58.61	55.40	57.45	59.65
		LWVB	51.38	53.95	56.57	51.94	54.78	57.64	52.37	55.49	58.55
		PD	0.95	1.70	2.74	1.12	1.97	3.15	1.30	2.23	3.54
		BF	0.14	0.14	0.18	0.16	0.16	0.19	0.18	0.17	0.21
	50	TC	174.31	222.26	303.25	192.04	239.59	325.95	208.67	254.50	346.21
		SHC	174.31	164.97	151.34	192.04	181.07	164.35	208.67	195.90	176.36
		LDB	57.3	58.6	60.5	58.1	59.5	61.4	58.9	60.2	62.3
		LWVB	53.3	57.0	59.5	53.7	57.6	60.3	54.0	58.2	61.1
		PD	0.59	0.97	1.77	0.73	1.13	2.04	0.86	1.28	2.30
		BF	0.23	0.14	0.16	0.26	0.16	0.18	0.29	0.17	0.19
105	40	TC	260.70	335.55	418.07	282.38	361.34	448.58	301.68	384.43	476.99
		SHC	225.74	212.45	196.98	248.49	231.46	212.21	269.49	249.13	226.64
		LDB	50.6	52.4	54.5	51.7	53.7	56.0	52.7	54.8	57.2
		LWVB	48.5	51.0	53.8	49.3	52.1	55.1	50.0	53.0	56.2
		PD	1.88	3.04	4.51	2.20	3.49	5.15	2.51	3.93	5.78
		BF	0.13	0.14	0.00	0.15	0.16	0.00	0.17	0.18	0.27
	45	TC	209.95	280.99	362.82	228.23	302.77	389.61	246.37	322.19	413.15
		SHC	201.85	188.77	174.37	223.11	206.40	188.59	242.69	222.81	201.53
		LDB	53.70	55.50	57.46	54.57	56.56	58.67	55.41	57.51	59.75
		LWVB	51.37	53.97	56.63	51.93	54.81	57.71	52.37	55.54	58.65
		PD	1.11	1.96	3.15	1.31	2.28	3.61	1.52	2.57	4.04
		BF	0.14	0.14	0.18	0.16	0.16	0.19	0.18	0.17	0.20
	50	TC	174.50	222.32	302.74	192.22	239.58	325.20	208.82	254.87	345.13
		SHC	174.50	164.98	151.18	192.22	181.06	164.11	208.82	196.05	176.00
		LDB	57.3	58.6	60.5	58.1	59.5	61.5	58.8	60.2	62.3
		LWVB	53.3	57.0	59.5	53.6	57.6	60.4	54.0	58.1	61.1
		PD	0.70	1.14	2.06	0.85	1.32	2.36	1.00	1.49	2.65
		BF	0.23	0.14	0.16	0.26	0.16	0.18	0.29	0.17	0.19



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBB 04

SCT (F)	SET (F)		CFM @ 80 F EDB								
			300			400			500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	14.65	19.02	23.94	18.15	23.50	29.47	21.17	27.25	34.03
		SHC	11.82	11.55	11.25	14.95	14.42	13.82	17.80	16.94	15.98
		LDB	44.1	45.0	46.0	45.9	47.2	48.7	47.5	49.2	51.0
		LWB	43.5	44.6	45.8	45.0	46.6	48.4	46.3	48.4	50.6
		PD	1.11	1.87	2.92	1.75	2.93	4.51	2.43	4.00	6.05
		BF	0.04	0.06	0.00	0.06	0.07	0.00	0.08	0.09	0.00
	45	TC	11.70	16.06	20.92	14.53	19.79	25.65	17.01	22.95	29.66
		SHC	10.41	10.16	9.86	13.25	12.73	12.14	15.86	15.03	14.11
		LDB	48.37	49.24	50.24	49.78	51.06	52.52	51.06	52.67	54.44
		LWB	47.76	48.81	49.98	48.84	50.41	52.14	49.77	51.79	53.93
		PD	0.63	1.20	2.01	1.01	1.87	3.13	1.39	2.57	4.21
		BF	0.04	0.05	0.00	0.06	0.07	0.00	0.08	0.09	0.15
	50	TC	9.00	12.81	17.60	11.52	15.78	21.60	13.82	18.30	24.95
		SHC	9.00	8.76	8.46	11.52	11.04	10.48	13.82	13.10	12.24
		LDB	52.7	53.5	54.5	53.7	54.9	56.3	54.8	56.2	57.9
		LWB	51.4	53.0	54.2	51.8	54.2	55.9	52.3	55.2	57.3
		PD	0.32	0.68	1.29	0.54	1.07	2.00	0.81	1.47	2.71
		BF	0.08	0.04	0.07	0.11	0.06	0.09	0.15	0.08	0.11
95	40	TC	14.64	18.99	23.87	18.12	23.41	29.33	21.12	27.11	33.80
		SHC	11.81	11.53	11.22	14.94	14.38	13.76	17.77	16.88	15.88
		LDB	44.1	45.1	46.1	45.9	47.3	48.8	47.5	49.3	51.2
		LWB	43.5	44.7	45.9	45.0	46.7	48.5	46.4	48.5	50.8
		PD	1.31	2.19	3.41	2.05	3.41	5.20	2.83	4.60	6.92
		BF	0.04	0.06	0.00	0.06	0.07	0.00	0.08	0.09	0.00
	45	TC	11.72	16.04	20.84	14.53	19.75	25.59	17.00	22.89	29.54
		SHC	10.42	10.15	9.83	13.25	12.72	12.11	15.86	15.00	14.06
		LDB	48.35	49.26	50.35	49.78	51.11	52.58	51.07	52.72	54.53
		LWB	47.74	48.83	50.09	48.84	50.45	52.20	49.77	51.83	54.02
		PD	0.75	1.41	2.36	1.17	2.18	3.63	1.63	2.99	4.85
		BF	0.04	0.05	0.00	0.06	0.07	0.00	0.08	0.09	0.15
	50	TC	9.02	12.82	17.60	11.53	15.79	21.58	13.82	18.29	24.90
		SHC	9.02	8.76	8.46	11.53	11.04	10.47	13.82	13.10	12.21
		LDB	52.6	53.5	54.5	53.7	54.9	56.3	54.8	56.2	57.9
		LWB	51.4	53.0	54.2	51.8	54.2	55.9	52.3	55.3	57.3
		PD	0.38	0.81	1.51	0.65	1.26	2.33	0.95	1.71	3.15
		BF	0.08	0.04	0.07	0.11	0.06	0.09	0.15	0.08	0.11
105	40	TC	14.62	18.94	23.79	18.08	23.30	29.16	21.04	26.89	33.49
		SHC	11.80	11.51	11.18	14.91	14.33	13.68	17.74	16.78	15.74
		LDB	44.1	45.1	46.2	46.0	47.4	49.0	47.6	49.5	51.5
		LWB	43.6	44.7	46.0	45.1	46.8	48.7	46.4	48.7	51.0
		PD	1.55	2.58	4.00	2.41	3.98	6.03	3.31	5.32	7.95
		BF	0.04	0.05	0.00	0.06	0.07	0.00	0.08	0.09	0.00
	45	TC	11.72	16.00	20.80	14.53	19.70	25.50	16.98	22.81	29.37
		SHC	10.42	10.13	9.81	13.25	12.70	12.07	15.85	14.97	13.99
		LDB	48.34	49.32	50.41	49.80	51.15	52.67	51.08	52.78	54.66
		LWB	47.74	48.89	50.15	48.85	50.50	52.29	49.79	51.90	54.14
		PD	0.89	1.66	2.78	1.39	2.57	4.23	1.92	3.49	5.60
		BF	0.04	0.05	0.00	0.06	0.07	0.17	0.08	0.08	0.14
	50	TC	9.03	12.82	17.58	11.54	15.78	21.53	13.82	18.27	24.81
		SHC	9.03	8.77	8.45	11.54	11.04	10.45	13.82	13.09	12.18
		LDB	52.6	53.5	54.5	53.7	54.9	56.4	54.8	56.2	58.0
		LWB	51.3	53.0	54.2	51.8	54.2	55.9	52.3	55.3	57.4
		PD	0.46	0.96	1.79	0.77	1.49	2.74	1.13	2.02	3.67
		BF	0.07	0.04	0.07	0.11	0.06	0.09	0.15	0.08	0.11



