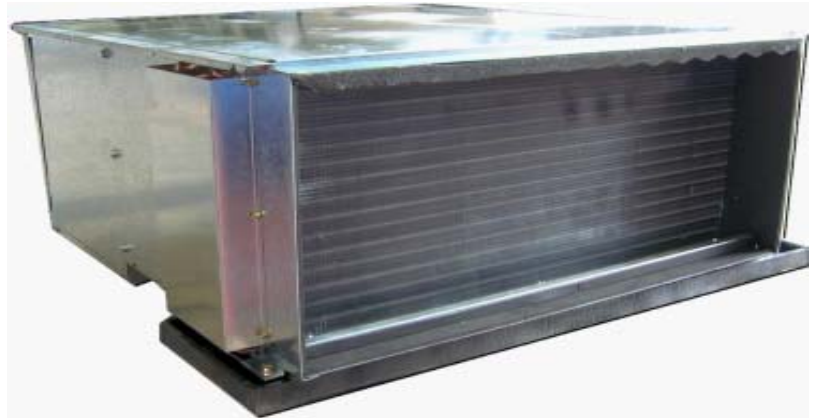




# Commercial System Direct Drive Chilled Water Blower Coil Units

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**MODEL : FWDP 008 - 032**  
**1000 CMH - 5800 CMH**  
**3 kW - 67 kW**





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# FWDP MODEL NOMENCLATURE

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Digit 1,2,3 

F	W	D
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 BLOWER COIL UNIT, DIRECT DRIVE, Cooling Only

Digit 4 

P
---

 Development Sequence, P

Digit 5,6,7 

0	0	8
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 Nominal Capacity, Airflow [CFM]

008	=	800	014	=	1400
018	=	1800	024	=	2400
028	=	2800	032	=	3200

Digit 8 

R
---

 Coil Connection Side  
L = Left Hand Connection  
R = Right Hand Connection

Digit 9 

B
---

 Electrical rating / Utilization Range : Volt / Phase / Hz.  
B = 220 - 240V / 1Ph / 50Hz

Digit 10 

3
---

 Chilled Water Coil  
3 = 3 Rows  
4 = 4 Rows  
6 = 6 Rows (Only For FWDP 024 / 028 / 032)

Digit 11 

0
---

 Future Use

Digit 12 

0
---

 Future Use

Digit 13 

0
---

 Future Use

Digit 14 

A
---

 Minor Design Sequence  
A = First

Digit 15 

A
---

 Service Indicator

MODEL	MTR	FAN
FWDP 008	180W	KDD 8/8
FWDP 014 / 018	550W	KDD 9/9
FWDP 24	750W	KD2 9/7
FWDP 028 / 032	1550W	KD2 9/9

# Standard Features

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The Trane FWDP Blower Coil units are designed to deliver a complete comfort system that makes it well suited for commercial application. They are very compact in size and are designed for tight ceiling space. These units are the most attractive commercial blower coil units by providing high quality solutions at a competitive price.

They are designed for installation in schools, hospitals, offices, stores and other applications where cooling is required.

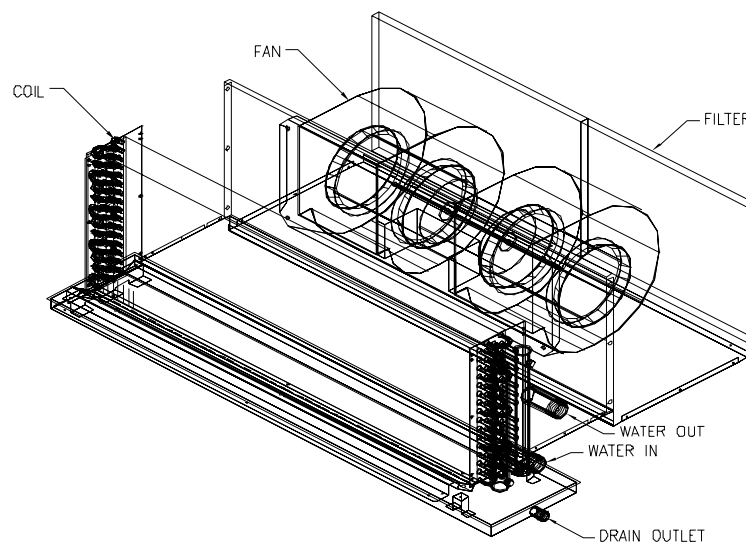
650 FPM without moisture carry-over. This coil design also provides superior heat transfer efficiency with its increased heat transfer surface.

## Trane Innovative Wavy 3BS Slit Fin Coil

Trane Wavy 3BS Coil technology is proven and tested to operate up to

### FWDP

- **Direct-Drive Fan & Motor** There are no belts to wear out and no pulley to adjust, that means trouble-free operation and reduced maintenance.
- **Single-Power Point Entry** Only one power circuit is needed with a simple plug.
- **Space-Saving Design** With less than 500mm in height, this unit fits into almost any ceiling space and easy to handle.  
Suitable for retrofit, renovation and replacement market.
- **Durable Construction** Sturdily constructed with heavy gauge galvanized steel for frame and casing.
- **Easy of Installation** Suspension plates are provided as standard with Clip-on & Quick slide in installation method. This will make your unit installation faster and easier.
- **Ease of Servicing** A large bottom removable panel is provided for easy access for fan and motor.





# General Specification

Model		FWDP 008	FWDP 014	FWDP 018	FWDP 024	FWDP 028	FWDP 032
Nom. Airflow		800	1400	1800	2400	2800	3200
CFM							
CMH		1359	2379	3059	4078	4758	5437
Cooling Coil							
Coil Face Area		2.78 (0.26)	2.78 (0.26)	3.98 (0.37)	5.00 (0.46)	6.67 (0.62)	7.22 (0.67)
Sq. ft. (m <sup>2</sup> )							
Chilled Water Coil 3 Row	Row/FPI	3 / 12					
	Total Capacity	16.82 (4.93)	28.71 (8.41)	51.13 (14.98)	72.84 (21.34)	95.79 (28.07)	108.9 (31.91)
	WFR	3.35 (0.21)	5.72 (0.36)	10.19 (0.64)	14.51 (0.92)	19.09 (1.20)	21.69 (1.37)
	WPD	0.19 (0.57)	0.48 (1.43)	1.88 (5.62)	4.35 (12.98)	9.37 (28.00)	12.69 (37.92)
Chilled Water Coil 4 Row	Row/FPI	4 / 12					
	Total Capacity	26.82 (7.86)	43.24 (12.67)	66.83 (19.58)	91.80 (26.90)	117.1 (34.31)	133.0 (38.97)
	WFR	5.34 (0.34)	8.62 (0.54)	13.32 (0.84)	18.29 (1.15)	23.34 (1.47)	26.50 (1.67)
	WPD	0.54 (1.60)	1.22 (3.65)	3.75 (11.21)	8.16 (24.37)	16.66 (49.78)	22.54 (67.35)
Chilled Water Coil 6 Row	Row/FPI	6 / 12					
	Total Capacity	-	-	-	112.6 (32.99)	140.5 (41.17)	160.0 (46.88)
	WFR	-	-	-	22.43 (1.42)	28.01 (1.77)	31.88 (2.01)
	WPD	-	-	-	8.47 (25.29)	16.64 (49.72)	22.61 (67.56)
Fins Material		Aluminium					
Header Material		Copper with Threaded Steel Connector (External)					
Tube Size (OD)		3/8" (9.525)					
in (mm)							
Header Diameter (OD)		1" BSPT Threaded Connection					
in (mm)							
Drain Connection Size		3/4" (19.05) BSPT Steel					
in (mm)							
Fan		Centrifugal Forward-Curved Fan					
Drive Type		Direct Drive					
Fan Size		KDD 8/8	KDD 9/9	KDD 9/9	KD2 9/7	KD2 9/9	KDD 9/9
No. of Fans		1	1	1	2	2	2
Fan Rated Speed:- Lo / Med / Hi		1300	1050/1150/1300	1050/1150/300	1250/1300/1350	1235/1345/1410	1235/1345/1410
RPM							
Avail. ESP at Nom. Airflow		109 / 92	161 / 113	89 / 49	177 / 135 / 66	208 / 198 / 135	166 / 122 / 102
Hi							
Pa							
for 3R / 4R / 6R Coil		-	156 / 104	46 / 12	157 / 112 / 62	175 / 168 / 114	143 / 112 / 55
Med							
Pa							
Lo		-	147 / 97	-	-	125 / 100 / 52	-
Pa							
Motor Type		Single Speed	Three Speed				
Power Supply		220-240V / 1 Ph / 50Hz, 4 Pole, Class F Insulation					
Motor Size		180 W	550 W	550 W	750 W	1550 W	1550 W
FLA <sup>(2)</sup> - Lo / Med / Hi		1.25	4.5 / 5.3 / 5.6	4.5 / 5.3 / 5.6	4.4 / 5.5 / 5.8	7.5 / 8.5 / 9.0	7.5 / 8.5 / 9.0
Amp (A)							
LRA <sup>(2)</sup> - Lo / Med / Hi		1.72	5.71 / 6.8 / 8.18	5.71 / 6.8 / 8.18	7.01 / 8.88 / 12.09	13.0 / 16.9 / 23.8	13.0 / 16.9 / 23.8
Amp (A)							
Filter Type		1" Washable Filters					
Quantity - Size		1 - 16" x 25"	1 - 16" x 25"	1 - 15" x 20"	1 - 16" x 20"	3 - 16" x 20"	2 - 16" x 20"
in							
		-	-	1 - 15" x 15"	1 - 16" x 25"	-	1 - 16" x 25"
Approx.Operating Weight		54	58	72	82	114	120
kg							
Unit Dimensions : H x W x L		471 x 704 x 983	471 x 704 x 983	471 x 983 x 983	471 x 1212 x 983	471 x 1593 x 983	471 x 1720 x 983
mm							

Note:

1. Cooling coil performances are rated at 26.7°C ( 80°F ) EDB, 19.4°C ( 67°F ) EWB and nominal airflow listed ( 6.67°C EWT / 12.22°C LWT ).
2. Motor current rated as per 240V / 1Ph / 50Hz.
3. Basic unit includes direct-drive fan motor, cooling coil and 1" washable filters.
4. Please refer to the product catalog for more details on unit dimension.

# Mechanical Specification

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## FWDP Blower Coil Units

### General

The Trane FWDP Blower Coil Units shall be completely factory assembled consisting of filters, cooling coil, condensate drain pan, motor, direct-drive forward-curved fan and junction box with terminal strip.

### Casing

Unit casing shall be constructed of mainly 1.2 mm thick galvanized steel. The unit casing shall be insulated with 10 mm thick, UL Class 94, fire retardant PU foam insulation. The foam insulation shall have a density of 20 kg/m<sup>3</sup> and a heat transfer coefficient value of 0.03

W/mK.

### Filter

One inch washable filters with side sliding filter rail shall be provided as standard.

