

NEW MODEL

WH Series

Chilled Water / Hot Water

Hot Water / Electric Heat

Air Handling Units



HORIZONTAL

2 THROUGH 20 TONS

DOUBLE WALL

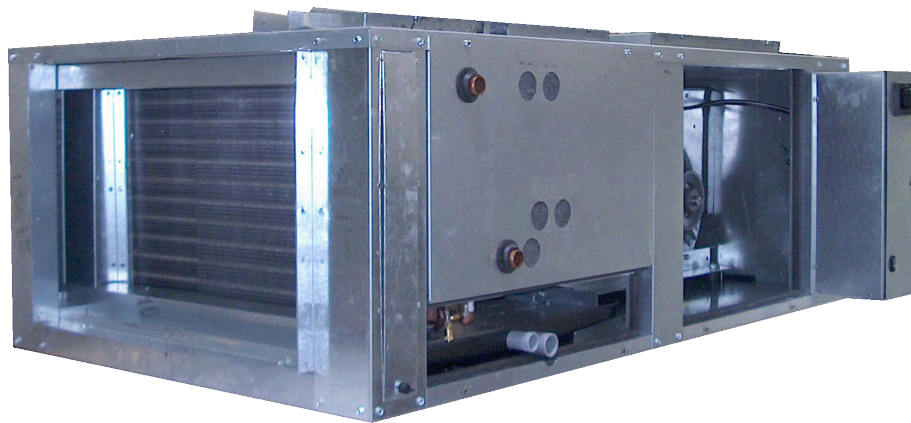


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STANDARD FEATURES

Unit Cabinet, Optional 1" double wall construction fabricated from a minimum of 18 gauge LFQ (lock forming quality) galvanized steel outer panels and a minimum 24 gauge inner liner fabricated from galvanized steel. Post and panel construction allows for large access panels to permit full access to internal components. The structural integrity of the cabinets remain unaffected by the removal of any or all access panels.

Insulation is a blanket-type made from glass fibers bonded with a thermosetting resin. Insulation shall be 1 inch, one and-one-half pound density providing effective acoustical and thermal control, fire safety, and resistance to air erosion. In addition to a water-based adhesive, insulation is fastened to cabinet with mechanical fasteners. This insulation meets the requirements of ASTM C 1071, ASTM G 21, ASTM G22, NFPA 90A and UL-181.

Coils are 1/2 inch staggered tube type construction with seamless copper tubes and headers, and deep corrugated aluminum fins with straight edges. Fins are manufactured with full depth collars, drawn in the fin stock to provide accurate control of fin spacing and completely cover the copper tubes to lengthen coil life. The tubes are mechanically expanded into the fins for a permanent primary to secondary surface bond, assuring maximum heat transfer efficiency. The coils are to be tested at 450 pounds air pressure for operation at 300 PSI gauge working pressure.

Drain pans are made from an UL94-5V rated, rigid PVC material with a three-way slope for positive drainage.

Fan Wheels are double width, double inlet (DWDI), forward curved, centrifugal type. They are statically and dynamically balanced for smooth, quiet operation. The Class I housing is constructed of heavy gauge steel with die-formed inlet cones.

Motors and Drives: Belt drive motors are standard duty, 1725 RPM, open, drip-proof construction. Single phase and most three phase motors are resilient mount with automatic reset thermal protection. Motor sheaves are variable pitch, cast iron with a split-tapered hub.

Blower and Motor mounting platform is constructed from 12 gauge LFQ (lock forming quality) galvanized steel. Platform is mounted to cabinet support rails with rubber in compression isolators for quiet vibration free operation. Blower exits cabinet through rubber-isolated frame.

Filter Section includes 2" pleated Merv 7 disposable type fiberglass filters. The 2" filter section is an integral part of the cabinet with easy tool free access.

OPTIONS

Coils are available with 2 circuit options for high or low flow applications. 1/2 inch coil rows options include 1, 2, 4, or 6 rows with a maximum total of 10 rows.

Drain pan options include stainless steel with an insulating coating.

Electric Heat: Discharge mounted electric heat available in a wide range of KW's and voltages. Available voltages are 120/1/60, 208/230/1/60, 277/1/60, 208/230/460/3/60, 575/3/60, 110/220/1/50, and 220/380/440-3-50.

Spring Isolators: Kits are available by unit size and coil rows with and without mixing boxes.

Motor options include 2-speed, TEFC, or (HE) High Efficient. Voltage options include 120/1/60, 208/1/60, 240/1/60, 277/1/60, 208/3/60, 240/3/60, 480/3/60, 575/3/60. Contact Factory for availability of 50HZ motors.

Motor Control Box: For use with standard motors with internal overload protection. The 986FF control box is factory installed and wired. Features include a Disconnect switch, HOA switch, power fusing, motor contactor, 24V control transformer and low voltage terminal block.

Motor Control Starters: For use with non-standard motors without internal overload protection. The 986FR starter box is factory installed and wired. Features include a non-fused disconnect switch with thru-the-door pad lockable handle, HOA switch, built-in overload and magnetic trip, 24V control transformer and low voltage terminal block.

Filter Section options include Double Wall flat filter sections available for filters up to 4". Double Wall angled filter sections accept 2" and 4" (4" for 16 and 20 only) deep filters. Filters are arranged in a "V" formation. Double wall access doors are standard on flat and angled filter sections.

Mixing Boxes are double wall construction with parallel blade, interconnecting outside-air and return-air dampers. Damper blades include stiffing breaks and are attached with 1/2" diameter steel rods rotating in nylon bushings and mounted in rigid galvanized steel frames. Dampers are rated as low-leakage, having a leakage rate not to exceed 2% of airflow. Damper blades are gasketed and include edge seal strips.

GUIDE SPECIFICATIONS

2.01 MANUFACTURERS

- A. The following manufacturers are approved for use. No substitutions will be permitted.
1. First Co.

2.02 CASING

- A. Unit shall have corrosion resistant casing consisting of galvanized post with 1" thick double wall panels. Unit panels shall consist of 1" thick 1.5lb fiberglass insulation sandwiched between galvanized steel exterior and interior panels. Panels are fastened to post with captured thumb-screws that hold panels in place with a closed cell neoprene gasket in between the panel and the post to prevent thermal bridging from the interior to the exterior of the unit.
- B. Removable panels on both sides of unit shall provide full access to unit components. Blower and filter access panels shall have tool free fasteners.
- C. Drain pans shall be an UL94-5 rated, rigid PVC material with a three way slope for positive drainage of condensate. Optional drain pan shall be heavy gauge stainless steel with an insulating coating. Secondary drain connections shall extend to cabinet exterior to comply with International Building Code and International Mechanical Code. Drain pans shall be removable for cleaning or replacement without removing coils or disturbing coil connections. Coil vents and drains shall be accessible from separate access panel.

2.03 SUPPLY FAN

- A. Provide DWDI forward-curved supply fans. Fan assemblies shall be statically and dynamically balanced by manufacturer. The housings are constructed from heavy gauge galvanized steel with die-formed inlet cones.
- B. Bearings shall be self-aligning , ball or roller bearings.
- C. Fan and motor mounting platform shall be a minimum of 12 gauge LFQ galvanized steel.

2.04 DRIVES

- A. Shafts shall be solid, hot rolled steel, ground and polished, keyed to shaft, and protectively coated with lubricating oil. Hollow shafts are not acceptable.
- B. V-belt drives shall be cast iron or steel sheaves, dynamically balanced, bored to fit shafts and keyed. Variable and adjustable pitch sheaves selected so required RPM is obtained with sheaves set at mid-position and rated based on motor horsepower.

2.05 ELECTRICAL

- A. Motors: provide (ODP) (TEFC) type with (EPACT) (premium) efficiency. Electrical characteristics shall be as shown in schedule.

2.07 COOLING AND HEATING COIL SECTIONS

- A. Provide access to coils from connection side of unit for service and cleaning. Enclose coil headers and return bends fully within unit cabinet. Drain and vent connections shall be accessible by separate access panel. Coil connections must be factory sealed with grommets on the exterior of unit casing to minimize air leakage and condensation inside panel assembly.
- B. Water Coils: fins shall have full drawn collars to provide a continuous surface cover over the entire tube for maximum heat transfer. Tubes shall be mechanically expanded into the fins to provide a continuous primary-to-secondary compression bond over the entire finned length for maximum heat transfer rates. Bare copper tube shall not be visible between fins. Coil tubes shall be seamless copper, expanded fins, brazed at joints. Water coils shall be provided with headers of seamless copper tubing with intruding holes tube holes to permit expansion and contraction without creating undue stress or strain. Coil connections shall be copper with connection size to be determined by manufacturer based upon the most efficient coil circuiting. Vent connections shall be provided at the highest point to assure proper venting. Coils shall be tested with 350 pounds air pressure and suitable for 300 psig working pressure. Coil casings shall be a formed channel frame of galvanized steel.

2.08 FILTERS

- A. Filter sections shall be Double wall construction.
- B. (Angled) (Flat) arrangement with (2") (4") deep pleated panel filters (4" angled for 16 or 20 only)
- C. Filter shall be MERV 7 (or MERV 8)
- D. Filter media shall be UL 900listed, Class I or Class II.

2.09 MIXING BOXES

- A. Optional mixing box consist of the same construction as described in "2.02 Casings." Section shall include factory mounted outside and return air dampers. Boxes shall be double wall construction with parallel blade, interconnecting outside-air and return-air dampers. Damper blades shall include stiffing breaks and attached with 1/2" diameter steel rods rotating in nylon bushings and mounted in rigid galvanized steel frames. Dampers shall be rated as low-leakage, having a leakage rate not to exceed 2% of airflow. Damper blades shall be gasketed and include edge seal strips.

PART 3: EXECUTION

3.01 INSTALLATION

- A. Install in accordance with manufacturer's instructions



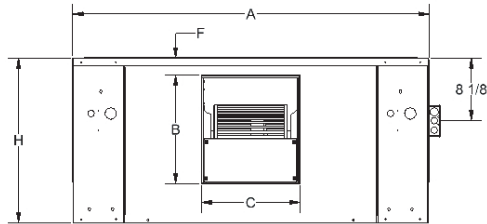
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MISC: _ _ _ _ _

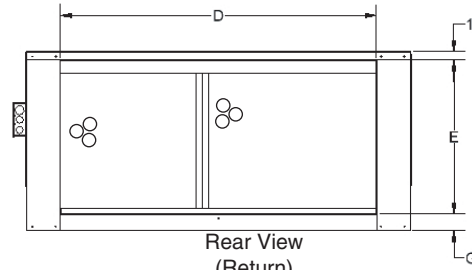
12 W H D * * - 4Q - 2H - * - R - 0.75 - 231 Nominal CFM 08 - 800 12 - 1200 16 - 1600 20 - 2000 30 - 3000 40 - 4000 60 - 6000 80 - 8000 Unit Type W - Water Configuration H - Horizontal Construction Type D - Double Wall Open Model Revision Coil Connection R Right Hand L Left Hand 3rd Coil Position 2nd Coil Position 1st Coil Position 1Q 1 row - quarter circuit 2F 2 row - full circuit 2H 2 row - half circuit 4H 4 row - half circuit 4Q 4 row - quarter circuit 6H 6 row - half circuit 6Q 6 row - quarter circuit Voltage 151 115V-1Ph-60Hz 201 208V-1Ph-60Hz 231 230V-1Ph-60Hz 271 277V-1Ph-60Hz 111 110V-1Ph-50Hz 221 220V-1Ph-50Hz 203 208V-3Ph-60Hz 233 230V-3Ph-60Hz 463 460V-3Ph-60Hz 573 575V-3Ph-60Hz 223 220V-3Ph-50Hz 383 380V-3Ph-50Hz 443 440V-3Ph-50Hz Horsepower 0.25 0.33 0.50 0.75 1.0 1.5 2.0 3.0 5.0 7.5 10.0									
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Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

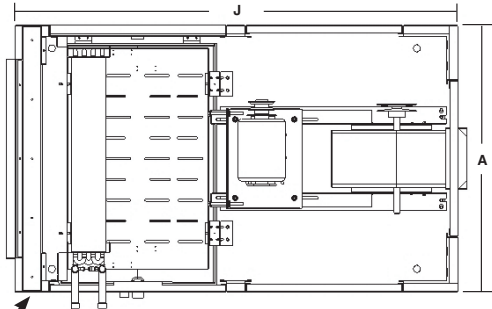
DIMENSIONS



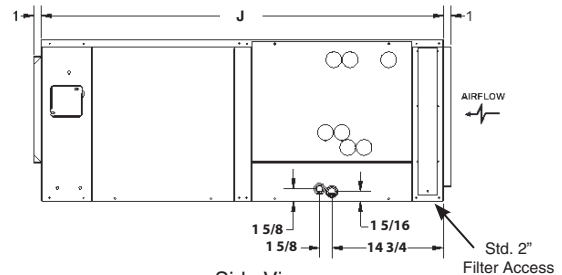
Front View
(Supply)



Rear View
(Return)



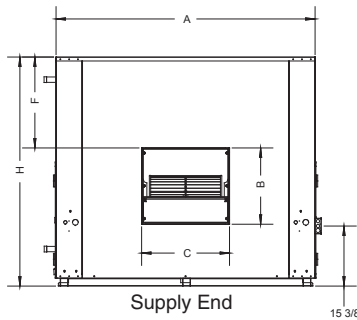
Plan View



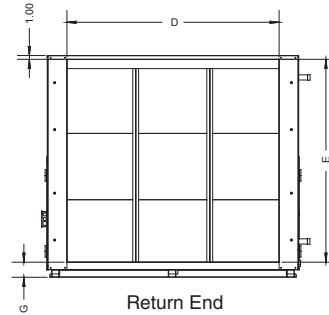
Side View
(Left Hand Connection)

Std. 2"
Filter Access

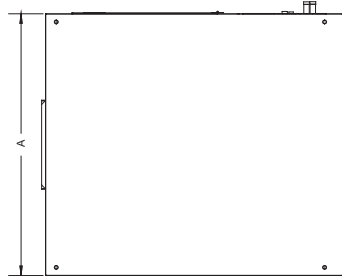
UNIT CABINET DIMENSIONS										FILTERS (MERV7)
UNIT MODEL	A	B	C	D	E	F	G	H	J	
8WH	32-1/4	10-7/8	7-1/2	24	16	1-3/4	2	19	53-1/4	(2) 16X25X2
12WH	36-1/4	10-7/8	8-7/8	24	16	1-3/4	2	19	53-1/4	(2) 16X25X2
16WH	40-1/4	12	10-1/4	32	18-1/2	2-1/4	2	21-1/2	53-1/4	(2) 18X20X2
20WH	46-1/4	14-1/8	12-7/8	38	18-1/2	2-1/4	2	21-1/2	53-1/4	(1) 18X20X2 (1) 18X24X2
30WH	46-1/4	16-1/2	15-1/4	36	31	8	2	34	66-1/8	(4) 16X20X2
40WH	57-1/4	16-1/2	19-1/4	47	31	7-7/8	2	34	66-1/8	(4) 16X25X2



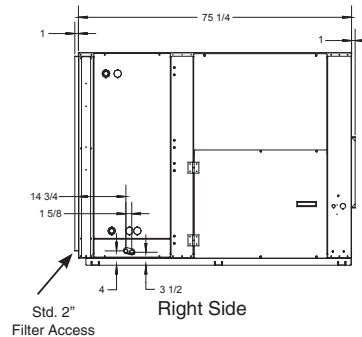
Supply End



Return End



Top View



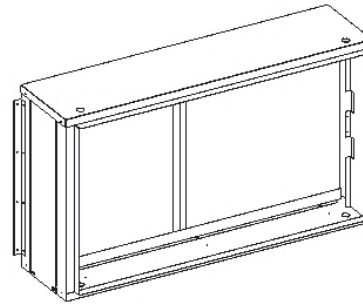
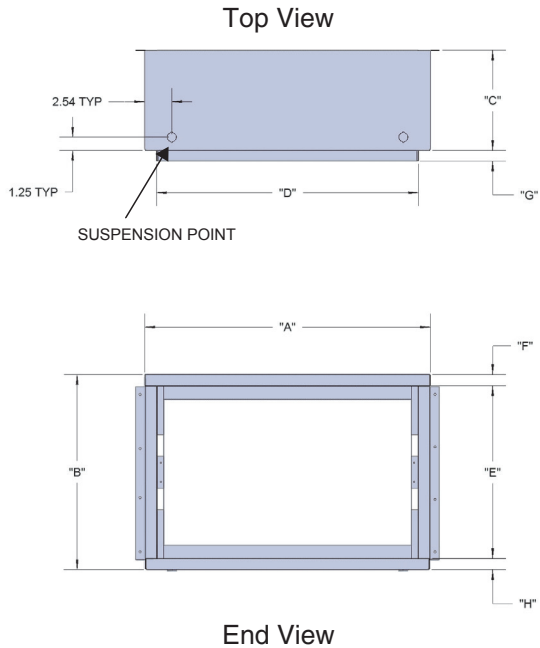
Right Side

UNIT CABINET DIMENSIONS										FILTERS (MERV7)
UNIT MODEL	A	B	C	D	E	F	G	H		
60WH	66-1/4	19-1/2	22-1/2	56	41	10-3/4	4	44		(9) 15x20x2
80WH	66-1/4	19-1/2	22-1/2	56	53-1/2	23-1/4	4	58-1/2		(9) 18x20x2

Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

FILTERS

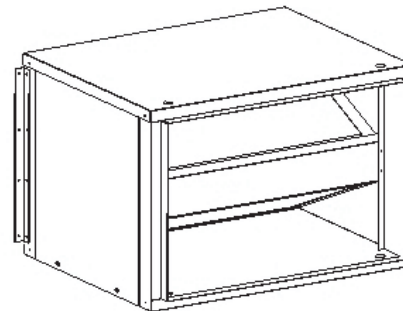
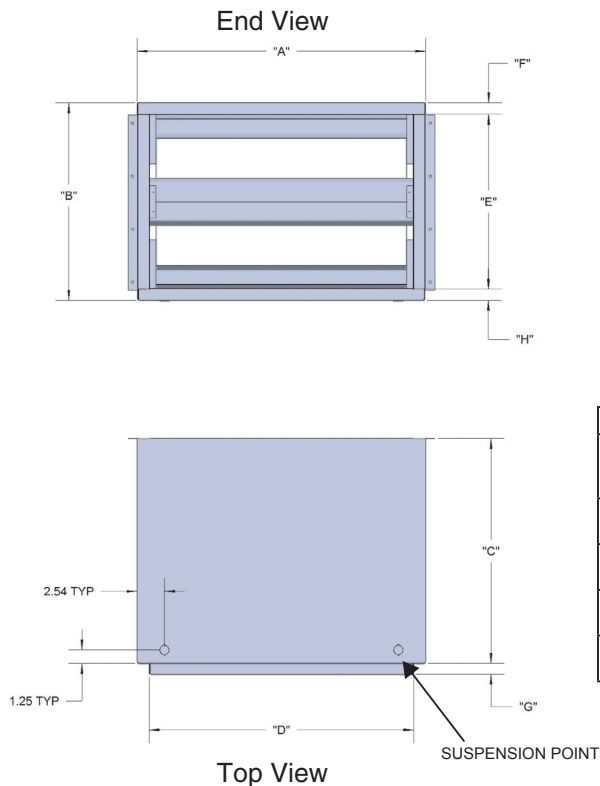
OPTIONAL FLAT FILTER SECTION



FLAT FILTER BOX											
UNIT SIZE	PART NUMBER	FILTER SIZE	A	B	C	D	E	F	G	H	FILTER SIZE (Qty)
8	9BDAF12F2 9BDAF12F4	2" 4"	26-13/16	18-3/8	9-7/16	24-1/2	16-1/4	1	1	1	(1) 25 X 16
12	9BDAF12F2 9BDAF12F4	2" 4"	26-13/16	18-3/8	9-7/16	24-1/2	16-1/4	1	1	1	(1) 25 X 16
16	9BDAF16F2 9BDAF16F4	2" 4"	37-1/4	21-1/2	9-7/16	35	19-3/4	1	1	1	(1) 16 X 20 (1) 20 X 20
20	9BDAF20F2 9BDAF20F4	2" 4"	41-1/4	21-1/2	9-7/16	39	19-3/4	1	1	1	(2) 20 X 20
30	9BDAF30F2 9BDAF30F4	2" 4"	41-13/16	34	9-3/8	39-5/8	32	1	1	1	(4) 16 X 20
40	9BDAF40F2 9BDAF40F4	2" 4"	51	34	9-3/8	48-7/8	32	1	1	1	(4) 16 X 25
60	9BDAF60F2 9BDAF60F4	2" 4"	61	44	9-3/8	58-7/8	42	1	1	1	(6) 20 X 20
80	9BDAF80F2 9BDAF80F4	2" 4"	61	56-1/2	9-3/8	58-7/8	54-1/4	1	1	1	(9) 20 X 18

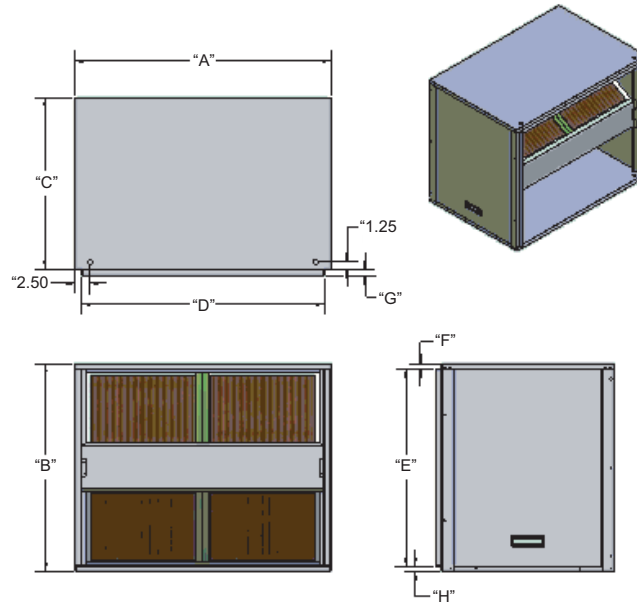
NOTE: Unit comes standard with 2" filter mounted in cabinet