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBB 06

SCT (F)	SET (F)		CFM @ 80 F EDB								
			450			600			750		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	20.17	26.55	33.64	24.84	32.45	40.98	28.76	37.34	47.02
		SHC	16.82	16.36	15.81	21.26	20.33	19.29	25.26	23.81	22.23
		LDB	45.8	46.9	48.1	47.7	49.2	50.9	49.3	51.2	53.2
		LWB	45.2	46.5	47.9	46.7	48.5	50.5	48.0	50.3	52.7
		PD	1.73	3.02	4.78	2.73	4.63	7.23	3.73	6.20	9.57
	BF	0.04	0.05	0.00	0.06	0.07	0.00	0.08	0.09	0.00	
	45	TC	15.80	21.98	29.12	19.62	26.82	35.50	23.02	31.01	40.78
		SHC	14.77	14.29	13.81	18.80	17.90	16.96	22.52	21.10	19.67
		LDB	50.04	51.10	52.17	51.43	52.89	54.41	52.64	54.46	56.29
		LWB	49.32	50.64	51.90	50.31	52.20	54.00	51.10	53.53	55.75
		PD	0.91	1.82	3.19	1.45	2.84	4.86	2.06	3.84	6.50
	BF	0.04	0.05	0.11	0.07	0.07	0.11	0.09	0.08	0.12	
	50	TC	12.67	16.97	24.10	16.09	20.75	29.38	19.21	23.95	33.75
		SHC	12.67	12.21	11.76	16.09	15.38	14.54	19.21	18.26	16.96
		LDB	54.3	55.3	56.3	55.6	56.7	58.1	56.7	57.9	59.6
LWB		52.1	54.9	56.0	52.6	56.0	57.6	53.1	56.9	59.0	
PD		0.49	0.95	1.93	0.84	1.48	2.98	1.24	2.03	4.00	
BF	0.13	0.04	0.06	0.17	0.06	0.08	0.21	0.08	0.10		
95	40	TC	20.29	26.60	33.62	24.95	32.46	40.89	28.83	37.32	46.82
		SHC	16.88	16.39	15.80	21.31	20.34	19.25	25.30	23.81	22.14
		LDB	45.7	46.8	48.1	47.6	49.2	50.9	49.2	51.2	53.3
		LWB	45.1	46.4	47.9	46.7	48.5	50.6	48.0	50.3	52.8
		PD	2.08	3.57	5.63	3.25	5.43	8.42	4.41	7.25	11.07
	BF	0.04	0.05	0.00	0.06	0.07	0.00	0.08	0.09	0.00	
	45	TC	15.95	22.12	29.21	19.78	27.06	35.56	23.18	31.14	40.78
		SHC	14.84	14.36	13.85	18.88	17.96	16.99	22.60	21.15	19.67
		LDB	49.90	50.97	52.10	51.31	52.80	54.37	52.55	54.40	56.29
		LWB	49.19	50.52	51.82	50.20	52.11	53.97	51.02	53.47	55.75
		PD	1.11	2.19	3.79	1.76	3.38	5.74	2.48	4.55	7.61
	BF	0.04	0.05	0.11	0.07	0.07	0.11	0.09	0.08	0.12	
	50	TC	12.76	17.18	24.29	16.20	21.01	29.56	19.34	24.24	33.91
		SHC	12.76	12.29	11.84	16.20	15.48	14.61	19.34	18.38	17.02
		LDB	54.1	55.2	56.2	55.4	56.6	58.0	56.5	57.8	59.5
LWB		52.0	54.7	55.9	52.5	55.8	57.5	53.0	56.8	58.9	
PD		0.60	1.16	2.33	1.01	1.80	3.55	1.50	2.46	4.73	
BF	0.13	0.04	0.07	0.17	0.06	0.08	0.21	0.08	0.10		
105	40	TC	20.37	26.60	33.54	24.99	32.42	40.72	28.84	37.21	46.52
		SHC	16.92	16.39	15.77	21.33	20.32	19.18	25.30	23.76	22.02
		LDB	45.7	46.8	48.2	47.6	49.2	51.0	49.2	51.2	53.4
		LWB	45.1	46.4	48.0	46.6	48.6	50.7	48.0	50.4	52.9
		PD	2.51	4.26	6.65	3.89	6.43	9.88	5.23	8.51	12.87
	BF	0.04	0.05	0.00	0.06	0.07	0.00	0.08	0.09	0.00	
	45	TC	16.09	22.23	29.25	19.90	27.13	35.54	23.29	31.18	40.67
		SHC	14.90	14.40	13.87	18.94	17.99	16.98	22.65	21.17	19.63
		LDB	49.77	50.88	52.06	51.21	52.75	54.38	52.48	54.37	56.33
		LWB	49.06	50.42	51.79	50.12	52.06	53.98	50.96	53.44	55.80
		PD	1.36	2.65	4.53	2.15	4.04	6.79	3.00	5.40	8.93
	BF	0.04	0.05	0.11	0.07	0.07	0.11	0.09	0.08	0.12	
	50	TC	12.83	17.37	24.43	16.30	21.24	29.66	19.45	24.45	33.97
		SHC	12.83	12.36	11.89	16.30	15.57	14.65	19.45	18.46	17.04
		LDB	54.0	55.0	56.1	55.2	56.4	57.9	56.4	57.7	59.5
LWB		51.9	54.5	55.8	52.5	55.7	57.5	52.9	56.7	58.9	
PD		0.73	1.42	2.82	1.24	2.20	4.25	1.82	2.98	5.62	
BF	0.12	0.04	0.07	0.16	0.06	0.08	0.20	0.08	0.10		



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBB 08

SCT (F)	SET (F)		CFM @ 80 F EDB								
			600			800			1000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	22.88	30.80	40.01	28.07	37.75	49.05	32.63	43.70	56.70
		SHC	20.07	19.43	18.82	25.27	24.22	23.16	30.05	28.51	26.91
		LDB	49.5	50.5	51.6	51.2	52.5	53.8	52.6	54.1	55.6
		LWB	48.1	49.7	51.2	49.4	51.3	53.2	50.3	52.6	54.9
		PD	0.37	0.66	1.11	0.56	1.01	1.72	0.76	1.38	2.32
		BF	0.09	0.09	0.00	0.11	0.12	0.00	0.14	0.14	0.23
	45	TC	17.44	24.66	33.61	21.91	30.09	41.04	25.97	34.76	47.37
		SHC	17.28	16.77	16.12	21.87	20.97	19.87	25.97	24.77	23.16
		LDB	53.73	54.60	55.69	55.07	56.19	57.53	56.32	57.50	59.05
		LWB	51.74	53.62	55.15	52.38	54.90	56.82	52.92	55.92	58.17
		PD	0.19	0.38	0.69	0.29	0.57	1.05	0.43	0.77	1.43
		BF	0.12	0.09	0.13	0.16	0.11	0.15	0.20	0.14	0.17
	50	TC	13.70	18.01	26.71	18.02	21.94	32.48	21.44	25.32	37.34
		SHC	13.70	14.09	13.43	18.02	17.74	16.62	21.44	21.07	19.44
		LDB	59.2	58.7	59.8	59.5	59.9	61.2	60.4	60.9	62.4
		LWB	54.1	57.6	59.1	54.2	58.5	60.4	54.6	59.2	61.4
		PD	0.11	0.18	0.40	0.18	0.28	0.59	0.27	0.37	0.78
		BF	0.30	0.09	0.11	0.31	0.12	0.13	0.34	0.14	0.15
95	40	TC	23.25	31.20	40.41	28.54	38.21	49.53	33.17	44.26	57.11
		SHC	20.24	19.62	19.00	25.49	24.43	23.37	30.30	28.75	27.09
		LDB	49.2	50.3	51.3	50.9	52.2	53.5	52.4	53.9	55.5
		LWB	47.9	49.4	50.9	49.1	51.1	53.0	50.1	52.4	54.7
		PD	0.44	0.78	1.32	0.67	1.21	2.05	0.92	1.65	2.75
		BF	0.09	0.09	0.00	0.11	0.12	0.00	0.14	0.14	0.23
	45	TC	17.78	25.11	34.06	22.19	30.63	41.57	26.27	35.38	47.99
		SHC	17.52	16.96	16.30	22.11	21.19	20.08	26.26	25.02	23.41
		LDB	53.37	54.31	55.41	54.79	55.94	57.29	56.05	57.27	58.83
		LWB	51.52	53.34	54.89	52.25	54.66	56.59	52.81	55.70	57.95
		PD	0.22	0.45	0.83	0.36	0.68	1.27	0.50	0.93	1.72
		BF	0.11	0.09	0.13	0.15	0.11	0.15	0.19	0.14	0.17
	50	TC	14.43	18.56	27.24	18.39	22.59	33.07	21.85	25.99	38.01
		SHC	14.43	14.31	13.63	18.39	17.99	16.83	21.85	21.32	19.68
		LDB	58.1	58.3	59.5	59.0	59.6	61.0	60.1	60.7	62.2
		LWB	53.7	57.3	58.8	54.1	58.2	60.2	54.5	58.9	61.2
		PD	0.13	0.23	0.47	0.22	0.34	0.71	0.31	0.45	0.95
		BF	0.26	0.09	0.11	0.29	0.12	0.13	0.33	0.14	0.15
105	40	TC	23.88	31.59	40.76	28.98	38.63	49.85	33.65	44.73	57.47
		SHC	20.68	19.80	19.16	25.69	24.61	23.51	30.51	28.96	27.24
		LDB	49.1	50.0	51.1	50.7	52.0	53.4	52.2	53.7	55.3
		LWB	47.7	49.1	50.7	48.9	50.9	52.8	49.9	52.3	54.6
		PD	0.53	0.95	1.59	0.82	1.46	2.44	1.12	1.99	3.28
		BF	0.09	0.09	0.00	0.11	0.12	0.00	0.14	0.14	0.24
	45	TC	18.10	25.51	34.45	22.53	31.11	42.03	26.60	35.93	48.50
		SHC	17.70	17.13	16.46	22.35	21.38	20.26	26.56	25.24	23.61
		LDB	53.10	54.06	55.16	54.52	55.71	57.08	55.78	57.07	58.64
		LWB	51.31	53.09	54.65	52.09	54.44	56.39	52.68	55.50	57.78
		PD	0.28	0.55	1.00	0.43	0.84	1.53	0.61	1.13	2.07
		BF	0.11	0.09	0.14	0.14	0.12	0.15	0.18	0.14	0.17
	50	TC	14.75	19.04	27.68	18.67	23.14	33.59	22.17	26.62	38.62
		SHC	14.75	14.50	13.80	18.67	18.20	17.02	22.17	21.55	19.89
		LDB	57.6	58.1	59.2	58.7	59.4	60.8	59.8	60.4	62.0
		LWB	53.5	57.0	58.6	53.9	58.0	60.0	54.4	58.7	61.0
		PD	0.17	0.28	0.57	0.27	0.41	0.86	0.38	0.55	1.15
		BF	0.24	0.09	0.11	0.28	0.12	0.13	0.32	0.14	0.15



