

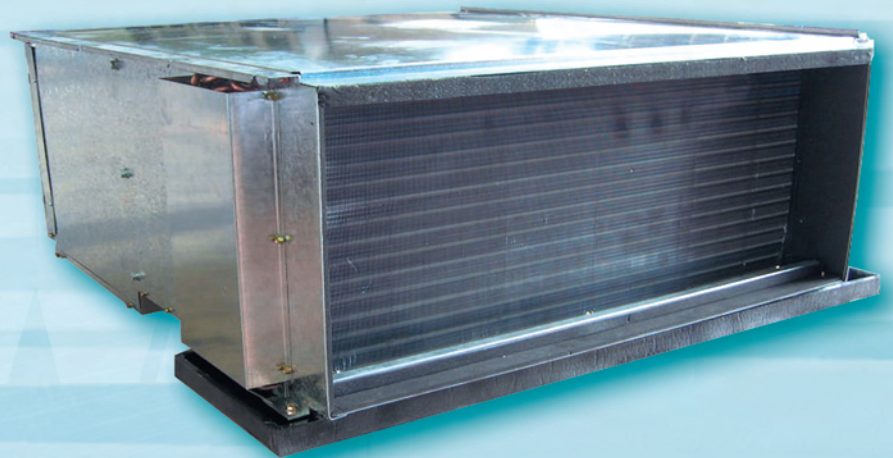


**TRANE®**

# **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**



# FWDP Blower Coil Units

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.

## Trane Innovative Wavy 3BS Slit Fin Coil

Trane Wavy 3BS Coil technology is proven and tested to operate up to 650 FPM without moisture carry-over. This coil design also provides superior heat transfer efficiency with its increased heat transfer surface.

## 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.

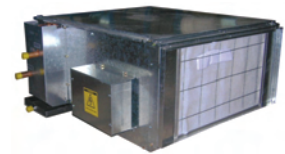
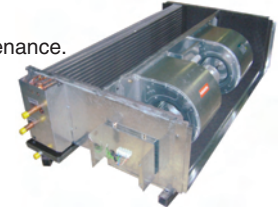
## Easy of Installation

Suspension plates are provided as standard with Clip-on & Quick slide-in installation method.

This will make your unit installation faster and easier.

## Easy of Servicing

A large bottom removable panel is provided for easy access for fan & motor.



## General Specification

Model		FWDP 008	FWDP 014	FWDP 018	FWDP 024	FWDP 028	FWDP 032	
Nom. Airflow	CFM	800	1400	1800	2400	2800	3200	
	CMH	1359	2379	3059	4078	4758	5437	
<b>Cooling Coil</b>								
Coil Face Area	Sq. ft. (m <sup>2</sup> )	2.78 (0.26)	2.78 (0.26)	3.98 (0.37)	5.00 (0.46)	6.67 (0.62)	7.22 (0.67)	
Chilled Water Coil 3 Row	Row/FPI	3 / 12						
	Total Cooling Capacity	MBH (kW)	16.82 (4.93)	28.71 (8.41)	51.13 (14.98)	72.84 (21.34)	95.79 (28.07)	108.9 (31.91)
	Water Flow Rate	GPM (L/S)	3.35 (0.21)	5.72 (0.36)	10.19 (0.64)	14.51 (0.92)	19.09 (1.20)	21.69 (1.37)
	Water Pressure Drop	ft. wg (kPa)	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 Cooling Capacity	MBH (kW)	26.82 (7.86)	43.24 (12.67)	66.83 (19.58)	91.80 (26.90)	117.1 (34.31)	133.0 (38.97)
	Water Flow Rate	GPM (L/S)	5.34 (0.34)	8.62 (0.54)	13.32 (0.84)	18.29 (1.15)	23.34 (1.47)	26.50 (1.67)
	Water Pressure Drop	ft. wg (kPa)	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 Cooling Capacity	MBH (kW)			112.6 (32.99)	140.5 (41.17)	160.0 (46.88)	
	Water Flow Rate	GPM (L/S)			22.43 (1.42)	28.01 (1.77)	31.88 (2.01)	
	Water Pressure Drop	ft. wg (kPa)			8.47 (25.29)	16.64 (49.72)	22.61 (67.56)	
Header Material	Aluminium							
Header Material	Copper With Threaded Steel Connector (External)							
Tube Size (OD)	in (mm)	3/8" (9.525)						
Header Diameter (OD)	in (mm)	1" BSPT Threaded Connection						
Drain Connection Size	in (mm)	3/4" (19.05) BSPT Steel						
<b>Fan</b>		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	KD2 9/9	
No. of Fans		1	1	1	2	2	2	
Fan Rated Speed-Low/Med/Hi	RPM	1300	1050/1150/1300	1050/1150/1300	1250/1300/1350	1235/1345/1410	1235/1345/1410	
Avail. ESP at Nom. Airflow for 3R / 4R / 6R Coil	High Pa	109 / 92	161 / 113	89 / 49	177 / 135 / 66	208 / 198 / 135	166 / 122 / 102	
	Medium Pa	-	156 / 104	46 / 12	157 / 112 / 62	175 / 168 / 114	143 / 112 / 55	
	Low Pa	-	147 / 97	-	-	125 / 100 / 52	-	
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	Amp (A)	1.30	4.5 / 5.3 / 5.6	4.5 / 5.3 / 5.6	4.4 / 5.5 / 5.8	4.7 / 6.5 / 9.0	4.7 / 6.5 / 9.0	
LRA <sup>(2)</sup> - Lo / Med / Hi	Amp (A)	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	
Filter - Type	1" Washable filters							
Quantity - Size	in	1 - 16" x 25"	1 - 16" x 25"	1 - 15" x 20"	1 - 16" x 20"	3 - 16" x 20"	2 - 16" x 20"	
				1 - 15" x 15"	1 - 16" x 25"		1 - 16" x 25"	
Approx. Operating Weight	kg	54	58	72	82	114	120	
Unit Dimensions: H x W x L	mm	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	

### Notes:

- 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).
- Motor current rated as per 240V/1Ph/50Hz.
- Basic unit includes direct-drive fan motor, cooling coil and 1" washable filters.
- Please refer to the product catalog for more details on unit dimension.



Literature Order Number FWDP-SLB001-EN

Date May 2010

Supersedes FWDP-SLB001-EN (August 2007)

Stocking Location Malaysia

[www.trane.com](http://www.trane.com)

For more information, contact your local district office

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