OPTIONAL ANGLED FILTER SECTION



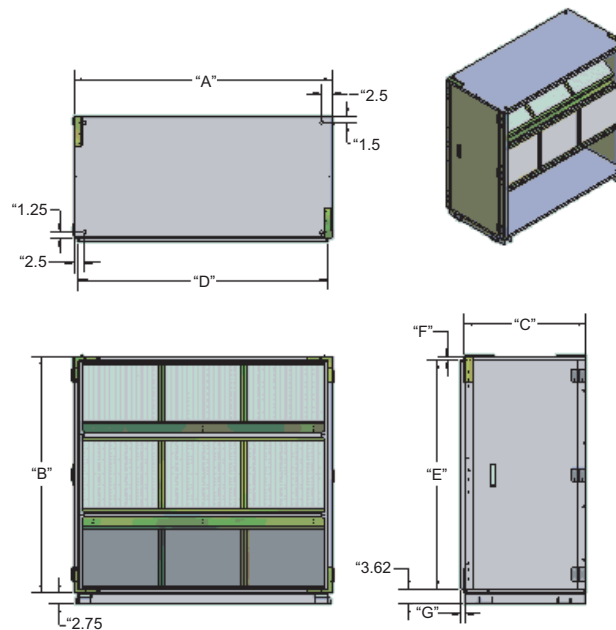
ANGLED FILTER BOX											
UNIT SIZE	PART NUMBER	FILTER SIZE	A	B	C	D	E	F	G	H	FILTER SIZE (Qty)
8	9BDAF12A2 9BDAF12A4	2" 4"	26.78	18.32	20.88	24.57	16.21	1	1	1	(2) 25 X 16
12	9BDAF12A2 9BDAF12A4	2" 4"	26.78	18.32	20.88	24.57	16.21	1	1	1	(2) 25 X 16
16	9BDAF16A2 9BDAF16A4	2" 4"	37.28	21.57	28.68	35.07	19.71	1	1	1	(2) 18 X 24
20	9BDAF20A2 9BDAF20A4	2" 4"	41.28	21.57	28.68	39.07	19.71	1	1	1	(2) 20 X 24

OPTIONAL ANGLED FILTER SECTION



ANGLED FILTER BOX											
UNIT SIZE	PART NUMBER	FILTER SIZE	A	B	C	D	E	F	G	H	FILTER SIZE (Qty)
30	9BDAF30A2 9BDAF30A4	2" 4"	41-13/16	34	28	39-5/8	32	1	1	1	(4) 20 X 25
40	9BDAF40A2 9BDAF40A4	2" 4"	51	34	27	48-7/8	32	1	1	1	(4) 16 X 24 (2) 18 x 24

NOTE: Unit comes standard with 2" filter mounted in cabinet

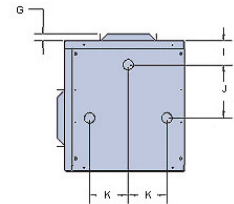
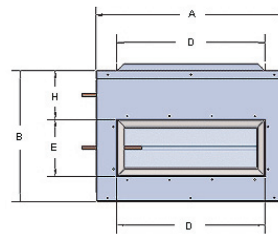
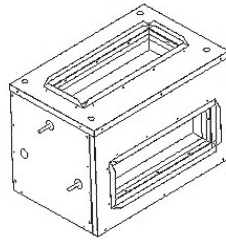
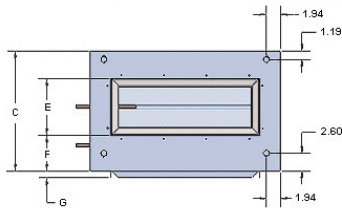


ANGLED FILTER BOX											
UNIT SIZE	PART NUMBER	FILTER SIZE	A	B	C	D	E	F	G	H	FILTER SIZE (Qty)
60	9BDAF60A2 9BDAF60A4	2" 4"	61	44	21-3/8	58-7/8	42	1	1	1	(9) 16 X 20
80	9BDAF80A2 9BDAF80A4	2" 4"	61	56-1/2	28-1/2	58-7/8	54-1/4	1	1	1	(3) 20 X 18 (6) 20 X 25

NOTE: Unit comes standard with 2" filter mounted in cabinet

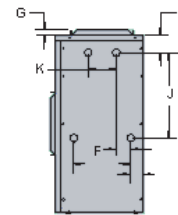
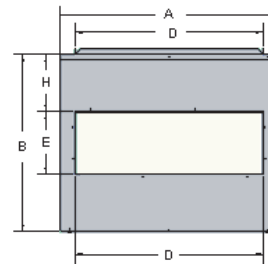
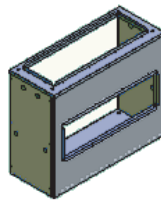
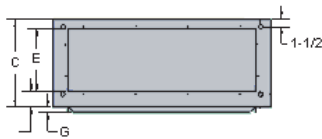
Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

MIXING BOX



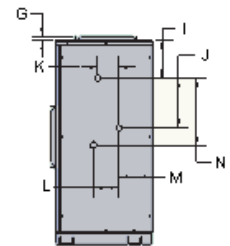
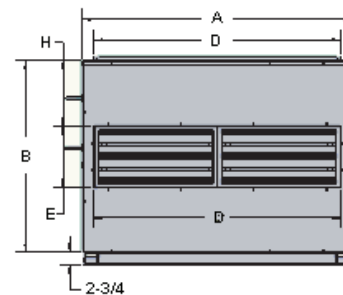
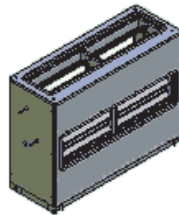
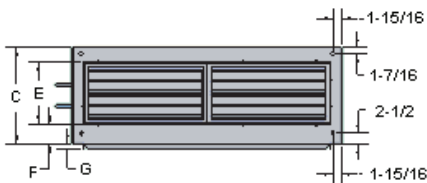
8-20 MIXING BOX DIMENSIONS

UNIT MODEL	A	B	C	D	E	F	G	H	I	J	K
9BDAM08	26.78	18.31	16.91	21.00	8.00	5.00	1.00	6.81	3.35	7.48	5.44
9BDAM12	26.78	18.31	16.91	21.00	8.00	5.00	1.00	6.81	3.35	7.48	5.44
9BDAM16	37.28	21.57	16.91	32.00	10.00	4.00	1.00	8.05	3.35	9.71	5.44
9BDAM20	41.28	21.57	16.91	36.00	10.00	4.00	1.00	8.05	3.35	9.71	5.44



30-40 MIXING BOX DIMENSIONS

UNIT MODEL	A	B	C	D	E	F	G	H	I	J	K
9BDAM30	37-13/16	34	16-15/16	36	12	3	1	11	3-3/8	16-3/8	5-3/8
9BDAM40	52-13/16	34	17	46	12	3	1	11	3-3/8	16-3/8	5-3/8

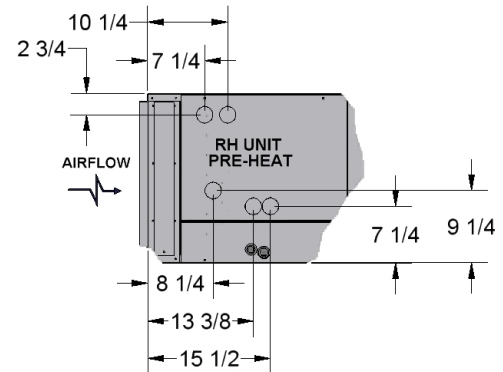
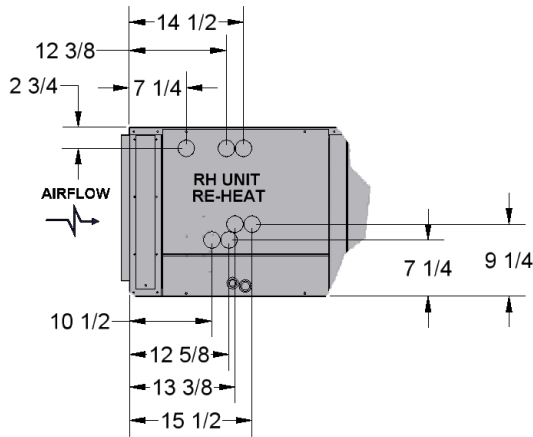
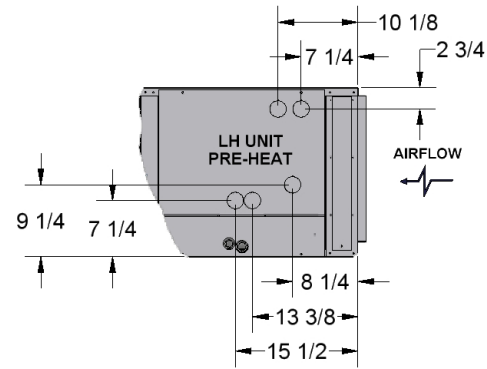
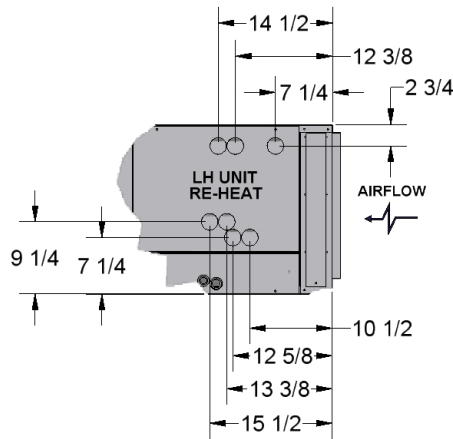


60-80 MIXING BOX DIMENSIONS

UNIT MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N
9BDAM60	61	43-5/16	22	56	14	4-9/16	1	14-11/16	8-1/2	11-1/4	4-7/8	5-7/8	7-1/2	15-3/16
9BDAM80	61	55-7/8	22	56	14	4-9/16	1	20-15/16	8-1/2	17-1/2	4-7/8	5-13/16	7-9/16	21-7/16

Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

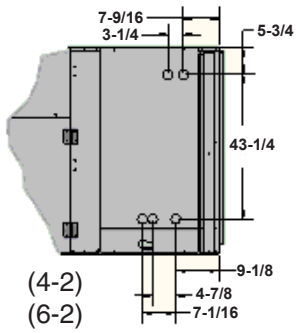
HYDRONIC MANIFOLD



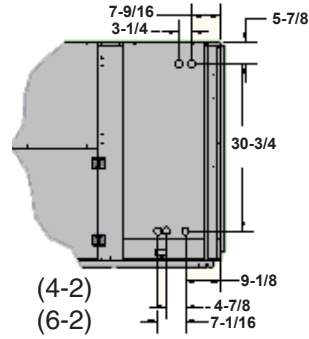
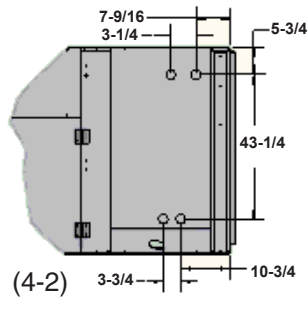
COIL MANIFOLD CONNECTIONS					PLASTIC CONDENSATE PAN CONNECTIONS		SS CONDENSATE PAN CONNECTIONS	
UNIT MODEL	1 ROW	2 ROW	4 ROW	6 ROW	PRIMARY	SECONDARY	PRIMARY	SECONDARY
8WH	7/8" O.D.	7/8" O.D.	7/8" O.D.	7/8" O.D.	3/4" PVC I.D.	1/2" PVC I.D.	3/4" MPT	3/4" MPT
12WH	7/8" O.D.	7/8" O.D.	7/8" O.D.	7/8" O.D.	3/4" PVC I.D.	1/2" PVC I.D.	3/4" MPT	3/4" MPT
16WH	7/8" O.D.	7/8" O.D.	1-1/8" O.D.	1-1/8" O.D.	3/4" PVC I.D.	1/2" PVC I.D.	3/4" MPT	3/4" MPT
20WH	7/8" O.D.	7/8" O.D.	1-1/8" O.D.	1-1/8" O.D.	3/4" PVC I.D.	1/2" PVC I.D.	3/4" MPT	3/4" MPT
30WH	1-3/8" O.D.	1-3/8" O.D.	1-3/8" O.D.	1-3/8" O.D.	3/4" PVC I.D.	1/2" PVC I.D.	3/4" MPT	3/4" MPT
40WH	1-3/8" O.D.	1-3/8" O.D.	1-3/8" O.D.	1-3/8" O.D.	3/4" PVC I.D.	1/2" PVC I.D.	3/4" MPT	3/4" MPT
COIL CONNECTIONS ARE COPPER SWEAT FITTINGS					PVC CONNECTIONS		MPT CONNECTIONS	

Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

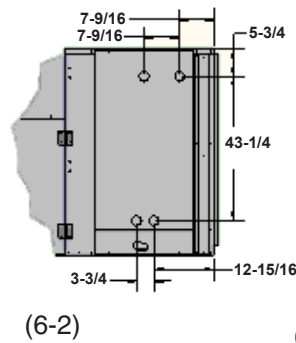
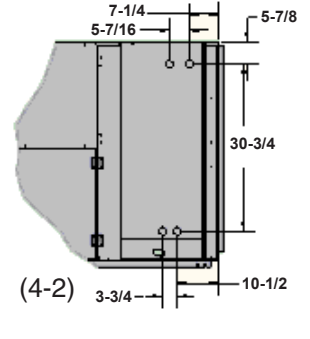
HYDRONIC MANIFOLD



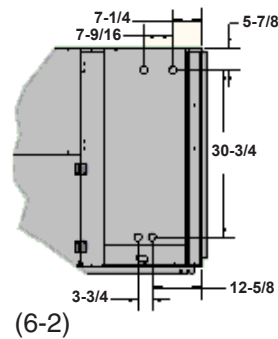
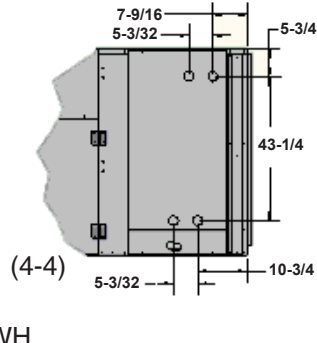
60WH



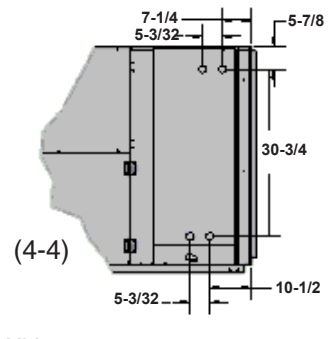
80WH



60WH



80WH



COIL MANIFOLD CONNECTIONS					PLASTIC CONDENSATE PAN CONNECTIONS		SS CONDENSATE PAN CONNECTIONS	
UNIT MODEL	1 ROW	2 ROW	4 ROW	6 ROW	PRIMARY	SECONDARY	PRIMARY	SECONDARY
60WH	1-3/8" O.D.	1-3/8" O.D.	1-3/8" O.D.	1-3/8" O.D.	3/4" PVC I.D.	1/2" PVC SLIP I.D.	3/4" MPT	3/4" MPT
80WH	1-3/8" O.D.	1-3/8" O.D.	1-3/8" O.D.	1-3/8" O.D.	3/4" PVC I.D.	1/2" PVC SLIP I.D.	3/4" MPT	3/4" MPT
COIL CONNECTIONS ARE COPPER SWEAT FITTINGS					PVC CONNECTIONS		MPT CONNECTIONS	

Product Specifications Horizontal Chilled Water / Hot Water / Electric Heat	8WH - 12WH COOLING PERFORMANCE
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8WH (4 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
600	4.1	2.8	23.4	16.2	11.4	55.1	54.5	17.8	14.0	8.7	53.3	52.9	29.3	18.2	14.3	56.9	56.4
800			26.6	19.6	13.0	57.3	56.6	20.3	17.1	9.9	55.1	54.5	33.4	21.9	16.3	59.6	58.8
1000			29.5	22.9	14.4	58.8	57.9	22.5	20.2	11.0	56.3	55.5	37.0	25.5	18.1	61.3	60.4
600	6.1	5.9	26.4	17.3	8.6	53.2	52.7	20.1	14.9	6.6	51.9	51.4	33.1	19.6	10.9	54.7	54.1
800			30.5	21.1	10.0	55.6	54.9	23.3	18.3	7.6	53.7	53.1	38.3	23.8	12.6	57.5	56.7
1000			34.4	24.8	11.3	57.1	56.2	26.3	21.6	8.6	55.0	54.2	43.2	27.8	14.2	59.3	58.3
600	8.1	10.1	27.9	10.0	6.9	52.3	51.8	21.3	15.4	5.3	51.2	50.7	35.0	20.4	8.6	53.5	52.9
800			32.6	21.9	8.0	54.6	53.9	24.9	19.0	6.1	53.0	52.4	40.8	24.7	10.1	56.3	55.8
1000			37.1	25.8	9.2	56.1	55.2	28.3	22.4	7.0	54.2	53.4	46.5	29.0	11.5	58.2	57.2

8WH (6 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
600	3.4	2.4	25.5	17.2	15.0	53.5	53.5	19.4	14.8	11.4	52.1	51.9	31.9	19.4	18.8	55.1	54.8
800			29.2	20.9	17.2	55.8	55.8	22.3	18.3	13.1	53.9	53.6	36.6	23.5	21.5	57.8	57.5
1000			32.6	24.6	19.2	57.2	56.8	24.9	21.6	14.6	55.0	54.7	40.8	27.5	24.0	59.5	59.1
600	5.4	5.6	29.9	18.9	11.1	50.8	50.5	22.8	16.2	8.5	50.0	49.7	37.5	21.2	13.9	52.2	51.9
800			35.0	23.3	13.0	53.1	52.8	26.7	20.1	9.9	51.8	51.4	43.9	26.3	16.3	54.5	54.2
1000			40.1	27.5	14.8	54.5	54.2	30.6	23.9	11.3	52.9	52.6	50.3	31.0	18.6	56.3	55.9
600	7.4	10.0	32.1	19.7	8.7	49.6	49.3	24.5	16.9	6.6	48.8	48.6	40.3	22.2	10.9	50.7	50.5
800			38.1	24.5	10.3	51.6	51.3	29.1	21.0	7.9	50.6	50.4	47.8	27.9	12.9	52.7	52.4
1000			44.0	29.1	11.9	53.1	52.7	33.6	25.1	9.1	51.8	51.4	55.2	32.9	14.9	54.5	54.1

12WH (4 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
1000	4.7	3.6	32.4	24.2	13.8	57.6	56.9	24.8	21.2	10.5	55.4	54.7	40.7	27.0	17.3	60.0	59.2
1200			35.4	27.5	15.1	58.8	57.9	27.1	24.2	11.5	56.3	55.5	44.5	30.6	18.9	61.3	60.4
1400			37.8	30.5	16.1	59.8	58.7	28.9	27.0	12.3	57.2	56.2	47.4	33.9	20.2	62.6	61.4
1000	6.7	6.7	36.8	25.8	11.0	56.1	55.3	28.1	22.5	8.4	54.2	53.5	46.2	29.0	13.8	58.1	57.3
1200			40.7	29.5	12.2	57.3	56.3	31.1	25.7	9.3	55.1	54.3	51.1	33.0	15.2	59.5	58.5
1400			43.9	32.8	13.1	58.3	57.2	33.5	28.7	10.0	56.0	55.0	55.1	36.6	16.4	60.8	59.6
1000	8.7	10.8	39.1	26.7	9.0	55.2	54.5	29.9	23.2	6.9	53.5	52.8	49.1	30.1	11.3	57.1	56.3
1200			43.5	30.5	10.0	56.4	55.5	33.2	26.6	7.6	54.5	53.6	54.6	34.3	12.6	58.5	57.5
1400			47.3	34.1	10.9	57.5	56.4	36.1	29.8	8.3	55.3	54.3	59.4	38.2	13.7	59.7	58.6

12WH (6 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
1000	4.0	3.5	36.1	26.0	18.0	55.9	55.6	27.5	22.7	13.8	54.0	53.7	45.3	29.2	22.6	58.0	57.6
1200			39.8	29.8	19.9	57.0	56.6	30.4	26.1	15.2	54.9	54.5	49.9	33.5	25.0	59.3	58.9
1400			42.7	33.3	21.4	58.0	57.5	32.6	29.3	16.3	55.6	55.2	53.6	37.2	26.8	60.4	60.0
1000	6.0	7.5	42.6	28.6	14.2	53.6	53.2	32.5	24.7	10.8	52.1	51.8	53.4	32.3	17.8	55.1	54.7
1200			47.6	32.8	15.9	54.7	54.3	36.4	28.5	12.1	53.0	52.7	59.8	37.0	19.9	56.4	56.0
1400			51.9	36.8	17.3	55.7	55.2	39.7	32.1	13.2	53.8	53.4	65.2	41.4	21.7	57.6	57.2
1000	8.0	13.1	46.1	29.9	11.5	52.3	51.9	35.2	25.8	8.8	51.1	50.8	57.8	34.0	14.5	53.5	53.1
1200			51.9	34.5	13.0	53.4	53.0	39.6	29.8	9.9	52.0	51.6	65.1	39.1	16.3	54.8	54.4
1400			57.1	38.8	14.3	54.3	53.9	43.6	33.6	10.9	52.7	52.3	71.6	43.8	17.9	56.0	55.5

Contact factory for additional coil circuit options

Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

**16WH - 20WH
COOLING PERFORMANCE**

16WH (4 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
1400	5.5	4.2	42.5	32.7	15.4	58.4	57.6	32.4	28.7	11.8	56.0	55.3	53.3	36.4	19.4	60.9	60.1
1600			44.4	35.6	16.2	59.4	58.5	33.9	31.4	12.3	56.8	56.0	55.7	39.6	20.3	62.1	61.1
1800			46.7	38.6	17.0	60.1	59.1	35.7	34.2	13.0	57.4	56.5	58.6	42.9	21.3	62.9	61.8
1400	8.5	9.1	50.4	35.7	11.9	56.4	55.6	38.4	31.1	9.1	54.4	53.7	63.2	40.0	14.9	58.5	57.7
1600			53.5	39.0	12.6	57.4	56.5	40.8	34.1	9.6	55.3	54.4	67.1	43.6	15.8	59.7	58.7
1800			56.8	42.4	13.4	58.2	57.2	43.4	37.2	10.2	55.9	54.9	71.3	47.4	16.8	60.6	59.5
1400	11.5	15.5	54.3	37.2	9.4	55.4	54.6	41.4	32.3	7.2	53.7	52.9	68.1	41.9	11.8	57.3	56.5
1600			58.0	40.7	10.1	56.4	55.5	44.3	35.5	7.7	54.5	53.6	72.8	45.8	12.7	58.5	57.5
1800			62.1	44.4	10.8	57.2	56.1	47.4	38.7	8.3	55.1	54.1	77.9	49.8	13.6	59.4	58.3