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBB I2

SCT (F)	SET (F)		CFM @ 80 F EDB								
			900			1200			1500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	35.36	47.38	61.27	43.31	57.89	75.06	50.35	67.13	86.68
		SHC	30.64	29.70	28.79	38.55	36.92	35.38	45.84	43.49	41.05
		LDB	48.9	49.9	51.0	50.6	52.0	53.2	52.1	53.6	55.2
		LWB	47.6	49.1	50.6	48.9	50.9	52.7	49.9	52.2	54.5
		PD	0.51	0.91	1.50	0.78	1.38	2.31	1.06	1.89	3.11
		BF	0.08	0.09	0.00	0.11	0.12	0.00	0.13	0.14	0.25
	45	TC	27.05	38.20	51.75	33.71	46.64	63.24	39.93	53.96	73.10
		SHC	26.57	25.69	24.72	33.56	32.11	30.48	39.93	37.96	35.56
		LDB	53.03	54.01	55.08	54.45	55.64	56.97	55.68	56.97	58.52
		LWB	51.33	53.09	54.58	52.09	54.42	56.30	52.65	55.46	57.67
		PD	0.27	0.52	0.96	0.42	0.80	1.46	0.58	1.08	1.98
		BF	0.10	0.09	0.14	0.14	0.11	0.15	0.18	0.13	0.17
	50	TC	22.25	28.47	41.53	28.06	34.58	50.52	33.34	39.86	58.15
		SHC	22.25	21.77	20.71	28.06	27.32	25.60	33.34	32.43	29.94
		LDB	57.4	58.0	59.2	58.6	59.3	60.7	59.7	60.3	61.9
		LWB	53.4	57.0	58.6	53.9	58.0	59.9	54.3	58.7	61.0
		PD	0.16	0.27	0.55	0.26	0.40	0.83	0.36	0.53	1.11
		BF	0.24	0.08	0.11	0.28	0.11	0.13	0.31	0.13	0.15
95	40	TC	35.88	47.93	61.81	44.05	58.79	75.63	51.16	67.79	87.23
		SHC	30.88	29.94	29.03	38.89	37.31	35.63	46.22	43.78	41.29
		LDB	48.6	49.7	50.7	50.4	51.7	53.1	51.8	53.4	55.0
		LWB	47.4	48.9	50.3	48.7	50.6	52.5	49.7	52.0	54.3
		PD	0.61	1.08	1.80	0.94	1.66	2.73	1.29	2.25	3.65
		BF	0.08	0.09	0.00	0.11	0.12	0.00	0.13	0.14	0.00
	45	TC	27.53	38.80	52.38	34.24	47.35	63.98	40.42	54.76	73.76
		SHC	26.82	25.94	24.98	33.91	32.40	30.77	40.34	38.28	35.82
		LDB	52.77	53.76	54.82	54.18	55.43	56.75	55.43	56.78	58.36
		LWB	51.12	52.84	54.32	51.92	54.20	56.08	52.53	55.27	57.52
		PD	0.32	0.64	1.15	0.49	0.96	1.74	0.70	1.30	2.35
		BF	0.10	0.09	0.14	0.13	0.11	0.15	0.17	0.13	0.17
	50	TC	22.51	29.12	42.15	28.41	35.37	51.30	33.75	40.70	59.07
		SHC	22.51	22.01	20.94	28.41	27.63	25.89	33.75	32.74	30.28
		LDB	57.1	57.8	58.9	58.4	59.1	60.5	59.4	60.2	61.7
		LWB	53.3	56.8	58.3	53.8	57.7	59.7	54.2	58.5	60.8
		PD	0.19	0.32	0.66	0.31	0.48	1.00	0.43	0.65	1.34
		BF	0.23	0.08	0.11	0.27	0.11	0.13	0.31	0.13	0.15
105	40	TC	36.35	48.42	62.29	44.65	59.40	76.08	51.81	68.70	87.71
		SHC	31.10	30.17	29.25	39.17	37.59	35.82	46.51	44.17	41.49
		LDB	48.4	49.4	50.5	50.2	51.5	52.9	51.7	53.2	54.9
		LWB	47.1	48.6	50.1	48.5	50.4	52.4	49.5	51.8	54.2
		PD	0.74	1.31	2.16	1.14	2.01	3.26	1.56	2.71	4.34
		BF	0.08	0.09	0.00	0.11	0.12	0.00	0.13	0.14	0.00
	45	TC	27.96	39.33	53.04	34.70	48.05	64.60	40.88	55.54	74.38
		SHC	27.04	26.16	25.27	34.20	32.69	31.03	40.72	38.59	36.07
		LDB	52.55	53.54	54.53	53.96	55.20	56.56	55.20	56.59	58.21
		LWB	50.94	52.62	54.05	51.77	53.98	55.90	52.41	55.08	57.38
		PD	0.39	0.77	1.39	0.61	1.18	2.10	0.85	1.59	2.81
		BF	0.10	0.09	0.14	0.13	0.11	0.15	0.16	0.13	0.17
	50	TC	22.76	29.71	42.80	28.74	36.13	52.00	34.15	41.60	59.85
		SHC	22.76	22.24	21.19	28.74	27.91	26.14	34.15	33.07	30.56
		LDB	56.9	57.5	58.7	58.1	58.8	60.3	59.2	60.0	61.6
		LWB	53.2	56.5	58.1	53.7	57.5	59.5	54.1	58.3	60.6
		PD	0.23	0.39	0.81	0.37	0.59	1.22	0.53	0.79	1.63
		BF	0.22	0.09	0.11	0.26	0.11	0.13	0.30	0.13	0.15