## Cooling Coil

Coils shall be 9.5mm OD. (3/8") copper tubes, mechanically bonded to Wavy-3BS aluminium fin collars. Standard cooling coil shall be selected with 3 rows, 4 rows or 6 rows and 144 FPF. All coils shall be factory pressure test for leakage and proof at 25.9 kg/cm<sup>2</sup> (375 psi). Recommended working pressure is 13.8 kg/cm<sup>2</sup> (200 psi).

The headers shall be made of copper with straight connection. All headers shall be fitted with air venting and water draining plug.

The cooling coil shall be arranged for Blow-thru air flow and supplied with standard GI Steel drain pan. The drain pan shall be insulated with 6 mm PE foam insulation to prevent condensation and coated with antirust for better **corrosion resistant**.

## Fan

Supply fans shall be of **double width**, double inlet forward-curved centrifugal fans with direct drive motor. Thermal overload protection shall be standard for all motors. Fan and motor bearings shall be permanently lubricated.



# Performance Data (Cooling Coil) FWDP - SI UNIT

Model	Air Flow CMH (CFM)	EAT DB / WB °C	Entering Water Temperature - 6.67°C											
			Water Temperature Rise											
			3.33°C				4.44°C				5.55°C			
			TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa
FWDP 08	1020 (600)	23.9 / 16.1	4.13	3.99	0.29	1.03	3.50	3.46	0.19	0.47	3.29	3.25	0.14	0.29
		25.0 / 17.8	5.38	4.31	0.38	1.62	3.93	3.72	0.21	0.57	3.64	3.50	0.16	0.34
		26.7 / 19.4	7.09	4.84	0.51	2.62	5.19	4.09	0.28	0.92	4.27	3.75	0.18	0.45
	1359 (800)	30.0 / 21.7	9.53	5.91	0.68	4.37	8.08	5.33	0.43	1.98	5.68	4.45	0.24	0.73
		23.9 / 16.1	5.51	5.41	0.39	1.69	4.19	4.14	0.22	0.64	3.90	3.85	0.17	0.38
		25.0 / 17.8	6.97	5.61	0.50	2.54	5.02	4.84	0.27	0.87	4.27	4.09	0.18	0.45
	1699 (1000)	26.7 / 19.4	8.97	6.22	0.64	3.93	7.10	5.49	0.38	1.58	4.93	4.69	0.21	0.57
		30.0 / 21.7	11.94	7.53	0.85	6.45	10.31	7.48	0.55	3.01	8.13	6.14	0.35	1.35
		23.9 / 16.1	6.69	6.61	0.48	2.37	5.25	5.19	0.28	0.94	4.38	4.32	0.19	0.47
FWDP 08	1020 (600)	25.0 / 17.8	8.30	6.79	0.59	3.44	6.40	6.03	0.34	1.32	4.78	4.56	0.20	0.54
		26.7 / 19.4	10.57	7.42	0.76	5.22	8.61	6.70	0.46	2.21	5.76	5.65	0.25	0.75
		30.0 / 21.7	13.98	8.97	1.00	8.48	12.18	8.28	0.65	3.39	9.96	7.47	0.43	1.92
	1359 (800)	23.9 / 16.1	5.32	4.69	0.38	2.00	4.24	4.10	0.23	0.82	3.99	3.85	0.17	0.50
		25.0 / 17.8	6.85	5.01	0.49	3.09	5.51	4.44	0.30	1.29	4.55	4.06	0.20	0.62
		26.7 / 19.4	8.64	5.58	0.62	4.62	7.45	5.07	0.40	2.16	5.56	4.32	0.24	0.88
	1699 (1000)	30.0 / 21.7	11.20	6.71	0.80	7.23	10.19	6.27	0.55	3.71	8.86	4.59	0.38	1.97
		23.9 / 16.1	6.96	6.18	0.50	3.17	5.78	5.67	0.31	1.39	4.81	4.76	0.21	0.69
		25.0 / 17.8	8.79	6.51	0.63	4.75	7.40	5.92	0.40	2.13	5.41	5.14	0.23	0.84
1699 (1000)	26.7 / 19.4	11.00	7.19	0.79	7.00	9.66	6.63	0.52	3.38	7.86	5.92	0.34	1.60	
	30.0 / 21.7	14.20	8.59	1.02	10.92	12.99	8.09	0.70	5.64	11.51	7.50	0.49	3.09	
	23.9 / 16.1	8.39	7.55	0.60	4.39	7.16	7.02	0.38	2.02	5.68	5.61	0.21	0.91	
1699 (1000)	25.0 / 17.8	10.49	7.89	0.75	6.45	8.99	7.27	0.48	2.99	7.10	6.51	0.30	1.34	
	26.7 / 19.4	13.06	8.66	0.93	9.44	11.57	8.05	0.62	4.61	9.69	7.30	0.42	2.29	
	30.0 / 21.7	16.84	10.33	1.20	14.69	15.43	9.75	0.83	7.60	13.78	9.10	0.59	4.22	

Model	Air Flow CMH (CFM)	EAT DB / WB °C	Entering Water Temperature - 6.67°C											
			Water Temperature Rise											
			3.33°C				4.44°C				5.55°C			
			TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa
FWDP 14	2039 (1200)	23.9 / 16.1	7.73	7.44	0.55	3.03	6.29	6.19	0.34	1.28	4.76	4.69	0.20	0.54
		25.0 / 17.8	9.46	7.84	0.68	4.31	7.53	7.08	0.40	1.75	5.21	5.12	0.22	0.63
		26.7 / 19.4	11.95	8.56	0.85	6.45	9.90	7.76	0.53	2.84	7.24	6.93	0.31	1.10
	2379 (1400)	30.0 / 21.7	15.75	10.25	1.13	10.43	13.78	9.51	0.74	4.99	11.50	8.68	0.49	2.46
		23.9 / 16.1	8.66	8.33	0.62	3.69	7.20	7.09	0.39	1.62	5.08	5.01	0.22	0.60
		25.0 / 17.8	10.49	8.83	0.75	5.15	8.52	8.07	0.46	2.17	6.10	5.99	0.26	0.82
	2719 (1600)	26.7 / 19.4	13.16	9.58	0.94	7.64	11.02	8.76	0.59	3.38	8.41	7.81	0.36	1.43
		30.0 / 21.7	17.30	11.44	1.24	12.28	15.19	10.66	0.82	5.90	12.82	9.80	0.55	2.96
		23.9 / 16.1	9.51	9.15	0.68	4.34	8.03	7.92	0.43	1.96	5.42	5.34	0.23	0.67
FWDP 14	2039 (1200)	25.0 / 17.8	11.41	9.75	0.82	5.96	9.41	8.97	0.50	2.57	7.08	6.95	0.30	1.06
		26.7 / 19.4	14.33	10.53	1.02	8.76	12.02	9.69	0.64	3.93	9.42	8.74	0.40	1.74
		30.0 / 21.7	18.69	12.56	1.34	14.06	16.45	11.73	0.88	6.77	13.99	10.85	0.60	3.45
	2379 (1400)	23.9 / 16.1	9.69	8.81	0.69	5.62	8.40	8.27	0.45	2.64	6.93	6.83	0.30	1.29
		25.0 / 17.8	12.00	9.15	0.86	8.15	10.40	8.49	0.56	3.84	8.49	7.73	0.36	1.83
		26.7 / 19.4	14.89	10.19	1.07	11.86	13.24	9.33	0.71	5.84	11.27	8.56	0.48	2.98
	2719 (1600)	30.0 / 21.7	19.21	11.90	1.37	18.47	17.58	11.47	0.94	9.54	15.77	10.79	0.68	5.33
		23.9 / 16.1	10.86	10.03	0.78	6.85	9.52	9.19	0.51	3.30	8.03	7.92	0.34	1.66
		25.0 / 17.8	13.36	10.34	0.96	9.82	11.65	9.64	0.63	4.68	9.70	8.87	0.42	2.30
2719 (1600)	26.7 / 19.4	16.54	11.26	1.18	14.23	14.74	10.84	0.79	7.02	12.67	9.73	0.54	3.65	
	30.0 / 21.7	21.35	13.39	1.53	22.21	19.51	12.66	1.05	11.42	17.55	11.91	0.75	6.41	
	23.9 / 16.1	11.95	11.18	0.85	8.09	10.56	10.18	0.57	3.94	9.04	8.91	0.39	2.04	
2719 (1600)	25.0 / 17.8	14.60	11.47	1.04	11.45	12.80	10.74	0.69	5.50	10.80	9.95	0.46	2.77	
	26.7 / 19.4	18.03	12.45	1.29	16.54	16.10	11.68	0.86	8.18	13.93	10.84	0.60	4.30	
	30.0 / 21.7	23.30	12.94	1.67	25.87	21.24	13.98	1.14	13.25	19.14	13.19	0.82	7.46	



# Performance Data (Cooling Coil) FWDP - SI UNIT

Model	Air Flow CMH (CFM)	EAT DB / WB °C	Entering Water Temperature - 6.67°C											
			Water Temperature Rise											
			3.33°C				4.44°C				5.55°C			
			TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa
FWDP 18 3 Row	2719 (1600)	23.9 / 16.1	11.73	10.94	0.84	9.03	10.33	9.97	0.55	4.37	8.72	8.61	0.37	2.21
		25.0 / 17.8	14.42	11.27	1.03	12.93	12.64	10.53	0.68	6.20	10.55	9.71	0.45	3.07
		26.7 / 19.4	17.89	12.27	1.28	18.82	15.98	11.50	0.86	9.31	13.79	10.65	0.59	4.87
		30.0 / 21.7	23.07	14.58	1.65	29.32	21.14	13.81	1.13	15.15	19.05	13.02	0.82	8.52
	3059 (1800)	23.9 / 16.1	12.75	12.02	0.91	10.43	11.30	10.91	0.61	5.11	9.68	9.57	0.42	2.64
		25.0 / 17.8	15.57	12.31	1.11	14.76	13.71	11.56	0.74	7.14	11.60	10.73	0.50	3.61
		26.7 / 19.4	19.29	13.38	1.38	21.44	17.24	12.56	0.93	10.63	14.98	11.69	0.64	5.62
		30.0 / 21.7	24.89	15.88	1.78	33.47	22.75	15.04	1.22	17.22	20.54	14.21	0.88	9.72
	3398 (2000)	23.9 / 16.1	13.69	13.04	0.98	11.80	12.21	11.77	0.65	5.84	10.57	10.45	0.45	3.08
25.0 / 17.8		16.62	13.31	1.19	16.54	14.70	12.53	0.79	8.06	12.56	11.69	0.54	4.14	
26.7 / 19.4		20.57	14.43	1.47	23.99	18.40	13.57	0.99	11.90	16.07	12.68	0.69	6.35	
30.0 / 21.7		26.58	17.41	1.90	37.53	24.24	16.21	1.30	19.22	21.90	15.34	0.94	10.87	
FWDP 18 4 Row	2719 (1600)	23.9 / 16.1	14.16	12.36	1.01	15.68	12.89	11.80	0.69	8.04	11.48	11.20	0.49	4.45
		25.0 / 17.8	17.49	12.89	1.25	22.63	15.95	12.23	0.86	11.62	14.19	11.53	0.61	6.42
		26.7 / 19.4	21.51	14.09	1.54	32.48	19.83	13.38	1.06	16.98	18.02	12.64	0.77	9.70
		30.0 / 21.7	27.39	16.68	1.96	49.54	25.69	15.97	1.38	26.65	23.88	15.24	1.02	15.83
	3059 (1800)	23.9 / 16.1	15.44	13.62	1.10	18.22	14.11	13.04	0.76	9.40	12.65	12.43	0.54	5.26
		25.0 / 17.8	19.01	14.16	1.36	26.17	17.35	13.46	0.93	13.45	15.51	12.70	0.67	7.48
		26.7 / 19.4	23.38	15.45	1.67	37.56	21.51	14.67	1.15	19.57	19.58	13.89	0.84	11.21
		30.0 / 21.7	29.80	18.29	2.13	57.46	27.89	17.50	1.50	30.75	25.88	16.70	1.11	18.21
	3398 (2000)	23.9 / 16.1	16.64	14.85	1.19	20.76	15.25	14.25	0.82	10.75	13.75	13.30	0.59	6.07
		25.0 / 17.8	20.43	15.38	1.46	29.67	18.64	14.63	1.00	15.24	16.73	13.85	0.72	8.53
		26.7 / 19.4	25.13	16.75	1.80	42.61	23.08	15.91	1.24	22.11	21.03	15.08	0.90	12.68
		30.0 / 21.7	32.08	19.82	2.29	65.32	29.94	18.95	1.61	34.81	27.74	19.84	1.19	20.54

