

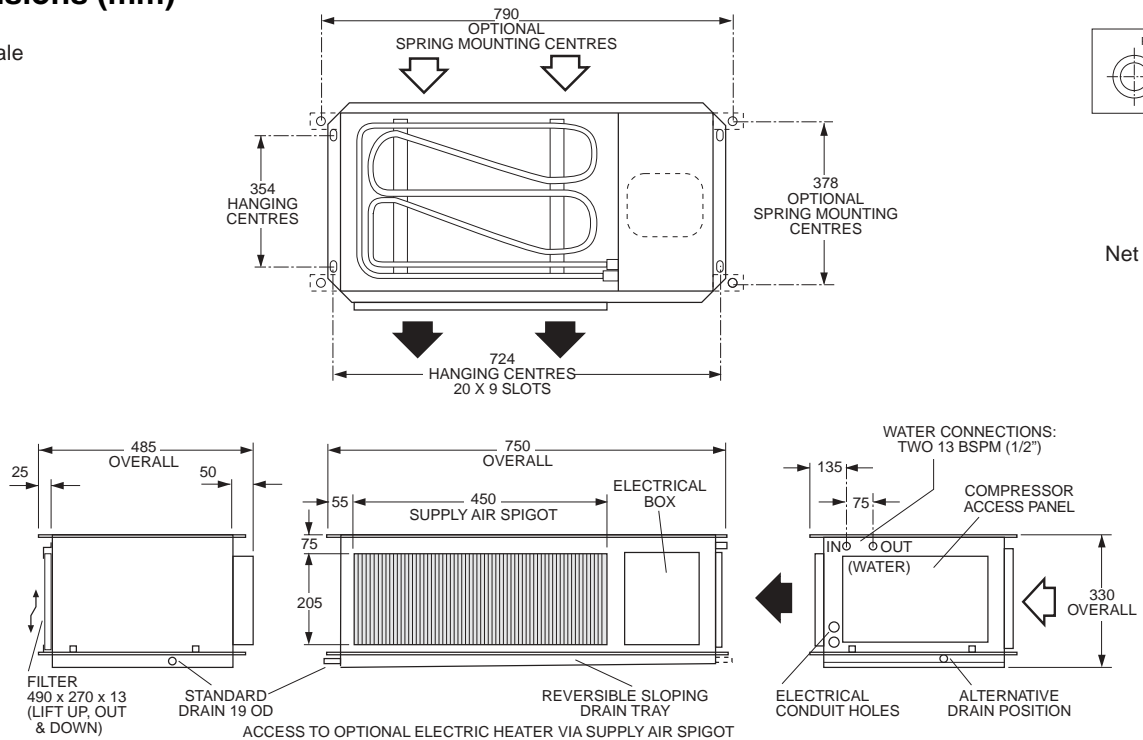
HWP 41

DATA SHEET

Ducted Water Cooled Packaged Air Conditioners

Dimensions (mm)

Not to Scale



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
200	17	23	4.0	2.7	0.20	5.0	3.9	2.6	0.19	4.9	3.7	2.6	0.19	4.8	3.6	2.5	0.19	4.7	3.4	2.4	0.18	4.6	3.3	2.4	0.19	4.6
	19	27	4.4	3.1	0.21	5.3	4.2	3.0	0.21	5.2	4.1	3.0	0.20	5.1	3.9	2.9	0.20	5.0	3.7	2.8	0.20	4.9	3.6	2.8	0.20	4.9
	21	31	4.8	3.5	0.23	5.7	4.6	3.4	0.22	5.6	4.4	3.3	0.22	5.5	4.2	3.3	0.21	5.4	4.0	3.2	0.21	5.3	3.9	3.2	0.21	5.3

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 5.5 °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 41R	0.20	18	3.9	2.9	16.0	1.0	4.2	3.2	19.3	1.1	4.6	3.5	22.6	1.1
		21	3.9	2.9	15.9	1.0	4.2	3.1	19.2	1.1	4.5	3.4	22.6	1.2
		25	3.9	2.8	15.8	1.1	4.2	3.0	19.1	1.2	4.5	3.3	22.4	1.2

HC = Heating Capacity (kW)