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBB 16

SCT (F)	SET (F)		CFM @ 80 F EDB								
			1200			1600			2000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	47.45	63.47	81.95	58.27	77.74	100.14	67.47	89.66	115.43
		SHC	41.02	39.74	38.50	51.67	49.47	47.19	61.29	58.05	54.67
		LDB	48.8	49.9	50.9	50.5	51.9	53.3	52.0	53.6	55.2
		LWB	47.5	49.0	50.5	48.8	50.7	52.7	49.9	52.2	54.5
		PD	0.61	1.09	1.80	0.94	1.67	2.74	1.28	2.25	3.66
	BF	0.08	0.09	0.00	0.11	0.11	0.00	0.13	0.14	0.25	
	45	TC	36.35	51.34	69.37	45.24	62.54	84.64	53.51	72.24	97.53
		SHC	35.60	34.44	33.12	44.96	42.96	40.77	53.46	50.72	47.44
		LDB	52.95	53.92	55.02	54.36	55.59	56.93	55.60	56.94	58.52
		LWB	51.26	53.00	54.51	52.03	54.35	56.25	52.61	55.42	57.67
		PD	0.32	0.63	1.14	0.50	0.96	1.75	0.70	1.30	2.34
	BF	0.10	0.09	0.14	0.14	0.11	0.15	0.18	0.13	0.17	
	50	TC	29.85	38.39	55.80	37.64	46.59	67.71	44.67	53.61	77.97
		SHC	29.85	29.20	27.78	37.64	36.64	34.27	44.67	43.43	40.09
		LDB	57.3	57.9	59.1	58.5	59.2	60.6	59.6	60.3	61.9
LWB		53.3	56.9	58.5	53.8	57.9	59.8	54.3	58.6	60.9	
PD		0.20	0.32	0.66	0.31	0.48	0.99	0.44	0.63	1.34	
BF	0.23	0.09	0.11	0.27	0.11	0.13	0.31	0.13	0.15		
95	40	TC	48.11	64.14	82.60	59.07	78.58	100.82	68.37	90.83	116.09
		SHC	41.33	40.05	38.79	52.04	49.84	47.48	61.69	58.56	54.95
		LDB	48.6	49.6	50.7	50.3	51.7	53.1	51.8	53.4	55.1
		LWB	47.3	48.8	50.3	48.6	50.5	52.5	49.7	52.0	54.4
		PD	0.73	1.30	2.15	1.13	1.99	3.22	1.53	2.68	4.29
	BF	0.08	0.09	0.00	0.11	0.12	0.00	0.13	0.14	0.00	
	45	TC	36.96	52.06	70.29	45.88	63.50	85.57	54.10	73.36	98.40
		SHC	35.92	34.74	33.52	45.38	43.35	41.14	53.96	51.17	47.78
		LDB	52.71	53.69	54.72	54.12	55.37	56.71	55.37	56.73	58.36
		LWB	51.06	52.77	54.23	51.88	54.13	56.04	52.50	55.22	57.52
		PD	0.38	0.76	1.38	0.60	1.16	2.08	0.84	1.56	2.78
	BF	0.10	0.09	0.14	0.13	0.11	0.15	0.17	0.13	0.17	
	50	TC	30.19	39.14	56.65	38.09	47.64	68.81	45.22	54.78	79.11
		SHC	30.19	29.51	28.10	38.09	37.03	34.68	45.22	43.85	40.50
		LDB	57.1	57.7	58.8	58.3	59.0	60.4	59.4	60.1	61.7
LWB		53.2	56.7	58.2	53.7	57.7	59.6	54.2	58.5	60.7	
PD		0.23	0.39	0.80	0.36	0.59	1.20	0.52	0.78	1.61	
BF	0.22	0.08	0.11	0.27	0.11	0.13	0.30	0.13	0.15		
105	40	TC	48.70	64.75	83.13	59.75	79.29	101.32	69.20	91.47	116.59
		SHC	41.60	40.33	39.02	52.35	50.16	47.70	62.07	58.84	55.16
		LDB	48.4	49.4	50.5	50.1	51.5	53.0	51.6	53.2	55.0
		LWB	47.1	48.6	50.1	48.4	50.4	52.4	49.5	51.8	54.3
		PD	0.89	1.57	2.56	1.36	2.39	3.84	1.86	3.21	5.09
	BF	0.08	0.09	0.00	0.11	0.12	0.00	0.13	0.14	0.00	
	45	TC	37.51	52.72	70.92	46.51	64.34	86.25	54.69	74.31	99.13
		SHC	36.20	35.01	33.78	45.77	43.70	41.42	54.44	51.55	48.07
		LDB	52.49	53.48	54.52	53.90	55.17	56.56	55.15	56.56	58.23
		LWB	50.88	52.56	54.03	51.73	53.94	55.89	52.38	55.05	57.40
		PD	0.46	0.93	1.65	0.72	1.40	2.49	1.01	1.90	3.32
	BF	0.10	0.09	0.14	0.13	0.11	0.15	0.16	0.13	0.17	
	50	TC	30.51	39.90	57.46	38.51	48.60	69.77	45.73	55.92	80.22
		SHC	30.51	29.80	28.40	38.51	37.39	35.03	45.73	44.28	40.90
		LDB	56.8	57.5	58.6	58.0	58.8	60.2	59.1	59.9	61.5
LWB		53.1	56.5	58.0	53.6	57.4	59.4	54.1	58.3	60.5	
PD		0.27	0.48	0.97	0.44	0.71	1.46	0.63	0.96	1.66	
BF	0.22	0.09	0.11	0.26	0.11	0.13	0.29	0.13	0.15		



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBB 20

SCT (F)	SET (F)		CFM @ 80 F EDB								
			1500			2000			2500		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	59.20	79.24	102.43	72.49	96.97	124.98	83.94	111.97	143.85
		SHC	46.93	45.29	43.71	58.87	56.11	53.16	69.72	65.64	61.13
		LDB	48.7	49.7	50.8	50.4	51.7	53.1	51.8	53.3	55.1
		LWB	47.6	49.1	50.6	48.9	50.8	52.8	50.0	52.3	54.6
		PD	0.68	1.19	1.97	1.02	1.61	2.96	1.39	2.44	3.93
	BF	0.08	0.10	0.00	0.11	0.13	0.00	0.13	0.15	0.00	
	45	TC	44.62	64.03	86.64	54.50	77.84	105.56	63.18	89.83	121.51
		SHC	40.28	38.64	36.99	50.71	47.94	45.18	60.26	56.36	52.21
		LDB	52.73	53.61	54.88	54.10	55.44	56.77	55.24	56.74	58.32
		LWB	51.50	53.07	54.56	52.46	54.46	56.34	53.20	55.54	57.78
		PD	0.35	0.70	1.26	0.52	1.05	1.90	0.71	1.41	2.52
	BF	0.09	0.09	0.00	0.12	0.12	0.00	0.14	0.14	0.00	
	50	TC	33.30	47.67	69.44	42.00	57.76	84.44	49.81	66.37	96.98
		SHC	33.30	32.04	30.27	42.00	39.98	37.15	49.81	47.18	43.06
		LDB	57.0	57.8	59.0	58.1	59.1	60.4	59.1	60.1	61.6
LWB		54.4	57.0	58.6	54.8	58.0	59.9	55.2	58.8	61.0	
PD		0.19	0.36	0.73	0.29	0.52	1.09	0.40	0.70	1.45	
BF	0.18	0.09	0.15	0.23	0.12	0.16	0.27	0.14	0.18		
95	40	TC	59.98	80.02	103.18	73.44	97.89	125.71	85.06	112.89	144.57
		SHC	47.30	45.65	44.04	59.31	56.52	53.47	70.22	66.03	61.43
		LDB	48.4	49.5	50.6	50.2	51.5	53.0	51.6	53.2	55.0
		LWB	47.4	48.9	50.4	48.7	50.7	52.7	49.8	52.1	54.5
		PD	0.81	1.42	2.33	1.22	2.15	3.47	1.66	2.87	4.60
	BF	0.08	0.11	0.00	0.11	0.13	0.00	0.13	0.15	0.00	
	45	TC	45.46	64.90	87.58	55.64	79.08	106.68	64.48	91.13	122.68
		SHC	40.64	39.00	37.37	51.21	48.44	45.62	60.84	56.88	52.67
		LDB	52.50	53.58	54.65	53.87	55.21	56.57	55.03	56.55	58.15
		LWB	51.28	52.85	54.33	52.24	54.23	56.15	53.01	55.35	57.62
		PD	0.42	0.84	1.50	0.63	1.26	2.25	0.86	1.68	2.98
	BF	0.09	0.09	0.00	0.11	0.12	0.00	0.14	0.14	0.00	
	50	TC	33.76	48.61	70.57	42.54	59.04	85.73	50.44	67.88	98.49
		SHC	33.76	32.40	30.69	42.54	40.47	37.62	50.44	47.74	43.61
		LDB	56.7	57.6	58.7	57.8	58.8	60.2	58.8	59.9	61.4
LWB		54.2	56.8	58.3	54.7	57.8	59.7	55.1	58.6	60.8	
PD		0.22	0.43	0.88	0.33	0.63	1.30	0.47	0.84	1.73	
BF	0.17	0.09	0.15	0.22	0.12	0.16	0.26	0.14	0.18		
105	40	TC	60.70	80.71	103.72	74.35	98.63	126.29	86.06	113.71	145.18
		SHC	47.63	45.96	44.28	59.72	56.85	53.72	70.67	66.39	61.68
		LDB	48.2	49.3	50.5	50.0	51.4	52.9	51.4	53.1	54.9
		LWB	47.2	48.7	50.2	48.5	50.5	52.6	49.7	52.0	54.4
		PD	0.97	1.70	2.77	1.48	2.56	4.11	1.99	3.40	5.41
	BF	0.08	0.11	0.00	0.11	0.13	0.00	0.13	0.15	0.00	
	45	TC	46.26	65.69	88.39	56.66	80.18	107.58	65.64	92.51	123.71
		SHC	40.99	39.33	37.71	51.65	48.90	45.98	61.35	57.44	53.07
		LDB	52.29	53.38	54.45	53.66	55.00	56.41	54.84	56.34	58.01
		LWB	51.08	52.65	54.14	52.05	54.03	55.99	52.83	55.15	57.48
		PD	0.51	1.01	1.80	0.77	1.52	2.68	1.04	2.04	3.55
	BF	0.09	0.10	0.00	0.11	0.12	0.00	0.14	0.14	0.00	
	50	TC	34.16	49.56	71.63	43.05	60.17	86.92	51.03	69.20	99.77
		SHC	34.16	32.77	31.10	43.05	40.89	38.05	51.03	48.23	44.08
		LDB	56.5	57.4	58.5	57.6	58.7	60.0	58.6	59.7	61.3
LWB		54.1	56.6	58.1	54.6	57.6	59.5	55.0	58.4	60.7	
PD		0.25	0.52	1.06	0.40	0.77	1.57	0.56	1.02	2.09	
BF	0.16	0.09	0.15	0.21	0.12	0.17	0.25	0.14	0.18		