Model	Air Flow CMH (CFM)	EAT DB / WB °C	Entering Water Temperature - 6.67°C											
			Water Temperature Rise											
			3.33°C				4.44°C				5.55°C			
			TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa
FWDP 24 3 Row	3738 (2200)	23.9 / 16.1	16.33	15.03	1.17	20.08	14.87	14.41	0.80	10.29	13.28	12.80	0.57	5.72
		25.0 / 17.8	19.97	15.46	1.43	28.51	18.06	14.68	0.97	14.42	16.01	13.85	0.69	7.91
		26.7 / 19.4	24.67	16.83	1.76	41.26	22.43	15.92	1.20	21.03	20.21	15.04	0.87	11.84
		30.0 / 21.7	31.61	19.91	2.26	63.70	29.29	18.99	1.57	33.50	26.95	18.06	1.15	19.45
	4078 (2400)	23.9 / 16.1	17.30	16.07	1.24	22.20	15.80	15.44	0.85	11.44	14.18	13.67	0.61	6.40
		25.0 / 17.8	21.10	16.50	1.51	31.37	19.09	15.67	1.02	15.88	16.99	14.83	0.73	8.76
		26.7 / 19.4	26.06	17.91	1.86	45.39	23.65	16.94	1.27	23.07	21.34	16.04	0.92	12.98
		30.0 / 21.7	33.40	21.20	2.39	70.16	30.88	20.20	1.66	36.78	28.33	19.23	1.22	21.30
	4418 (2600)	23.9 / 16.1	18.23	17.08	1.30	24.31	16.68	16.43	0.89	12.57	15.04	14.49	0.65	7.09
25.0 / 17.8		22.16	17.48	1.58	34.18	20.05	16.62	1.08	17.29	17.91	15.77	0.77	9.60	
26.7 / 19.4		27.36	18.96	1.96	49.42	24.81	17.94	1.33	25.06	22.40	17.00	0.96	14.15	
30.0 / 21.7		35.10	22.42	2.51	76.49	32.41	21.37	1.74	39.98	29.68	20.34	1.27	23.11	
FWDP 24 4 Row	3738 (2200)	23.9 / 16.1	19.53	16.96	1.40	34.33	18.13	16.34	0.97	18.19	16.66	15.73	0.71	10.60
		25.0 / 17.8	24.06	17.68	1.72	49.42	22.24	16.89	1.19	25.94	20.38	16.13	0.87	15.04
		26.7 / 19.4	29.51	19.30	2.11	70.70	27.43	18.42	1.47	37.41	25.38	17.57	1.09	22.04
		30.0 / 21.7	37.45	22.78	2.68	107.27	35.37	21.92	1.90	58.30	33.11	21.01	1.42	35.02
	4078 (2400)	23.9 / 16.1	20.79	18.20	1.49	38.28	19.31	16.39	1.04	20.28	17.78	16.91	0.76	11.88
		25.0 / 17.8	25.56	18.93	1.83	54.95	23.60	18.10	1.27	28.77	21.65	18.05	0.93	16.71
		26.7 / 19.4	31.38	20.64	2.24	78.64	29.10	19.69	1.56	41.47	26.90	18.79	1.15	24.37
		30.0 / 21.7	39.82	24.37	2.85	119.52	37.53	23.42	2.01	64.72	35.10	22.44	1.51	38.75
	4418 (2600)	23.9 / 16.1	21.99	19.41	1.57	42.19	20.43	18.71	1.10	22.37	18.86	18.08	0.81	13.15
25.0 / 17.8		26.99	20.14	1.93	60.42	24.89	19.26	1.34	31.58	22.85	18.41	0.98	18.35	
26.7 / 19.4		33.14	21.94	2.37	86.53	30.68	20.93	1.65	45.51	28.33	19.97	1.22	26.67	
30.0 / 21.7		42.07	25.90	3.01	131.71	39.61	24.88	2.12	71.08	36.98	23.84	1.59	42.46	
FWDP 24 6 Row	3738 (2200)	23.9 / 16.1	23.05	18.91	1.65	33.32	21.59	18.25	1.16	17.93	19.94	17.52	0.86	10.56
		25.0 / 17.8	28.48	19.94	2.04	48.17	26.77	19.27	1.44	26.06	24.83	18.35	1.07	15.44
		26.7 / 19.4	34.66	21.85	2.48	67.92	32.82	21.13	1.76	37.17	30.88	20.16	1.33	22.55
		30.0 / 21.7	43.63	25.78	3.12	101.56	41.81	25.09	2.24	56.71	39.79	24.13	1.71	35.08
	4078 (2400)	23.9 / 16.1	24.71	20.41	1.77	37.59	23.15	19.71	1.24	20.25	21.42	19.03	0.92	11.95
		25.0 / 17.8	30.50	21.51	2.18	54.29	28.63	20.71	1.54	29.29	26.57	19.86	1.14	17.37
		26.7 / 19.4	37.15	23.56	2.66	76.67	35.10	22.70	1.88	41.80	32.99	21.79	1.42	25.29
		30.0 / 21.7	46.79	27.81	3.35	114.89	44.77	26.96	2.40	63.91	42.54	26.03	1.83	39.41
	4418 (2600)	23.9 / 16.1	26.31	21.87	1.88	41.92	24.65	21.13	1.32	22.58	22.85	20.34	0.98	13.38
25.0 / 17.8		32.46	23.04	2.32	60.51	30.41	22.17	1.63	32.54	28.24	21.20	1.21	19.30	
26.7 / 19.4		39.56	25.22	2.83	85.55	37.30	24.27	2.00	46.46	34.98	23.25	1.50	28.04	
30.0 / 21.7		49.84	29.73	3.56	128.39	47.61	28.83	2.55	71.20	45.18	27.77	1.94	43.74	





# Performance Data (Cooling Coil) FWDP - SI UNIT

Model	Air Flow CMH (CFM)	EAT DB / WB °C	Entering Water Temperature - 6.67°C											
			Water Temperature Rise											
			3.33°C				4.44°C				5.55°C			
			TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa
FWDP 28 3 Row	4418 (2600)	23.9 / 16.1	20.82	18.56	1.49	40.97	19.30	17.90	1.03	21.63	17.73	17.24	0.76	12.59
		25.0 / 17.8	25.61	19.25	1.83	58.83	23.54	18.37	1.26	30.57	21.51	17.54	0.92	17.63
		26.7 / 19.4	31.53	20.98	2.26	84.68	29.12	19.99	1.56	44.28	26.78	19.04	1.15	25.81
	4758 (2800)	23.9 / 16.1	21.91	19.68	1.57	44.76	20.31	18.99	1.09	23.65	18.71	18.31	0.80	13.84
		25.0 / 17.8	26.90	20.36	1.92	64.06	24.70	19.47	1.33	33.23	22.60	18.58	0.97	19.20
		26.7 / 19.4	33.14	22.18	2.37	92.30	30.53	21.11	1.64	48.14	28.07	20.11	1.20	28.00
	5098 (3000)	23.9 / 16.1	22.96	20.76	1.64	48.56	21.29	20.05	1.14	25.65	19.65	19.35	0.84	15.06
		25.0 / 17.8	28.13	21.44	2.01	69.26	25.81	20.47	1.38	35.92	23.63	19.58	1.01	20.75
		26.7 / 19.4	34.63	23.33	2.48	99.80	31.88	22.20	1.71	51.93	29.29	21.16	1.26	30.15
FWDP 28 4 Row	4418 (2600)	23.9 / 16.1	24.51	20.76	1.75	68.16	22.99	20.09	1.23	36.72	21.50	19.44	0.92	22.05
		25.0 / 17.8	30.27	21.76	2.16	98.61	28.30	20.91	1.52	52.74	26.35	20.08	1.13	31.40
		26.7 / 19.4	36.98	23.79	2.64	140.14	34.81	22.85	1.87	75.78	32.58	21.91	1.40	45.48
	4758 (8800)	23.9 / 16.1	25.90	22.08	1.85	75.03	24.28	21.37	1.30	40.37	22.72	20.69	0.97	24.28
		25.0 / 17.8	31.97	23.10	2.28	108.29	29.83	22.19	1.60	57.85	27.75	21.31	1.19	34.36
		26.7 / 19.4	39.06	25.23	2.79	154.18	36.71	24.23	1.96	83.10	34.31	23.22	1.47	49.78
	5098 (3000)	23.9 / 16.1	27.24	23.36	1.95	81.93	25.53	22.62	1.34	44.04	23.90	21.92	1.03	26.50
		25.0 / 17.8	33.55	24.40	2.40	118.06	31.32	23.44	1.68	62.93	29.10	22.51	1.25	37.32
		26.7 / 19.4	41.02	26.64	2.93	168.22	38.50	25.56	2.07	90.39	36.01	24.50	1.54	54.02
FWDP 28 6 Row	4418 (2600)	23.9 / 16.1	28.49	22.94	2.04	64.30	27.03	22.28	1.45	35.38	25.43	21.56	1.09	21.45
		25.0 / 17.8	35.16	24.32	2.51	92.93	33.43	23.56	1.79	51.27	31.56	22.71	1.35	31.28
		26.7 / 19.4	42.66	26.64	3.05	130.37	40.81	25.85	2.19	72.61	38.85	24.96	1.67	44.91
	4758 (2800)	23.9 / 16.1	30.27	24.51	2.16	71.53	28.70	23.79	1.54	39.29	27.03	23.04	1.16	23.90
		25.0 / 17.8	37.36	25.89	2.67	103.35	35.48	25.14	1.90	56.86	33.46	24.20	1.44	34.63
		26.7 / 19.4	45.36	28.46	3.24	145.16	43.33	27.57	2.32	80.59	41.17	26.61	1.77	49.72
	5098 (3000)	23.9 / 16.1	32.02	26.04	2.29	78.91	30.33	25.28	1.63	43.24	28.57	24.49	1.23	26.32
		25.0 / 17.8	39.50	37.52	2.82	113.96	37.47	26.69	2.01	62.51	35.28	25.61	1.51	37.95
		26.7 / 19.4	47.99	29.89	3.43	160.22	45.77	29.26	2.45	88.65	43.42	28.11	1.86	54.56
		30.0 / 21.7	60.15	30.41	4.30	238.41	58.01	28.77	3.11	134.40	55.64	33.45	2.39	84.08