16WH (6 ROW - QUARTER CIRCUIT) (45° EWT)																			
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB						
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB		
1400 1600 1800	4.0	3.3	43.0 44.7 47.2	33.5 36.7 40.0	21.5 22.4 23.6	57.8 58.8 59.4	57.5 58.4 59.0	32.8 34.2 36.1	29.5 32.4 35.5	16.4 17.1 18.0	55.5 56.3 56.8	55.2 55.9 56.4	53.9 56.2 59.3	37.4 40.8 44.4	27.0 28.1 29.7	60.3 61.4 62.2	56.9 61.0 61.7		
1400 1600 1800			6.5	7.7	54.9 58.5 62.4	38.1 41.8 45.7	16.9 18.0 19.2	54.8 55.8 56.5	54.4 55.4 56.1	42.0 44.6 47.6	33.1 36.4 39.9	12.9 13.7 14.7	53.1 53.9 54.5	52.8 53.6 54.1	68.9 73.4 78.3	42.9 47.0 51.2	21.2 22.6 24.1	56.6 57.8 58.7	56.2 57.4 58.2
1400 1600 1800					9.0	13.6	61.5 66.1 71.1	40.7 44.8 49.0	13.7 14.7 15.8	53.1 54.1 54.8	52.7 53.7 54.5	47.0 50.5 54.3	35.2 38.8 42.6	10.4 11.2 12.1	51.7 52.5 53.1	51.4 52.2 52.7	77.2 83.0 89.3	46.1 50.6 55.3	17.2 18.5 19.8

20WH (4 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
1800	6.0	5.5	51.3	40.6	17.1	59.1	58.2	39.2	35.8	13.1	56.6	55.8	64.4	45.2	21.5	61.7	60.8
2000			52.8	43.4	17.6	59.9	58.9	40.3	38.4	13.5	57.2	56.3	66.3	48.2	22.1	62.7	61.6
2200			55.3	46.5	18.4	60.4	59.4	42.2	41.2	14.1	57.6	56.7	69.4	51.6	23.1	63.3	62.1
1800	8.5	10.0	59.8	43.8	14.1	57.4	56.6	45.7	38.3	10.8	55.3	54.5	75.1	49.1	17.7	59.7	58.8
2000			62.3	46.9	14.7	58.3	57.3	47.6	41.2	11.2	55.9	55.0	78.2	52.4	18.4	60.7	59.7
2200			65.6	50.3	15.4	58.8	57.8	50.1	44.2	11.8	56.4	55.4	82.3	56.1	19.4	61.4	60.3
1800	11.0	15.7	64.7	45.7	11.8	56.5	55.6	49.4	39.8	9.0	54.5	53.7	81.2	51.3	14.8	58.6	57.7
2000			67.8	48.9	12.3	57.3	56.4	51.8	42.8	9.4	55.2	54.3	85.0	54.9	15.5	59.6	58.6
2200			71.7	52.6	13.0	57.9	56.8	54.7	46.0	10.0	55.6	54.6	89.9	58.8	16.4	60.3	59.1

20WH (6 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
1800	4.5	4.7	52.4	42.0	23.3	58.4	58.0	40.0	37.1	17.8	55.9	55.6	65.7	46.8	29.2	60.9	60.6
2000			53.7	45.0	23.9	59.2	58.8	41.0	39.8	18.2	56.6	56.2	67.4	49.9	30.0	61.9	61.5
2200			56.6	48.5	25.2	59.6	59.2	43.2	43.0	19.2	56.9	56.5	71.0	53.8	31.6	62.4	61.9
1800	7.0	10.1	66.8	47.5	19.1	55.6	55.2	51.0	41.1	14.6	53.7	53.4	83.9	53.4	24.0	57.5	57.2
2000			69.8	51.0	20.0	56.4	56.0	53.3	44.5	15.2	54.4	54.0	87.6	57.2	25.0	58.5	58.1
2200			73.9	54.9	21.1	56.9	56.5	56.4	48.1	16.1	54.8	54.4	92.7	61.5	26.5	59.1	58.7
1800	9.5	17.3	75.1	50.7	15.8	53.9	53.6	57.3	43.9	12.1	52.4	52.1	94.2	57.3	19.8	55.5	55.1
2000			79.1	54.6	16.7	54.7	54.3	60.4	47.4	12.7	53.1	52.7	99.2	61.5	20.9	56.5	56.1
2200			84.1	58.8	17.7	55.2	54.8	64.3	51.2	13.5	53.5	53.1	105.6	66.2	22.2	57.1	56.7

Contact factory for additional coil circuit options

Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

**30WH - 40WH
COOLING PERFORMANCE**

30WH (4 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
2500	9.0	6.0	75.2	58.3	16.7	58.4	57.7	57.4	51.3	12.8	56.0	55.3	94.3	65.0	21.0	60.9	60.2
3000			82.0	66.4	18.2	59.5	58.6	62.6	58.7	13.9	56.9	56.1	102.9	73.8	22.9	62.2	61.3
3500			87.2	73.9	19.4	60.5	59.4	66.6	65.5	14.8	57.7	56.7	109.4	81.9	24.3	63.3	62.2
2500	12.0	10.1	85.6	62.2	14.3	57.0	56.2	65.4	54.4	10.9	54.9	54.2	107.4	68.7	17.9	59.2	58.4
3000			94.4	71.0	15.7	58.1	57.2	72.1	62.3	12.0	55.8	55.0	118.4	79.3	19.7	60.5	59.6
3500			101.4	79.0	16.9	59.1	58.1	77.4	69.6	12.9	56.6	55.6	127.2	88.1	21.2	61.7	60.6
2500	15.0	14.9	92.3	64.8	12.3	56.0	55.3	70.5	56.4	9.4	54.1	53.5	115.8	72.8	15.4	58.0	57.3
3000			102.3	74.0	13.6	57.2	56.3	78.2	64.7	10.4	55.0	54.2	128.4	83.0	17.1	59.4	58.5
3500			110.7	82.5	14.8	58.2	57.2	84.6	72.4	11.3	55.9	54.9	139.0	92.2	18.5	60.6	59.5

30WH (6 ROW - QUARTER CIRCUIT) (45° EWT)																			
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB						
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB		
2500 3000 3500	8.0	6.7	84.1 92.6 99.4	62.7 72.0 80.6	21.0 23.1 24.9	56.8 57.8 58.7	56.5 57.4 58.3	64.2 70.7 75.9	54.9 63.3 71.2	16.1 17.7 19.0	54.7 55.5 56.2	54.4 55.1 55.8	105.5 116.1 124.7	70.2 80.3 89.7	26.4 29.0 31.2	59.0 60.2 61.3	58.7 59.8 60.8		
2500 3000 3500			10.0	10.0	94.5 105.0 113.6	66.7 76.7 85.9	18.9 21.0 22.7	55.3 56.3 57.3	55.0 56.0 56.9	72.2 80.2 86.7	58.1 67.0 75.3	14.4 16.0 17.4	53.5 54.3 55.1	53.2 54.0 54.7	118.6 131.7 142.5	75.0 85.6 95.6	23.7 26.3 28.5	57.2 58.6 59.7	56.9 58.2 59.3
2500 3000 3500					12.0	13.9	102.2 114.2 124.3	69.7 80.2 90.0	17.0 19.0 20.7	54.2 55.3 56.2	53.9 54.9 55.8	78.0 87.2 95.0	60.4 69.8 78.6	13.0 14.5 15.8	52.6 53.5 54.2	52.3 53.1 53.8	128.2 143.3 156.0	78.2 89.6 100.3	21.4 23.9 26.0

40WH (4 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
3400	11.0	10.1	100.1	78.4	18.2	58.6	57.9	76.5	69.1	13.9	56.2	55.5	125.6	87.4	22.8	61.2	60.4
	13.0	13.6	108.7	81.6	16.7	57.8	57.0	83.0	71.6	12.8	55.5	54.8	136.4	91.2	21.0	60.2	59.4
	15.0	17.7	115.2	84.1	15.4	57.1	56.4	88.0	73.6	11.7	55.0	54.3	144.5	94.2	19.3	59.4	58.6
4000	11.0	10.1	109.1	88.5	19.8	59.5	58.6	83.3	78.2	15.2	56.9	56.1	136.9	98.4	24.9	62.2	61.3
	13.0	13.6	118.9	92.1	18.3	58.7	57.8	90.8	81.1	14.0	56.2	55.4	149.3	102.7	23.0	61.2	60.3
	15.0	17.7	126.4	94.9	16.9	58.0	57.2	96.6	83.3	12.9	55.7	54.9	158.6	106.0	21.2	60.5	59.5
4600	11.0	10.1	116.2	97.7	21.1	60.3	59.3	88.7	86.6	16.1	57.8	56.6	145.8	108.4	26.5	63.2	62.1
	13.0	13.6	127.3	101.7	19.6	59.5	58.5	97.2	89.8	15.0	56.9	56.0	159.7	113.2	24.6	62.2	61.1
	15.0	17.7	135.8	104.9	18.1	58.9	57.9	103.7	92.3	13.8	56.4	55.5	170.4	116.9	22.7	61.5	60.4

40WH (6 ROW - QUARTER CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	80 F DB / 67 F WB					75 F DB / 63 F WB					85 F DB / 71 F WB				
			TO- TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO- TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
3400	8.0	9.1	102.0	80.7	24.0	58.0	57.7	77.9	71.0	18.3	55.7	55.4	128.0	89.9	30.1	60.5	60.2
	10.0	12.2	113.3	84.9	22.7	56.9	56.6	86.5	74.4	17.3	54.7	54.4	142.2	93.4	28.4	59.6	59.2
	11.5	15.6	122.5	88.2	21.3	56.0	55.7	93.5	77.2	16.3	54.0	53.7	153.7	96.5	26.7	58.7	58.4
4000	8.0	9.1	111.9	91.7	26.3	58.8	58.4	85.5	81.0	20.1	56.2	55.9	140.4	99.7	33.0	61.9	61.5
	10.0	12.2	124.8	95.7	25.0	57.9	57.5	95.3	84.8	19.1	55.4	55.0	156.6	103.4	31.3	61.1	60.7
	11.5	15.6	135.4	98.7	23.5	57.1	56.8	103.4	88.0	18.0	54.6	54.3	169.8	107.3	29.5	60.2	59.8
4600	8.0	9.1	119.9	101.7	28.2	59.5	59.1	91.6	90.4	21.5	56.8	56.4	150.4	108.5	35.4	63.2	62.7
	10.0	12.2	134.2	105.2	26.8	58.8	58.4	102.5	94.6	20.5	56.0	55.6	168.4	112.8	33.7	62.3	61.8
	11.5	15.6	146.0	108.7	25.4	58.1	57.7	111.5	89.1	19.4	55.3	54.9	183.3	117.3	31.9	61.4	60.9

Contact factory for additional coil circuit options

Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

60WH - 80WH
COOLING PERFORMANCE

60WH (4 ROW - HALF CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	75 F DB / 63 F WB					80 F DB / 67 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
5200	23.0	9.0	127.4	109.8	11.1	55.5	54.8	166.8	125.2	14.5	57.7	57.0	209.3	139.9	18.2	60.1	59.3
6000			137.2	122.2	11.9	56.1	55.4	179.7	138.9	15.6	58.6	57.7	225.5	154.9	19.6	61.1	60.2
6800			142.9	132.9	12.4	56.9	56.0	187.1	150.5	16.3	59.5	58.6	234.8	167.4	20.4	62.2	61.2
5200	27.0	12.2	136.2	113.3	10.1	54.8	54.2	178.4	129.6	13.2	56.9	56.2	223.9	145.2	16.6	59.2	58.4
6000			147.4	126.2	10.9	55.5	54.8	193.0	143.9	14.3	57.8	57.0	242.2	160.9	17.9	60.2	59.3
6800			154.5	137.3	11.4	56.3	55.4	202.3	156.1	15.0	58.7	57.8	253.8	174.1	18.8	61.3	60.3
5200	31.0	15.8	143.2	116.0	9.2	54.3	53.7	187.6	133.1	12.1	56.3	55.6	235.4	149.5	15.2	58.4	57.6
6000			155.5	129.3	10.0	55.1	54.3	203.6	147.9	13.1	57.2	56.3	255.5	165.8	16.5	59.4	58.5
6800			163.7	140.9	10.6	55.8	54.9	214.3	160.6	13.8	58.1	57.2	268.9	179.5	17.4	60.6	59.6

60WH (6 ROW - HALF CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	75 F DB / 63 F WB					80 F DB / 67 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
5200	17.0	5.9	130.1	112.9	15.3	54.9	54.6	170.4	128.8	20.0	57.1	56.8	213.8	144.0	25.2	59.4	59.1
6000			140.5	126.3	16.5	55.5	55.2	183.9	143.6	21.6	57.8	57.5	230.8	160.2	27.2	60.3	59.9
6800			145.7	137.8	17.1	56.2	55.9	190.8	156.0	22.5	58.8	58.4	239.4	173.4	28.2	61.4	61.0
5200	21.0	8.9	145.5	119.0	13.9	53.8	53.5	190.6	136.5	18.2	55.7	55.4	239.1	153.3	22.8	57.7	57.4
6000			158.1	133.2	15.1	54.5	54.1	207.0	152.3	19.7	56.5	56.2	259.7	170.6	24.7	58.7	58.3
6800			165.7	145.5	15.8	55.2	54.8	217.0	165.7	20.7	57.4	57.1	272.2	185.1	25.9	59.8	59.4
5200	25.0	12.4	157.5	123.8	12.6	53.0	52.7	206.3	142.6	16.5	54.6	54.3	258.8	160.7	20.7	56.4	56.1
6000			171.9	138.7	13.8	53.6	53.3	225.1	159.2	18.0	55.4	55.1	282.4	179.1	22.6	57.4	57.0
6800			181.5	151.6	14.5	54.4	54.0	237.6	173.5	19.0	56.4	56.0	298.2	194.5	23.9	58.5	58.1

80WH (4 ROW - HALF CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	75 F DB / 63 F WB					80 F DB / 67 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
6000	27.0	10.8	151.3	128.9	11.2	55.1	54.5	198.1	147.2	14.7	57.3	56.7	248.6	164.7	18.4	59.6	58.9
8000			171.3	158.4	12.7	56.7	55.9	224.3	179.5	16.6	59.2	58.4	281.5	199.7	20.9	61.9	61.0
10000			185.2	184.9	13.7	57.9	56.9	242.5	208.3	18.0	60.7	59.7	304.2	230.7	22.5	63.6	62.5
6000	32.0	14.8	162.6	133.4	10.2	54.4	53.8	212.8	152.8	13.3	56.4	55.8	267.1	171.5	16.7	58.5	57.9
8000			186.4	164.2	11.6	56.0	55.2	244.0	186.8	15.3	58.4	57.6	306.2	208.5	19.1	60.9	60.0
10000			203.4	191.8	12.7	57.2	56.3	266.4	217.0	16.6	59.9	58.9	334.2	241.0	20.9	62.7	61.6
6000	37.0	19.4	171.5	136.9	9.3	53.9	53.3	224.5	157.3	12.1	55.7	55.1	281.7	176.9	15.2	57.7	57.0
8000			198.4	168.9	10.7	55.5	54.7	259.8	192.7	14.0	57.7	56.9	326.0	215.6	17.6	60.1	59.2
10000			218.3	197.4	11.8	56.7	55.7	285.8	224.0	15.4	59.3	58.2	358.6	249.5	19.4	61.9	60.8

80WH (6 ROW - HALF CIRCUIT) (45° EWT)																	
CFM	GPM	P.D. FT.	75 F DB / 63 F WB					80 F DB / 67 F WB					85 F DB / 71 F WB				
			TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TOTAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB	TO-TAL MBH	SENSIBLE MBH	TEMP. RISE	LADB	LAWB
6000	22.0	8.2	161.7	135.1	14.7	54.2	53.9	211.8	154.6	19.3	56.2	55.9	265.7	173.3	24.2	58.3	57.9
8000			183.9	167.2	16.7	55.7	55.4	240.7	189.8	21.9	58.1	57.7	302.1	211.5	27.5	60.5	60.1
10000			200.1	196.9	18.2	56.8	56.4	262.0	222.2	23.8	59.4	59.0	328.8	246.5	29.9	62.2	61.7
6000	27.0	11.9	178.8	141.9	13.2	53.1	52.9	234.1	163.2	17.3	54.8	54.5	293.8	183.8	21.8	56.6	56.3
8000			206.7	176.0	15.3	54.6	54.3	270.6	201.0	20.1	56.7	56.4	339.6	225.0	25.2	59.0	58.6
10000			227.8	207.4	16.9	55.8	55.4	298.3	235.5	22.1	58.2	57.8	374.2	262.4	27.7	60.7	60.3
6000	32.0	16.2	192.2	147.2	12.0	52.3	52.0	251.6	170.1	15.7	53.8	53.8	315.7	192.3	19.7	55.3	55.0
8000			224.9	183.2	14.1	53.8	53.5	194.4	210.1	18.4	55.7	55.3	369.4	236.1	23.1	57.7	57.3
10000			250.2	216.1	15.6	55.0	54.6	327.6	246.5	20.5	57.2	56.8	411.1	275.6	25.7	59.5	59.0

Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

HEATING PERFORMANCE

8WH (1 ROW COIL) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
600 800 1000	3.0	1.2	26.1 29.4 32.4	17.4 19.6 21.6	110.4 104.1 100.1
600 800 1000	5.0	3.3	28.1 31.9 35.5	11.2 12.8 14.2	113.5 107.1 103.0
600 800 1000	8.0	8.0	29.3 33.6 37.5	7.3 8.4 9.4	115.4 109.0 104.8

8WH (2 ROW COIL - HALF CIRCUIT) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
600 800 1000	3.5	1.2	41.3 49.4 56.5	23.6 28.3 32.3	133.9 127.3 122.4
600 800 1000	6.5	3.9	44.6 54.0 62.2	13.7 16.6 19.1	139.1 132.6 127.7
600 800 1000	9.5	8.2	46.5 56.5 65.2	9.8 11.9 13.7	141.9 135.5 130.5

12WH (1 ROW COIL) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
1000 1200 1400	4.0	2.1	36.5 39.8 42.7	18.3 19.9 21.4	103.9 100.8 98.3
1000 1200 1400	7.0	6.2	39.6 43.3 46.7	11.3 12.4 13.4	106.8 103.5 101.0
1000 1200 1400	10.0	12.4	40.8 44.6 48.2	8.2 8.9 9.6	107.8 104.5 102.0

12WH (2 ROW COIL - HALF CIRCUIT) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
1000 1200 1400	5.0	2.6	62.7 70.0 76.3	25.1 28.0 30.5	128.2 124.1 120.6
1000 1200 1400	7.5	5.8	66.5 74.5 81.4	17.7 19.9 21.7	131.7 127.6 123.9
1000 1200 1400	10.0	10.3	68.8 77.2 84.5	13.8 15.4 16.9	133.9 129.7 126.0

16WH (1 ROW COIL) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
1400 1600 1800	4.0	1.7	47.5 50.0 52.8	23.7 25.0 26.4	101.5 99.0 97.2
1400 1600 1800	7.5	5.7	53.0 56.3 59.6	14.1 15.0 15.9	105.1 102.7 100.7
1400 1600 1800	11.0	11.6	55.2 58.8 62.4	10.0 10.7 11.3	106.6 104.1 102.2

16WH (2 ROW COIL - HALF CIRCUIT) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
1400 1600 1800	6.0	3.4	85.8 92.6 99.1	28.6 30.9 33.0	126.9 123.7 121.1
1400 1600 1800	9.0	7.5	91.3 98.9 105.9	20.3 22.0 23.5	130.5 127.3 124.6
1400 1600 1800	12.0	13.3	94.6 102.7 110.1	15.8 17.1 18.4	132.7 129.6 126.8

20WH (1 ROW COIL) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
1800 2000 2200	5.0	3.1	59.6 62.2 65.0	23.9 24.9 26.0	100.7 98.8 97.4
1800 2000 2200	8.0	7.3	64.9 68.0 71.3	16.2 17.0 17.8	103.5 101.6 100.1
1800 2000 2200	11.0	13.1	67.4 70.9 74.3	12.3 12.9 13.5	104.7 102.9 101.3

20WH (2 ROW COIL - HALF CIRCUIT) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
1800 2000 2200	6.5	4.2	106.3 112.5 118.8	32.7 34.6 36.6	124.8 122.2 120.1
1800 2000 2200	9.5	9.0	113.3 120.3 127.1	23.8 25.3 26.8	128.4 125.8 123.6
1800 2000 2200	12.5	15.6	117.5 125.1 132.3	18.8 20.0 21.2	130.6 128.0 125.8

Product Specifications
Horizontal
Chilled Water / Hot Water / Electric Heat

HEATING PERFORMANCE

30WH (1 ROW COIL) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
2500 3000 3500	9.0	2.4	93.1 101.1 108.4	20.7 22.5 24.1	104.5 101.3 98.7
2500 3000 3500	12.0	4.1	97.7 106.4 114.4	16.3 17.7 19.1	106.3 102.9 100.3
2500 3000 3500	15.0	6.1	100.5 109.7 118.1	13.4 14.6 15.8	107.3 103.9 101.3

30WH (2 ROW COIL - HALF CIRCUIT) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
2500 3000 3500	12.5	2.0	161.5 180.6 197.3	25.8 28.9 31.6	129.9 125.9 122.3
2500 3000 3500	17.0	3.6	169.0 189.5 207.5	19.9 22.3 24.4	132.7 128.6 125.0
2500 3000 3500	21.5	5.7	174.1 195.5 214.3	16.2 18.2 19.9	134.6 130.4 126.8

40WH (1 ROW COIL) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
3400 4000 4600	8.0	2.5	116.4 109.5 132.9	29.1 31.3 33.2	101.8 99.0 96.8
3400 4000 4600	11.0	4.4	125.0 134.6 143.3	22.7 24.5 26.1	104.1 101.2 98.9
3400 4000 4600	14.0	6.9	130.3 140.5 149.9	18.6 20.1 21.4	105.5 102.6 100.2

40WH (2 ROW COIL - HALF CIRCUIT) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
3400 4000 4600	12.0	2.2	209.3 230.1 249.5	34.9 38.5 41.6	127.1 123.5 120.3
3400 4000 4600	16.0	3.9	220.5 243.6 264.0	27.6 30.5 33.0	130.2 126.5 123.2
3400 4000 4600	20.0	6.0	228.2 252.5 274.0	22.8 25.3 27.4	132.3 128.6 125.2

60WH (1 ROW COIL) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
5200 6000 6800	11.0	3.5	177.8 189.6 197.8	32.3 34.5 36.0	101.7 99.3 97.0
5200 6000 6800	15.0	6.3	191.4 204.2 214.2	25.5 27.2 28.6	104.1 101.6 99.2
5200 6000 6800	19.0	9.7	199.9 213.6 224.8	21.0 22.5 23.7	105.78 103.0 100.7