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBB 30

SCT (F)	SET (F)		CFM @ 80 F EDB								
			2250			3000			3750		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	92.20	124.26	161.88	113.08	152.31	198.89	131.82	176.56	230.25
		SHC	81.50	78.84	76.42	103.13	98.64	94.33	123.24	116.62	109.93
		LDB	48.2	49.3	50.4	49.8	51.2	52.5	51.1	52.7	54.4
		LWB	47.5	48.9	50.1	48.8	50.6	52.2	49.8	52.0	54.0
		PD	0.25	0.45	0.74	0.38	0.68	1.14	0.52	0.91	1.54
		BF	0.04	0.04	0.00	0.06	0.06	0.13	0.08	0.07	0.11
	45	TC	71.22	98.55	134.94	89.59	119.81	164.59	106.59	138.26	190.19
		SHC	70.72	67.77	65.05	89.47	84.96	80.33	106.59	100.80	94.02
		LDB	52.40	53.65	54.80	53.79	55.21	56.65	55.01	56.46	58.13
		LWB	51.17	53.21	54.51	51.83	54.56	56.25	52.35	55.61	57.62
		PD	0.14	0.26	0.47	0.21	0.39	0.70	0.30	0.51	0.94
		BF	0.07	0.04	0.07	0.12	0.06	0.08	0.16	0.07	0.09
	50	TC	58.65	72.52	105.95	74.11	86.40	128.18	87.98	99.05	147.07
		SHC	58.65	58.02	53.87	74.11	71.88	66.68	87.98	85.53	78.21
		LDB	57.1	58.0	59.2	58.3	59.0	60.6	59.4	60.0	61.8
		LWB	53.3	57.5	58.8	53.7	58.3	60.2	54.2	59.1	61.3
		PD	0.09	0.13	0.27	0.14	0.19	0.39	0.19	0.24	0.51
		BF	0.23	0.05	0.05	0.27	0.06	0.07	0.30	0.08	0.08
95	40	TC	94.01	126.36	164.11	115.55	154.93	201.57	134.67	179.40	233.06
		SHC	82.34	79.79	77.41	104.27	99.78	95.48	124.55	117.82	111.10
		LDB	47.8	48.9	50.0	49.4	50.9	52.2	50.8	52.5	54.1
		LWB	47.2	48.5	49.7	48.5	50.3	51.9	49.5	51.7	53.7
		PD	0.31	0.53	0.89	0.46	0.81	1.36	0.62	1.09	1.82
		BF	0.04	0.04	0.00	0.06	0.06	0.14	0.08	0.07	0.12
	45	TC	72.68	100.63	137.33	91.00	122.54	167.63	108.14	141.49	193.84
		SHC	71.68	68.61	66.01	90.76	86.06	81.52	108.14	102.07	95.42
		LDB	52.03	53.31	54.42	53.41	54.89	56.30	54.65	56.16	57.81
		LWB	50.93	52.87	54.14	51.65	54.24	55.91	52.20	55.31	57.30
		PD	0.16	0.31	0.56	0.25	0.46	0.83	0.36	0.61	1.13
		BF	0.07	0.04	0.07	0.10	0.06	0.08	0.14	0.07	0.09
	50	TC	59.73	73.46	108.33	75.30	88.85	131.08	89.39	102.20	150.53
		SHC	59.73	57.76	54.75	75.30	72.77	67.72	89.39	86.70	79.41
		LDB	56.7	57.6	58.8	57.9	58.8	60.3	59.0	59.8	61.6
		LWB	53.1	57.1	58.5	53.6	58.1	59.9	54.0	58.8	61.0
		PD	0.11	0.15	0.32	0.16	0.23	0.47	0.23	0.30	0.61
		BF	0.21	0.04	0.05	0.25	0.06	0.07	0.29	0.08	0.08
105	40	TC	95.89	128.22	166.16	118.06	157.35	204.04	137.28	182.40	235.76
		SHC	83.22	80.63	78.32	105.41	100.84	96.55	125.78	119.12	112.23
		LDB	47.5	48.6	49.6	49.1	50.5	51.9	50.5	52.2	53.9
		LWB	46.9	48.2	49.4	48.2	50.0	51.6	49.2	51.4	53.4
		PD	0.37	0.64	1.06	0.55	0.97	1.63	0.76	1.32	2.18
		BF	0.04	0.04	0.00	0.06	0.06	0.00	0.08	0.07	0.12
	45	TC	74.06	102.73	139.48	92.53	125.19	170.51	109.75	144.72	197.16
		SHC	72.51	69.48	66.89	91.99	87.13	82.66	109.62	103.37	96.69
		LDB	51.70	52.97	54.08	53.05	54.57	55.97	54.30	55.86	57.51
		LWB	50.70	52.53	53.80	51.46	53.93	55.58	52.04	55.02	57.00
		PD	0.19	0.38	0.67	0.30	0.56	1.01	0.43	0.76	1.37
		BF	0.06	0.04	0.07	0.09	0.06	0.08	0.13	0.07	0.09
	50	TC	60.61	75.58	110.89	76.44	91.49	133.98	90.97	105.40	153.93
		SHC	60.61	58.55	55.69	76.44	73.77	68.77	90.97	87.91	80.61
		LDB	56.3	57.3	58.4	57.6	58.5	60.0	58.7	59.5	61.3
		LWB	52.9	56.8	58.1	53.4	57.8	59.6	53.9	58.5	60.7
		PD	0.12	0.20	0.39	0.20	0.28	0.56	0.27	0.36	0.75
		BF	0.20	0.04	0.05	0.24	0.06	0.07	0.28	0.08	0.08



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBB 40

SCT (F)	SET (F)		CFM @ 80 F EDB								
			3000			4000			5000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	108.73	146.69	190.78	132.87	179.42	234.24	154.60	208.48	272.37
		SHC	98.26	95.42	92.55	123.43	118.87	114.20	146.88	140.52	133.58
		LDB	49.1	50.1	51.1	50.8	52.0	53.3	52.3	53.6	55.1
		LWB	47.9	49.4	50.7	49.2	51.0	52.7	50.2	52.3	54.4
		PD	0.25	0.46	0.75	0.38	0.68	1.15	0.52	0.92	1.57
		BF	0.07	0.07	0.00	0.10	0.10	0.16	0.12	0.12	0.16
	45	TC	85.12	117.01	159.96	106.65	142.25	195.27	126.71	164.56	226.00
		SHC	84.99	82.61	79.51	106.65	103.13	98.17	126.71	122.21	114.96
		LDB	53.38	54.25	55.35	54.94	55.89	57.19	56.23	57.21	58.71
		LWB	51.28	53.44	54.86	51.95	54.75	56.51	52.49	55.77	57.85
		PD	0.15	0.26	0.48	0.22	0.40	0.72	0.31	0.53	0.96
		BF	0.12	0.07	0.10	0.17	0.09	0.12	0.21	0.11	0.14
	50	TC	70.95	85.34	126.37	89.05	103.05	152.94	105.69	118.69	175.76
		SHC	70.95	69.87	66.50	89.05	87.60	82.18	105.69	104.11	96.35
		LDB	57.9	58.4	59.6	59.2	59.7	61.1	60.3	60.7	62.3
		LWB	53.2	57.5	59.0	53.7	58.4	60.3	54.2	59.1	61.4
		PD	0.10	0.14	0.28	0.14	0.19	0.41	0.20	0.26	0.53
		BF	0.26	0.07	0.08	0.31	0.10	0.10	0.34	0.12	0.13
95	40	TC	110.73	148.87	193.11	135.45	182.24	237.15	157.83	211.66	275.43
		SHC	99.18	96.40	93.59	124.63	120.12	115.46	146.42	141.88	134.88
		LDB	48.8	49.8	50.8	50.5	51.7	53.0	52.0	53.4	54.8
		LWB	47.6	49.0	50.4	48.9	50.7	52.4	49.9	52.1	54.1
		PD	0.31	0.54	0.89	0.46	0.82	1.37	0.62	1.11	1.86
		BF	0.07	0.07	0.00	0.10	0.10	0.17	0.12	0.12	0.17
	45	TC	86.24	119.31	162.49	107.95	145.24	198.41	128.30	168.09	229.74
		SHC	85.92	83.55	80.54	107.95	104.34	99.41	128.30	123.62	116.41
		LDB	53.08	53.95	55.01	54.62	55.60	56.89	55.93	56.94	58.42
		LWB	51.12	53.14	54.53	51.82	54.46	56.22	52.36	55.50	57.57
		PD	0.17	0.32	0.57	0.26	0.47	0.86	0.37	0.63	1.15
		BF	0.11	0.07	0.10	0.16	0.09	0.12	0.20	0.12	0.14
	50	TC	72.07	87.76	129.09	90.32	106.11	156.55	107.24	122.22	180.06
		SHC	72.07	70.60	67.50	90.32	88.74	83.47	107.24	105.42	97.86
		LDB	57.6	58.1	59.2	58.9	59.4	60.8	60.0	60.5	62.0
		LWB	53.1	57.2	58.7	53.6	58.1	60.0	54.1	58.9	61.1
		PD	0.11	0.16	0.33	0.17	0.24	0.48	0.24	0.31	0.64
		BF	0.25	0.07	0.08	0.30	0.10	0.11	0.33	0.12	0.13
105	40	TC	112.64	151.12	195.53	138.12	184.86	239.87	161.00	214.76	278.11
		SHC	100.07	97.42	94.70	125.87	121.28	116.65	149.90	143.23	136.03
		LDB	48.5	49.4	50.4	50.2	51.5	52.7	51.7	53.1	54.6
		LWB	47.3	48.7	50.1	48.6	50.4	52.2	49.6	51.8	53.9
		PD	0.37	0.64	1.07	0.55	0.98	1.64	0.76	1.33	2.21
		BF	0.07	0.07	0.00	0.10	0.10	0.18	0.12	0.12	0.17
	45	TC	87.46	121.56	164.86	109.41	148.18	201.44	129.92	171.52	233.28
		SHC	86.83	84.47	81.51	109.30	105.54	100.62	129.92	124.98	117.80
		LDB	52.79	53.65	54.70	54.29	55.31	56.59	55.61	56.67	58.15
		LWB	50.95	52.84	54.23	51.67	54.17	55.93	52.23	55.23	57.31
		PD	0.20	0.38	0.68	0.32	0.57	1.03	0.44	0.77	1.40
		BF	0.10	0.07	0.10	0.15	0.09	0.12	0.19	0.12	0.14
	50	TC	72.96	90.09	131.89	91.54	109.11	159.63	108.76	125.73	183.87
		SHC	72.96	71.66	68.47	91.54	89.86	84.59	108.76	106.72	99.22
		LDB	57.3	57.8	58.9	58.6	59.1	60.5	59.7	60.2	61.8
		LWB	52.9	56.9	58.4	53.5	57.9	59.7	53.9	58.6	60.8
		PD	0.13	0.20	0.40	0.21	0.29	0.58	0.28	0.38	0.78
		BF	0.24	0.07	0.08	0.29	0.10	0.11	0.32	0.12	0.13



COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBA 60

SCT (F)	SET (F)		CFM @ 80 F EDB								
			5000			6000			7000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	223.03	288.46	361.64	252.16	324.96	408.44	278.42	357.94	445.60
		SHC	184.55	177.52	169.61	212.25	202.07	190.77	238.41	225.02	209.61
		LDB	46.3	47.7	49.3	47.7	49.3	51.2	48.9	50.8	52.9
		LWB	45.4	47.1	48.9	46.4	48.5	50.7	47.4	49.7	52.3
		PD	1.61	2.64	3.99	2.06	3.35	5.00	2.53	4.04	5.99
		BF	0.06	0.08	0.00	0.08	0.10	0.00	0.10	0.11	0.00
	45	TC	178.25	243.05	315.62	202.11	273.62	354.60	224.57	301.07	389.00
		SHC	163.53	156.96	149.40	188.92	179.25	168.64	213.36	200.15	186.05
		LDB	50.19	51.48	52.96	51.25	52.82	54.53	52.19	54.01	55.94
		LWB	49.13	50.76	52.54	49.89	51.89	54.00	50.53	52.88	55.29
		PD	0.94	1.71	2.81	1.21	2.18	3.53	1.48	2.64	4.23
		BF	0.06	0.07	0.00	0.08	0.09	0.16	0.10	0.10	0.16
	50	TC	142.22	193.32	265.02	164.58	217.66	297.43	185.69	239.37	326.02
		SHC	142.22	136.08	128.80	164.58	156.18	145.87	185.69	175.05	161.48
		LDB	54.1	55.3	56.7	55.0	56.3	58.0	55.8	57.3	59.1
		LWB	52.0	54.5	56.2	52.3	55.4	57.4	52.7	56.1	58.4
		PD	0.53	1.00	1.82	0.71	1.27	2.31	0.92	1.54	2.78
		BF	0.12	0.07	0.10	0.15	0.08	0.11	0.18	0.10	0.13
95	40	TC	222.53	287.77	360.40	251.71	323.82	404.39	277.68	356.25	442.89
		SHC	184.27	177.20	169.04	212.03	201.56	189.86	238.05	224.27	208.44
		LDB	46.4	47.8	49.4	47.7	49.4	51.3	49.0	50.9	53.0
		LWB	45.4	47.1	49.0	46.5	48.6	50.8	47.4	49.8	52.4
		PD	1.66	3.05	4.57	2.38	3.84	5.71	2.91	4.61	6.80
		BF	0.06	0.08	0.00	0.08	0.10	0.00	0.10	0.11	0.00
	45	TC	178.37	242.77	314.97	202.14	273.12	353.41	224.54	300.26	387.21
		SHC	163.58	156.82	149.12	188.92	179.04	168.15	213.35	199.82	185.34
		LDB	50.18	51.51	53.01	51.25	52.85	54.60	52.19	54.05	56.03
		LWB	49.12	50.78	52.59	49.89	51.92	54.07	50.53	52.93	55.38
		PD	1.09	1.98	3.23	1.40	2.51	4.05	1.73	3.05	4.83
		BF	0.06	0.07	0.18	0.08	0.09	0.16	0.10	0.10	0.16
	50	TC	142.38	193.44	264.73	164.69	217.32	298.84	185.78	239.18	325.05
		SHC	142.38	136.14	128.70	164.69	155.98	145.66	185.78	174.96	161.13
		LDB	54.1	55.3	56.7	54.9	56.4	58.0	55.8	57.3	59.2
		LWB	52.0	54.5	56.3	52.3	55.4	57.4	52.7	56.1	58.5
		PD	0.62	1.16	2.11	0.84	1.47	2.66	1.07	1.79	3.19
		BF	0.12	0.07	0.10	0.15	0.09	0.11	0.18	0.10	0.13
105	40	TC	222.08	286.75	358.68	251.00	322.54	401.70	276.66	353.99	440.87
		SHC	184.05	176.73	168.26	211.69	201.00	188.67	237.57	223.26	207.57
		LDB	46.4	47.9	49.5	47.8	49.5	51.5	49.0	51.0	53.1
		LWB	45.4	47.2	49.2	46.5	48.7	51.0	47.5	49.9	52.6
		PD	2.18	3.53	5.27	2.78	4.43	6.54	3.37	5.30	7.79
		BF	0.06	0.08	0.00	0.08	0.09	0.00	0.10	0.11	0.00
	45	TC	178.34	242.30	313.86	201.99	272.27	351.69	224.23	299.03	384.65
		SHC	163.56	156.62	148.67	188.84	178.69	167.43	213.17	199.30	184.30
		LDB	50.18	51.55	53.09	51.26	52.90	54.71	52.22	54.12	56.16
		LWB	49.12	50.82	52.67	49.90	51.98	54.17	50.55	52.99	55.51
		PD	1.28	2.32	3.74	1.63	2.93	4.66	2.02	3.52	5.54
		BF	0.06	0.07	0.18	0.08	0.09	0.15	0.10	0.10	0.15
	50	TC	142.46	193.37	264.09	164.73	217.13	295.84	185.78	238.73	323.46
		SHC	142.46	136.09	128.45	164.73	155.91	145.29	185.78	174.77	160.55
		LDB	54.0	55.3	56.8	54.9	56.4	58.1	55.8	57.3	59.3
		LWB	52.0	54.5	56.3	52.3	55.4	57.5	52.7	56.1	58.5
		PD	0.73	1.36	2.46	0.98	1.72	3.09	1.25	2.08	3.68
		BF	0.12	0.07	0.10	0.15	0.09	0.11	0.18	0.10	0.12



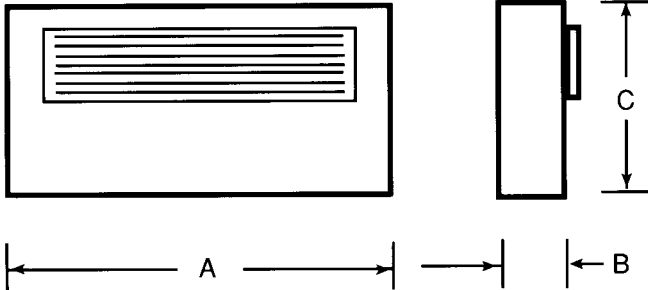
COOLING CAPACITY HIGH CAPACITY R-410A COILS