Model	Air Flow CMH (CFM)	EAT DB / WB °C	Entering Water Temperature - 6.67°C											
			Water Temperature Rise											
			3.33°C				4.44°C				5.55°C			
			TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa	TC kW	SC kW	WFR l/s	WPD kPa
FWDP 32 3 Row	5098 (3000)	23.9 / 16.1	23.77	21.23	1.70	55.94	22.10	20.50	1.19	29.66	20.47	19.82	0.88	17.53
		25.0 / 17.8	29.20	21.99	2.09	80.17	26.90	21.02	1.44	41.80	24.72	20.12	1.06	24.33
		26.7 / 19.4	35.92	23.96	2.57	114.47	33.26	22.85	1.78	60.54	30.65	21.79	1.32	35.38
	5437 (3200)	23.9 / 16.1	24.83	22.32	1.78	60.39	23.08	21.56	1.24	32.00	21.42	20.86	0.92	18.96
		25.0 / 17.8	30.44	23.08	2.18	86.29	28.04	22.06	1.50	44.91	25.76	21.13	1.11	26.14
		26.7 / 19.4	37.47	25.12	2.68	124.18	34.63	23.95	1.86	64.99	31.91	22.85	1.37	37.92
	5777 (3400)	23.9 / 16.1	25.86	23.39	1.85	64.78	24.03	22.60	1.29	34.33	22.32	21.89	0.96	20.38
		25.0 / 17.8	31.64	24.13	2.26	92.33	29.13	23.08	1.56	48.02	26.76	22.11	1.15	27.92
		26.7 / 19.4	38.94	26.24	2.78	132.91	35.95	25.02	1.93	69.41	33.11	23.88	1.42	40.46
FWDP 32 4 Row	5098 (3000)	23.9 / 16.1	28.02	23.79	2.00	93.29	26.35	23.04	1.41	50.38	24.70	22.34	1.06	30.42
		25.0 / 17.8	34.54	24.91	2.47	134.70	32.35	23.96	1.74	72.22	30.18	23.02	1.29	43.09
		26.7 / 19.4	42.22	27.20	3.02	191.59	39.79	26.16	2.13	103.71	37.27	25.10	1.60	62.33
	5437 (3200)	23.9 / 16.1	29.39	25.09	2.10	101.35	27.59	24.30	1.48	54.65	25.89	23.56	1.11	33.02
		25.0 / 17.8	36.19	26.22	2.59	146.14	33.87	25.22	1.82	79.78	31.56	24.24	1.35	46.58
		26.7 / 19.4	44.21	28.63	3.16	207.96	41.64	27.51	2.23	112.29	38.97	26.40	1.67	67.35
	5777 (3400)	23.9 / 16.1	30.65	26.36	2.19	109.45	28.81	25.53	1.55	58.95	27.03	24.76	1.16	35.59
		25.0 / 17.8	37.77	27.51	2.70	157.53	35.31	26.45	1.89	84.14	32.87	25.42	1.41	50.05
		26.7 / 19.4	46.18	30.00	3.30	224.34	43.39	28.83	2.33	120.80	40.58	27.66	1.74	72.34
FWDP 32 6 Row	5098 (3000)	23.9 / 16.1	32.67	26.32	2.34	88.56	31.03	25.65	1.67	48.79	29.33	24.95	1.26	29.88
		25.0 / 17.8	40.32	27.88	2.88	127.92	38.35	27.09	2.06	70.61	36.27	26.24	1.55	43.21
		26.7 / 19.4	48.90	30.54	3.50	179.52	46.82	29.62	2.51	100.01	44.59	28.80	1.91	61.88
	5437 (3200)	23.9 / 16.1	34.46	27.88	2.46	97.11	32.70	27.16	1.75	53.40	30.88	26.42	1.33	32.66
		25.0 / 17.8	42.49	29.50	3.04	140.26	37.45	28.65	2.17	77.21	38.12	27.74	1.64	47.12
		26.7 / 19.4	51.54	32.31	3.67	197.00	49.28	31.42	2.64	109.42	46.88	30.44	2.01	67.56
	5777 (3400)	23.9 / 16.1	36.16	29.44	2.59	105.78	34.31	28.65	1.84	58.06	32.41	27.87	1.39	35.50
		25.0 / 17.8	44.59	31.09	3.19	152.72	42.34	30.41	2.27	83.84	39.94	29.22	1.71	51.06
		26.7 / 19.4	54.12	34.05	3.87	214.69	51.60	33.07	2.77	118.95	49.11	32.03	2.11	73.27
		30.0 / 21.7	67.83	40.04	4.85	319.42	65.49	39.12	3.51	180.15	62.85	38.10	2.70	112.83



# Performance Data (Cooling Coil) FWDP - IP UNIT

Model	Air Flow CFM	EAT DB / WB °F	Entering Water Temperature - 44°F											
			Water Temperature Rise											
			6°F				8°F				10°F			
			TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg
FWDP 08 3 Row	600	75 / 61	14.08	13.61	4.68	0.34	11.96	11.82	2.98	0.16	11.22	11.08	2.24	0.10
		77 / 64	18.35	14.71	6.09	0.54	13.41	12.71	3.34	0.19	12.43	11.95	2.48	0.11
		80 / 67	24.19	16.52	8.03	0.88	17.70	13.96	4.41	0.31	14.58	12.81	2.91	0.15
	800	86 / 71	32.54	20.18	10.80	1.46	27.56	18.19	6.86	0.66	19.37	15.20	3.86	0.24
		75 / 61	18.82	18.47	6.25	0.57	14.31	14.13	3.56	0.21	13.32	13.15	2.65	0.13
		77 / 64	23.78	19.16	7.90	0.85	17.14	16.53	4.27	0.29	14.56	13.95	2.90	0.15
	1000	80 / 67	30.62	21.23	10.17	1.32	24.23	18.73	6.03	0.53	16.82	16.00	3.35	0.19
		86 / 71	40.74	25.70	13.53	2.16	35.18	25.52	8.76	1.01	27.75	20.97	5.53	0.45
		75 / 61	22.84	22.55	7.58	0.79	17.92	17.70	4.48	0.31	14.94	14.76	2.98	0.16
FWDP 08 4 Row	600	77 / 64	28.34	23.17	9.41	1.15	21.83	20.59	5.44	0.44	16.30	15.58	3.25	0.18
		80 / 67	36.07	25.34	11.97	1.75	29.40	22.85	7.32	0.74	19.66	19.29	3.92	0.25
		86 / 71	47.70	30.62	15.84	2.84	41.57	28.25	10.35	1.13	34.01	25.49	6.78	0.64
	800	75 / 61	18.16	16.02	6.03	0.67	14.46	13.99	3.60	0.27	13.61	13.15	2.71	0.17
		77 / 64	23.37	17.09	7.76	1.03	18.82	15.17	4.69	0.43	15.53	13.85	3.10	0.21
		80 / 67	29.49	19.03	9.79	1.55	25.44	17.31	6.34	0.72	18.97	14.75	3.78	0.29
	1000	86 / 71	38.21	22.91	12.69	2.42	34.78	21.39	8.66	1.24	30.23	15.65	6.02	0.66
		75 / 61	23.74	21.08	7.88	1.06	19.71	19.36	4.91	0.47	16.43	16.24	3.28	0.23
		77 / 64	30.00	22.22	9.96	1.59	25.24	20.22	6.29	0.71	18.47	17.53	3.68	0.28
800	80 / 67	37.53	24.53	12.46	2.34	32.97	22.63	8.21	1.13	26.82	20.19	5.34	0.54	
	86 / 71	48.46	29.33	16.09	3.65	44.33	27.62	11.04	1.89	39.28	25.59	7.83	1.03	
	75 / 61	28.65	25.76	9.51	1.47	24.45	23.97	6.09	0.68	19.38	19.15	3.36	0.31	
1000	77 / 64	35.81	26.92	11.89	2.16	30.69	24.80	7.64	1.00	24.22	22.22	4.83	0.45	
	80 / 67	44.58	29.57	14.80	3.16	39.48	27.46	9.83	1.54	33.08	24.93	6.59	0.77	
	86 / 71	57.49	35.25	19.09	4.92	52.66	33.27	13.12	2.55	47.04	31.06	9.37	1.41	

Model	Air Flow CFM	EAT DB / WB °F	Entering Water Temperature - 44°F											
			Water Temperature Rise											
			6°F				8°F				10°F			
			TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg
FWDP 14 3 Row	1200	75 / 61	26.37	25.40	8.76	1.02	21.46	21.14	5.35	0.43	16.25	16.01	3.24	0.18
		77 / 64	32.30	26.76	10.72	1.44	25.70	24.16	6.40	0.59	17.77	17.47	3.54	0.21
		80 / 67	40.78	29.20	13.54	2.16	33.78	26.50	8.41	0.95	24.70	23.64	4.92	0.37
	1400	86 / 71	53.74	34.99	17.84	3.49	47.04	32.45	11.72	1.67	39.24	29.64	7.82	0.82
		75 / 61	29.55	28.44	9.81	1.24	24.58	24.21	6.12	0.54	17.35	17.09	3.46	0.20
		77 / 64	35.80	30.13	11.89	1.72	29.07	27.55	7.24	0.73	20.82	20.46	4.15	0.28
	1600	80 / 67	44.91	32.70	14.91	2.56	37.61	29.90	9.37	1.13	28.71	26.65	5.72	0.48
		86 / 71	59.05	39.06	19.61	4.11	51.86	36.37	12.92	1.98	43.74	33.46	8.72	0.99
		75 / 61	32.46	31.22	10.78	1.45	27.41	27.02	6.83	0.66	18.49	18.22	3.69	0.22
FWDP 14 4 Row	1200	77 / 64	38.95	33.27	12.93	1.99	32.10	30.60	8.00	0.86	24.15	23.73	4.81	0.35
		80 / 67	48.91	35.95	16.14	2.93	41.02	33.08	10.22	1.32	32.16	29.84	6.41	0.58
		86 / 71	63.80	42.86	21.18	4.71	56.13	40.02	13.98	2.27	47.74	37.04	9.51	1.15
	1400	75 / 61	33.07	30.08	10.98	1.88	28.67	28.22	7.14	0.88	23.66	23.31	4.71	0.43
		77 / 64	40.97	31.22	13.60	2.73	35.48	28.96	8.84	1.28	28.96	26.37	5.77	0.61
		80 / 67	50.83	34.78	16.88	3.97	45.20	31.84	11.26	1.95	38.47	29.20	7.67	1.00
	1600	86 / 71	65.56	40.62	21.77	6.18	60.00	39.15	14.94	3.19	53.83	36.82	10.73	1.79
		75 / 61	37.08	34.22	12.31	2.29	32.50	31.35	8.09	1.10	27.41	27.02	5.46	0.56
		77 / 64	45.61	35.29	15.14	3.29	39.77	32.90	9.91	1.57	33.12	30.28	6.60	0.77
1400	80 / 67	56.45	38.43	18.74	4.76	50.31	37.00	12.53	2.35	43.24	33.22	8.62	1.22	
	86 / 71	72.87	45.70	24.19	7.43	66.57	43.20	16.58	3.82	59.90	40.66	11.94	2.15	
	75 / 61	40.79	38.15	13.54	2.71	36.03	34.74	8.97	1.32	30.86	30.41	6.15	0.68	
1600	77 / 64	49.84	39.14	16.55	3.83	43.69	36.64	10.88	1.84	36.86	33.96	7.35	0.93	
	80 / 67	61.55	42.48	20.44	5.54	54.95	39.85	13.68	2.74	47.55	36.99	9.48	1.44	
	86 / 71	79.53	44.17	26.41	8.66	72.49	47.73	18.06	4.43	65.34	45.03	13.02	2.50	



