

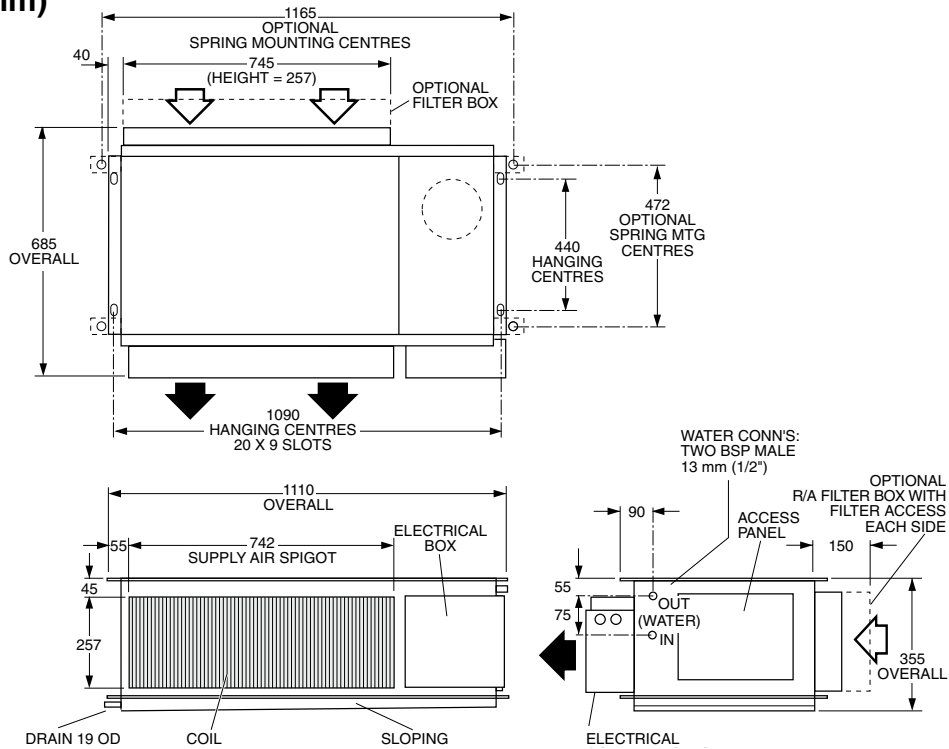
# HWP 58

# DATA SHEET

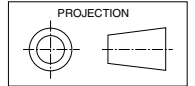
## Ducted Water Cooled R410A Packaged Air Conditioners

### Dimensions (mm)

Not to Scale



### HWP 58



Net Weight 75 kg

### COOLING CAPACITY (kW)

AIR FLOW RATE l/s	COIL E.A.T.		LEAVING WATER TEMPERATURE (L.W.T.) °C																							
	W.B. °C	D.B. °C	25				30				35				40				45				50			
			T	S	FL	HR	T	S	FL	HR	T	S	FL	HR	T	S	FL	HR	T	S	FL	HR	T	S	FL	HR
300	17	23	6.0	4.7	0.36	7.2	5.8	4.3	0.36	7.0	5.5	4.1	0.36	6.8	5.3	4.0	0.36	6.6	5.2	3.9	0.36	6.6	5.1	3.5	0.36	6.6
	19	27	6.5	4.7	0.36	7.6	6.4	4.6	0.36	7.7	5.9	4.6	0.36	7.2	5.7	4.3	0.36	7.1	5.3	4.3	0.36	6.7	5.2	4.2	0.36	6.7
	21	31	6.9	5.4	0.36	7.9	6.8	5.4	0.36	8.1	6.8	5.4	0.36	8.2	6.2	5.3	0.36	7.6	5.9	5.2	0.36	7.4	5.6	5.2	0.36	7.1

T = Total Capacity (kW)      S = Sensible Capacity (kW)      HR = Heat Rejection (kW)  
 FL = Water Flow (l/s)      E.A.T. = Entering Air Temperature (°C)      ○ = Nominal Capacity (kW)

**NOTE:** Capacities are **gross** and do not include allowance for fan motor heat loss. For fan motor heat loss refer to Air Handling Performance. Water flow and cooling capacity based on 5 °C water temp. difference.

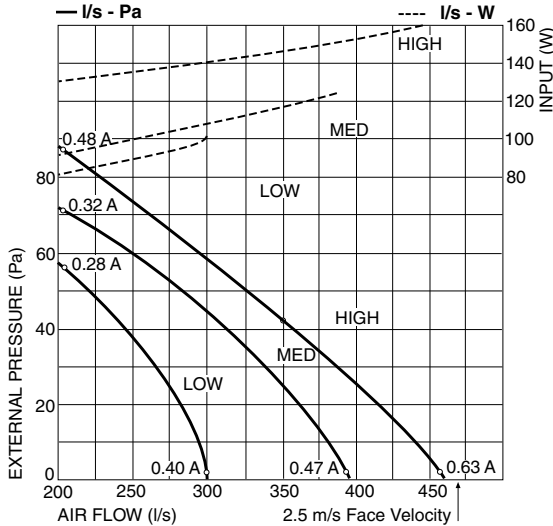
### HEATING CAPACITY (kW)