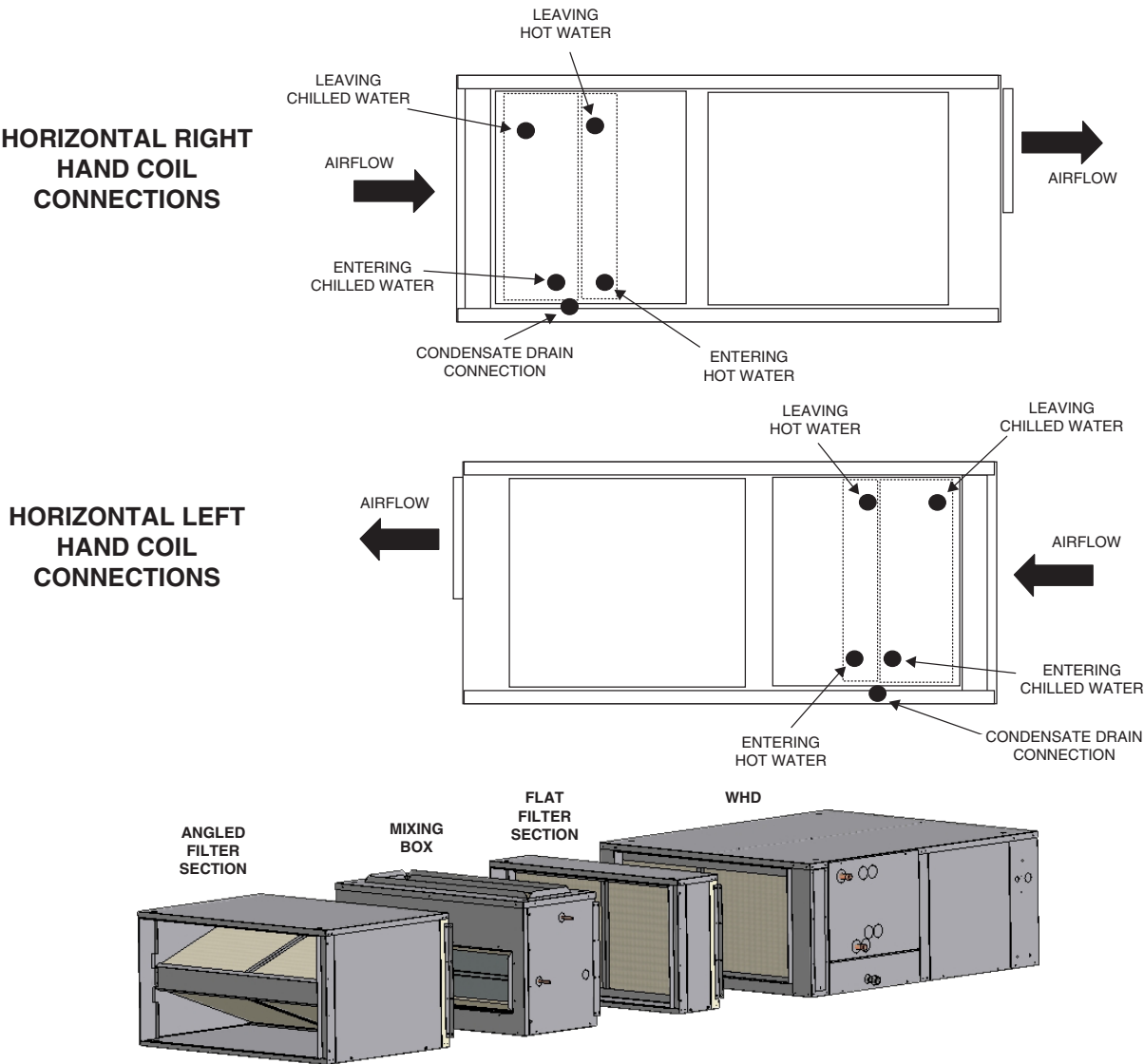
60WH (2 ROW COIL - HALF CIRCUIT) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
5200 6000 6800	12.0	2.2	297.3 324.1 343.7	49.6 54.0 57.3	123.0 120.1 116.9
5200 6000 6800	17.0	4.3	321.7 351.1 374.5	37.9 41.3 44.1	127.4 124.3 121.1
5200 6000 6800	22.0	7.0	337.9 369.3 395.4	30.7 33.6 35.9	130.3 127.1 123.9

80WH (1 ROW COIL) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
6000 8000 10000	14.0	3.8	221.4 247.6 270.1	31.6 35.4 38.6	104.2 98.7 95.1
6000 8000 10000	18.0	6.2	234.6 264.0 289.3	26.1 29.3 32.1	106.3 100.6 96.8
6000 8000 10000	22.0	9.1	243.8 275.6 303.2	22.2 25.1 27.6	107.7 102.0 98.1

8WH (2 ROW COIL - HALF CIRCUIT) (180° EWT)					
CFM	GPM	P.D. FT.	ENTERING AIR - 70°F DB		
			TOTAL MBH	TEMP. RISE	LADB
6000 8000 10000	15.0	3.2	360.6 423.7 473.4	48.1 56.5 63.1	125.8 119.1 113.9
6000 8000 10000	20.0	5.4	384.0 454.1 510.2	38.4 45.4 51.0	129.4 122.7 117.3
6000 8000 10000	25.0	8.1	400.6 476.2 537.2	32.1 38.1 43.0	131.9 125.2 119.8

Product Specifications
 Horizontal
 Chilled Water / Hot Water / Electric Heat

**CONNECTIONS &
SERVICE CLEARANCE**



*MINIMUM SIDE SERVICE CLEARANCES (Same for LH or RH units)								
UNIT MODEL	MOTOR	BLOWER	Filter Section	Coil	Motor Control Box	Mixing Box	Cabinet	
			Flat or Angled	All Rows			Top	Bottom
8WHD	36.0"	36.0"	36.0"	36.0"	36.0"	36.0"	Allow extra space for spring isolators if applicable	If mounting unit on a plat- form, leave space for condensate trap
12WHD	42.0"	42.0"	42.0"	42..0"	42.0"	42.0"		
16WHD	48.0"	48.0"	48.0"	48.0"	48.0"	48.0"		
20WHD	52.0"	52.0"	52.0"	52.0"	52.0"	52.0"		
30WHD	52.0"	52.0"	52.0"	52.0"	52.0"	52.0"		
40WHD	54.0"	54.0"	54.0"	54.0"	54.0"	54.0"		
60WHD	64.0"	64.0"	64.0"	64.0"	64.0"	64.0"		
80WHD	64.0"	64.0"	64.0"	64.0"	64.0"	64.0"		

NOTES:

* Minimum service clearances only allow for removal of largest unit component, it does not allow extra space for service access or local code requirements.

Blower and motor access panels are on both sides of cabinet

Filter access is from either side of cabinet

Product Specifications
Horizontal
Chilled Water / Hot Water

BLOWER CURVE

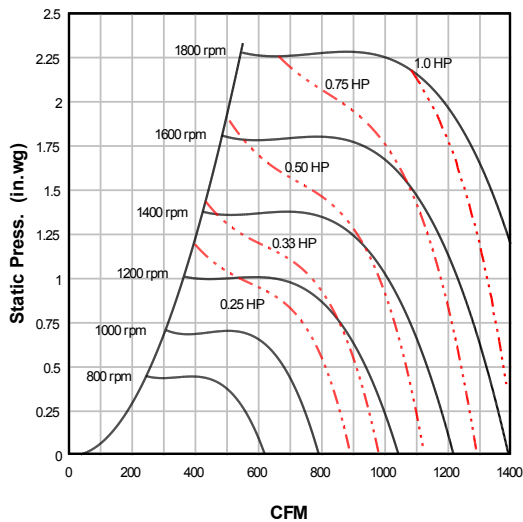
2 Ton (08) Horizontal Belt Drive Information

HP	Voltage	Blower RPM	Motor / Drive Kit Number
1/4	115-1-60	825 - 1065	9MD08-A1
1/4	115 / 208 - 2301-60	825 - 1065	9MD08-A2
1/4	277-1-60	825 - 1065	9MD08-A3
1/4	115-1-60	955 - 1240	9MD08-A6
1/4	115 / 208 - 230-1-60	955 - 1240	9MD08-A7
1/4	277-1-60	955 - 1240	9MD08-A8
1/3	115-1-60	825 - 1065	9MD08-B1
1/3	115 / 208- 230-1-60	825 - 1065	9MD08-B2
1/3	277-1-60	825 - 1065	9MD08-B3
1/3	208 - 230 / 460-3-60	825 - 1065	9MD08-B4
1/3	575-3-60	825 - 1065	9MD08-B5
1/3	115-1-60	955 - 1240	9MD08-B6
1/3	115 / 208- 230-1-60	955 - 1240	9MD08-B7
1/3	277-1-60	955 - 1240	9MD08-B8
1/3	208 - 230 / 460-3-60	955 - 1240	9MD08-B9
1/3	575-3-60	955 - 1240	9MD08-B10
1/3	115-1-60	1020 - 1330	9MD08-B11
1/3	115 / 208- 230-1-60	1020 - 1330	9MD08-B12
1/3	277-1-60	1020 - 1330	9MD08-B13
1/3	208 - 230 / 460-3-60	1020 - 1330	9MD08-B14
1/3	575-3-60	1020 - 1330	9MD08-B15

2 Ton (08) Horizontal Belt Drive Information

HP	Voltage	Blower RPM	Motor / Drive Kit Number
1/2	115-1-60	1020 - 1330	9MD08-C1
1/2	115 / 208- 230-1-60	1020 - 1330	9MD08-C2
1/2	277-1-60	1020 - 1330	9MD08-C3
1/2	208 - 230 / 460-3-60	1020 - 1330	9MD08-C4
1/2	575-3-60	1020 - 1330	9MD08-C5
1/2	115-1-60	1165 - 1520	9MD08-C6
1/2	115 / 208- 230-1-60	1165 - 1520	9MD08-C7
1/2	277-1-60	1165 - 1520	9MD08-C8
1/2	208 - 230 / 460-3-60	1165 - 1520	9MD08-C9
1/2	575-3-60	1165 - 1520	9MD08-C10
3/4	115 / 208- 230-1-60	1165 - 1520	9MD08-D2
3/4	277-1-60	1165 - 1520	9MD08-D3
3/4	208 - 230 / 460-3-60	1165 - 1520	9MD08-D4
3/4	575-3-60	1165 - 1520	9MD08-D5
3/4	115 / 208- 230-1-60	1310 - 1710	9MD08-D7
3/4	277-1-60	1310 - 1710	9MD08-D8
3/4	208 - 230 / 460-3-60	1310 - 1710	9MD08-D9
3/4	575-3-60	1310 - 1710	9MD08-D10
1	115 / 208- 230-1-60	1310 - 1710	9MD08-E2
1	277-1-60	1310 - 1710	9MD08-E3
1	208 - 230 / 460-3-60	1310 - 1710	9MD08-E4
1	575-3-60	1310 - 1710	9MD08-E5

Size 08 Blower Curve



8WH											
Componet Static Pressure (Inches of Water)											
CFM	CABINET	Chilled Water Coil				Hot Water Coil	Filter Sections				Mixing Box
		Dry Coil		Wet Coil		Dry Coil	2" Flat	4" Flat	2" Angled	4" Angled	
		4 Row	6 Row	4 Row	6 Row	*1-2 Row	Merv 7	Merv 7	Merv 7	Merv 7	
600	0.06	0.14	0.18	0.20	0.26	0.05	0.09	0.06	0.05	NA	.10
700	0.08	0.16	0.22	0.23	0.31	0.07	0.12	0.08	0.06	NA	.13
800	0.10	0.19	0.26	0.27	0.37	0.09	0.15	0.10	0.08	NA	.16
900	0.12	0.22	0.30	0.31	0.43	0.11	0.18	0.12	0.10	NA	.20
1000	0.15	0.25	0.34	0.36	0.49	0.13	0.21	0.15	0.12	NA	.24

2 TON FAN PERFORMANCE (WH / WX)

Model	CFM	TOTAL STATIC PRESSURE - INCHES OF WATER																			
		0.6		0.7		0.8		0.9		1.0		1.2		1.4		1.6		1.8		2.0	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
08	600	986	0.3	1044	0.3	1103	0.3	1161	0.4	1220	0.4	1333	0.5	1439	0.5	1538	0.6	1629	0.7	---	---
	700	1042	0.3	1087	0.3	1134	0.4	1183	0.4	1232	0.4	1333	0.5	1434	0.6	1531	0.6	1624	0.7	---	---
	800	1117	0.4	1153	0.4	1191	0.4	1230	0.4	1271	0.5	1356	0.5	1443	0.6	1531	0.7	1619	0.8	---	---
	900	1204	0.5	1234	0.5	1265	0.5	1298	0.5	1331	0.5	1401	0.6	1475	0.7	1551	0.7	1629	0.8	---	---
	1000	1298	0.6	1324	0.6	1351	0.6	1378	0.6	1406	0.6	1465	0.7	1527	0.7	1592	0.8	1659	0.9	---	---

Product Specifications

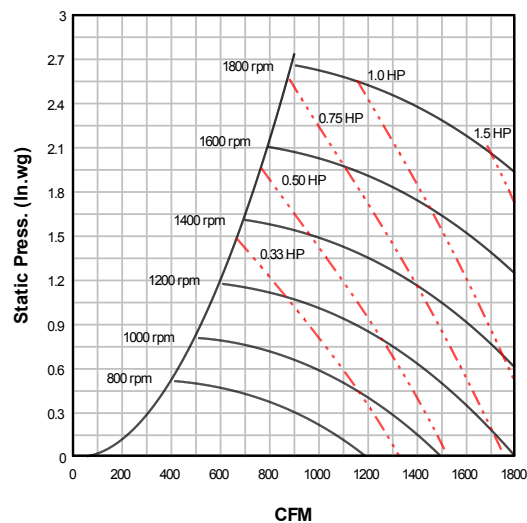
Horizontal
Chilled Water / Hot Water

BLOWER CURVE

3 Ton (12) Horizontal Belt Drive Information			
HP	Voltage	Blower RPM	Motor / Drive Kit Number
1/3	115-1-60	695 - 890	9MD12-B1
1/3	115 / 208- 230-1-60	695 - 890	9MD12-B2
1/3	277-1-60	695 - 890	9MD12-B3
1/3	208 - 230 / 460-3-60	695 - 890	9MD12-B4
1/3	575-3-60	695 - 890	9MD12-B5
1/3	115-1-60	825 - 1065	9MD12-B6
1/3	115 / 208- 230-1-60	825 - 1065	9MD12-B7
1/3	277-1-60	825 - 1065	9MD12-B8
1/3	208 - 230 / 460-3-60	825 - 1065	9MD12-B9
1/3	575-3-60	825 - 1065	9MD12-B10
1/3	115-1-60	955 - 1240	9MD12-B11
1/3	115 / 208- 230-1-60	955 - 1240	9MD12-B12
1/3	277-1-60	955 - 1240	9MD12-B13
1/3	208 - 230 / 460-3-60	955 - 1240	9MD12-B14
1/3	575-3-60	955 - 1240	9MD12-B15
1/2	115-1-60	695 - 890	9MD12-C1
1/2	115 / 208- 230-1-60	695 - 890	9MD12-C2
1/2	277-1-60	695 - 890	9MD12-C3
1/2	208 - 230 / 460-3-60	695 - 890	9MD12-C4
1/2	575-3-60	695 - 890	9MD12-C5
1/2	115-1-60	825 - 1065	9MD12-C6
1/2	115 / 208- 230-1-60	825 - 1065	9MD12-C7
1/2	277-1-60	825 - 1065	9MD12-C8
1/2	208 - 230 / 460-3-60	825 - 1065	9MD12-C9
1/2	575-3-60	825 - 1065	9MD12-C10
1/2	115-1-60	955 - 1240	9MD12-C11
1/2	115 / 208- 230-1-60	955 - 1240	9MD12-C12
1/2	277-1-60	955 - 1240	9MD12-C13
1/2	208 - 230 / 460-3-60	955 - 1240	9MD12-C14
1/2	575-3-60	955 - 1240	9MD12-C15
1/2	115-1-60	1165 - 1520	9MD12-C16
1/2	115 / 208- 230-1-60	1165 - 1520	9MD12-C17
1/2	277-1-60	1165 - 1520	9MD12-C18
1/2	208 - 230 / 460-3-60	1165 - 1520	9MD12-C19
1/2	575-3-60	1165 - 1520	9MD12-C20

3 Ton (12) Horizontal Belt Drive Information			
HP	Voltage	Blower RPM	Motor / Drive Kit Number
3/4	115 / 208- 230-1-60	825 - 1065	9MD12-D2
3/4	277-1-60	825 - 1065	9MD12-D3
3/4	208 - 230 / 460-3-60	825 - 1065	9MD12-D4
3/4	575-3-60	825 - 1065	9MD12-D5
3/4	115 / 208- 230-1-60	955 - 1240	9MD12-D7
3/4	277-1-60	955 - 1240	9MD12-D8
3/4	208 - 230 / 460-3-60	955 - 1240	9MD12-D9
3/4	575-3-60	955 - 1240	9MD12-D10
3/4	115 / 208- 230-1-60	1165 - 1520	9MD12-D12
3/4	277-1-60	1165 - 1520	9MD12-D13
3/4	208 - 230 / 460-3-60	1165 - 1520	9MD12-D14
3/4	575-3-60	1165 - 1520	9MD12-D15
3/4	115 / 208- 230-1-60	1235 - 1610	9MD12-D17
3/4	277-1-60	1235 - 1610	9MD12-D18
3/4	208 - 230 / 460-3-60	1235 - 1610	9MD12-D19
3/4	575-3-60	1235 - 1610	9MD12-D20
1	115 / 208- 230-1-60	1075 - 1400	9MD12-E2
1	277-1-60	1075 - 1400	9MD12-E3
1	208 - 230 / 460-3-60	1075 - 1400	9MD12-E4
1	575-3-60	1075 - 1400	9MD12-E5
1	115 / 208- 230-1-60	1310 - 1710	9MD12-E7
1	277-1-60	1310 - 1710	9MD12-E8
1	208 - 230 / 460-3-60	1310 - 1710	9MD12-E9
1	575-3-60	1310 - 1710	9MD12-E10
1-1/2	115 / 208- 230-1-60	1310 - 1710	9MD12-F2
1-1/2	277-1-60	1310 - 1710	9MD12-F3
1-1/2	208 - 230 / 460-3-60	1310 - 1710	9MD12-F4
1-1/2	575-3-60	1310 - 1710	9MD12-F5

Size 12 Blower Curve



12WH												
Componet Static Pressure (Inches of Water)												
CFM	CABINET	Chilled Water Coil				Hot Water Coil	Filter Sections				Mixing Box	
		Dry Coil		Wet Coil		Dry Coil	2" Flat	4" Flat	2" Angled	4" Angled		
		4 Row	6 Row	4 Row	6 Row	*1-2 Row	Merv 7	Merv 7	Merv 7	Merv 7		
1000	0.15	0.15	0.24	0.21	0.34	0.11	0.009	0.06	0.05	NA	0.24	
1100	0.18	0.17	0.26	0.24	0.37	0.13	0.12	0.08	0.06		0.28	
1200	0.22	0.20	0.29	0.29	0.41	0.15	0.15	0.10	0.08		0.33	
1300	0.25	0.23	0.31	0.33	0.44	0.17	0.18	0.12	0.10		0.38	
1400	0.29	0.26	0.35	0.37	0.50	0.19	0.21	0.15	0.12		0.43	

3 TON FAN PERFORMANCE (WH / WX)																					
TOTAL STATIC PRESSURE - INCHES OF WATER																					
Model	CFM	0.6		0.7		0.8		0.9		1.0		1.2		1.4		1.6		1.8		2.0	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12	1000	1028	0.4	1077	0.4	1125	0.4	1171	0.5	1215	0.50	1301	0.6	1383	0.6	1461	0.7	1536	0.7	---	---
	1100	1068	0.5	1114	0.5	1159	0.5	1203	0.5	1246	0.6	1329	0.6	1408	0.7	1483	0.7	1556	0.8	---	---
	1200	1111	0.5	1155	0.5	1198	0.6	1239	0.6	1280	0.6	1360	0.7	1436	0.8	1509	0.8	1579	0.9	---	---
	1300	1157	0.6	1198	0.6	1239	0.7	1279	0.7	1318	0.7	1394	0.8	1467	0.9	1537	0.9	1606	1	---	---
	1400	1205	0.7	1244	0.7	1283	0.8	1321	0.8	1358	0.8	1431	0.9	1501	1.0	1569	1.0	1635	1.1	---	---

Product Specifications

Horizontal
Chilled Water / Hot Water

BLOWER CURVE

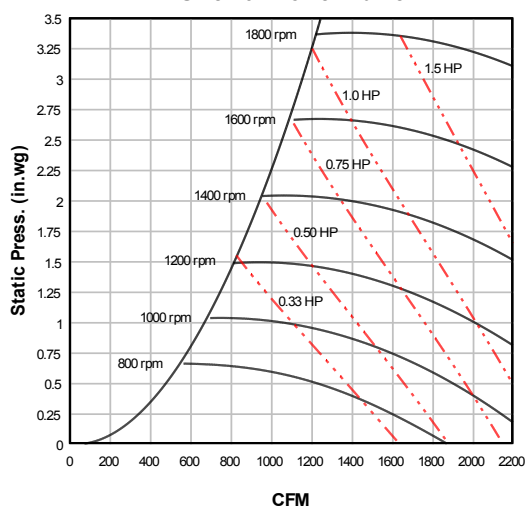
4 Ton (16) Horizontal Belt Drive Information

HP	Voltage	Blower RPM	Motor / Drive Kit Number
1/3	115-1-60	695 - 890	9MD16-B1
1/3	115 / 208 - 230-1-60	695 - 890	9MD16-B2
1/3	277-1-60	695 - 890	9MD16-B3
1/3	208 - 230 / 460-3-60	695 - 890	9MD16-B4
1/3	575-3-60	695 - 890	9MD16-B5
1/2	115-1-60	695 - 890	9MD16-C1
1/2	115 / 208 - 230-1-60	695 - 890	9MD16-C2
1/2	277-1-60	695 - 890	9MD16-C3
1/2	208 - 230 / 460-3-60	695 - 890	9MD16-C4
1/2	575-3-60	695 - 890	9MD16-C5
1/2	115-1-60	825 - 1065	9MD16-C6
1/2	115 / 208 - 230-1-60	825 - 1065	9MD16-C7
1/2	277-1-60	825 - 1065	9MD16-C8
1/2	208 - 230 / 460-3-60	825 - 1065	9MD16-C9
1/2	575-3-60	825 - 1065	9MD16-C10
1/2	115-1-60	955 - 1240	9MD16-C11
1/2	115 / 208 - 230-1-60	955 - 1240	9MD16-C12
1/2	277-1-60	955 - 1240	9MD16-C13
1/2	208 - 230 / 460-3-60	955 - 1240	9MD16-C14
1/2	575-3-60	955 - 1240	9MD16-C15
3/4	115 / 208 - 230-1-60	695 - 890	9MD16-D2
3/4	277-1-60	695 - 890	9MD16-D3
3/4	208 - 230 / 460-3-60	695 - 890	9MD16-D4
3/4	575-3-60	695 - 890	9MD16-D5
3/4	115 / 208 - 230-1-60	825 - 1065	9MD16-D7
3/4	277-1-60	825 - 1065	9MD16-D8
3/4	208 - 230 / 460-3-60	825 - 1065	9MD16-D9
3/4	575-3-60	825 - 1065	9MD16-D10

