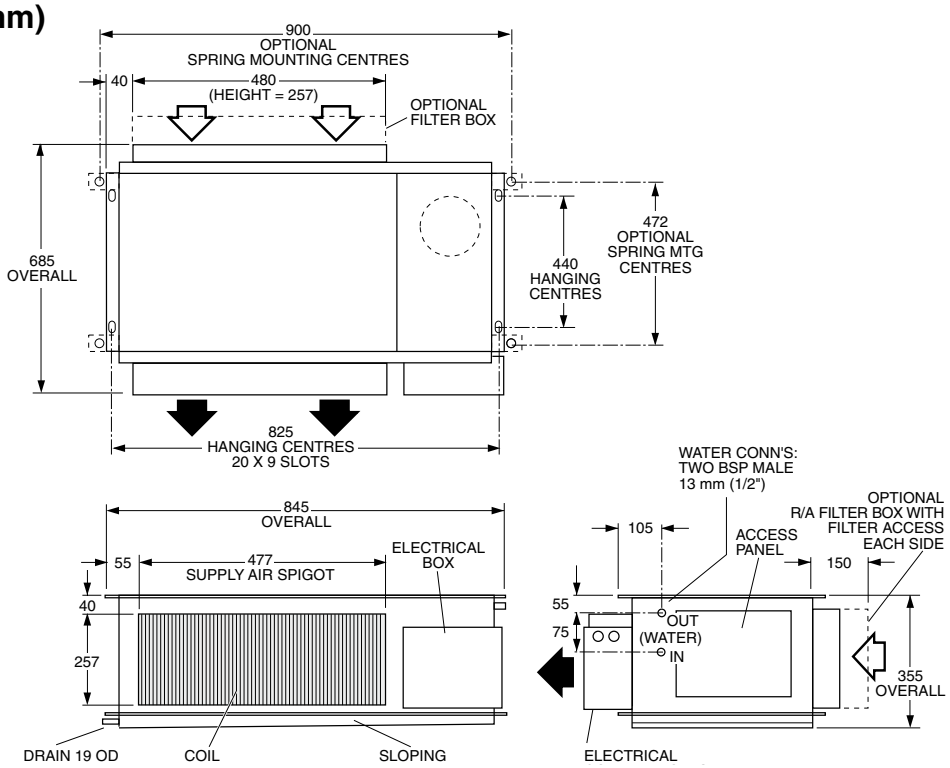
HWP 47

DATA SHEET

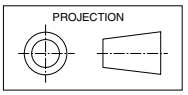
Ducted Water Cooled R410A Packaged Air Conditioners

Dimensions (mm)

Not to Scale



HWP 47



Net Weight 58 kg

COOLING CAPACITY (kW)

AIR FLOW RATE l/s	COIL E.A.T. W.B. °C	COIL E.A.T. D.B. °C	LEAVING WATER TEMPERATURE (L.W.T.) ° 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
225	17	23	4.9	3.7	0.27	5.7	4.6	3.5	0.27	5.6	4.4	3.3	0.27	5.4	4.2	3.2	0.27	5.3	4.2	3.1	0.27	5.3	4.1	2.8	0.27	5.2
	19	27	5.2	3.8	0.27	6.1	5.1	3.7	0.27	6.1	(4.7)	3.7	0.27	5.7	4.6	3.5	0.27	5.7	4.2	3.4	0.27	5.3	4.2	3.4	0.27	5.3
	21	31	5.5	4.4	0.27	6.3	5.5	4.3	0.27	6.4	5.5	4.3	0.27	6.5	5.0	4.3	0.27	6.1	4.8	4.2	0.27	5.9	4.5	4.2	0.27	5.7

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

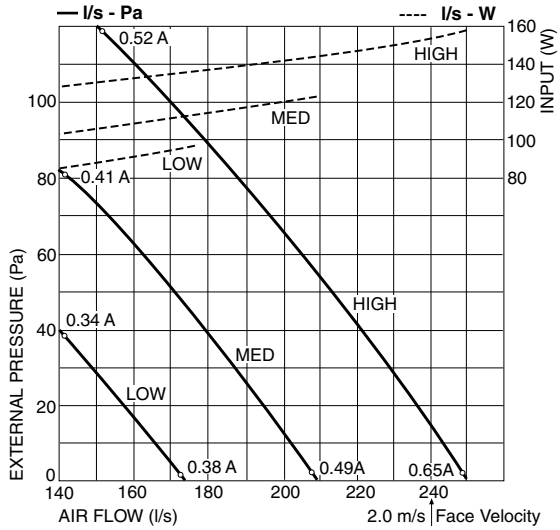
NOTE: Capacities are **gross** and do not include allowance for fan motor heat loss. For fan motor heat loss refer to Air Handling Performance. Water flow and cooling capacity based on 5 °C water temp. difference.