# Performance Data (Cooling Coil) FWDP - IP UNIT

Model	Air Flow CFM	EAT DB / WB °F	Entering Water Temperature - 44°F											
			Water Temperature Rise											
			6°F				8°F				10°F			
			TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg
FWDP 18 3 Row	1600	75 / 61	40.05	37.34	13.30	3.02	35.24	34.04	8.78	1.46	29.75	29.39	5.93	0.74
		77 / 64	49.23	38.45	16.35	4.33	43.13	35.95	10.74	2.08	36.02	33.14	7.18	1.03
		80 / 67	61.06	41.89	20.28	6.30	54.53	39.25	13.58	3.12	47.06	36.35	9.38	1.63
	1800	86 / 71	78.75	49.75	26.15	9.81	72.15	47.13	17.97	5.07	65.02	44.42	12.96	2.85
		75 / 61	43.50	41.01	14.44	3.49	38.57	37.24	9.61	1.71	33.05	32.65	6.59	0.88
		77 / 64	53.14	42.02	17.64	4.94	46.79	39.45	11.65	2.39	39.60	36.61	7.89	1.21
	2000	80 / 67	65.82	45.66	21.85	7.17	58.85	42.88	14.66	3.56	51.13	39.89	10.19	1.88
		86 / 71	84.96	54.21	28.21	11.20	77.65	51.34	19.34	5.76	70.11	48.51	13.97	3.25
		75 / 61	46.71	44.50	15.51	3.95	41.66	40.18	10.38	1.95	36.09	35.65	7.19	1.03
FWDP 18 4 Row	1600	77 / 64	56.74	45.43	18.84	5.54	50.17	42.77	12.50	2.70	42.88	39.90	8.54	1.39
		80 / 67	70.20	49.26	23.31	8.03	62.79	46.30	15.64	3.98	54.84	43.26	10.93	2.12
		86 / 71	90.70	59.43	30.11	12.56	82.72	55.33	20.60	6.43	74.76	56.98	14.90	3.64
	1800	75 / 61	48.34	42.18	16.05	5.25	44.00	40.29	10.96	2.69	39.19	38.24	7.81	1.49
		77 / 64	59.69	43.99	19.82	7.58	54.43	41.75	13.56	3.89	48.43	39.36	9.65	2.15
		80 / 67	73.41	48.08	24.37	10.87	67.68	45.67	16.86	5.68	61.50	43.13	12.25	3.25
	2000	86 / 71	93.48	56.92	31.04	16.58	87.67	54.49	21.84	8.92	81.50	52.01	16.24	5.30
		75 / 61	52.70	46.50	17.50	6.10	48.15	44.52	11.99	3.15	43.18	42.43	8.61	1.76
		77 / 64	64.87	48.33	21.54	8.76	59.20	45.93	14.74	4.50	52.92	43.35	10.55	2.50
2000	80 / 67	79.80	52.73	26.49	12.57	73.43	50.07	18.29	6.55	66.83	47.39	13.32	3.75	
	86 / 71	101.70	62.41	33.78	19.23	95.18	59.72	23.70	10.29	88.34	56.98	17.60	6.09	
	75 / 61	56.80	50.67	18.86	6.95	52.04	48.62	12.96	3.60	46.92	45.39	9.35	2.03	
2000	77 / 64	69.73	52.49	23.15	9.93	63.63	49.93	15.85	5.10	57.10	47.26	11.38	2.86	
	80 / 67	85.77	57.17	28.48	14.26	78.77	54.29	19.62	7.40	71.76	51.47	14.30	4.25	
	86 / 71	109.50	67.66	36.34	21.86	102.20	64.68	25.45	11.65	94.67	67.71	18.87	6.87	

Model	Air Flow CFM	EAT DB / WB °F	Entering Water Temperature - 44°F											
			Water Temperature Rise											
			6°F				8°F				10°F			
			TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg
FWDP 24 3 Row	2200	75 / 61	55.73	51.29	18.50	6.72	50.74	49.17	12.64	3.45	45.32	43.70	9.03	1.91
		77 / 64	68.16	52.77	22.63	9.54	61.64	50.10	15.35	4.83	54.65	47.28	10.89	2.65
		80 / 67	84.21	57.43	27.96	13.81	76.55	54.32	19.06	7.04	68.97	51.34	13.74	3.96
	2400	86 / 71	107.90	67.95	35.83	21.32	99.95	64.80	24.89	11.21	91.97	61.65	18.29	6.51
		75 / 61	59.05	54.86	19.61	7.43	53.92	52.70	13.43	3.83	48.40	46.66	9.65	2.14
		77 / 64	72.00	56.30	23.91	10.50	65.14	53.48	16.22	5.31	58.00	50.62	11.56	2.93
	2600	80 / 67	88.93	61.14	29.53	15.19	80.73	57.83	20.11	7.72	72.84	54.76	14.51	4.35
		86 / 71	114.00	72.34	37.86	23.48	105.40	68.95	26.26	12.31	96.70	65.62	19.27	7.13
		75 / 61	62.21	58.31	20.66	8.14	56.93	56.08	14.18	4.21	51.32	49.45	10.23	2.37
FWDP 24 4 Row	2200	77 / 64	75.63	59.66	25.11	11.44	68.44	56.73	17.04	5.79	61.14	53.82	12.19	3.21
		80 / 67	93.37	64.71	31.00	16.54	84.67	61.24	21.09	8.39	76.45	58.02	15.23	4.74
		86 / 71	119.80	76.53	39.77	25.60	110.60	72.95	27.55	13.38	101.30	69.42	20.19	7.73
	2400	75 / 61	66.66	57.88	22.13	11.49	61.88	55.78	15.41	6.09	56.85	53.70	11.33	3.55
		77 / 64	82.12	60.34	27.27	16.54	75.91	57.66	18.91	8.68	69.56	55.04	13.86	5.04
		80 / 67	100.70	65.88	33.45	23.66	93.63	62.87	23.32	12.52	86.63	59.98	17.26	7.38
	2600	86 / 71	127.80	77.76	42.43	35.90	120.70	74.80	30.05	19.51	113.00	71.70	22.52	11.72
		75 / 61	70.95	62.13	23.56	12.81	65.89	55.94	16.41	6.79	60.69	57.73	12.09	3.98
		77 / 64	87.25	64.60	28.97	18.39	80.55	61.76	20.06	9.63	73.89	61.61	14.72	5.59
2600	80 / 67	107.10	70.46	35.55	26.32	99.33	67.30	24.74	13.88	91.80	64.13	18.29	8.16	
	86 / 71	135.90	83.17	45.12	40.00	128.10	79.94	31.90	21.66	119.80	76.60	23.87	12.97	
	75 / 61	75.05	66.26	24.92	14.12	69.71	63.85	17.36	7.49	64.36	61.69	12.82	4.40	
FWDP 24 6 Row	2200	77 / 64	92.13	68.74	30.59	20.22	84.96	65.73	21.16	10.57	77.98	62.82	15.54	6.14
		80 / 67	113.10	74.89	37.54	28.96	104.70	71.42	26.09	15.23	96.68	68.15	19.27	8.93
		86 / 71	143.60	88.38	47.68	44.08	135.20	84.91	33.66	23.79	126.20	81.35	25.15	14.21
	2400	75 / 61	78.67	64.54	26.12	11.15	73.69	62.30	18.35	6.00	68.05	59.79	13.56	3.53
		77 / 64	97.19	68.05	32.27	16.12	91.37	65.76	22.76	8.72	84.75	62.63	16.89	5.17
		80 / 67	118.30	74.59	39.28	22.73	112.00	72.13	27.90	12.44	105.40	68.80	21.00	7.55
	2600	86 / 71	148.90	87.98	49.43	33.99	142.70	85.64	35.54	18.98	135.80	82.34	27.07	11.74
		75 / 61	84.33	69.65	28.00	12.58	79.01	67.26	19.68	6.78	73.12	64.94	14.57	4.00
		77 / 64	104.10	73.42	34.56	18.17	97.71	70.69	24.33	9.80	90.69	67.79	18.07	5.81
2600	80 / 67	126.80	80.42	42.10	25.66	119.80	77.46	29.84	13.99	112.60	74.38	22.43	8.47	
	86 / 71	159.70	94.92	53.02	38.45	152.80	92.02	38.05	21.39	145.20	88.85	28.93	13.19	
	75 / 61	89.78	74.64	29.81	14.03	84.12	72.13	20.95	7.56	78.00	69.45	15.54	4.48	
2600	77 / 64	110.80	78.63	36.78	20.25	103.80	75.66	25.85	10.89	96.37	72.37	19.20	6.46	
	80 / 67	135.00	86.08	44.81	28.63	127.30	82.83	31.71	15.55	119.40	79.34	23.80	9.39	
	86 / 71	170.10	101.48	56.49	42.97	162.50	98.40	40.47	23.83	154.20	94.77	30.72	14.64	