4 Ton (16) Horizontal Belt Drive Information

HP	Voltage	Blower RPM	Motor / Drive Kit Number
3/4	115 / 208 - 230-1-60	955 - 1240	9MD16-D12
3/4	277-1-60	955 - 1240	9MD16-D13
3/4	208 - 230 / 460-3-60	955 - 1240	9MD16-D14
3/4	575-3-60	955 - 1240	9MD16-D15
3/4	115 / 208 - 230-1-60	1075 - 1400	9MD16-D17
3/4	277-1-60	1075 - 1400	9MD16-D18
3/4	208 - 230 / 460-3-60	1075 - 1400	9MD16-D19
3/4	575-3-60	1075 - 1400	9MD16-D20
1	115 / 208 - 230-1-60	825 - 1065	9MD16-E2
1	277-1-60	825 - 1065	9MD16-E3
1	208 - 230 / 460-3-60	825 - 1065	9MD16-E4
1	575-3-60	825 - 1065	9MD16-E5
1	115 / 208 - 230-1-60	955 - 1240	9MD16-E7
1	277-1-60	955 - 1240	9MD16-E8
1	208 - 230 / 460-3-60	955 - 1240	9MD16-E9
1	575-3-60	955 - 1240	9MD16-E10
1	115 / 208 - 230-1-60	1075 - 1400	9MD16-E12
1	277-1-60	1075 - 1400	9MD16-E13
1	208 - 230 / 460-3-60	1075 - 1400	9MD16-E14
1	575-3-60	1075 - 1400	9MD16-E15
1	115 / 208 - 230-1-60	1235 - 1610	9MD16-E17
1	277-1-60	1235 - 1610	9MD16-E18
1	208 - 230 / 460-3-60	1235 - 1610	9MD16-E19
1	575-3-60	1235 - 1610	9MD16-E20
1-1/2	115 / 208 - 230-1-60	1235 - 1610	9MD16-F2
1-1/2	277-1-60	1235 - 1610	9MD16-F3
1-1/2	208 - 230 / 460-3-60	1235 - 1610	9MD16-F4
1-1/2	575-3-60	1340 - 1620	9MD16-F5

Size 16 Blower Curve



16WH										
Componet Static Pressure (Inches of Water)										
CFM	CABINET	Chilled Water Coil				Hot Water Coil	Filter Sections			
		Dry Coil		Wet Coil		Dry Coil	2" Flat	4" Flat	2" Angled	4" Angled
		4 Row	6 Row	4 Row	6 Row	*1-2 Row	Merv 7	Merv 7	Merv 7	Merv 7
1200	0.12	0.17	0.22	0.24	0.31	0.10	0.10	0.08	0.04	0.08
1400	0.16	0.21	0.26	0.30	0.37	0.13	0.14	0.10	0.06	0.10
1600	0.20	0.25	0.31	0.36	0.44	0.16	0.18	0.13	0.08	0.12
1800	0.24	0.29	0.36	0.41	0.51	0.19	0.22	0.17	0.10	0.15
2000	0.28	0.33	0.41	0.47	0.59	0.22	0.27	0.21	0.12	0.19

4 TON FAN PERFORMANCE (WH / WX)

Model	CFM	TOTAL STATIC PRESSURE - INCHES OF WATER																											
		0.6		0.7		0.8		0.9		1.0		1.2		1.4		1.6		1.8		2.0		2.25		2.5		2.75		3.0	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16	1400	907	0.5	949	0.5	990	0.5	1030	0.6	1069	0.6	1144	0.7	1216	0.7	1285	0.8	1352	0.9	1416	0.9	1493	1.0	1568	1.1	---	---	---	---
	1500	933	0.5	974	0.6	1013	0.6	1051	0.6	1089	0.7	1161	0.7	1231	0.8	1298	0.9	1363	1.0	1426	1.0	1501	1.1	1575	1.2	---	---	---	---
	1600	961	0.6	1000	0.6	1037	0.7	1074	0.7	1110	0.7	1180	0.8	1248	0.9	1313	1.0	1376	1.0	1437	1.1	1512	1.2	1583	1.3	---	---	---	---
	1700	990	0.7	1027	0.7	1063	0.8	1099	0.8	1134	0.8	1201	0.9	1267	1.0	1330	1.0	1391	1.1	1451	1.2	1524	1.3	1593	1.4	---	---	---	---
	1800	1020	0.8	1055	0.8	1090	0.8	1125	0.9	1158	0.9	1224	1.0	1287	1.1	1349	1.1	1408	1.2	1466	1.3	1538	1.4	1607	1.5	---	---	---	---

Product Specifications

Horizontal
Chilled Water / Hot Water

BLOWER CURVE

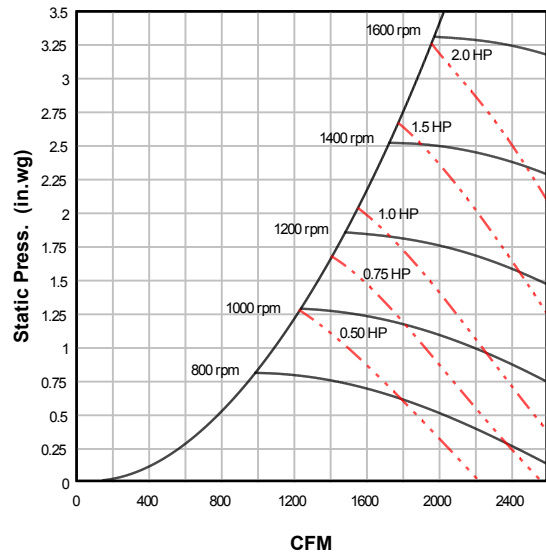
5 Ton (20) Horizontal Belt Drive Information

HP	Voltage	Blower RPM	Motor / Drive Kit Number
1/2	115-1-60	540 - 685	9MD20-C1
1/2	115 / 208 - 230-1-60	540 - 685	9MD20-C2
1/2	277-1-60	540 - 685	9MD20-C3
1/2	208 - 230 / 460-3-60	540 - 685	9MD20-C4
1/2	575-3-60	540 - 685	9MD20-C5
1/2	115-1-60	695 - 890	9MD20-C6
1/2	115 / 208 - 230-1-60	695 - 890	9MD20-C7
1/2	277-1-60	695 - 890	9MD20-C8
1/2	208 - 230 / 460-3-60	695 - 890	9MD20-C9
1/2	575-3-60	695 - 890	9MD20-C10
3/4	115 / 208- 230-1-60	540 - 685	9MD20-D2
3/4	277-1-60	540 - 685	9MD20-D3
3/4	208 - 230 / 460-3-60	540 - 685	9MD20-D4
3/4	575-3-60	540 - 685	9MD20-D5
3/4	115 / 208- 230-1-60	695 - 890	9MD20-D7
3/4	277-1-60	695 - 890	9MD20-D8
3/4	208 - 230 / 460-3-60	695 - 890	9MD20-D9
3/4	575-3-60	695 - 890	9MD20-D10
3/4	115 / 208- 230-1-60	825 - 1065	9MD20-D12
3/4	277-1-60	825 - 1065	9MD20-D13
3/4	208 - 230 / 460-3-60	825 - 1065	9MD20-D14
3/4	575-3-60	825 - 1065	9MD20-D15
1	115 / 208- 230-1-60	695 - 890	9MD20-E2
1	277-1-60	695 - 890	9MD20-E3
1	208 - 230 / 460-3-60	695 - 890	9MD20-E4
1	575-3-60	695 - 890	9MD20-E5
1	115 / 208- 230-1-60	825 - 1065	9MD20-E7
1	277-1-60	825 - 1065	9MD20-E8
1	208 - 230 / 460-3-60	825 - 1065	9MD20-E9
1	575-3-60	825 - 1065	9MD20-E10

5 Ton (20) Horizontal Belt Drive Information

HP	Voltage	Blower RPM	Motor / Drive Kit Number
1	115 / 208- 230-1-60	955 - 1240	9MD20-E12
1	277-1-60	955 - 1240	9MD20-E13
1	208 - 230 / 460-3-60	955 - 1240	9MD20-E14
1	575-3-60	955 - 1240	9MD20-E15
1-1/2	115 / 208- 230-1-60	825 - 1065	9MD20-F2
1-1/2	277-1-60	825 - 1065	9MD20-F3
1-1/2	208 - 230 / 460-3-60	825 - 1065	9MD20-F4
1-1/2	575-3-60	850 - 1010	9MD20-F5
1-1/2	115 / 208- 230-1-60	955 - 1240	9MD20-F7
1-1/2	277-1-60	955 - 1240	9MD20-F8
1-1/2	208 - 230 / 460-3-60	955 - 1240	9MD20-F9
1-1/2	575-3-60	955 - 1140	9MD20-F10
1-1/2	115 / 208- 230-1-60	1075 - 1400	9MD20-F12
1-1/2	277-1-60	1075 - 1400	9MD20-F13
1-1/2	208 - 230 / 460-3-60	1075 - 1400	9MD20-F14
1-1/2	575-3-60	1090 - 1310	9MD20-F15
2	115 / 208- 230-1-60	1025 - 1330	9MD20-G2
2	277-1-60	1025 - 1330	
2	208 - 230 / 460-3-60	1025 - 1330	9MD20-G4
2	575-3-60	1060 - 1270	9MD20-G5
2	115 / 208- 230-1-60	1235 - 1610	9MD20-G7
2	277-1-60	1235 - 1610	
2	208 - 230 / 460-3-60	1235 - 1610	9MD20-G9
2	575-3-60	1340 - 1620	9MD20-G10

Size 20 Blower Curve



20WH												
Componet Static Pressure (Inches of Water)												
CFM	CABINET	Chilled Water Coil				Hot Water Coil	Filter Sections				Mixing Box	
		Dry Coil		Wet Coil		Dry Coil	2" Flat	4" Flat	2" Angled	4" Angled		
		4 Row	6 Row	4 Row	6 Row	*1-2 Row	Merv 7	Merv 7	Merv 7	Merv 7		
1600	0.13	0.15	0.22	0.21	0.31	0.11	0.15	0.11	0.08	0.10	0.14	
1800	0.17	0.18	0.27	0.26	0.39	0.14	0.18	0.13	0.10	0.12	0.21	
2000	0.21	0.20	0.32	0.29	0.46	0.17	0.22	0.15	0.12	0.15	0.26	
2200	0.25	0.23	0.37	0.33	0.53	0.21	0.26	0.19	0.14	0.18	0.31	
2400	0.29	0.27	0.42	0.39	0.60	0.25	0.30	0.23	0.16	0.22	0.36	

5 TON FAN PERFORMANCE (WH / WX)

Model	CFM	TOTAL STATIC PRESSURE - INCHES OF WATER																											
		0.6		0.7		0.8		0.9		1.0		1.2		1.4		1.6		1.8		2.0		2.25		2.5		2.75		3.0	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20	1800	809	0.6	847	0.7	883	0.7	919	0.8	954	0.8	1020	0.9	1085	1.0	1147	1.1	1207	1.2	1266	1.3	1337	1.4	1406	1.5	1473	1.7	---	---
	1900	827	0.7	864	0.7	899	0.8	933	0.8	967	0.9	1032	1.0	1095	1.0	1155	1.1	1214	1.2	1271	1.3	1341	1.5	1409	1.6	1475	1.8	1538	1.9
	2000	846	0.8	881	.08	915	0.8	949	0.9	962	0.9	1045	1.0	1106	1.1	1165	1.2	1222	1.3	1278	1.4	1347	1.5	1413	1.7	1477	1.8	1540	2.0
	2100	865	0.8	899	0.9	933	.09	965	1.0	997	1.0	1059	1.1	1119	1.2	1176	1.3	1232	1.4	1286	1.5	1354	1.6	1419	1.8	1481	1.9	1543	2.1
	2200	885	0.9	918	1.0	951	1.0	983	1.0	1014	1.1	1074	1.2	1132	1.3	1188	1.4	1243	1.5	1296	1.6	1362	1.7	1426	1.9	1487	2.0	1547	2.2

Product Specifications

Horizontal
Chilled Water / Hot Water

BLOWER CURVE

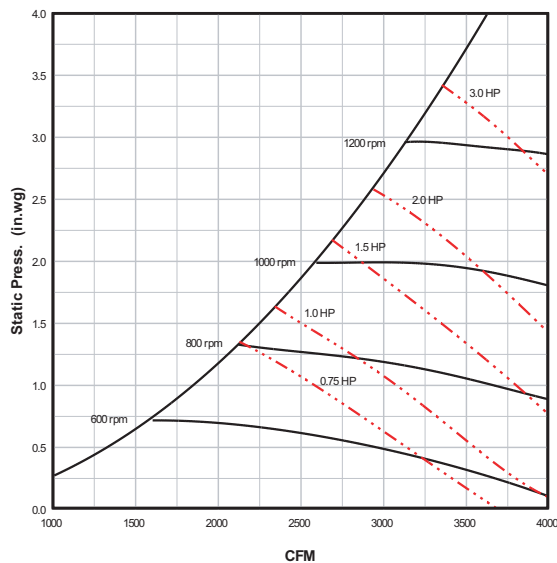
7-1/2 Ton (30) Horizontal Belt Drive Information

HP	Voltage	Phase	Blower RPM	Motor / Drive Kit Number
3/4	115 / 208 - 230	1	615 - 720	9MD30-D2
3/4	277	1	615 - 720	9MD30-D3
3/4	208 - 230 / 460	3	615 - 720	9MD30-D4
3/4	575	3	615 - 720	9MD30-D5
1	115 / 208 - 230	1	615 - 720	9MD30-E2
1	277	1	615 - 720	9MD30-E3
1	208 - 230 / 460	3	615 - 720	9MD30-E4
1	575	3	615 - 720	9MD30-E5
1	115 / 208 - 230	1	665 - 785	9MD30-E7
1	277	1	665 - 785	9MD30-E8
1	208 - 230 / 460	3	665 - 785	9MD30-E9
1	575	3	665 - 785	9MD30-E10
1	115 / 208 - 230	1	730 - 865	9MD30-E12
1	277	1	730 - 865	9MD30-E13
1	208 - 230 / 460	3	730 - 865	9MD30-E14
1	575	3	730 - 865	9MD30-E15
1-1/2	115 / 208 - 230	1	730 - 865	9MD30-F2
1-1/2	277	1	730 - 865	9MD30-F3
1-1/2	208 - 230 / 460	3	730 - 865	9MD30-F4
1-1/2	575	3	730 - 865	9MD30-F5
1-1/2	115 / 208 - 230	1	805 - 955	9MD30-F7
1-1/2	277	1	805 - 955	9MD30-F8
1-1/2	208 - 230 / 460	3	805 - 955	9MD30-F9
1-1/2	575	3	805 - 955	9MD30-F10

7-1/2 Ton (30) Horizontal Belt Drive Information

HP	Voltage	Phase	Blower RPM	Motor / Drive Kit Number
1-1/2	115 / 208 - 230	1	850 - 1010	9MD30-F12
1-1/2	277	1	850 - 1010	9MD30-F13
1-1/2	208 - 230 / 460	3	850 - 1010	9MD30-F14
1-1/2	575	3	850 - 1010	9MD30-F15
2	115 / 208 - 230	1	850 - 1010	9MD30-G2
2	277	1	850 - 1010	
2	208 - 230 / 460	3	850 - 1010	9MD30-G4
2	575	3	850 - 1010	9MD30-G5
2	115 / 208 - 230	1	955 - 1140	9MD30-G7
2	277	1	955 - 1140	
2	208 - 230 / 460	3	955 - 1140	9MD30-G9
2	575	3	955 - 1140	9MD30-G10
3	115 / 208 - 230	1	955 - 1140	9MD30-H2
3	277	1		
3	208 - 230 / 460	3	955 - 1140	9MD30-H4
3	575	3	955 - 1140	9MD30-H5
3	115 / 208 - 230	1	1060 - 1270	9MD30-H7
3	277	1		
3	208 - 230 / 460	3	1060 - 1270	9MD30-H9
3	575	3	1060 - 1270	9MD30-H10

Size 30 Blower Curve



30WH											
Componet Static Pressure (Inches of Water)											
CFM	CABINET	Chilled Water Coil				Hot Water Coil	Filter Sections				Mixing Box
		Dry Coil		Wet Coil		Dry Coil	2" Flat	4" Flat	2" Angled	4" Angled	
		4 Row	6 Row	4 Row	6 Row	*1-2 Row	Merv 7	Merv 7	Merv 7	Merv 7	
2600	0.17	0.11	0.15	0.12	0.16	0.05	0.19	0.14	0.11	0.10	0.22
2800	0.18	0.12	0.17	0.13	0.18	0.06	0.20	0.15	0.12	0.11	0.25
3000	0.19	0.13	0.19	0.14	0.20	0.07	0.21	0.16	0.13	0.12	0.28
3200	0.20	0.14	0.22	0.15	0.24	0.08	0.23	0.17	0.14	0.13	0.32
3400	0.21	0.15	0.24	0.16	0.26	0.09	0.24	0.18	0.14	0.14	0.36

7-1/2 TON FAN PERFORMANCE (WH / WX)

Model	CFM	TOTAL STATIC PRESSURE - INCHES OF WATER																											
		0.7		0.8		0.9		1.0		1.2		1.4		1.6		1.8		2.0		2.25		2.5		2.75		3.0			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
30	2500	637	0.7	668	0.7	699	0.8	729	0.8	786	0.9	841	1.1	894	1.2	945	1.3	---	---	---	---	---	---	---	---	---	---	---	
	2750	654	0.8	684	0.8	713	0.9	741	1.0	796	1.1	849	1.2	899	1.3	948	1.4	996	1.6	1057	1.7	---	---	---	---	---	---		
	3000	672	0.9	701	1.0	729	1.0	756	1.1	809	1.2	859	1.3	908	1.5	955	1.6	1001	1.7	1060	1.9	1114	2.1	---	---	---	---		
	3250	693	1.1	720	1.1	747	1.2	773	1.2	823	1.4	872	1.5	919	1.8	964	1.8	1008	1.9	1066	2.1	1119	2.3	1169	2.5	1219	2.7		
	3500	715	1.2	741	1.3	767	1.3	792	1.4	840	1.5	887	1.7	932	1.8	976	2.0	1018	2.1	1075	2.3	1126	2.5	1175	2.7	1223	2.9		

Product Specifications

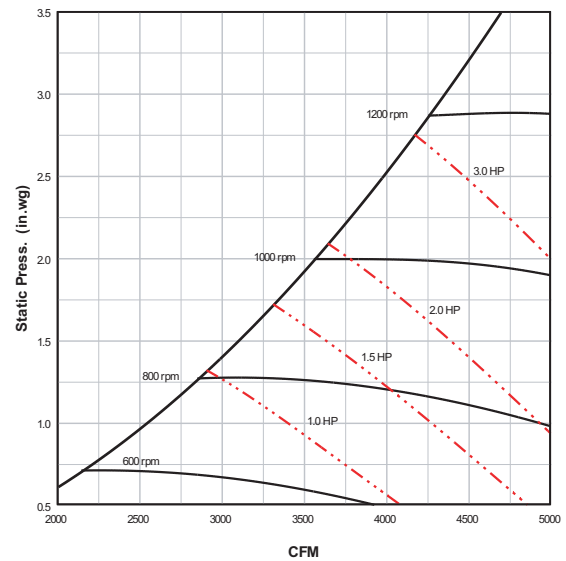
Horizontal
Chilled Water / Hot Water

BLOWER CURVE

10 Ton (40) Horizontal Belt Drive Information				
HP	Voltage	Phase	Blower RPM	Motor / Drive Kit Number
1-1/2	115 / 208 - 230	1	695 - 825	9MD40-F2
1-1/2	277	1	695 - 825	9MD40-F3
1-1/2	208- 230 / 460	3	695 - 825	9MD40-F4
1-1/2	575	3	695 - 825	9MD40-F5
1-1/2	115 / 208 - 230	1	765 - 910	9MD40-F7
1-1/2	277	1	765 - 910	9MD40-F8
1-1/2	208- 230 / 460	3	765 - 910	9MD40-F9
1-1/2	575	3	765 - 910	9MD40-F10
2	115 / 208 - 230	1	695 - 825	9MD40-G2
2	277	1	695 - 825	
2	208- 230 / 460	3	695 - 825	9MD40-G4
2	575	3	695 - 825	9MD40-G5
2	115 / 208 - 230	1	765 - 910	9MD40-G7
2	277	1	765 - 910	
2	208- 230 / 460	3	765 - 910	9MD40-G9
2	575	3	765 - 910	9MD40-G10
2	115 / 208 - 230	1	850 - 1010	9MD40-G12
2	277	1		
2	208- 230 / 460	3	850 - 1010	9MD40-G14
2	575	3	850 - 1010	9MD40-G15

10 Ton (40) Horizontal Belt Drive Information				
HP	Voltage	Phase	Blower RPM	Motor / Drive Kit Number
3	115 / 208 - 230	1	765 - 910	9MD40-H2
3	277	1		
3	208- 230 / 460	3	765 - 910	9MD40-H4
3	575	3	765 - 910	9MD40-H5
3	115 / 208 - 230	1	850 - 1010	9MD40-H7
3	277	1		
3	208- 230 / 460	3	850 - 1010	9MD40-H9
3	575	3	850 - 1010	9MD40-H10
3	115 / 208 - 230	1	955 - 1140	9MD40-H12
3	277	1		
3	208- 230 / 460	3	955 - 1140	9MD40-H14
3	575	3	955 - 1140	9MD40-H15
5	208- 230 / 460	3	900 - 1075	9MD40-J4
5	575	3	900 - 1075	9MD40-J5
5	208- 230 / 460	3	1015 - 1220	9MD40-J9
5	575	3	1015 - 1220	9MD40-J10

Size 40 Blower Curve



40WH											
Componet Static Pressure (Inches of Water)											
CFM	CABINET	Chilled Water Coil				Hot Water Coil	Filter Sections				Mixing Box
		Dry Coil		Wet Coil		Dry Coil	2" Flat	4" Flat	2" Angled	4" Angled	
		4 Row	6 Row	4 Row	6 Row	*1-2 Row	Merv 7	Merv 7	Merv 7	Merv 7	
3600	0.14	0.12	0.18	0.13	0.19	0.05	0.20	0.13	0.13	0.13	0.20
3800	0.16	0.14	0.21	0.15	0.22	0.06	0.21	0.14	0.14	0.14	0.22
4000	0.18	0.16	0.24	0.17	0.26	0.08	0.22	0.15	0.14	0.14	0.24
4200	0.20	0.18	0.27	0.19	0.29	0.10	0.23	0.15	0.15	0.15	0.27
4400	0.22	0.20	0.31	0.21	0.33	0.12	0.24	0.16	0.16	0.15	0.30