EWT = Entering Water Temperature (°C) (Minimum required 17°C)

HAb = Heat Absorbed (kW)

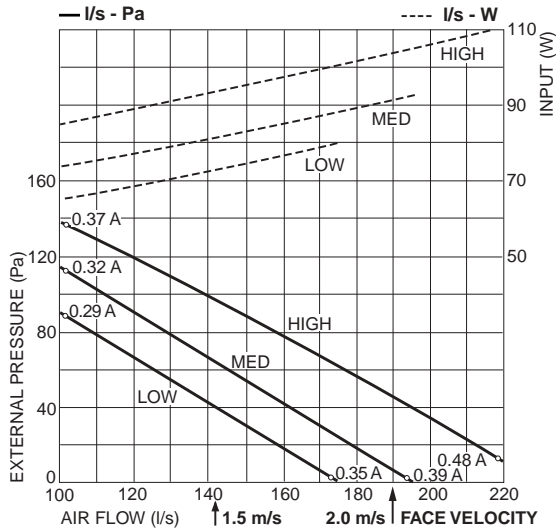
INPT = Compressor Input (kW)

○ = Nominal Capacity (kW)

E.A.T. = Entering Air Temperature (°C)

AIR HANDLING PERFORMANCE

Without Filter



EU2 rated Filter	Coil Face Velocity	1.5 m/s	2.0 m/s
	Pressure Loss	21 Pa	28 Pa

QUICK REFERENCE

HWP 41

Electrical Input (Cooling)	1.15 kW
E.E.R. / C.O.P. (Cooling)	12.2 / 3.6
Running Amps (Total)	5.2
Fan Motor Full Load Amps	0.6
Electrical Supply Required	1 ph. 200-252V ±10% a.c. 50 Hz
Recom'd External Fuse Size	15 A
Refrigerant	HCFC-22 (R22)
Nominal (Minimum) Water Flow	0.20 l/s
Water Pressure Drop (nom./+15%)	35 kPa / 46 kPa
Filter (EU2 rated)	supplied
Electric Heat Option	2 kW

Note

- 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.
- For applications with low resistance be sure not to exceed the fan motor full load amps.
- 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 41	LOW	150	30	40	50	43	38	32	26	18
	MED	170	32	42	44	45	41	33	27	24
	HIGH	190	33	43	44	47	42	35	29	24

CASE B/OUT + RET. AIR + INS. DUCT

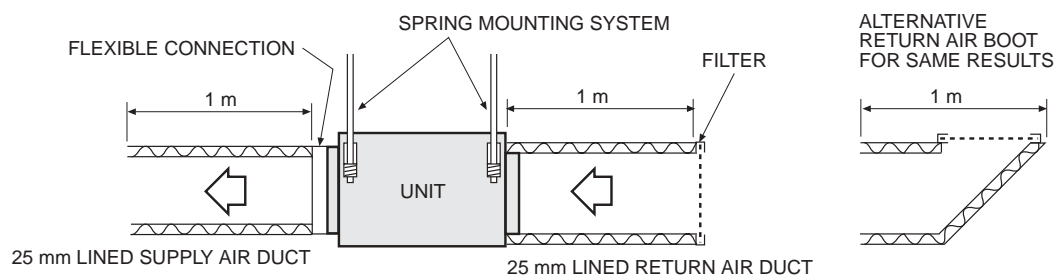
MODEL	FAN SPEED	AIR FLOW l/s	SOUND PRESSURE LEVELS (SPL) dB(A)	SOUND POWER LEVELS (SWL) dB						
				SWL dB(A)	OCTAVE BAND FREQ. Hz					
					125	250	500	1 k	2 k	4 k
HWP 41	LOW	150	42	52	60	53	48	44	43	40
	MED	170	43	53	60	55	48	45	43	40
	HIGH	190	44	54	61	57	51	47	44	41

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 41	LOW	150	41	51	56	52	48	45	44	40
	MED	170	43	53	55	53	49	47	46	42
	HIGH	190	45	55	56	55	51	48	47	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 41	LOW	150	44	54	58	55	50	48	45	41
	MED	170	45	55	59	56	52	49	46	42
	HIGH	190	46	56	60	58	54	51	47	43



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.