# Performance Data (Cooling Coil) FWDP - IP UNIT

Model	Air Flow CFM	EAT DB / WB °F	Entering Water Temperature - 44°F											
			Water Temperature Rise											
			6°F				8°F				10°F			
			TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg
FWDP 28 3 Row	2600	75 / 61	71.07	63.35	23.60	13.71	65.86	61.10	16.40	7.24	60.50	58.84	12.06	4.21
		77 / 64	87.41	65.70	29.02	19.69	80.34	62.71	20.01	10.23	73.42	59.86	14.63	5.90
		80 / 67	107.60	71.62	35.74	28.34	99.38	68.21	24.75	14.82	91.40	64.99	18.21	8.64
	86 / 71	136.90	84.54	45.44	43.22	128.60	81.19	32.03	23.27	119.90	77.72	23.89	13.86	
	2800	75 / 61	74.79	67.17	24.82	14.98	69.33	64.80	17.27	7.91	63.85	62.49	12.72	4.63
		77 / 64	91.81	69.48	30.48	21.44	84.31	66.44	21.00	11.12	77.13	63.40	15.37	6.43
		80 / 67	113.10	75.70	37.54	30.89	104.20	72.06	25.96	16.11	95.79	68.65	19.09	9.37
	86 / 71	143.80	89.31	47.75	47.15	135.00	85.73	33.62	25.33	125.70	82.05	25.04	15.05	
	3000	75 / 61	78.35	70.86	26.02	16.25	72.65	68.42	18.10	8.58	67.05	66.04	13.36	5.04
77 / 64		95.99	73.17	31.87	23.18	88.10	69.88	21.94	12.02	80.64	66.82	16.07	6.94	
80 / 67		118.20	79.61	39.25	33.40	108.80	75.77	27.11	17.38	99.96	72.22	19.92	10.09	
86 / 71	150.40	93.90	49.95	51.04	141.00	90.13	35.13	27.35	131.10	86.25	26.13	16.21		
FWDP 28 4 Row	2600	75 / 61	83.66	70.86	27.78	22.81	78.48	68.58	19.55	12.29	73.38	66.35	14.62	7.38
		77 / 64	103.30	74.27	34.28	32.97	96.60	71.37	24.06	17.65	89.92	68.52	17.92	10.51
		80 / 67	126.20	81.18	41.91	46.90	118.80	78.00	29.60	25.36	111.20	74.78	22.16	15.22
	86 / 71	159.20	95.63	52.85	70.53	151.90	92.55	37.84	39.00	144.00	89.25	28.70	23.92	
	2800	75 / 61	88.40	75.37	29.35	25.11	82.88	72.94	20.64	13.51	77.55	70.63	15.45	8.13
		77 / 64	109.10	78.83	36.19	36.24	101.80	75.73	25.36	19.36	94.72	72.72	18.87	11.50
		80 / 67	133.30	86.12	44.25	51.60	125.30	82.69	31.12	27.81	117.10	79.26	23.34	16.66
	86 / 71	168.20	101.34	55.84	77.70	160.30	98.09	39.92	42.85	151.80	94.57	30.24	26.21	
	3000	75 / 61	92.96	79.74	30.86	27.42	87.12	77.20	21.17	14.74	81.56	74.80	16.25	8.87
77 / 64		114.50	83.29	38.01	39.51	106.90	80.00	26.62	21.06	99.32	76.81	19.79	12.49	
80 / 67		140.00	90.91	46.50	56.30	131.40	87.23	32.74	30.25	122.90	83.62	24.46	18.08	
86 / 71	176.80	107.09	58.70	84.87	168.30	103.50	41.92	46.69	159.20	99.73	31.72	28.48		
FWDP 28 6 Row	2600	75 / 61	97.22	78.31	32.38	21.52	92.25	76.05	22.97	11.84	86.79	73.60	17.29	7.18
		77 / 64	120.00	83.02	39.84	31.10	114.10	80.41	28.43	17.16	107.70	77.52	21.47	10.47
		80 / 67	145.60	90.91	48.33	43.63	139.30	88.22	34.69	24.30	132.60	85.20	26.42	15.03
	86 / 71	182.20	107.00	60.51	64.72	176.30	104.45	43.91	36.39	169.50	101.50	33.78	23.08	
	2800	75 / 61	103.30	83.66	34.31	23.94	97.96	81.20	24.40	13.15	92.24	78.65	18.38	8.00
		77 / 64	127.50	88.37	42.34	34.59	121.10	85.79	30.16	19.03	114.20	82.60	22.76	11.59
		80 / 67	154.80	97.12	51.39	48.58	147.90	94.11	36.83	26.97	140.50	90.82	28.01	16.64
	86 / 71	193.90	113.95	64.38	72.19	187.30	111.40	46.65	40.81	179.90	108.17	35.48	25.60	
	3000	75 / 61	109.30	88.89	36.29	26.41	103.50	86.29	25.78	14.47	97.51	83.58	19.43	8.81
77 / 64		134.80	93.91	44.76	38.14	127.90	91.08	31.84	20.92	120.40	87.42	24.00	12.70	
80 / 67		163.80	102.00	54.36	53.62	156.20	99.87	38.89	29.67	148.20	95.95	29.54	18.28	
86 / 71	205.30	103.80	68.15	79.79	198.00	98.20	49.32	44.98	189.90	114.18	37.84	28.14		

Model	Air Flow CFM	EAT DB / WB °F	Entering Water Temperature - 44°F											
			Water Temperature Rise											
			6°F				8°F				10°F			
			TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg	TC Mbh	SC Mbh	WFR gpm	WPD ft. wg
FWDP 32 3 Row	3000	75 / 61	81.14	72.45	26.94	18.72	75.42	69.98	18.78	9.93	69.86	67.63	13.92	5.87
		77 / 64	99.67	75.06	33.09	26.83	91.80	71.74	22.87	13.99	84.36	68.68	16.81	8.14
		80 / 67	122.60	81.76	40.71	38.31	113.50	77.99	28.26	20.26	104.60	74.37	20.84	11.84
	86 / 71	155.70	96.41	51.71	58.78	146.60	92.70	36.51	31.72	136.90	88.86	27.29	18.96	
	3200	75 / 61	84.76	76.17	28.14	20.21	78.78	73.60	19.62	10.71	73.09	71.21	14.56	6.35
		77 / 64	103.90	78.77	34.51	28.88	95.70	75.30	23.83	15.03	87.93	72.11	17.52	8.75
		80 / 67	127.90	85.72	42.46	41.56	118.20	81.73	29.44	21.75	108.90	77.98	21.69	12.69
	86 / 71	162.50	101.07	53.95	63.34	152.80	97.14	38.05	34.11	142.60	93.12	28.41	20.34	
	3400	75 / 61	88.25	79.82	29.30	21.68	82.03	77.13	20.43	11.49	76.18	74.70	15.18	6.82
77 / 64		108.00	82.37	35.87	30.90	99.42	78.76	24.76	16.07	91.33	75.47	18.20	9.35	
80 / 67		132.90	89.56	44.13	44.48	122.70	85.40	30.56	23.23	113.00	81.49	22.51	13.54	
86 / 71	169.00	105.58	56.10	67.85	158.70	101.44	39.53	36.46	148.00	97.20	29.48	21.70		
FWDP 32 4 Row	3000	75 / 61	95.62	81.18	31.75	31.22	89.94	78.64	22.38	16.86	84.30	76.23	16.80	10.18
		77 / 64	117.90	85.02	39.15	45.08	110.40	81.76	27.51	24.17	103.00	78.57	20.52	14.42
		80 / 67	144.10	92.83	47.82	64.12	135.80	89.28	33.82	34.71	127.20	85.67	25.35	20.86
	86 / 71	181.60	109.30	60.28	96.38	173.40	105.85	43.19	53.33	164.60	102.17	32.80	32.74	
	3200	75 / 61	100.30	85.62	33.29	33.92	94.16	82.94	23.45	18.29	88.35	80.41	17.61	11.05
		77 / 64	123.50	89.50	41.01	48.91	115.60	86.07	28.78	26.70	107.70	82.73	21.46	15.59
		80 / 67	150.90	97.70	50.12	69.60	142.10	93.88	35.38	37.58	133.00	90.09	26.50	22.54
	86 / 71	190.30	114.99	63.19	104.70	181.60	111.31	45.23	57.82	172.20	107.42	34.40	35.42	
	3400	75 / 61	104.60	89.97	34.78	36.63	98.33	87.13	24.49	19.73	92.26	84.51	18.38	11.91
77 / 64		128.90	93.88	42.80	52.72	120.50	90.27	30.01	28.16	112.20	86.76	22.36	16.75	
80 / 67		157.60	102.40	52.32	75.08	148.10	98.38	36.89	40.43	138.50	94.40	27.61	24.21	
86 / 71	198.80	120.52	66.00	113.10	189.40	116.60	47.18	62.29	179.40	112.47	35.75	38.08		
FWDP 32 6 Row	3000	75 / 61	111.50	89.84	37.03	29.64	105.90	87.53	26.39	16.33	100.10	85.15	19.95	10.00
		77 / 64	137.60	95.15	45.68	42.81	130.90	92.45	32.61	23.63	123.80	89.55	24.60	14.46
		80 / 67	166.90	104.23	55.40	60.08	159.80	101.10	39.79	33.47	152.20	98.31	30.32	20.71
	86 / 71	208.80	122.62	69.34	89.15	202.10	119.90	50.34	50.52	194.50	106.96	38.75	31.79	
	3200	75 / 61	117.60	95.17	39.03	32.50	111.60	92.70	27.79	17.87	105.40	90.17	21.01	10.93
		77 / 64	145.00	100.69	48.14	46.94	127.80	97.77	34.32	25.84	130.10	94.68	25.93	15.77
		80 / 67	175.90	110.27	58.14	65.93	168.20	107.22	41.89	36.62	160.00	103.89	31.88	22.61
	86 / 71	220.30	129.70	73.15	97.76	213.00	126.80	53.04	55.38	204.62	123.57	40.78	34.76	
	3400	75 / 61	123.40	100.48	40.98	35.40	117.10	97.79	29.15	19.43	110.60	95.13	22.04	11.88
77 / 64		152.20	106.10	50.53	51.11	144.50	103.79	35.98	28.06	136.30	99.74	27.16	17.09	
80 / 67		184.70	116.20	61.34	71.85	176.10	112.88	43.94	39.81	167.60	109.33	33.40	24.52	
86 / 71	231.50	136.67	76.87	106.90	223.50	133.53	55.67	60.29	214.50	130.03	42.75	37.76		

# Fan Performance Data

FWDP 008 (KDD 8/8 180 W)									
		3 Row				4 Row			
220V	m3/hr	1020	1189	1359	1529	1020	1189	1359	1529
	cfm	600	700	800	900	600	700	800	900
	ESP (Pa)	139	114	79		122	97	62	
	TSP (Pa)	205	180	145		205	180	145	
240V	ESP (Pa)	159	139	109	64	142	122	92	47
	TSP (Pa)	225	205	175	130	225	205	175	130