#### HW\*~~R~~ Reverse Cycle version

MODEL	WATER FLOW RATE l/s	COIL E.A.T. D.B. °C	LEAVING WATER TEMPERATURE (L.W.T.) °C											
			12.5				15.5				18.5			
			HC	HAb	EWT	INPT	HC	HAb	EWT	INPT	HC	HAb	EWT	INPT
HWP 58R	0.35	18	5.2	3.7	15.9	1.3	5.5	4.0	19.2	1.4	5.9	4.4	22.5	1.4
		21	5.2	3.6	15.9	1.4	5.5	3.9	19.2	1.5	5.9	4.2	22.4	1.5
		25	5.1	3.5	15.9	1.5	5.5	3.8	19.2	1.6	5.9	4.1	22.4	1.6

HC = Heating Capacity (kW)      EWT = Entering Water Temperature (°C) (Minimum required 17°C)  
 HAb = Heat Absorbed (kW)      INPT = Compressor Input (kW)  
 ○ = Nominal Capacity (kW)      E.A.T. = Entering Air Temperature (°C)

## AIR HANDLING PERFORMANCE Without Filter



FILTER (clean)	Coil Face Velocity (m/s)	1.5	2.0	2.5
	Pressure Loss (Pa)	5	9	13

## QUICK REFERENCE

**HWP 58**

Electrical Input (Cooling)	1.62 kW
E.E.R. (Cooling)	3.52
Running Amps (Total)	7.5
Fan Motor Full Load Amps	0.53
Electrical Supply Required	1 ph. 220-240V ±10% a.c. 50 Hz
Recom'd External Fuse Size	25 A
Refrigerant	HFC-410A (R410A)
Minimum Water Flow	0.36 l/s
Water Coil Pressure Drop	55 kPa (8 psi)
Filter (polypropylene net)	optional
Electric Heat Option	3 kW

### Note

1. In tropical (high humidity) conditions care must be taken to select an air flow which gives a suitable coil face air velocity, to prevent water carry over.
2. For applications with low resistance be sure not to exceed the fan motor full load amps.
3. Applications using full or high proportions of fresh air should be referred to **temperzone** engineering office to establish the correct selection of units.

## SOUND LEVELS

Note: SPL measured to JIS 8616 (1m from source in an anechoic chamber)

### SUPPLY AIR + INSULATED DUCT

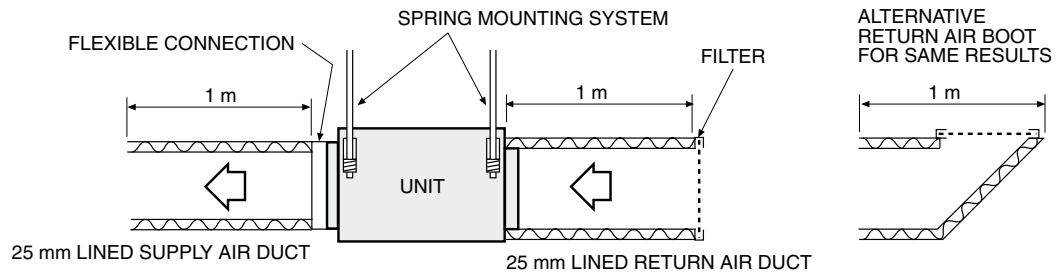
MODEL	FAN SPEED	AIR FLOW l/s	SOUND PRESSURE LEVELS (SPL) dB(A)	SOUND POWER LEVELS (SWL) dB						
				SWL dB(A)	OCTAVE BAND FREQ. Hz					
					125	250	500	1 k	2 k	4 k
HWP 58	LOW	280	43	48	59	51	46	38	33	23
	MED	335	44	50	58	54	49	41	33	28
	HIGH	360	46	53	61	55	52	46	34	32

### SUPPLY AIR OUTLET

MODEL	FAN SPEED	AIR FLOW l/s	SOUND PRESSURE LEVELS (SPL) dB(A)	SOUND POWER LEVELS (SWL) dB						
				SWL dB(A)	OCTAVE BAND FREQ. Hz					
					125	250	500	1 k	2 k	4 k
HWP 58	LOW	280	47	54	62	54	50	48	45	37
	MED	335	48	56	61	56	53	52	48	41
	HIGH	360	51	59	62	58	56	55	51	45

### CASE BREAKOUT + RETURN AIR

MODEL	FAN SPEED	AIR FLOW l/s	SOUND PRESSURE LEVELS (SPL) dB(A)	SOUND POWER LEVELS (SWL) dB						
				SWL dB(A)	OCTAVE BAND FREQ. Hz					
					125	250	500	1 k	2 k	4 k
HWP 58	LOW	280	48	55	63	59	52	48	43	36
	MED	335	53	60	66	61	57	54	52	46
	HIGH	360	54	61	67	61	58	55	54	47



## Sound Pressure Levels (SPL) Within A Room

Deduct the room absorption effect below from the Sound Power Levels (SWL) above to obtain Sound Pressure Levels within a room. Note: Occupant at least 1.5 m from sound source.

ROOM TYPE	OCTAVE BAND FREQ. Hz					
	125	250	500	1k	2k	4k
	ROOM ABSORPTION EFFECT					
SOFT	4	8	11	11	11	11
MEDIUM	3	7	8	9	9	9
HARD	0	1	3	4	4	5

### NOTE

The manufacturer reserves the right to change specifications at any time without notice or obligation. Certified data available on request.