10 TON FAN PERFORMANCE (WH / WX)																											
Model	CFM	TOTAL STATIC PRESSURE - INCHES OF WATER																									
		0.7		0.8		0.9		1.0		1.2		1.4		1.6		1.8		2.0		2.25		2.5		2.75		3.0	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
40	3400	639	0.9	671	1.0	701	1.1	731	1.1	791	1.3	848	1.5	905	1.6	961	1.7	---	---	---	---	---	---	---	---	---	---
	3700	655	1.1	685	1.2	714	1.2	742	1.3	798	1.4	852	1.6	906	1.8	958	1.9	1010	2.1	---	---	---	---	---	---	---	---
	4000	673	1.2	701	1.3	728	1.4	755	1.5	808	1.6	860	1.8	910	2.2	960	2.1	1009	2.3	1072	2.5	1132	2.7	---	---	---	---
	4300	693	1.4	719	1.5	745	1.6	771	1.7	821	1.8	870	2.0	918	2.2	965	2.4	1011	2.5	1073	2.7	1132	3.0	1184	3.2	---	---
	4600	713	1.6	739	1.7	764	1.8	788	1.9	836	2.1	883	2.2	929	2.4	973	2.6	1018	2.8	1076	3.0	1132	3.2	1184	3.2	1236	3.8

Product Specifications

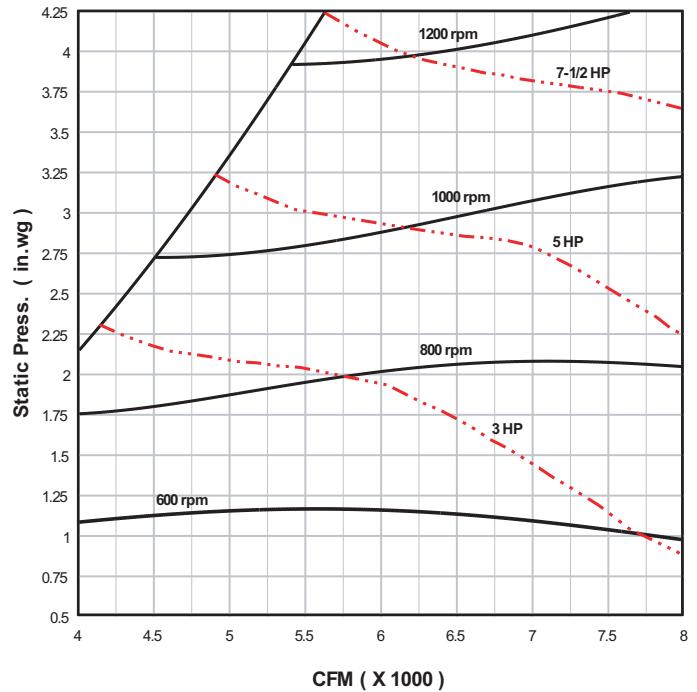
Horizontal
Chilled Water / Hot Water

BLOWER CURVE

15 Ton (60) Horizontal Belt Drive Information

HP	Voltage	Phase	Hz	Blower RPM	Motor / Drive Kit Number
3	115 / 208 - 230	1	60	615 - 720	9MD60-H2
3	277	1	60		
3	208- 230 / 460	3	60	615 - 720	9MD60-H4
3	575	3	60	615 - 720	9MD60-H5
3	115 / 208 - 230	1	60	665 - 785	9MD60-H7
3	277	1	60		
3	208- 230 / 460	3	60	665 - 785	9MD60-H9
3	575	3	60	665 - 785	9MD60-H10
3	115 / 208 - 230	1	60	730 - 865	9MD60-H12
3	277	1	60		
3	208- 230 / 460	3	60	730 - 865	9MD60-H14
3	575	3	60	730 - 865	9MD60-H15
5	208- 230 / 460	3	60	730 - 865	9MD60-J4
5	575	3	60	730 - 865	9MD60-J5
5	208- 230 / 460	3	60	805 - 955	9MD60-J9
5	575	3	60	805 - 955	9MD60-J10
5	208- 230 / 460	3	60	900 - 1075	9MD60-J14
5	575	3	60	900 - 1075	9MD60-J15
7-1/2	208- 230 / 460	3	60	915 - 1065	9MD60-K4
7-1/2	575	3	60	915 - 1065	9MD60-K5
7-1/2	208- 230 / 460	3	60	1020 - 1195	9MD60-K9
7-1/2	575	3	60	1020 - 1195	9MD60-K10

60WH Blower Curve



60WH											
CFM	CABINET	Componet Static Pressure (Inches of Water)									
		Chilled Water Coil				Hot Water Coil	Filter Sections				Mixing Box
		Dry Coil		Wet Coil		Dry Coil	2" Flat	4" Flat	2" Angled	4" Angled	
		4 Row	6 Row	4 Row	6 Row	*1-2 Row	Merv 7	Merv 7	Merv 7	Merv 7	
5600	0.01	0.14	0.20	0.15	0.21	0.06	0.16	0.16	0.16	0.15	0.23
5800	0.05	0.17	0.23	0.18	0.25	0.09	0.18	0.18	0.17	0.16	0.25
6000	0.12	0.19	0.26	0.21	0.28	0.11	0.21	0.19	0.18	0.17	0.27
6200	0.19	0.22	0.29	0.23	0.31	0.13	0.23	0.20	0.19	0.18	0.28
6400	0.25	0.24	0.32	0.26	0.35	0.15	0.26	0.23	0.20	0.19	0.30

15 TON FAN PERFORMANCE (WH / WX)

Model	CFM	TOTAL STATIC PRESSURE - INCHES OF WATER																									
		0.7		0.8		0.9		1.0		1.2		1.4		1.6		1.8		2.0		2.25		2.5		2.75		3.0	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
60	5200	488	1.3	515	1.4	542	1.5	568	1.6	621	1.8	672	2.0	727	2.3	784	2.7	837	3.1	901	3.5	1009	4.0	1012	4.5	1060	4.9
	5600	494	1.5	520	1.6	545	1.7	571	1.8	620	2.0	669	2.2	716	2.5	766	2.8	819	3.2	885	3.6	945	4.1	1000	4.6	1052	5.1
	6000	502	1.7	527	1.8	551	1.9	575	2.0	622	2.2	668	2.4	713	2.7	758	3.0	802	3.3	867	3.7	928	4.2	985	4.7	1039	5.3
	6400	511	1.9	535	2.0	558	2.1	581	2.2	626	2.4	670	2.7	712	2.9	755	3.2	797	3.5	853	3.8	910	4.3	968	4.8	1023	5.4
	6800	521	2.1	543	2.2	566	2.4	588	2.5	631	2.7	673	3.0	714	3.2	755	3.5	794	3.8	849	4.1	898	4.5	950	4.9	1005	5.5

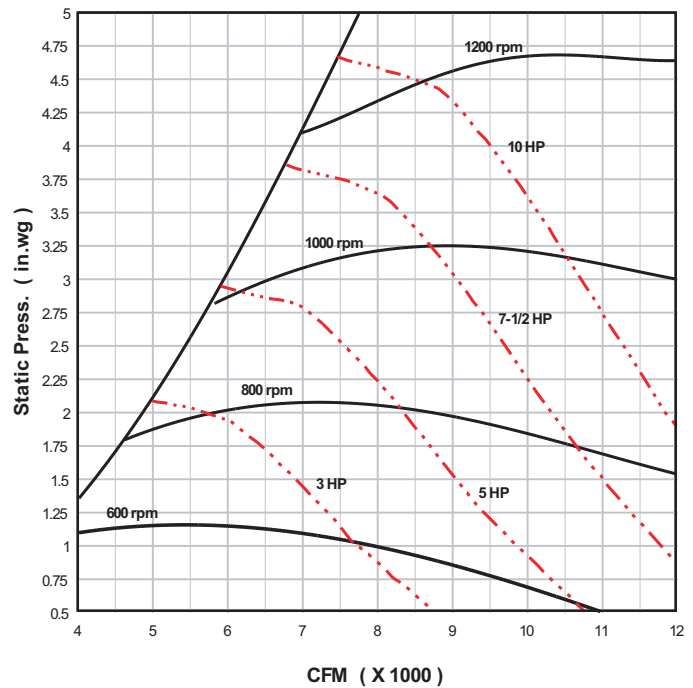
Product Specifications

Horizontal
Chilled Water / Hot Water

BLOWER CURVE

20 Ton (80) Horizontal Belt Drive Information					
HP	Voltage	Phase	Hz	Blower RPM	Motor / Drive Kit Number
3	115 / 208 - 230	1	60	615 - 720	9MD80-H2
3	277	1	60		
3	208- 230 / 460	3	60	615 - 720	9MD80-H4
3	575	3	60	615 - 720	9MD80-H5
3	115 / 208 - 230	1	60	665 - 785	9MD80-H7
3	277	1	60		
3	208- 230 / 460	3	60	665 - 785	9MD80-H9
3	575	3	60	665 - 785	9MD80-H10
3	115 / 208 - 230	1	60	730 - 865	9MD80-H12
3	277	1	60		
3	208- 230 / 460	3	60	730 - 865	9MD80-H14
3	575	3	60	730 - 865	9MD80-H15
5	208- 230 / 460	3	60	615 - 720	9MD80-J4
5	575	3	60	615 - 720	9MD80-J5
5	208- 230 / 460	3	60	665 - 785	9MD80-J9
5	575	3	60	665 - 785	9MD80-J10
5	208- 230 / 460	3	60	730 - 865	9MD80-J14
5	575	3	60	730 - 865	9MD80-J15
5	208- 230 / 460	3	60	805 - 955	9MD80-J19
5	575	3	60	805 - 955	9MD80-J20
7-1/2	208- 230 / 460	3	60	645 - 745	9MD80-K4
7-1/2	575	3	60	645 - 745	9MD80-K5
7-1/2	208- 230 / 460	3	60	700 - 805	9MD80-K9
7-1/2	575	3	60	700 - 805	9MD80-K10
7-1/2	208- 230 / 460	3	60	755 - 875	9MD80-K14
7-1/2	575	3	60	755 - 875	9MD80-K15
7-1/2	208- 230 / 460	3	60	825 - 965	9MD80-K19
7-1/2	575	3	60	825 - 965	9MD80-K20
7-1/2	208- 230 / 460	3	60	915 - 1065	9MD80-K24
7-1/2	575	3	60	915 - 1065	9MD80-K25
7-1/2	208- 230 / 460	3	60	1020 - 1195	9MD80-K29
7-1/2	575	3	60	1020 - 1195	9MD80-K30
10	208- 230 / 460	3	60	915 - 1065	9MD80-L4
10	575	3	60	915 - 1065	9MD80-L5
10	208- 230 / 460	3	60	1020 - 1195	9MD80-L9
10	575	3	60	1020 - 1195	9MD80-L10
10	208- 230 / 460	3	60	1155 - 1360	9MD80-L14
10	575	3	60	1155 - 1360	9MD80-L15

Size 80 Blower Curve

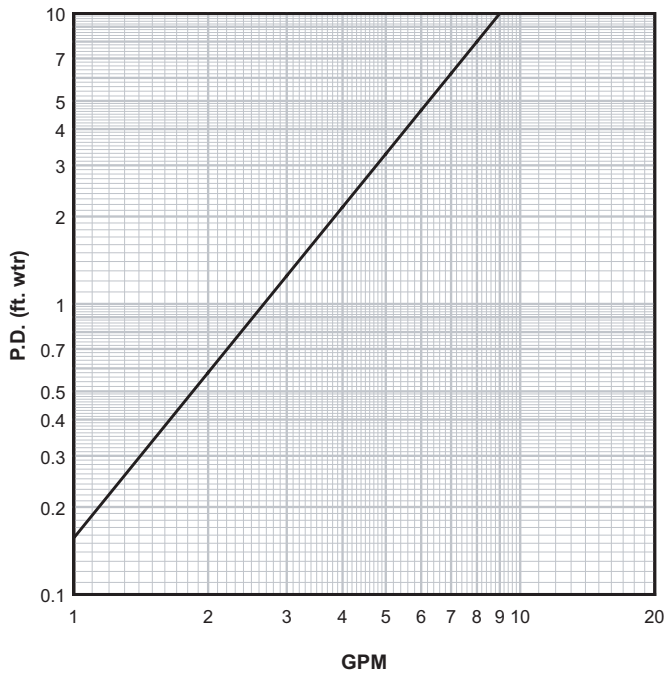


80WH											
Componet Static Pressure (Inches of Water)											
CFM	CABINET	Chilled Water Coil				Hot Water Coil	Filter Sections				Mixing Box
		Dry Coil		Wet Coil		Dry Coil	2" Flat	4" Flat	2" Angled	4" Angled	
		4 Row	6 Row	4 Row	6 Row	*1-2 Row	Merv 7	Merv 7	Merv 7	Merv 7	
6000	0.09	0.17	0.16	0.49	0.18	0.08	0.13	0.10	0.11	0.10	0.42
7000	0.15	0.19	0.21	0.21	0.22	0.11	0.17	0.13	0.14	0.13	0.44
8000	0.32	0.23	0.27	0.25	0.29	0.15	0.22	0.17	0.18	0.17	0.47
9000	0.42	0.30	0.37	0.32	0.39	0.20	0.27	0.22	0.24	0.21	0.49
10000	0.48	0.39	0.47	0.41	0.51	0.23	0.33	0.26	0.33	0.26	0.51

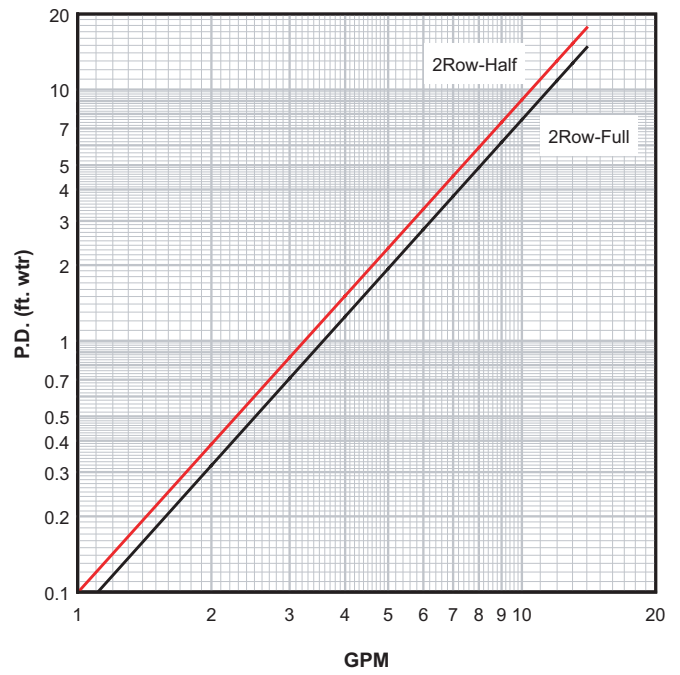
20 TON FAN PERFORMANCE (WH / WX)																											
Model	CFM	TOTAL STATIC PRESSURE - INCHES OF WATER																									
		0.7		0.8		0.9		1.0		1.2		1.4		1.6		1.8		2.0		2.25		2.5		2.75		3.0	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
80	6000	502	1.7	527	1.8	551	1.9	575	2.0	622	2.2	668	2.4	713	2.7	758	3.0	802	3.3	867	3.7	928	4.2	985	4.7	1039	5.3
	7000	525	2.2	548	2.4	570	2.5	592	2.6	634	2.9	675	3.1	715	3.4	755	3.6	794	4.0	484	4.2	896	4.6	943	5.1	996	5.6
	8000	550	2.9	572	3.1	594	3.3	615	3.4	653	3.7	691	4.0	727	4.2	764	4.5	799	4.8	849	5.1	892	5.5	935	5.9	977	6.4
	9000	578	3.8	599	4.0	619	4.1	639	4.3	578	4.7	713	5.0	746	5.3	780	5.6	812	6.0	860	6.3	899	6.6	938	7.1	977	7.5
	10000	610	4.8	629	5.0	647	5.1	665	5.4	702	5.8	737	6.2	770	6.6	801	7.0	831	7.3	876	7.6	913	8.1	949	8.5	---	---