FWDP 014 (KDD 9/9 550 W)										FWDP 018 (KDD 9/9 550 W)						
3 Row	Low Speed	m3/hr	1699	1869	2039	2209	2379	2549	2719	2719	2889	3059	3228			
		cfm	1000	1100	1200	1300	1400	1500	1600	1600	1700	1800	1900			
		ESP (Pa)	217	202	182	167	147	117	67	79						
	Medium Speed	TSP (Pa)	350	335	315	300	280	250	200	200						
		ESP (Pa)	201	186	171	161	156	146	121	131	91	46				
		TSP (Pa)	360	345	330	320	315	305	280	280	240	195				
Hi-Speed	ESP (Pa)	206	191	181	166	161	156	146	139	114	89	44				
	TSP (Pa)	380	365	355	340	335	330	320	320	295	270	225				
4 Row	Low Speed	ESP (Pa)	167	152	132	117	97	67	17	51						
		TSP (Pa)	350	335	315	300	280	250	200	200						
	Medium Speed	ESP (Pa)	149	134	119	109	104	94	69	97	57	12				
		TSP (Pa)	360	345	330	320	315	305	280	280	240	195				
	Hi-Speed	ESP (Pa)	158	143	133	118	113	108	98	99	74	49	4			
		TSP (Pa)	380	365	355	340	335	330	320	320	295	270	225			

FWDP 024 (KD2 9/7 750 W)										FWDP 028 (KD2 9/9 1550 W)						
3 Row	Low Speed	m3/hr	3398	3568	3738	3908	4078	4248	4418	4078	4248	4418	4588	4758	4928	5098
		cfm	2000	2100	2200	2300	2400	2500	2600	2400	2500	2600	2700	2800	2900	3000
		ESP (Pa)	155	155	150	115				170	165	160	145	125	85	
	Medium Speed	TSP (Pa)	300	300	295	260				295	290	285	270	250	210	
		ESP (Pa)	182	182	182	177	157	102	32	195	190	185	175	175	170	165
		TSP (Pa)	350	350	350	345	325	270	200	360	355	350	340	340	335	330
Hi-Speed	ESP (Pa)	187	182	177	177	177	177	172	228	223	218	213	208	208	203	
	TSP (Pa)	380	375	370	370	370	370	365	410	405	400	395	390	390	385	
4 Row	Low Speed	ESP (Pa)	123	123	118	83				145	140	135	120	100	60	
		TSP (Pa)	300	300	295	260				295	290	285	270	250	210	
	Medium Speed	ESP (Pa)	137	137	137	132	112	57		188	183	178	168	168	163	158
		TSP (Pa)	350	350	350	345	325	270		360	355	350	340	340	335	330
	Hi-Speed	ESP (Pa)	145	140	135	135	135	135	130	218	213	208	203	198	198	193
		TSP (Pa)	380	375	370	370	370	370	365	410	405	400	395	390	390	385
6 Row	Low Speed	ESP (Pa)	73	73	68	33				97	92	87	72	52	12	
		TSP (Pa)	300	300	295	260				295	290	285	270	250	210	
	Medium Speed	ESP (Pa)	87	87	87	82	62	7		134	129	124	114	114	109	104
		TSP (Pa)	350	350	350	345	325	370		360	355	350	340	340	335	330
	Hi-Speed	ESP (Pa)	76	71	66	66	66	66	61	155	150	145	140	135	135	130
		TSP (Pa)	380	375	370	370	370	370	365	410	405	400	395	390	390	385



# Fan Performance Data

FWDP 032 (KD2 9/9 1550 W)									
3 Row	Low Speed	m3/hr	5098	5268	5437	5607	5777	5947	6117
		cfm	3000	3100	3200	3300	3400	3500	3600
3 Row	Low Speed	ESP (Pa)							
		TSP (Pa)							
	Medium Speed	ESP (Pa)	168	163	143	118	78		
		TSP (Pa)	330	325	305	280	240		
	Hi-Speed	ESP (Pa)	171	166	166	161	151	136	121
		TSP (Pa)	385	380	380	375	365	350	335
4 Row	Low Speed	ESP (Pa)							
		TSP (Pa)							
	Medium Speed	ESP (Pa)	137	132	112	87	47		
		TSP (Pa)	330	325	305	280	240		
	Hi-Speed	ESP (Pa)	127	122	122	117	107	92	77
		TSP (Pa)	385	380	380	375	365	350	335
6 Row	Low Speed	ESP (Pa)							
		TSP (Pa)							
	Medium Speed	ESP (Pa)	80	75	55	30			
		TSP (Pa)	330	325	305	280			
	Hi-Speed	ESP (Pa)	107	102	102	97	87	72	57
		TSP (Pa)	385	380	380	375	365	350	335



# Sound Level At Fan Inlet

MODEL	Nominal Airflow		Speed	Sound	Overall Value	Octave Band (Hz)							
	CFM	CMH				63	125	250	500	1000	2000	4000	8000
FWDP 008	800	1359	-	Lp(A)*, dBA	69	54	60	63	62	62	58	56	51
				Lw(lin), dB	89	87	83	79	72	69	64	62	59
				Lw(A), dBA	76	61	67	70	69	69	65	63	58
FWDP 014	1400	2379	High	Lp(A), dBA	69	63	59	62	62	62	58	56	51
				Lw(lin), dB	96	96	82	78	72	69	64	62	59
				Lw(A), dBA	76	70	66	69	69	69	65	63	58
			Medium	Lp(A)*, dBA	66	51	57	60	60	60	56	54	49
				Lw(lin), dBA	86	84	80	76	70	67	62	60	57
				Lw(A), dBA	73	58	64	67	67	67	63	61	56
			Low	Lp(A)*, dBA	65	50	56	59	59	59	55	53	48
				Lw(lin), dB	85	83	79	75	69	66	61	59	56
				Lw(A), dBA	72	57	63	66	66	66	62	60	55
FWDP 018	1800	3059	High	Lp(A), dBA	69	63	59	62	62	62	58	56	51
				Lw(lin), dB	96	96	82	78	72	69	64	62	59
				Lw(A), dBA	76	70	66	69	69	69	65	63	58
			Medium	Lp(A)*, dBA	66	51	57	60	60	60	56	54	49
				Lw(lin), dBA	86	84	80	76	70	67	62	60	57
				Lw(A), dBA	73	58	64	67	67	67	63	61	56
			Low	Lp(A)*, dBA	65	50	56	59	59	59	55	53	48
				Lw(lin), dB	85	83	79	75	69	66	61	59	56
				Lw(A), dBA	72	57	63	66	66	66	62	60	55
FWDP 024	2400	4078	High	Lp(A)*, dBA	68	53	59	62	62	62	58	56	51
				Lw(lin), dB	88	86	82	78	72	69	64	62	59
				Lw(A), dBA	75	60	66	69	69	69	65	63	58
			Medium	Lp(A)*, dBA	67	52	58	61	60	60	56	56	47
				Lw(lin), dB	87	85	81	77	70	67	62	62	55
				Lw(A), dBA	74	59	65	68	67	67	63	63	54
			Low	Lp(A)*, dBA	66	51	57	60	60	60	56	54	49
				Lw(lin), dB	86	84	80	76	70	67	62	60	57
				Lw(A), dBA	73	58	64	67	67	67	63	61	56
FWDP 028	2800	4758	High	Lp(A)*, dBA	61	47	52	55	55	55	51	49	44
				Lw(lin), dB	81	80	75	71	65	62	57	55	52
				Lw(A), dBA	68	54	59	62	62	62	58	56	51
			Medium	Lp(A)*, dBA	59	44	50	53	53	53	49	47	42
				Lw(lin), dB	79	77	73	69	63	60	55	53	50
				Lw(A), dBA	66	51	57	60	60	60	56	54	49
			Low	Lp(A)*, dBA	57	42	48	51	50	50	46	44	39
				Lw(lin), dB	77	75	71	67	60	57	52	50	47
				Lw(A), dBA	64	49	55	58	57	57	53	51	46
FWDP 032	3200	5437	High	Lp(A)*, dBA	61	46	52	55	55	55	51	49	44
				Lw(lin), dB	81	79	75	71	65	62	57	55	52
				Lw(A), dBA	68	53	59	62	62	62	58	56	51
			Medium	Lp(A)*, dBA	59	44	50	53	52	52	48	48	41
				Lw(lin), dB	79	77	73	69	62	59	54	54	49
				Lw(A), dBA	66	51	57	60	59	59	55	55	48
			Low	Lp(A)*, dBA	57	42	48	51	51	51	47	45	40
				Lw(lin), dB	77	75	71	67	61	58	53	51	48
				Lw(A), dBA	64	49	55	58	58	58	54	52	47

Lp(A) = Sound Pressure Level at 1m room condition.  
 Lw(lin) = Sound Power - Inlet  
 Lw(A) = Sound Power Loud A - Weighted



# Sound Level At Fan Discharge

MODEL	Nominal Airflow		Speed	Sound	Overall Value	Octave Band (Hz)							
	CFM	CMH				63	125	250	500	1000	2000	4000	8000
FWDP 008	800	1359	-	Lp(A)*, dBA	71	65	65	65	62	62	58	56	51
				Lw(lin), dB	98	98	88	81	72	69	64	62	59
				Lw(A), dBA	78	72	72	72	69	69	65	63	58
FWDP 014	1400	2379	High	Lp(A), dBA	75	74	64	64	62	62	58	56	51
				Lw(lin), dB	107	107	87	80	72	69	64	62	59
				Lw(A), dBA	82	81	71	71	69	69	65	63	58
			Medium	Lp(A)*, dBA	69	62	62	62	60	60	56	54	49
				Lw(lin), dBA	95	95	85	78	70	67	62	60	57
				Lw(A), dBA	76	69	69	69	67	67	63	61	56
			Low	Lp(A)*, dBA	68	61	61	61	59	59	55	53	48
				Lw(lin), dB	94	94	84	77	69	66	61	59	56
				Lw(A), dBA	75	68	68	68	66	66	62	60	55
FWDP 018	1800	3059	High	Lp(A), dBA	75	74	64	64	62	62	58	56	51
				Lw(lin), dB	107	107	87	80	72	69	64	62	59
				Lw(A), dBA	82	81	71	71	69	69	65	63	58
			Medium	Lp(A)*, dBA	69	62	62	62	60	60	56	54	49
				Lw(lin), dBA	95	95	85	78	70	67	62	60	57
				Lw(A), dBA	76	69	69	69	67	67	63	61	56
			Low	Lp(A)*, dBA	68	61	61	61	59	59	55	53	48
				Lw(lin), dB	94	94	84	77	69	66	61	59	56
				Lw(A), dBA	75	68	68	68	66	66	62	60	55
FWDP 024	2400	4078	High	Lp(A)*, dBA	71	64	64	64	62	62	58	56	51
				Lw(lin), dB	97	97	87	80	72	69	64	62	59
				Lw(A), dBA	78	71	71	71	69	69	65	63	58
			Medium	Lp(A)*, dBA	69	63	63	63	60	60	56	56	47
				Lw(lin), dB	96	96	86	79	70	67	62	62	55
				Lw(A), dBA	76	70	70	70	67	67	63	63	54
			Low	Lp(A)*, dBA	69	62	62	62	60	60	56	54	49
				Lw(lin), dB	95	95	85	78	70	67	62	60	57
				Lw(A), dBA	76	69	69	69	67	67	63	61	56
FWDP 028	2800	4758	High	Lp(A)*, dBA	64	58	57	57	55	55	51	49	44
				Lw(lin), dB	91	91	80	73	65	62	57	55	52
				Lw(A), dBA	71	65	64	64	62	62	58	56	51
			Medium	Lp(A)*, dBA	62	55	55	55	53	53	49	47	42
				Lw(lin), dB	88	88	78	71	63	60	55	53	50
				Lw(A), dBA	69	62	62	62	60	60	56	54	49
			Low	Lp(A)*, dBA	59	53	53	53	50	50	46	44	39
				Lw(lin), dB	86	86	76	69	60	57	52	50	47
				Lw(A), dBA	66	60	60	60	57	57	53	51	46
FWDP 032	3200	5437	High	Lp(A)*, dBA	64	57	57	57	55	55	51	49	44
				Lw(lin), dB	90	90	80	73	65	62	57	55	52
				Lw(A), dBA	71	64	64	64	62	62	58	56	51
			Medium	Lp(A)*, dBA	61	55	55	55	52	52	48	48	41
				Lw(lin), dB	88	88	78	71	62	59	54	54	49
				Lw(A), dBA	68	62	62	62	59	59	55	55	48
			Low	Lp(A)*, dBA	60	53	53	53	51	51	47	45	40
				Lw(lin), dB	86	86	76	69	61	58	53	51	48
				Lw(A), dBA	67	60	60	60	58	58	54	52	47

