

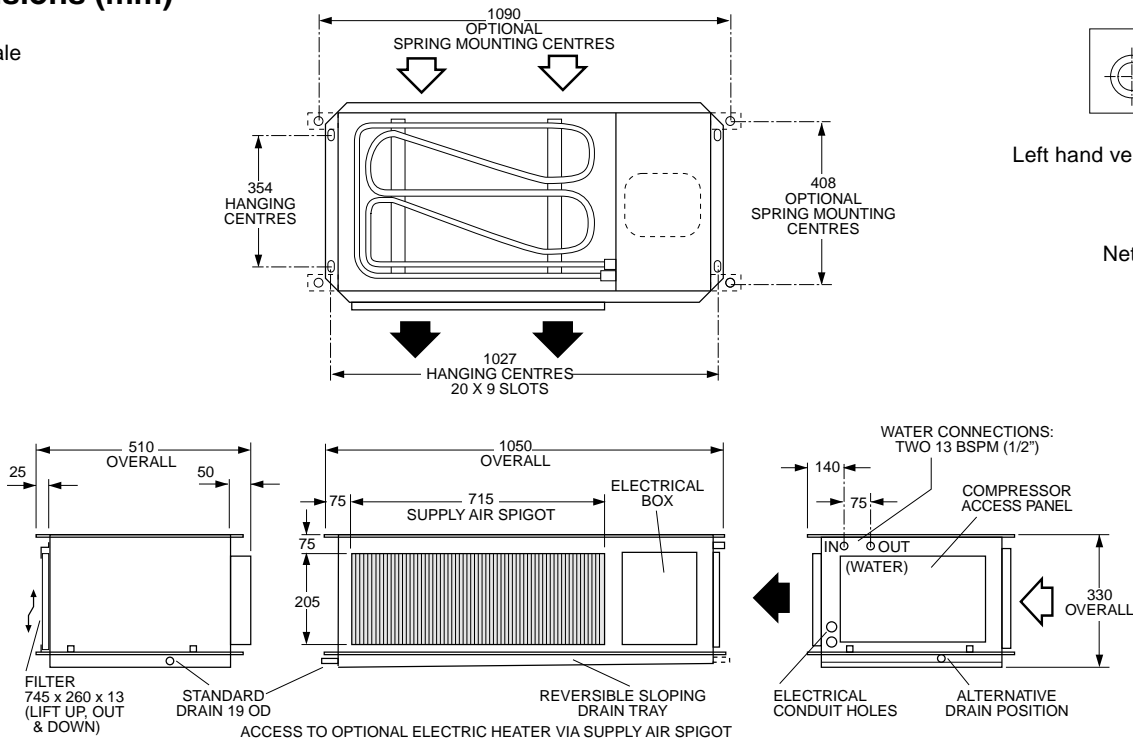
HWP 49

DATA SHEET

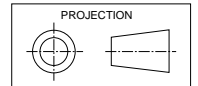
Ducted Water Cooled Packaged Air Conditioners

Dimensions (mm)

Not to Scale



HWP 49



Left hand version available

Net Weight 54 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				
250	17	23	5.0	3.4	0.24	5.3	4.7	3.3	0.23	5.8	4.5	3.2	0.23	5.7	4.3	3.1	0.22	5.5	4.1	3.1	0.22	5.4	4.0	3.0	0.22	5.4
	19	27	5.4	3.9	0.25	6.4	5.2	3.9	0.25	6.2	4.9	3.8	0.24	6.1	4.7	3.7	0.24	5.9	4.4	3.6	0.23	5.8	4.3	3.5	0.23	5.8
	21	31	5.8	4.5	0.27	6.8	5.6	4.4	0.27	6.7	5.3	4.3	0.26	6.5	5.0	4.2	0.25	6.3	4.8	4.1	0.25	6.3	4.6	4.0	0.24	6.1