Water Pressure Drop

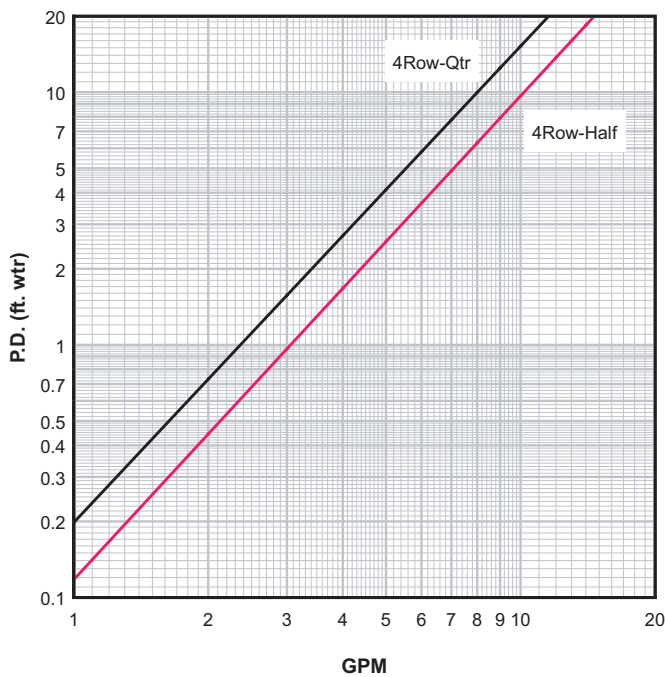
Size 08 1 Row Coil Pressure Drop



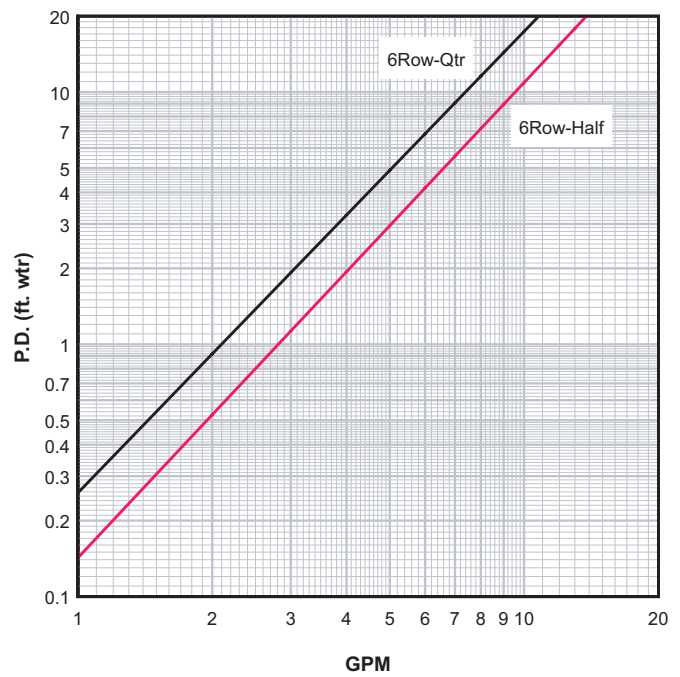
Size 08 2 Row Coil Pressure Drop



Size 08 4 Row Coil Pressure Drop

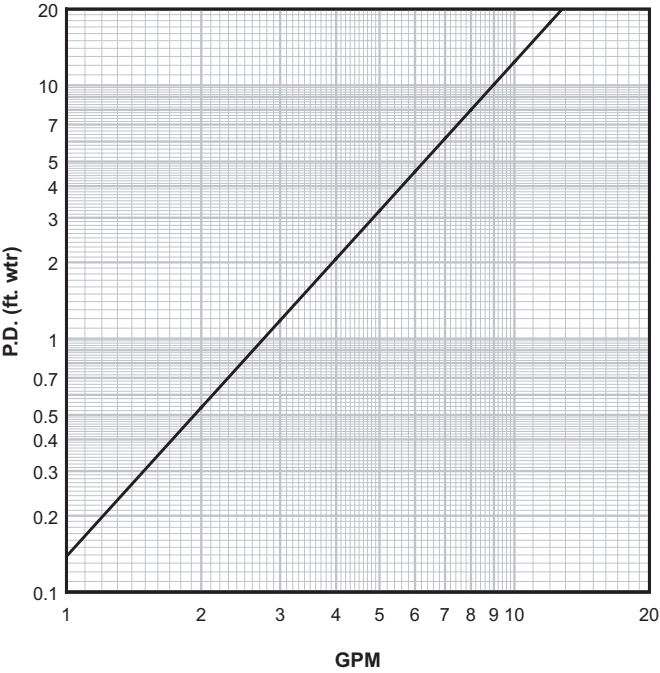


Size 08 6 Row Coil Pressure Drop

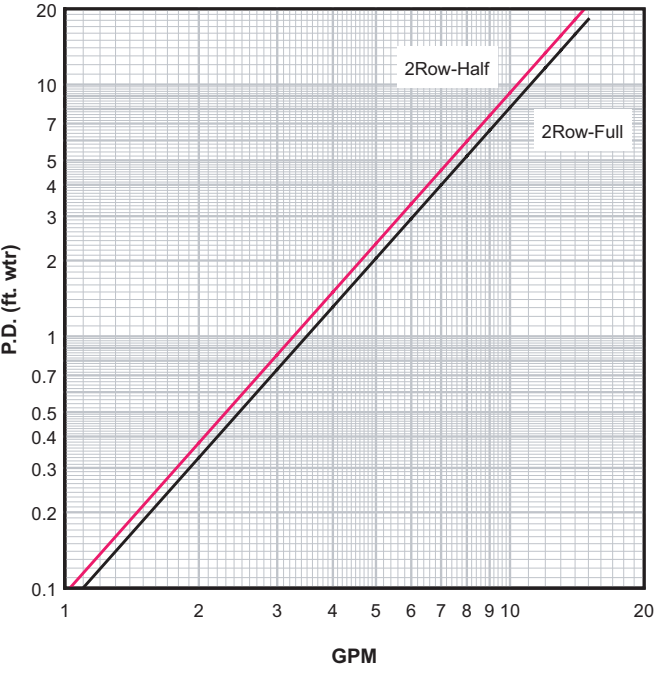


Water Pressure Drop

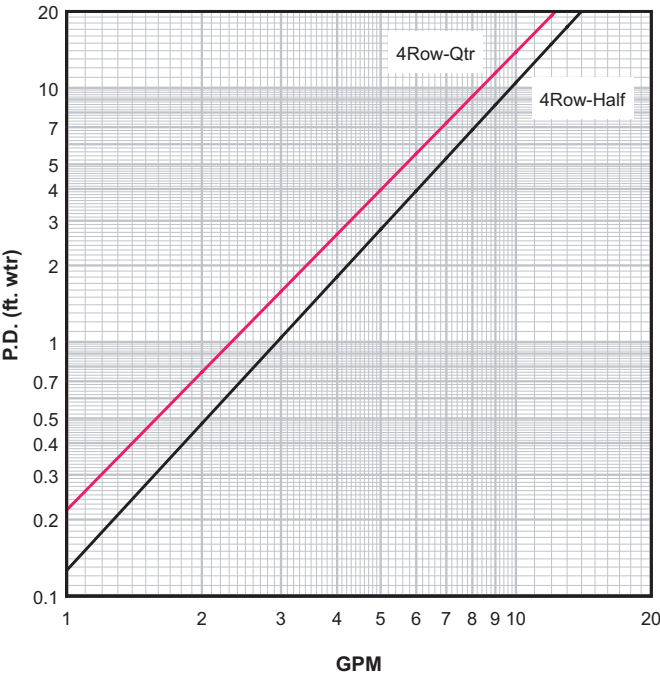
Size 12 1 Row Coil Pressure Drop



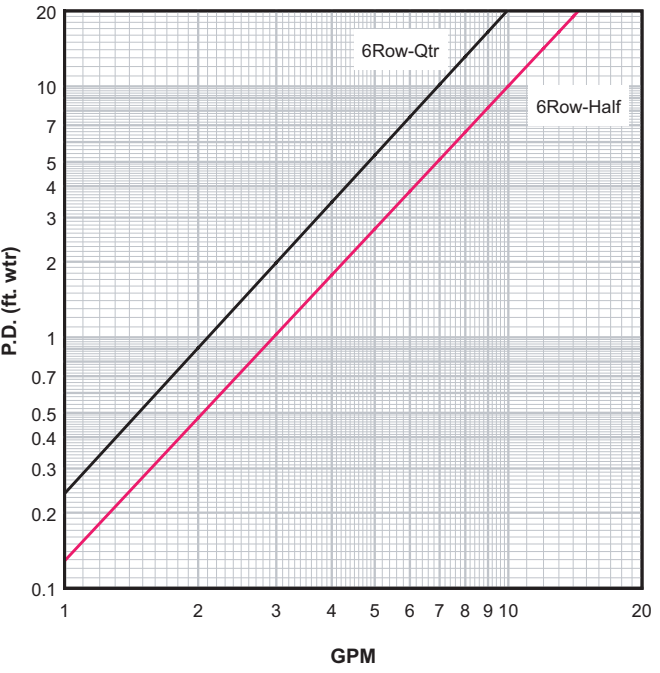
Size 12 2 Row Coil Pressure Drop



Size 12 4 Row Coil Pressure Drop

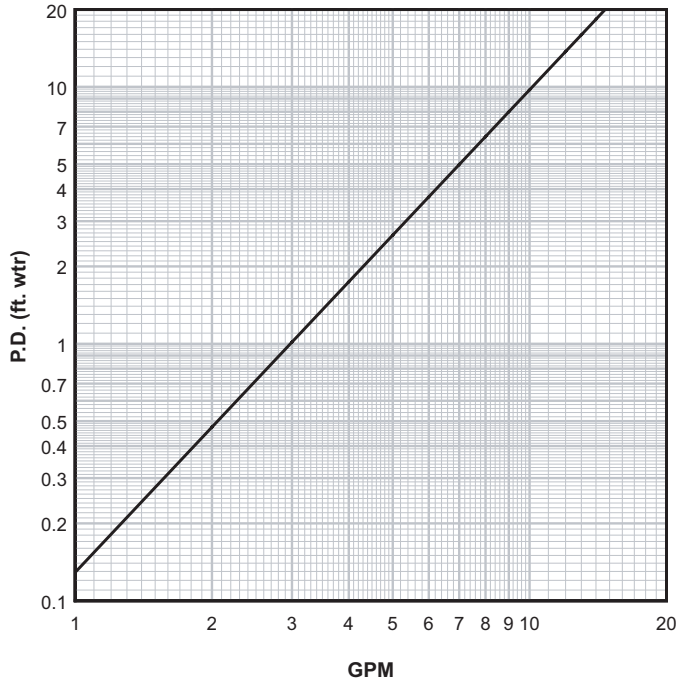


Size 12 6 Row Coil Pressure Drop

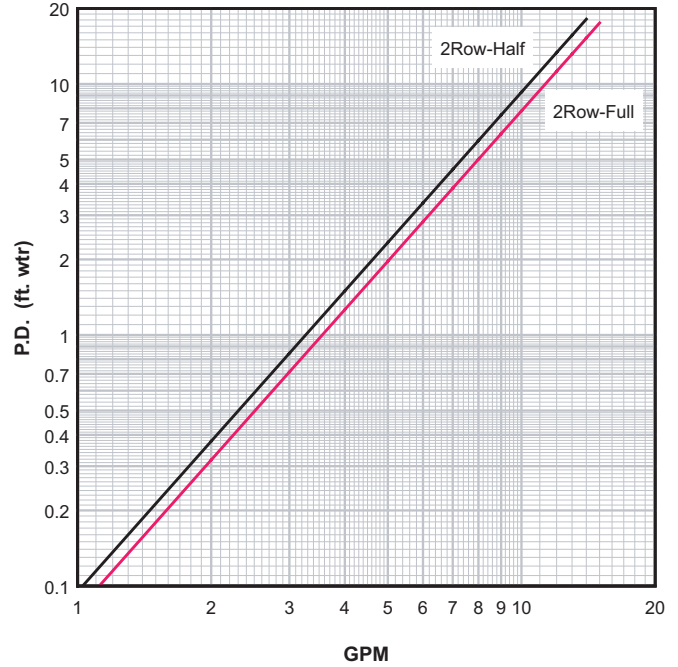


Water Pressure Drop

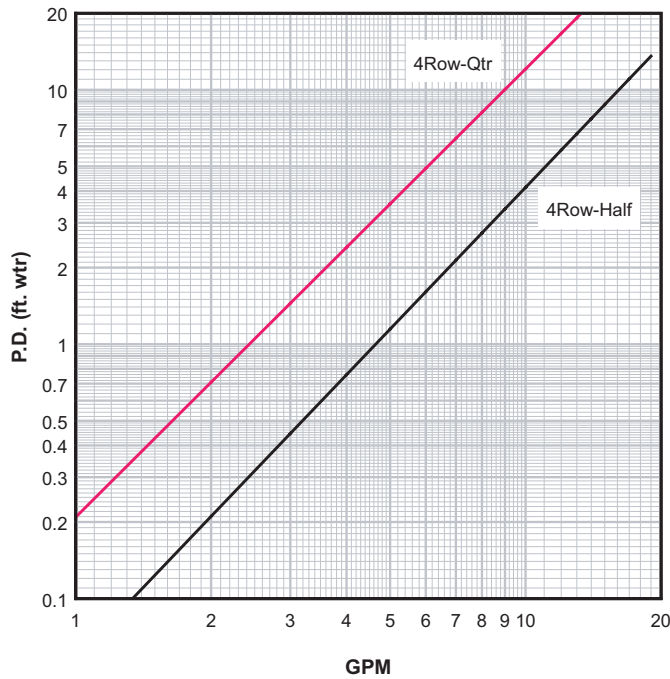
Size 16 1 Row Coil Pressure Drop



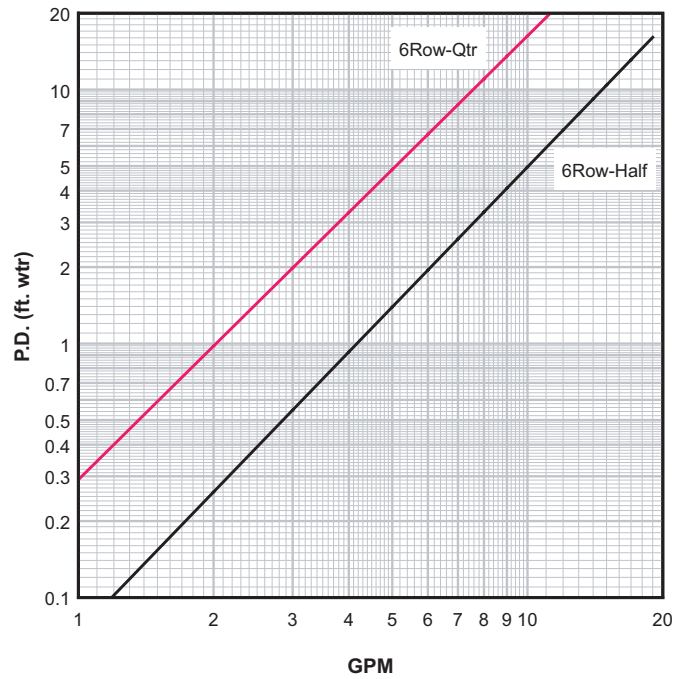
Size 16 2 Row Coil Pressure Drop



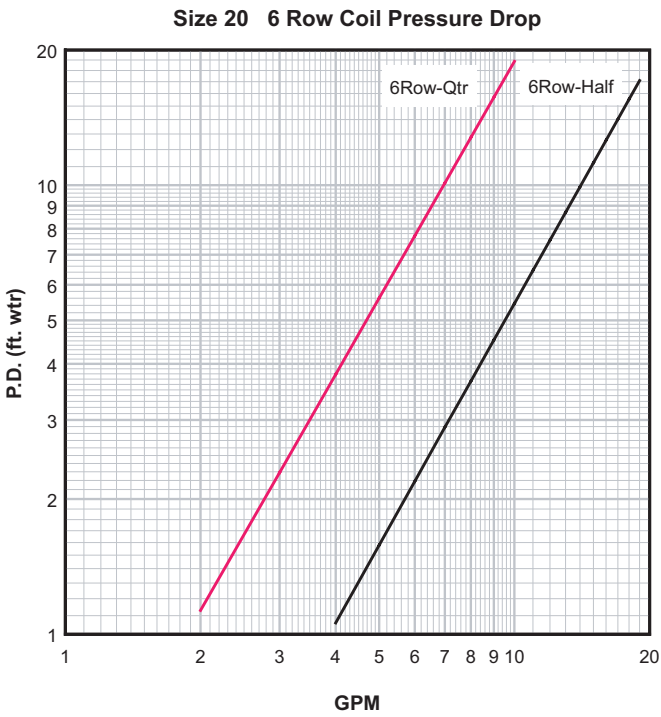
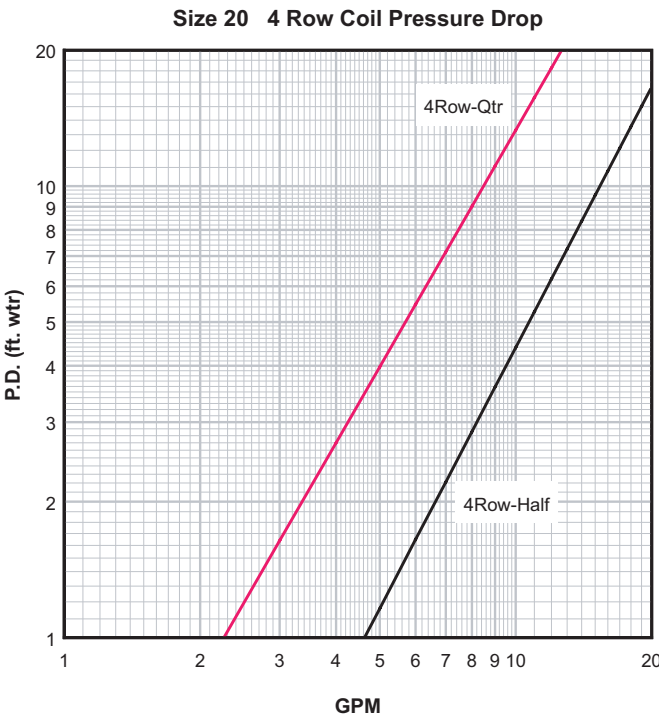
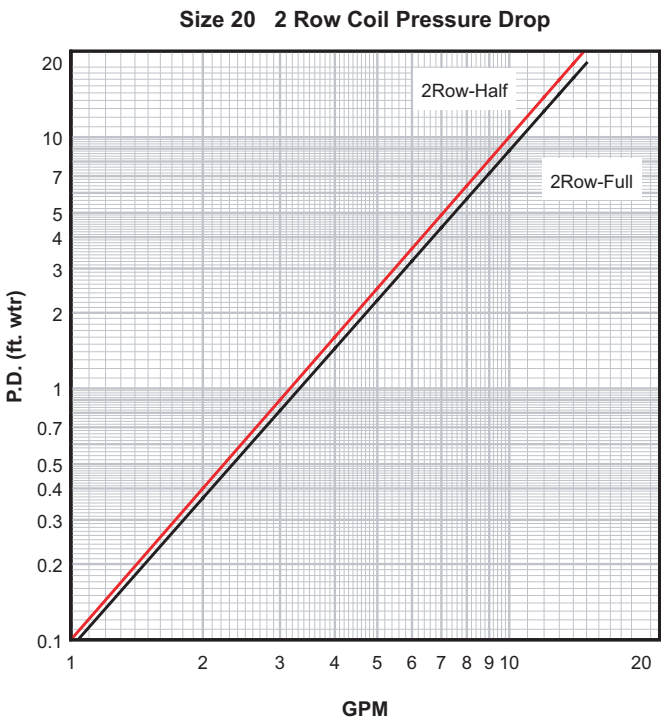
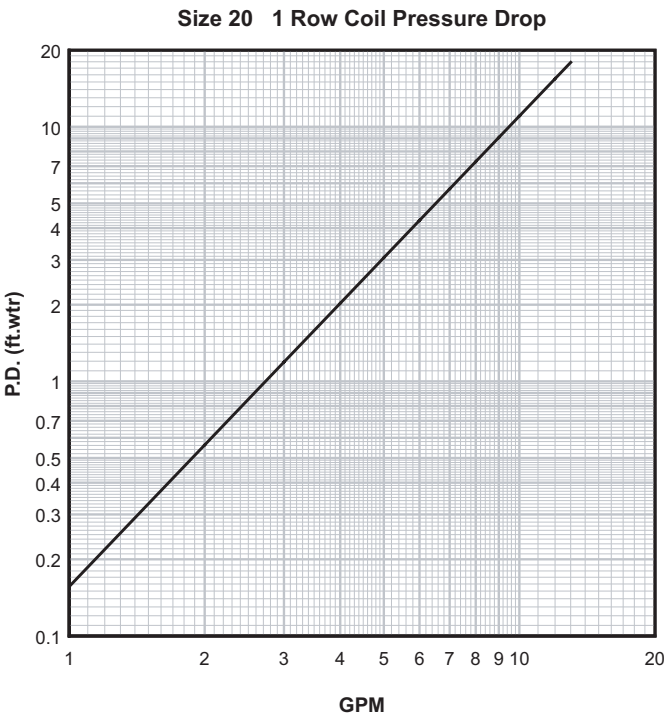
Size 16 4 Row Coil Pressure Drop