Lp(A) = Sound Pressure Level at 1m room condition.  
Lw(lin) = Sound Power - Inlet  
Lw(A) = Sound Power Loud A - Weighted



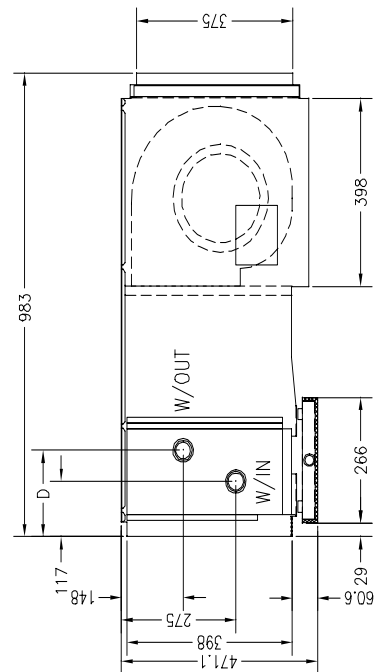
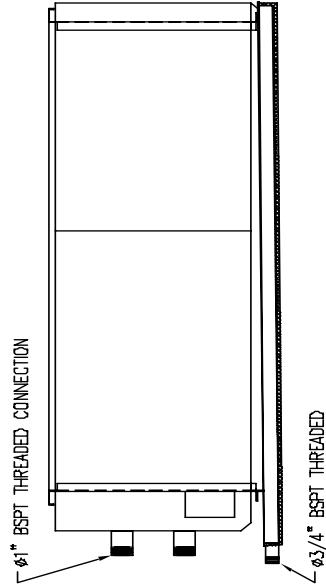
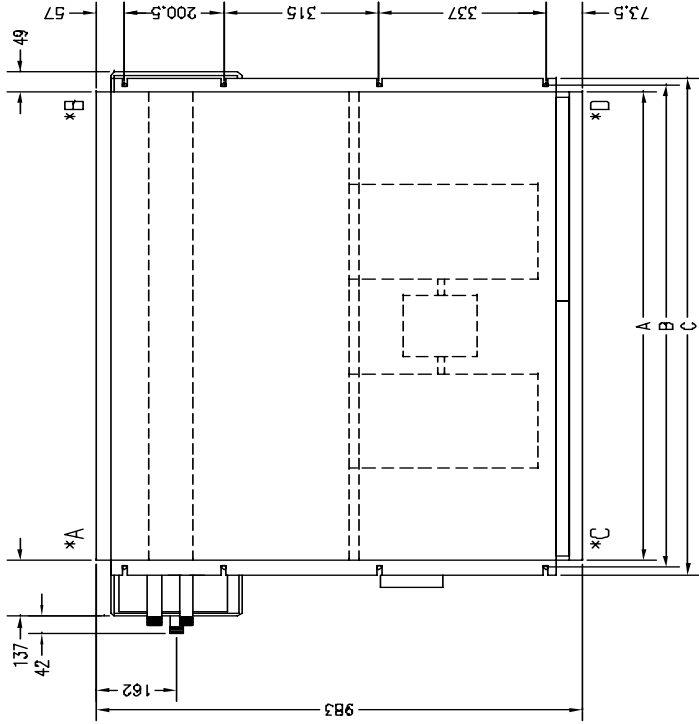
# Submittal Drawing FWDP 008 - 032

NOTES :-  
 KDD FAN FOR FWDP 08/14/18  
 KDD FAN FOR FWDP 24/28/32

MODEL	D					
	A	B	C	3 ROWS	4 ROWS	6 ROWS
08/14	635	669.5	703.5			
18	914.5	949	983			
24	1143	1182.5	1211.5	161	183	
28	1524	1558.5	1592.5			
32	1651	1685.5	1719.5			227

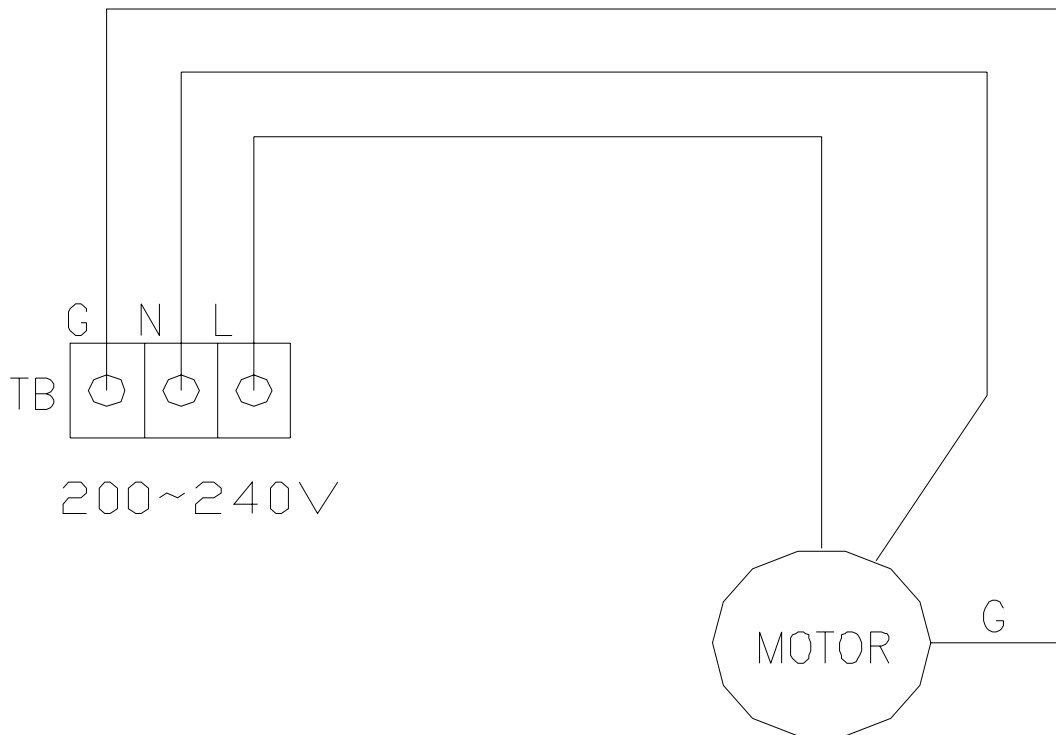
LOAD POINT MODEL/ROWS	*A			*B			*C			*D		
08	3	4	6	3	4	6	3	4	6	3	4	6
14		10	21		8	10		8	10		20	21
18		31			5			7			30	
24		27			26			15			13	
28		33			25			24			23	
32		34			30			26			25	

ALL'S WEIGHT ± 2 KG.



# Wiring Diagram

## FWDP 008



### ⚠ WARNING

HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.  
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

### IMPORTANT

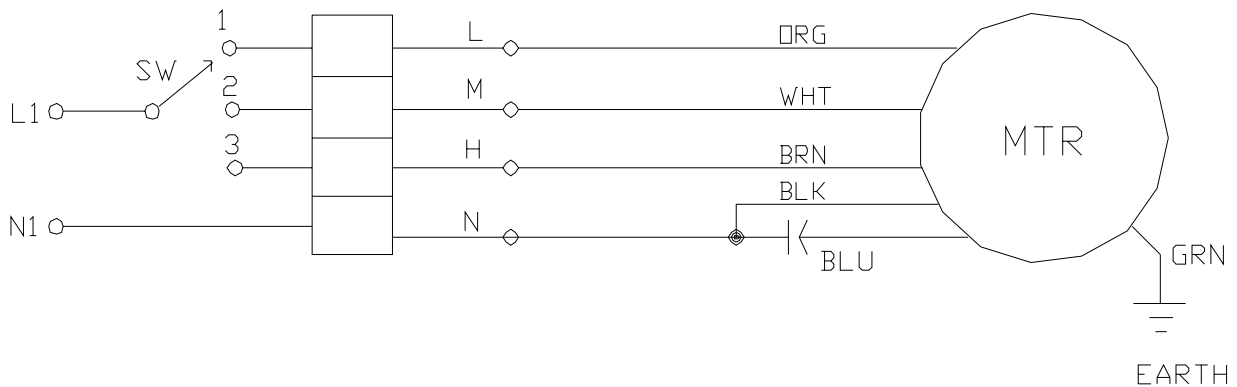
USE COPPER CONDUCTORS ONLY TO PREVENT EQUIPMENT DAMAGE. UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT ANY OTHER WIRING.

DEVICE DESIGNATION	DESCRIPTION LEGEND
TB	TERMINAL BLOCK

- NOTES: 1 DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINE INDICATES FACTORY WIRING.

# Wiring Diagram FWDP 014 - 032

240 VAC 50Hz



LEGEND	
DEVICE DESIGNATION	DESCRIPTION
K	CAPACITOR
MTR	MOTOR
N1	NEUTRAL
L1	LIVE
—	FIELD WIRING
SW	SWITCH (FIELD SUPPLY)
L	LOW SPEED
M	MED. SPEED
H	HIGH SPEED

APPLICATION	TERMINALS
DUCTED	1 & 2 & 3
NON-DUCTED	1 & 2

## NOTES:

1. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS.
2. MOTOR SPEED SELECTION BASED ON APPLICATIONS.

## WARNING

HAZARDOUS VOLTAGE!  
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.  
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

## IMPORTANT

USE COPPER CONDUCTORS ONLY TO PREVENT EQUIPMENT DAMAGE. UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT ANY OTHER WIRING.



**Trane**

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*For more information, contact your local district office*

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Literature Order Number      FWDP-PRC001-EN(December 2010)

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File Number

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Supersedes                      FWDP-PRC001-EN(March 2010)

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Stocking Location              Malaysia

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Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.