HBA 80

SCT (F)	SET (F)		CFM @ 80 F EDB								
			7000			8000			9000		
			AIR ENTERING TEMPERATURE EWB (F)								
			62	67	72	62	67	72	62	67	72
85	40	TC	296.67	381.99	476.69	323.17	414.66	516.11	347.32	444.36	553.35
		SHC	249.37	237.43	223.77	275.76	260.24	242.72	300.64	281.64	260.86
		LDB	47.5	49.1	51.0	48.5	50.4	52.5	49.5	51.5	53.7
		LWB	46.3	48.3	50.6	47.1	49.4	52.0	47.9	50.4	53.1
		PD	2.46	3.96	5.87	2.93	4.65	6.84	3.37	5.30	7.80
		BF	0.08	0.09	0.00	0.09	0.10	0.00	0.10	0.11	0.00
	45	TC	238.45	322.52	416.92	260.86	349.97	451.62	282.01	375.03	482.28
		SHC	222.21	211.00	198.23	246.83	231.90	215.77	270.16	251.67	231.72
		LDB	51.04	52.60	54.36	51.86	53.65	55.58	52.62	54.59	56.70
		LWB	49.75	51.72	53.85	50.33	52.61	54.98	50.83	53.39	55.99
		PD	1.44	2.60	4.18	1.73	3.08	4.87	2.02	3.52	5.54
		BF	0.08	0.08	0.15	0.09	0.10	0.15	0.11	0.11	0.16
	50	TC	193.66	256.92	350.66	215.07	279.17	379.94	235.30	299.16	405.85
		SHC	193.66	183.81	171.81	215.07	202.99	187.71	235.30	221.02	202.26
		LDB	54.8	56.2	57.8	55.5	57.0	58.8	56.2	57.7	59.7
		LWB	52.3	55.2	57.2	52.6	55.9	58.1	52.8	56.4	58.9
		PD	0.86	1.52	2.75	1.05	1.81	3.23	1.27	2.08	3.68
		BF	0.15	0.08	0.11	0.17	0.09	0.12	0.20	0.11	0.13
95	40	TC	295.89	380.35	473.85	322.09	412.42	513.95	345.95	441.45	550.63
		SHC	248.99	236.69	222.52	275.24	259.25	241.78	299.99	280.37	259.69
		LDB	47.5	49.2	51.2	48.6	50.5	52.6	49.6	51.7	53.9
		LWB	46.4	48.4	50.7	47.2	49.6	52.1	48.0	50.6	53.2
		PD	2.84	4.53	6.68	3.37	5.30	7.79	3.86	6.03	8.85
		BF	0.08	0.09	0.00	0.09	0.10	0.00	0.10	0.11	0.00
	45	TC	238.30	321.66	415.17	260.65	348.83	449.01	281.61	373.47	478.94
		SHC	222.12	210.61	197.50	246.74	231.42	214.72	269.97	251.02	230.40
		LDB	51.05	52.65	54.45	51.87	53.71	55.70	52.64	54.65	56.83
		LWB	49.76	51.77	53.94	50.34	52.66	55.09	50.84	53.45	56.12
		PD	1.68	3.01	4.77	2.01	3.53	5.56	2.34	4.02	6.29
		BF	0.08	0.08	0.15	0.09	0.10	0.15	0.11	0.11	0.15
	50	TC	193.73	256.45	349.70	215.11	278.83	378.50	235.27	298.53	403.87
		SHC	193.73	183.58	171.45	215.11	202.84	187.17	235.27	220.76	201.54
		LDB	54.8	56.2	57.8	55.5	57.0	58.8	56.2	57.7	59.8
		LWB	52.3	55.2	57.3	52.6	55.9	58.2	52.8	56.5	59.0
		PD	1.00	1.77	3.17	1.23	2.09	3.70	1.47	2.40	4.20
		BF	0.15	0.08	0.11	0.17	0.09	0.12	0.20	0.11	0.13
105	40	TC	294.75	378.10	470.86	320.61	409.44	511.03	344.05	437.77	547.05
		SHC	248.45	235.67	221.19	274.53	257.93	240.52	299.10	278.76	258.17
		LDB	47.6	49.4	51.4	48.7	50.7	52.8	49.7	51.8	54.0
		LWB	46.4	48.6	50.9	47.3	49.7	52.2	48.0	50.7	53.4
		PD	3.30	5.21	7.66	3.88	6.07	8.91	4.45	6.89	10.10
		BF	0.08	0.09	0.00	0.09	0.10	0.00	0.10	0.11	0.00
	45	TC	237.90	320.41	412.75	260.06	347.14	445.85	280.80	371.29	476.00
		SHC	221.92	210.08	196.51	246.43	230.72	213.44	269.55	250.13	229.23
		LDB	51.08	52.72	54.58	51.90	53.79	55.85	52.68	54.74	56.95
		LWB	49.78	51.84	54.07	50.37	52.74	55.24	50.88	53.54	56.24
		PD	1.97	3.48	5.49	2.34	4.07	6.37	2.73	4.63	7.21
		BF	0.08	0.08	0.15	0.09	0.10	0.15	0.11	0.11	0.15
	50	TC	193.70	256.41	348.39	215.02	277.67	376.31	235.11	297.55	401.24
		SHC	193.70	183.61	170.96	215.02	202.33	186.36	235.11	220.37	200.58
		LDB	54.8	56.2	57.9	55.5	57.0	58.9	56.2	57.8	59.8
		LWB	52.3	55.2	57.3	52.6	55.9	58.3	52.8	56.5	59.1
		PD	1.18	2.07	3.66	1.45	2.43	4.26	1.73	2.79	4.82
		BF	0.15	0.08	0.11	0.17	0.09	0.12	0.20	0.11	0.13

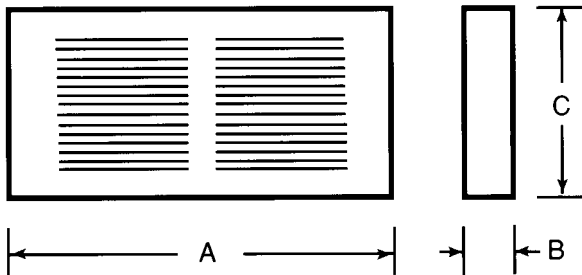
Discharge Grille Plenum

Adjustable four way deflection.

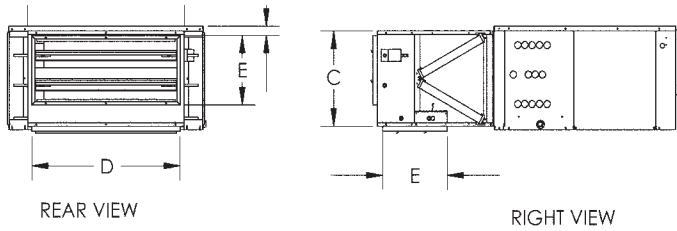


Model	A	B	C	WT.	Grille
04/06 HBGP	28.0	6.0	14.1	16	12 x 12
08/12 HBGP	36.5	6.0	18.0	20	12 x 20
16/20 HBGP	45.0	6.0	22.0	27	16 x 24
30/40 HBGP	57.0	6.0	34.0	58	12 x 48
60 HBGP	67.1	6.0	42.0	70	18 x 48
80 HBGP	72.0	6.0	47.0	70	4-12 x 30

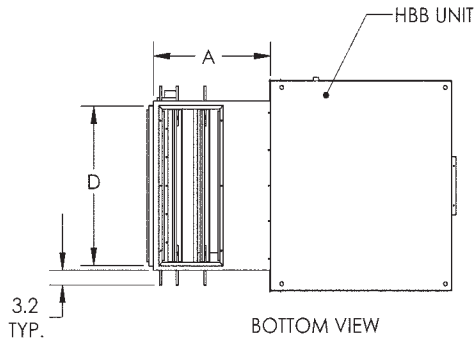
Return Air Grille



Model	A	B	C	WT.
04/06 BHRG	22	2.0	12.25	5
08/12 BHRG	27.50	2.0	16.00	7
16/20 BHRG	36.00	2.0	20.00	9
30/40 BHRG	48.00	2.0	32.00	19
60 BHRG	57.75	2.0	40.25	23
80 BHRG	66.00	2.0	45.00	24

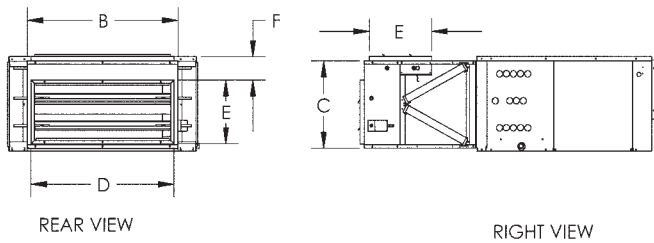


Size	Length	Width (centered)	Heigh (centered)	Duct Width	Duct Heigh	Top Clearance	Approx. Shipping Weight (lbs)	Filters	
								Size	Qty
04/06	A	B	C	D	E	F	40	14 x 20 x 2	2
08/12	22.1	22.1	12.3	20.4	7.6	2.0	90	16 x 25 x 2	2
16/20	27.0	27.7	16.4	25.9	11.6	2.0	140	16 x 32 x 2	2
30/40	27.0	36.2	20.4	34.3	15.0	2.0	200	20 x 24 x 2	4
60	32.0	48.2	32.4	46.3	15.0	9.7	260	20 x 25 x 2	4
								16 x 25 x 2	2
80	36.0	58.0	40.3	56.0	16.0	13.2	320	30 x 20 x 2	6

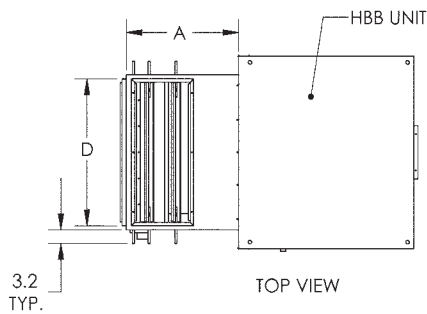


HBB Unit shown for reference.

For clarity, not all components are shown.



Size	Length	Width (centered)	Heigh (centered)	Duct Width	Duct Heigh	Top Clearance	Approx. Shipping Weight (lbs)	Filters	
								Size	Qty
04/06	A	B	C	D	E	F	40	14 x 20 x 2	2
08/12	22.1	22.1	12.3	20.4	7.6	4.8	90	16 x 25 x 2	2
16/20	27.0	27.7	16.4	25.9	11.6	4.9	140	16 x 32 x 2	2
30/40	27.0	36.2	20.4	34.3	15.0	5.5	200	20 x 24 x 2	4
60	32.0	48.2	32.4	46.3	15.0	9.7	260	20 x 25 x 2	4
								16 x 25 x 2	2
80	36.0	58.0	40.3	56.0	16.0	13.2	320	30 x 20 x 2	6





HB FACE AND BYPASS

Face and Bypass Damper Option

Face and bypass sections have opposed-acting damper blades in the face damper and opposed bypass damper.