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 47R	0.2	18	4.5	3.3	16.3	1.0	4.8	3.6	19.6	1.1	5.2	3.9	22.9	1.1
		21	4.5	3.2	16.3	1.1	(4.8)	3.5	19.6	1.1	5.1	3.8	22.9	1.2
		25	4.5	3.1	16.3	1.2	4.8	3.4	19.6	1.2	5.1	3.7	22.9	1.3

HC = Heating Capacity (kW)
HAb = Heat Absorbed (kW)
( ) = Nominal Capacity (kW)
EWT = Entering Water Temperature (°C) (Minimum required 17°C)
INPT = Compressor Input (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 47

Electrical Input (Cooling)	1.29 kW
E.E.R. (Cooling)	3.50
Running Amps (Total)	5.6
Fan Motor Full Load Amps	0.70
Electrical Supply Required	1 ph. 220-240V ±10% a.c. 50 Hz
Recom'd External Fuse Size	15 A
Refrigerant	HFC-410A (R410A)
Minimum Water Flow	0.27 l/s
Water Coil Pressure Drop	38 kPa (5.5 psi)
Filter (polypropylene net)	optional
Electric Heat Option	2 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

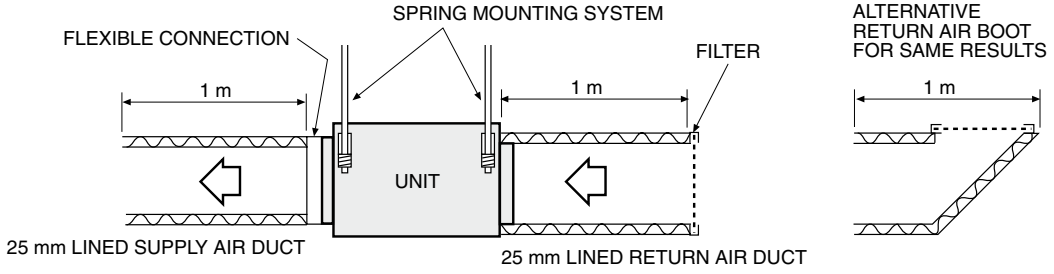
MODEL	FAN SPEED	AIR FLOW l/s	SOUND PRESSURE LEVELS (SPL) dB(A)	SOUND POWER LEVELS (SWL) dB						
				SWL	OCTAVE BAND FREQ. Hz					
				dB(A)	125	250	500	1 k	2 k	4 k
HWP 47	LOW	160	38	44	54	46	42	38	30	22
	MED	190	39	46	53	49	45	40	31	26
	HIGH	230	43	50	55	51	49	45	34	31

SUPPLY AIR OUTLET

MODEL	FAN SPEED	AIR FLOW l/s	SOUND PRESSURE LEVELS (SPL) dB(A)	SOUND POWER LEVELS (SWL) dB						
				SWL	OCTAVE BAND FREQ. Hz					
				dB(A)	125	250	500	1 k	2 k	4 k
HWP 47	LOW	160	48	51	58	57	55	51	46	39
	MED	190	50	54	59	58	57	53	48	41
	HIGH	230	51	58	60	59	58	55	49	42

CASE BREAKOUT + RETURN AIR

SOUND PRESSURE LEVELS (SPL) dB(A)	SOUND POWER LEVELS (SWL) dB						
	SWL	OCTAVE BAND FREQ. Hz					
	dB(A)	125	250	500	1 k	2 k	4 k
46	54	59	51	49	51	43	39
47	55	59	54	51	51	45	40
48	56	60	56	53	52	48	42



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.