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 5.5 °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 49R	0.24	18	4.5	3.5	15.9	1.0	5.0	3.8	19.3	1.1	5.2	4.1	22.6	1.2
		21	4.5	3.4	15.9	1.1	5.0	3.7	19.2	1.2	5.2	4.0	22.5	1.2
		25	4.4	3.3	15.8	1.2	4.8	3.6	19.1	1.3	5.2	3.9	22.3	1.3

HC = Heating Capacity (kW)

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

HAb = Heat Absorbed (kW)

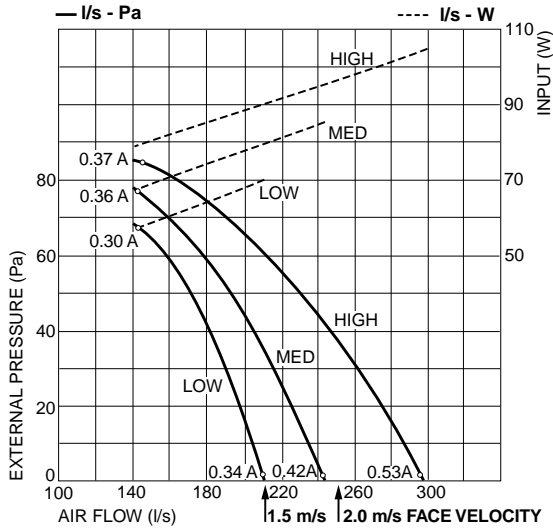
INPT = Compressor Input (kW)

○ = 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	10 Pa	14 Pa

QUICK REFERENCE

HWP 49

Electrical Input (Cooling)	1.31 kW
E.E.R. / C.O.P. (Cooling)	12.8 / 3.7
Running Amps (Total)	5.8
Fan Motor Full Load Amps	0.6
Electrical Supply Required	1 ph. 200-252V ±10% a.c. 50 Hz
Recom'd External Fuse Size	20 A
Refrigerant	HCFC-22 (R22)
Nominal (Minimum) Water Flow	0.24 l/s
Water Pressure Drop (nom./+15%)	50 kPa / 68 kPa
Filter (EU2 rated)	supplied
Electric Heat Option	3 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 49	LOW	165	31	41	47	44	40	33	28	24
	MED	175	32	42	49	45	41	35	29	24
	HIGH	255	34	44	50	48	43	36	31	25

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

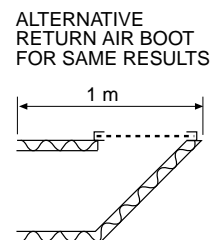
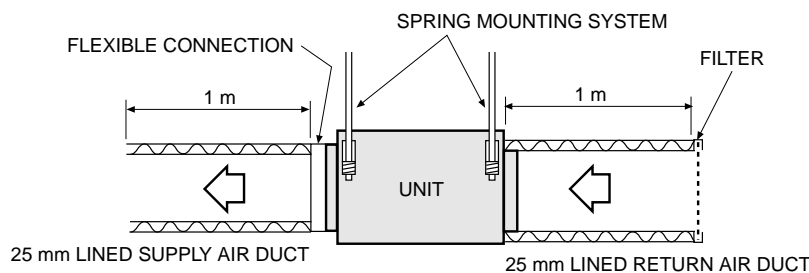
MODEL	FAN SPEED	AIR FLOW l/s	SOUND PRESSURE LEVELS (SPL) dB(A)	SOUND POWER LEVELS (SWL) dB						
				SWL dB(A)	OCTAVE BAND FREQ. Hz					
					125	250	500	1 k	2 k	4 k
HWP 49	LOW	165	40	49	58	50	46	43	38	37
	MED	175	41	50	58	50	47	44	40	37
	HIGH	255	42	51	59	51	48	45	41	37

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 49	LOW	165	39	49	52	49	47	43	40	32
	MED	175	41	51	55	51	49	46	43	36
	HIGH	255	45	55	55	55	53	50	49	42

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 49	LOW	165	43	52	58	52	49	47	41	37
	MED	175	44	53	58	54	51	48	43	38
	HIGH	255	46	55	59	56	53	49	45	40



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.