Size 16 6 Row Coil Pressure Drop

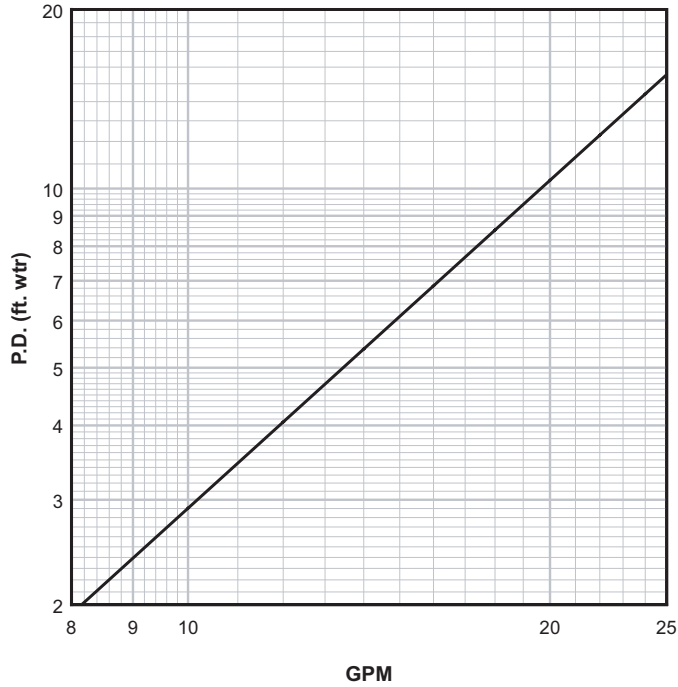


Water Pressure Drop

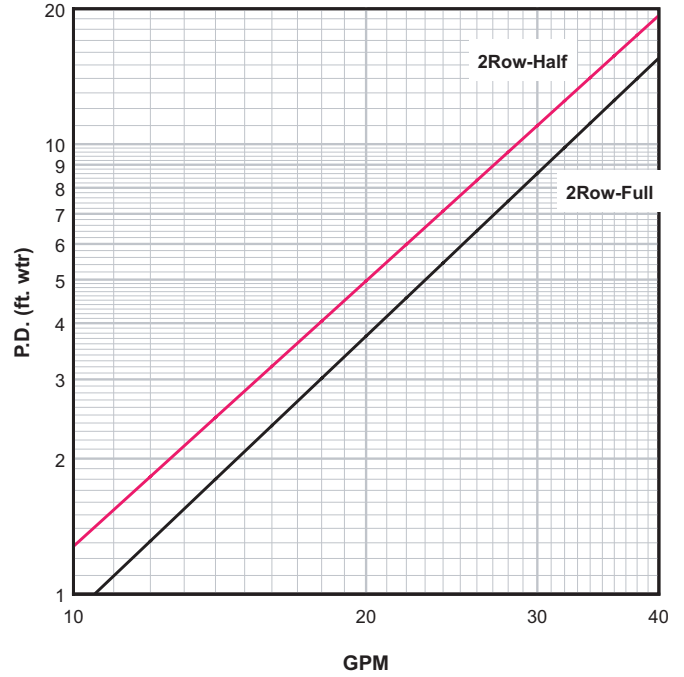


Water Pressure Drop

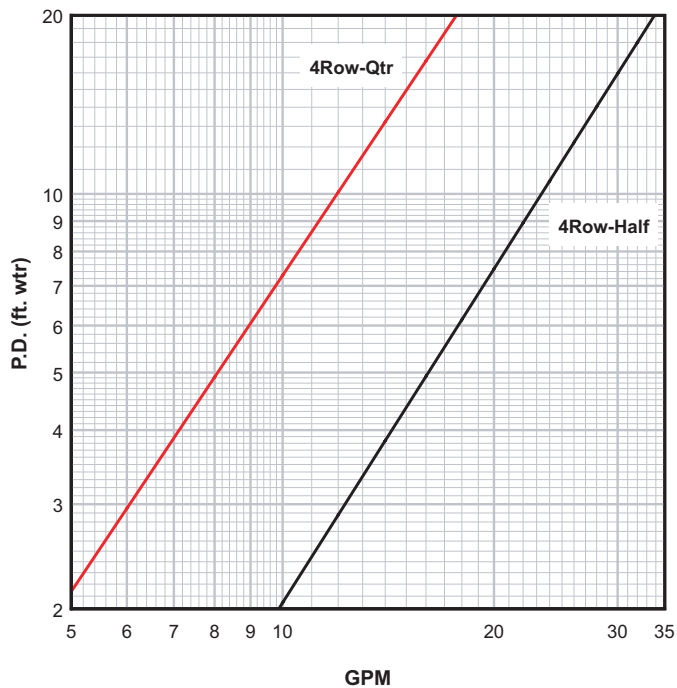
Size 30 1 Row Coil Pressure Drop



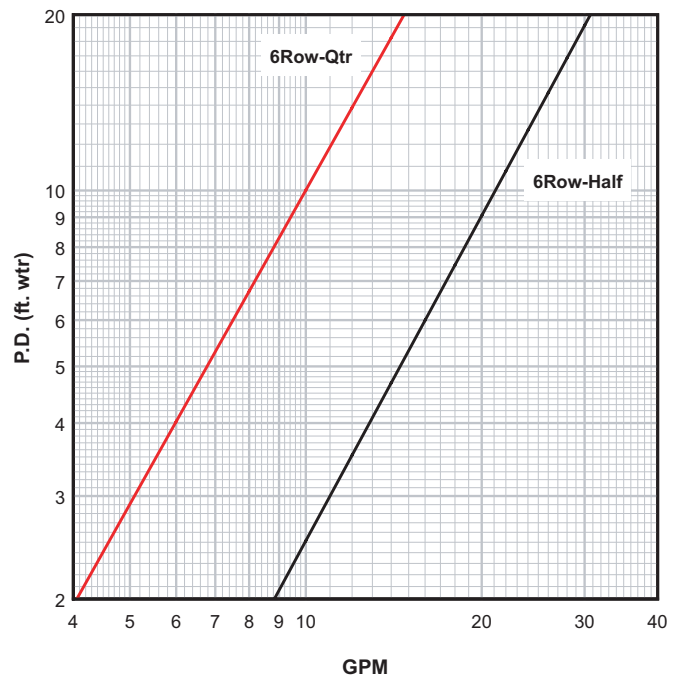
Size 30 2 Row Coil Pressure Drop



Size 30 4 Row Coil Pressure Drop

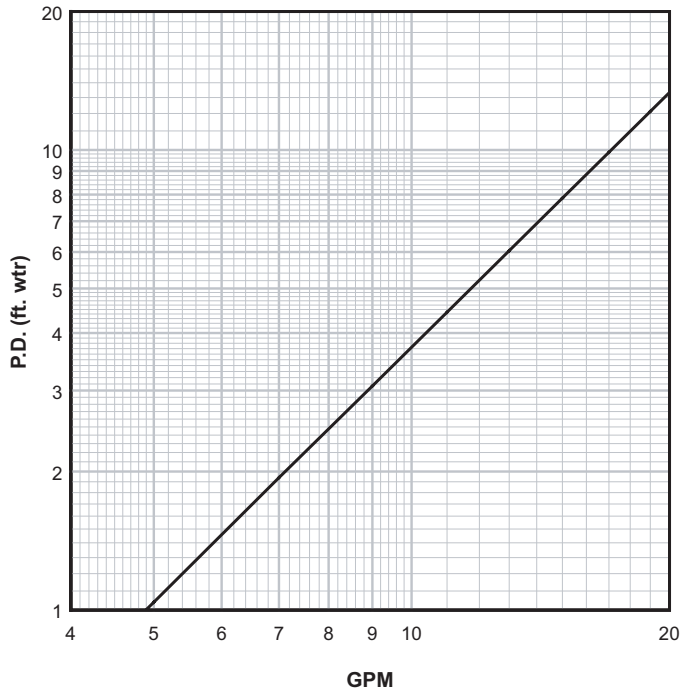


Size 30 6 Row Coil Pressure Drop

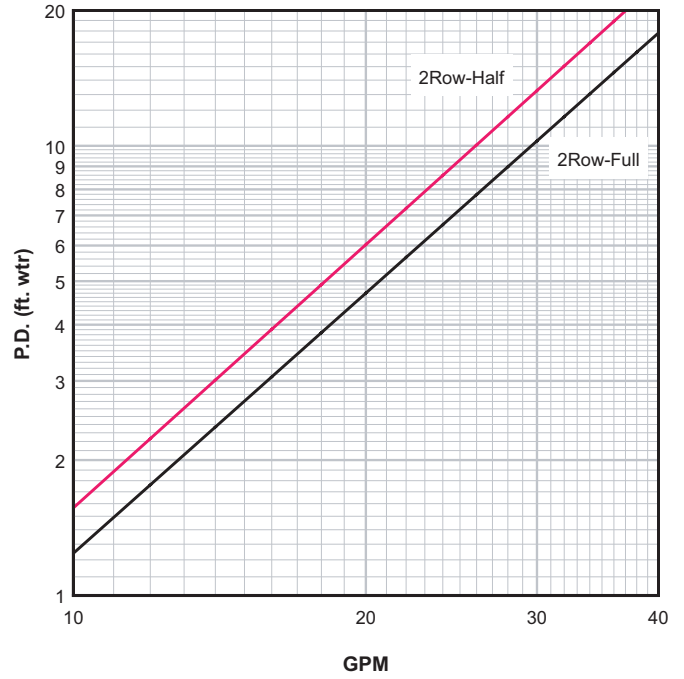


Water Pressure Drop

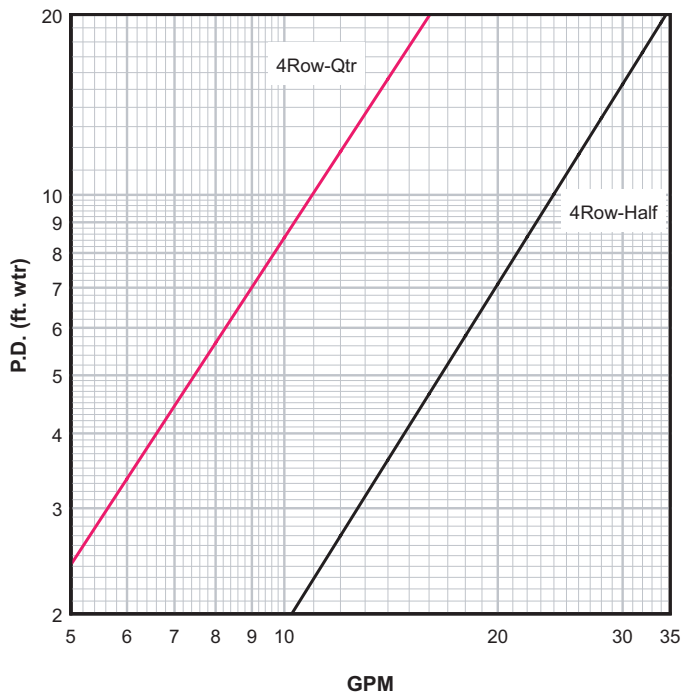
Size 40 1 Row Coil Pressure Drop



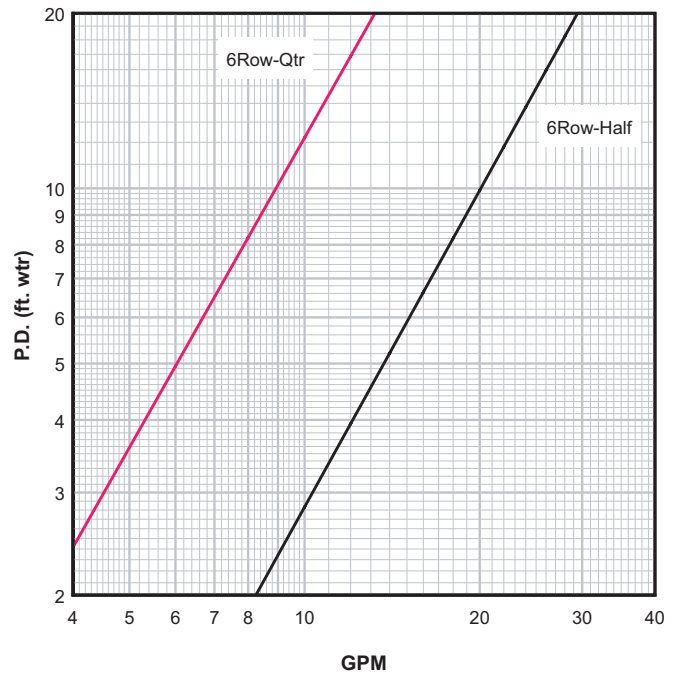
Size 40 2 Row Coil Pressure Drop



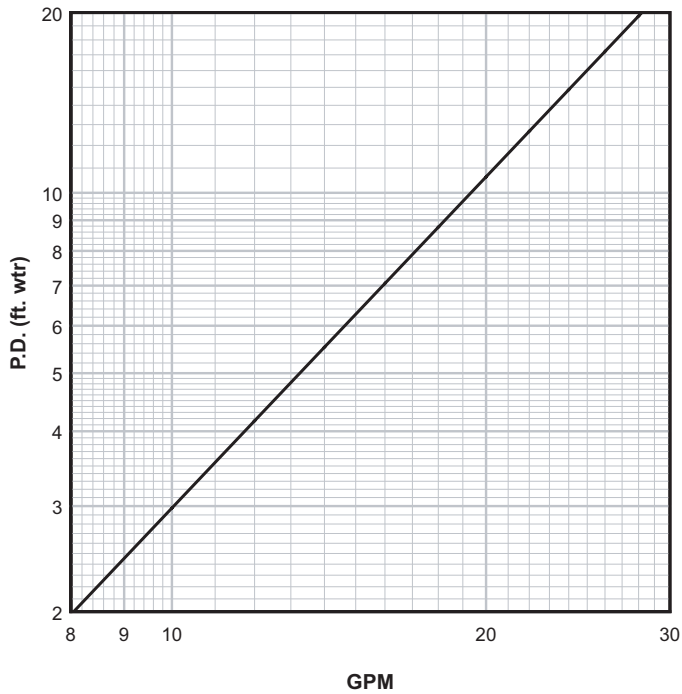
Size 40 4 Row Coil Pressure Drop



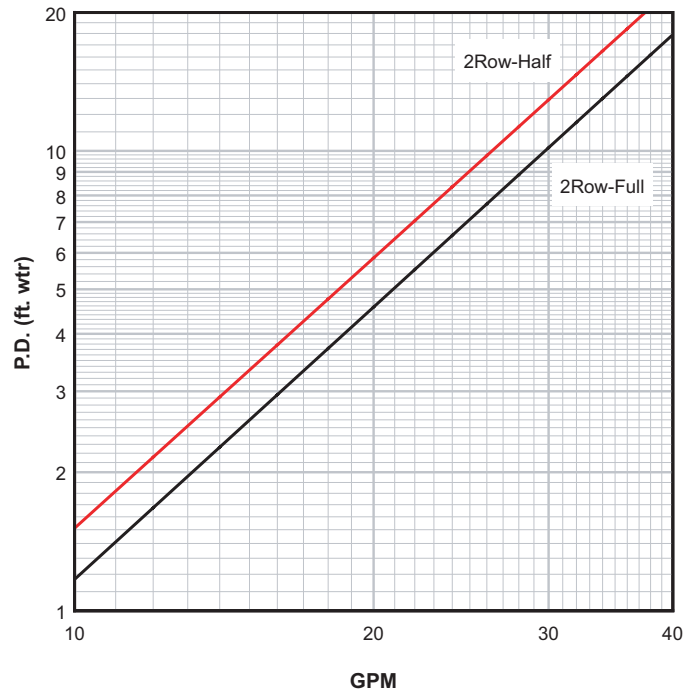
Size 40 6 Row Coil Pressure Drop



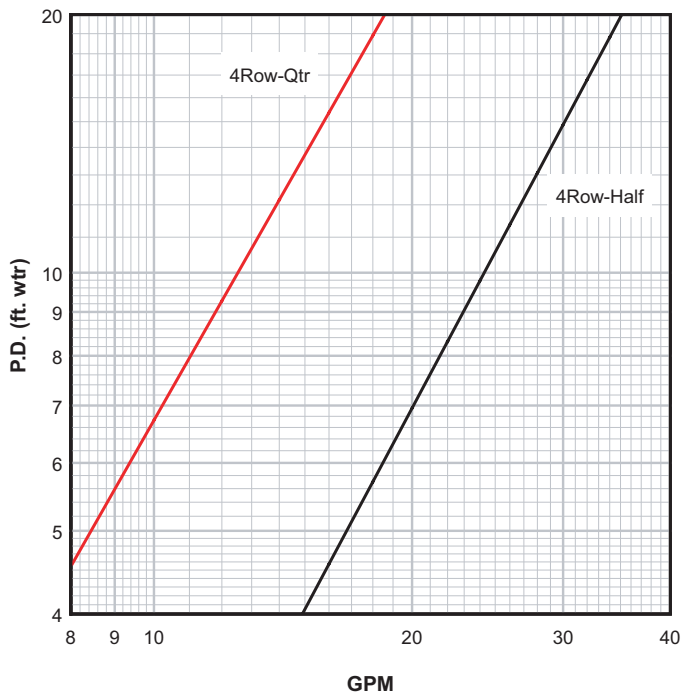
Size 60 1 Row Coil Pressure Drop



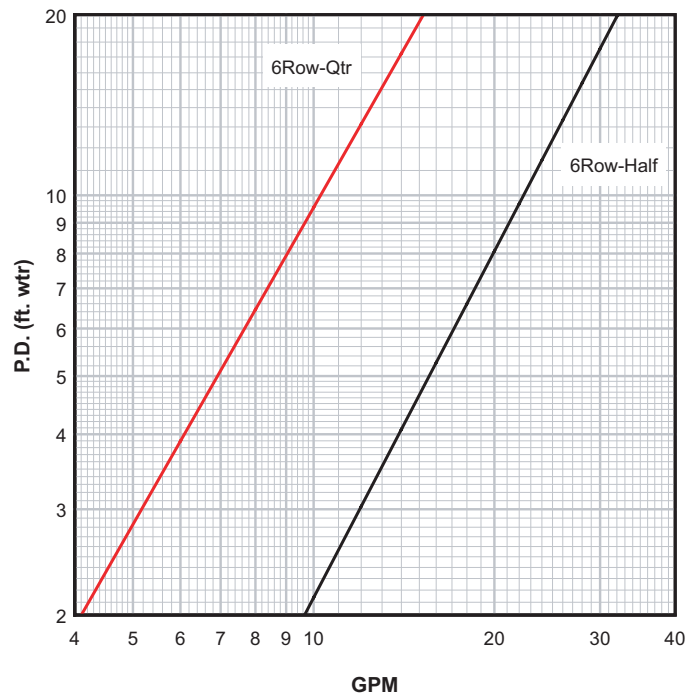
Size 60 2 Row Coil Pressure Drop



Size 60 4 Row Coil Pressure Drop



Size 60 6 Row Coil Pressure Drop

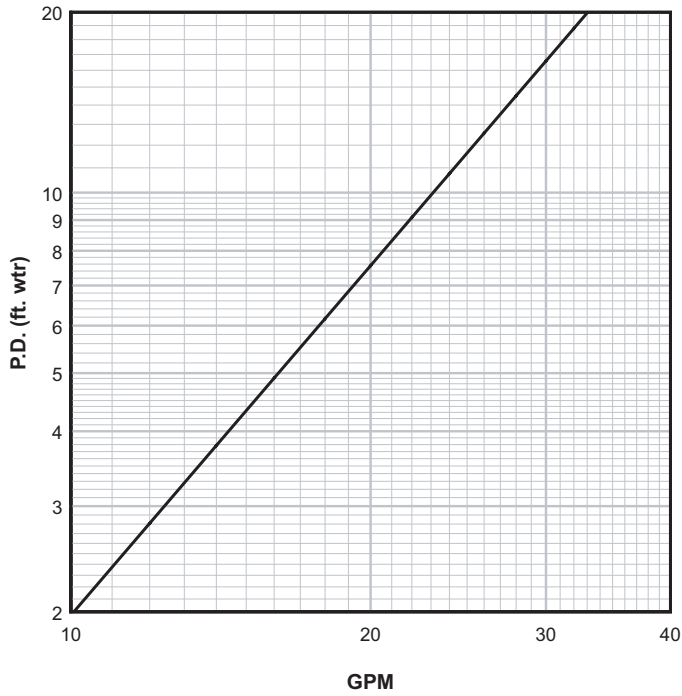


Product Specifications

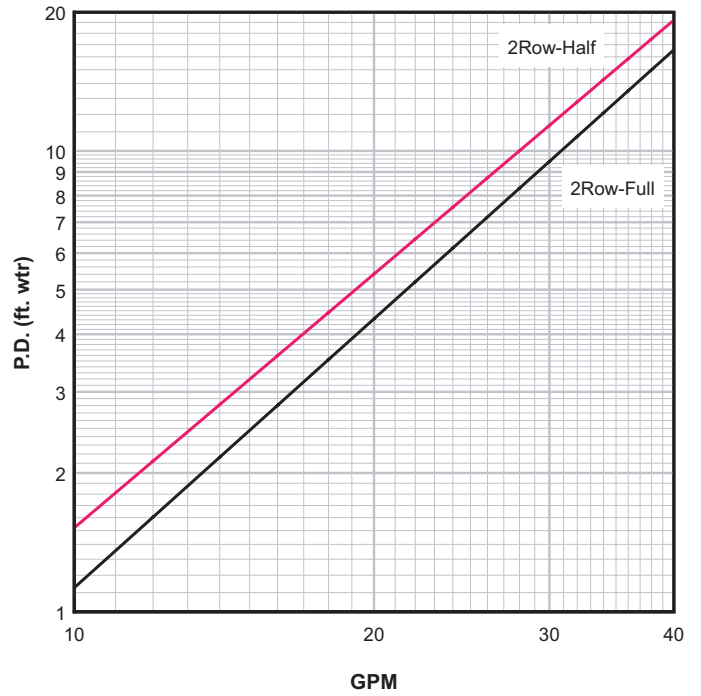
Horizontal
Chilled Water / Hot Water

PRESSURE DROP

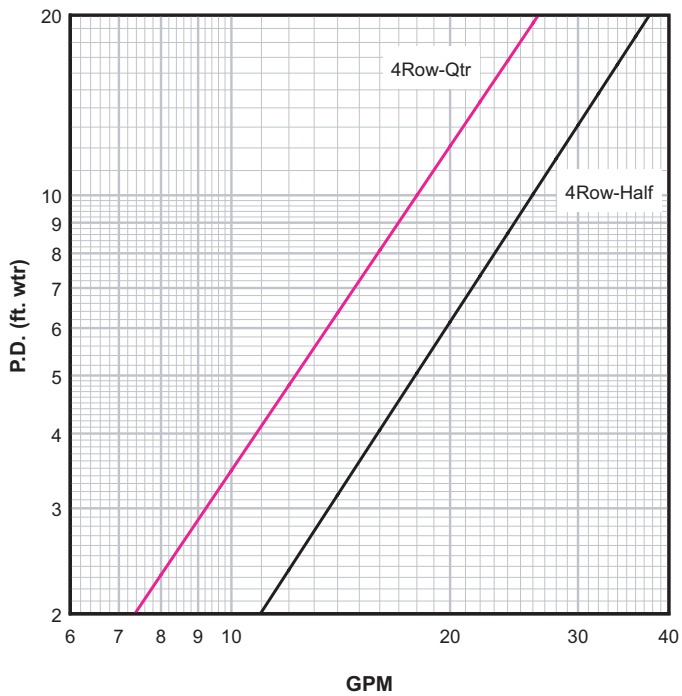
Size 80 1 Row Coil Pressure Drop



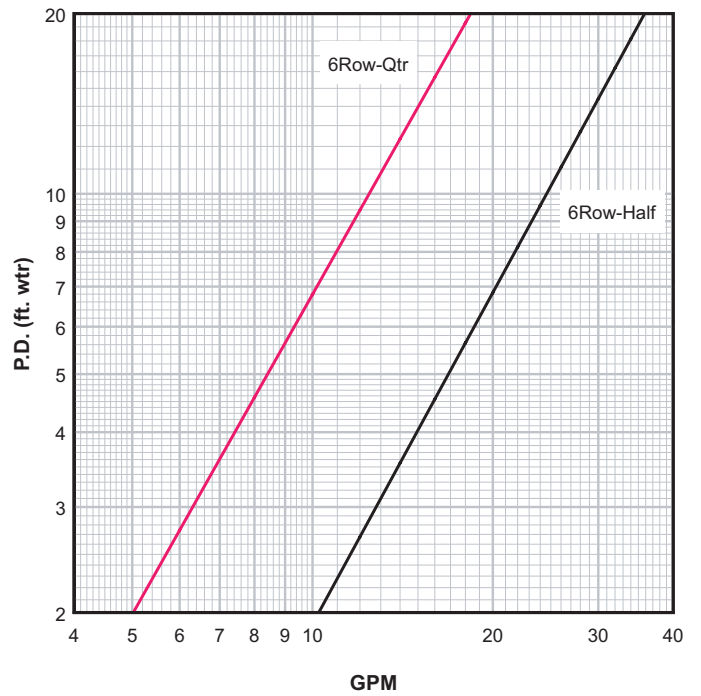
Size 80 2 Row Coil Pressure Drop



Size 80 4 Row Coil Pressure Drop



Size 80 6 Row Coil Pressure Drop



Product Specifications

Horizontal
Chilled Water / Hot Water

ELECTRICAL DATA & WEIGHTS

SINGLE PHASE							THREE PHASE								
Motor Data				Control Box Data			Part Number	Motor Data				Control Box Data			Part Number
Volt	Phase	HP	FLA	MCA	Fuse/Qty	Part Number	Volt	Phase	HP	FLA	MCA	Fuse/Qty	Part Number		
115	1	1/4	5.8	10	10	1	208/230	3	1/3	1.6	3	3	3	986FF33M1M	
		1/3	7.2	15	15	1			1/2	2.4	6	6	3	986FF33M2M	
		1/2	9.8	15	15	1			3/4	3.5	6	6	3		
		3/4	13.8	20	20	1			986FF33M3M						
		1	16.4	25	25	1			1.5	6.6	10	10	3	986FF33M4M	
		1.5	20.0	25	25	1			2	7.5	15	15	3		
		2	24.0	30	30	1			986FF33M6M						
277	1	1/3	3.0	6	6	1	460	3	1/3	0.8	3	3	3	986FF63M1M	
		1/2	4.1	6	6	1			1/2	1.1	3	3	3		
		3/4	5.7	10	10	1			3/4	1.6	3	3	3		
		1	6.8	10	10	1			1	3.7	6	6	3	986FF63M2M	
		1.5	8.5	15	15	1			1.5	3.0	6	6	3		
		2	10.0	15	15	1			2	3.7	6	6	3		
208/230	1	1/4	2.9	6	6	2	575	3	1/2	0.9	3	3	3	986FF53M1M	
		1/3	3.6	6	6	2			3/4	1.3	3	3	3		
		1/2	4.9	10	10	2			1	1.7	3	3	3	986FF53M2M	
		3/4	6.9	10	10	2			1.5	2.4	3	3	3		
		1	8.2	15	15	2			2	2.7	6	6	3		
		1.5	10.0	15	15	2			3	3.9	6	6	3		
		2	12.0	20	20	2			5	6.1	10	10	3		986FF53M3M
CONTACT FACTORY FOR MOTOR CONTROLS FOR 7-1/2 & 10 HP MOTORS															

WHD SERIES WEIGHTS													
MODEL	**BASE UNIT WEIGHTS		COIL WEIGHTS				ACCESSORY WEIGHTS			MOTOR WEIGHTS			
	OPERATING WEIGHT	SHIPPING WEIGHT	COIL (LESS FLUID)	COIL FLUID VOLUME (GALLONS)	FLUID (LBS.)	COIL (OPERATING) WEIGHT	9BDAF_F2/4 FLAT FILTER SECTION	9BDAF_A2/4 ANGULAR FILTER SECTION	9BDAM_MIXING BOX	120/208/240/1PH		277/1/60	
										HP	LBS	LBS	
8HWD	243.0	295.0	1 ROW	5.3	0.24	2.0	7.3	SHIPPING WT	SHIPPING WT	SHIPPING WT	1/4	20.0	N/A
			2 ROW	10.5	0.48	4.0	14.5	52.0	89.0	98.0	1/3	23.0	23.0
			4 ROW	21.0	0.96	8.0	29.0	OPERATING WT	OPERATING WT	OPERATING WT	1/2	26.0	26.0
			6 ROW	31.5	1.44	12.0	43.5	32.0	62.0	78.0	3/4	31.0	34.0
12HWD	257.0	320.0	1 ROW	6.0	0.28	2.3	8.3	SHIPPING WT	SHIPPING WT	SHIPPING WT	1	33.0	42.0
			2 ROW	12.0	0.56	4.7	16.7	56.0	97.0	103.0	1 1/2	42.0	49.0
			4 ROW	24.0	1.13	9.4	33.4	OPERATING WT	OPERATING WT	OPERATING WT	2	44.0	N/A
			6 ROW	36.0	1.72	14.4	50.4	36.0	70.0	83.0	208/240/480/3PH		
16HWD	295.0	361.0	1 ROW	8.3	0.37	3.1	11.4	SHIPPING WT	SHIPPING WT	SHIPPING WT	1/4	22.0	N/A
			2 ROW	16.5	0.75	6.3	22.8	60.0	123.0	127.0	1/3	22.0	
			4 ROW	33.0	1.50	12.5	45.5	OPERATING WT	OPERATING WT	OPERATING WT	1/2	23.0	
			6 ROW	49.5	2.25	18.8	68.3	49.0	98.0	105.0	3/4	27.0	
20HWD	332.0	402.0	1 ROW	9.5	0.44	3.7	13.2	SHIPPING WT	SHIPPING WT	SHIPPING WT	1	33.0	
			2 ROW	19.0	0.89	7.4	26.4	67.0	137.0	146.0	1 1/2	33.0	
			4 ROW	38.0	1.78	14.9	52.9	OPERATING WT	OPERATING WT	OPERATING WT	2	41.0	
			6 ROW	57.0	2.67	22.3	79.3	52.0	111.0	121.0	3	58.0	
											5	81.0	
											7 1/2	117.0	
											10	143	
30HWD	Contact Factory												
40HWD	Contact Factory												
60HWD	Contact Factory												
80HWD	Contact Factory												
**BASE UNIT WEIGHT INCLUDES BLOWER ASSEMBLY, MOTOR SHEAVE, BLOWER PULLEY, BELT AND 2" FILTER													