

# IMD 420

Nominal Airflow: 1800 l/s

## Cooling Capacity (kW)

Entering Air Temperature 23°C D.B., 17°C W.B.

Total = Total Capacity (kW); Sens. = Sensible Capacity (kW)

Note: Cooling capacities are based on the nominal airflow.

COIL	WATER FLOW (l/s)	PRESSURE DROP (kPa)	ENTERING WATER TEMPERATURE °C									
			5		6		7		8		9	
			Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.
1 ROW	0.30	5.6	9.4	8.3	8.7	8.1	8.1	7.9	7.4	7.4	6.9	6.9
	0.60	19.3	13.2	9.7	12.1	9.3	11.2	9.0	10.3	8.7	9.3	8.3
	0.80	32.8	14.8	10.3	13.7	9.9	12.7	9.5	11.5	9.1	10.3	8.7
4 ROWS	1.50	8.5	33.4	24.4	30.9	23.3	28.3	22.3	25.7	21.2	23.2	20.2
	2.50	20.7	38.8	26.7	35.9	25.5	33.0	24.2	30.1	23.0	27.2	21.8
	3.00	29.8	40.6	27.5	37.4	26.1	34.5	24.8	31.2	23.4	28.3	22.2

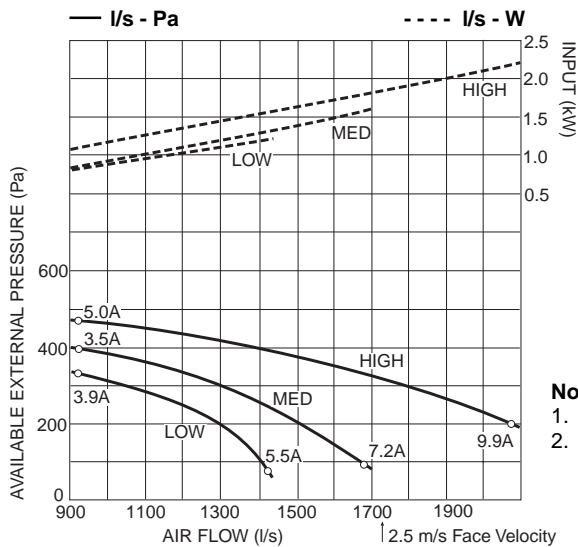
## Heating Capacity (kW)

Entering Air Temperature 21°C

Note: Heating capacities are total - based on the nominal airflow. Electric Heating option: 12 kW

COIL	WATER FLOW (l/s)	PRESSURE DROP (kPa)	ENTERING WATER TEMPERATURE °C								
			40	45	50	55	60	65	70	75	80
1 ROW	0.30	3.9	11.2	14.1	17.0	20.0	23.0	25.9	28.8	31.8	34.7
	0.60	13.2	13.6	17.2	20.8	24.3	27.9	31.4	35.0	38.5	42.1
	0.90	27.4	15.0	18.9	22.8	26.8	30.7	34.6	38.5	42.5	46.4

## Air Handling



## Sound Levels

Test Conditions: JIS 8616. 1 m ducting with 25 mm insulation. Sound Pressure Levels are at 1 m from source.

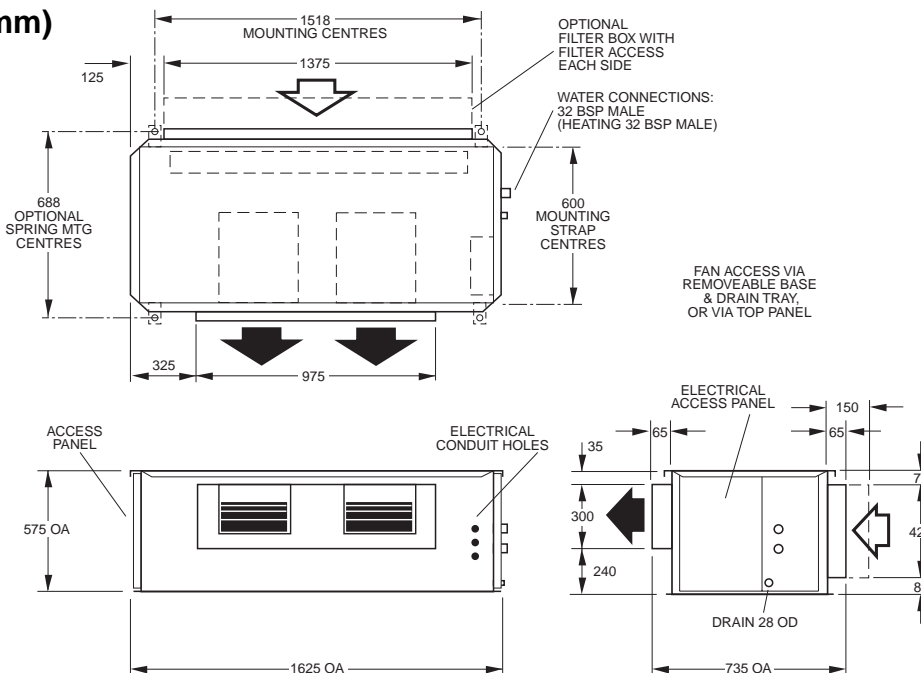
FAN SPEED	SPL dB(A)	SWL dB(A)	OCTAVE BAND FREQ. Hz					
			125	250	500	1 k	2 k	4 k
			SOUND POWER LEVELS dB					
LOW	46	56	57	57	55	51	46	42
MED	51	61	62	62	60	55	51	48
HIGH	58	68	68	69	67	62	58	56

### Note:

1. Air flows given are for a unit with no filter installed.
2. In a free blow application, beware of exceeding indoor fan motor's full load amp limit.

## Dimensions (mm)

Not to Scale



Note: Allow 500 mm minimum clearance to each access panel