All damper blades are galvanized steel, housed in a galvanized steel frame and mechanically fastened to a hex axle rod rotating in stainless steel bearings (premium dampers only). Dampers are sectionalized to limit blade

length to no more than 48 in. so as to minimize blade warpage. Neoprene blade seals are required to assure tight closure.

All dampers are rated for maximum leakage rate per square foot of 7 cfm at 1.0 in. wg.

SPECIFICATIONS								
MODEL	DAMPER AREA		UNIT SHIPPING WEIGHT		OPTIONAL FILTER SECTION			
	BYPASS	FACE	4 ROW SHIP WT	6 ROW SHIP WT	NOM. SIZE	W	H	D
HBB 08/12	4 X 27	12 X 27	180	200	1-16 X 32	27.50	23	9
HBB 16/20	4 X 35	16 X 35	258	277	2-20 X 20	36	27.25	9
HBB 30/40	5 X 46	29 X 46	541	576	3-16 X 32	48	39.50	9
HBA 60	7 X 54	38 X 54	739	826	6-20 X 25	58	51	10
HBA 80	7 X 60	38 X 60	822	903	2-16 X 20 2-16 X 25 2-20 X 20 2-20 X 25	66	54	10

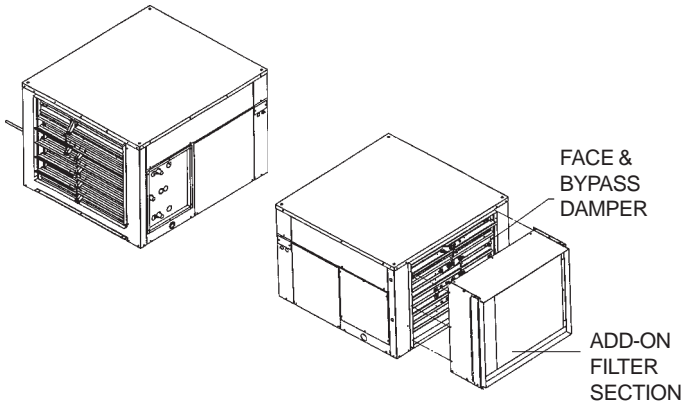
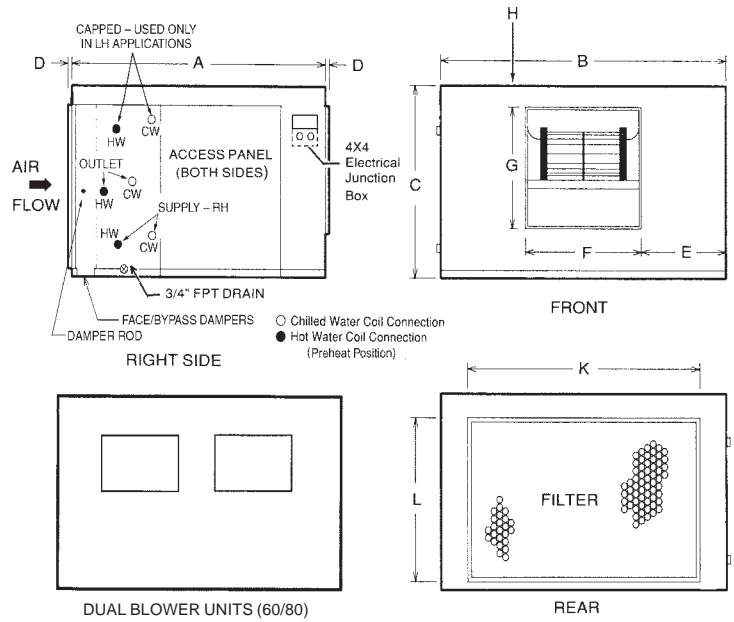
Water Volume in Gallons for Hydronic Coils (8.34#/gallon)

MODEL/UNIT HORIZONTAL C/W		MODEL/UNIT HORIZONTAL C/W		HOT WATER COIL HORIZONTAL	
HBB 08	0.55 GAL	HBB 08-6	0.83 GAL	08 HBH-2	0.31 GAL
HBB 12	0.84 GAL	HBB 12-6	1.26 GAL	12 HBH-2	0.65 GAL
HBB 16	1.11 GAL	HBB 16-6	1.66 GAL	16 HBH-2	0.69 GAL
HBB 20	1.38 GAL	HBB 20-6	2.07 GAL	20 HBH-2	0.86 GAL
HBB 30	2.92 GAL	HBB 30-6	4.39 GAL	30 HBH-2	1.32 GAL
HBB 40	3.75 GAL	HBB 40-6	5.63 GAL	40 HBH-2	1.72 GAL
HBB 60	5.25 GAL	HBB 60-6	7.87 GAL	60 HBH-2	2.62 GAL
HBB 80	6.94 GAL	HBB 80-6	10.40 GAL	80 HBH-2	3.47 GAL

HB Face and Bypass Dampers

Face and bypass dampers are widely accepted methods of coil freeze protection and humidity control. In northern climates, these dampers allow temperature control while running the preheat coil wide open. These same dampers can be used in south and southeastern climates that encounter extremely high humidity levels.

In cold climates the face and bypass damper is most often associated with a heating coil first in the air stream. The potential for a hot water heating coil to freeze exists when the space heating demand is minimal and the outside air temperature is at or below 32 degrees F. At this condition the water flow through the heating coil would likely be modulated down to a point where freezing could occur. By using a face and bypass damper the heating coil is allowed to operate with full hot water flow while the dampers modulate airflow around the coil to control the supply air temperature. When the outside air temperature is high enough such that coil freezing is unlikely, the bypass damper is closed and the coil hot water valve modulates to provide the correct supply air temperature. If the heating coil has no valve control, the coil operates wide open with the dampers providing the temperature control.



In regions where humidity control is required, this problem normally occurs at part-load conditions, providing the cooling coil is properly sized for full-load conditions in the space. By operating the cooling coil at full capacity, a percentage of the supply airflow is bypassed around the cooling coil while the balance of the air passing through the coil is cooled to a significantly lower dry bulb/wet bulb condition. By mixing the air off the cooling coil with the bypass air are supply air conditions that allow for a high latent cooling load, therefore maintaining control of the space relative humidity. This application works best with a major percentage of the air being returned from the conditioned space and a small percentage of outside air.

Face & Bypass Unit Cabinet Dimensions - N/A with Double Wall Cabinet											
Model	Unit						Blower Opening Outlet		Return Duct Connection		
	A	B	C	D	E	H	F	G	K	L	
HBB 04/06	N/A										
HBB 08/12	37.1	36.6	25.0	1.0	14.1	1.0	8.4	10.6	27.6	16.4	
HBB 16	42.0	45.0	29.9	1.0	17.9	1.0	9.1	13.8	36.0	20.0	
HBB 20	42.0	45.0	29.9	1.0	14.3	1.0	12.5	13.8	36.0	20.0	
HBB 30/40	52.5	57.0	41.6	1.0	21.8	9.1	13.4	16.2	48.0	32.2	
HBA 60	57.5	67.2	52.6	1.0	①	8.0	(2) 16.4	(2) 16.4	57.9	40.4	
HBA 80	57.5	72.3	56.4	1.0	②	13.0	(2) 16.4	(2) 16.4	66.0	45.7	

NOTE: Models 30-80 Top is always double wall.

① Blower opening 7" down from top of unit. Looking at discharge 14-3/8 left side, 11-3/8 center and 8-3/8 right side.

② Blower opening 11-7/8 down from top of unit. Looking at discharge 14-3/16 left side, 11-3/8 center and 13-5/16 right side.

ENGINEERING SPECIFICATIONS

Magic Aire[®]

United Electric Company designs and manufactures its Magic Aire[®] products in accordance with the following standards.

AIR FLOW	General Belt Drive Equipment Direct Drive Equipment	AMCA 210 ASHRAE 51 ARI 430 ARI 440
COIL CAPACITY	Hydronic Direct Expansion	ARI 410 ARI 210
IN DUCT SOUND RATINGS	Air Moving Equipment	ASHRAE 68 AMCA 330
SAFETY AGENCY LISTINGS	Coils UL Report # Equipment ETL Report #	UL 207 SA 3438 CAN/CSA C22.2 #236 ANSI/UL-1995 491893
MATERIAL SPECIFICATIONS	Sheet Metal Copper Tubing Aluminum	ASTM A525 ASTM A527 ASTM B68 ASTM B75 ASTM B88 ASTM B251 ASTM B209
MAJOR COMPONENTS	Motors Wire Electrical Filters Fiberglass Paint	UL/CSA NEMA UL/CSA UL/CSA UL ASHRAE 52 UL 181 UL 723 (25/50) ASTM E-84 ASTM B117

**MAGICAIRE HB SERIES FAN COILS ARE ETL
LISTED IN ACCORDANCE WITH UL 1995
AND ARE ASSEMBLED TO ORDER FOR COMPETITIVE DELIVERY.**



United Electric Company, L.P.

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