

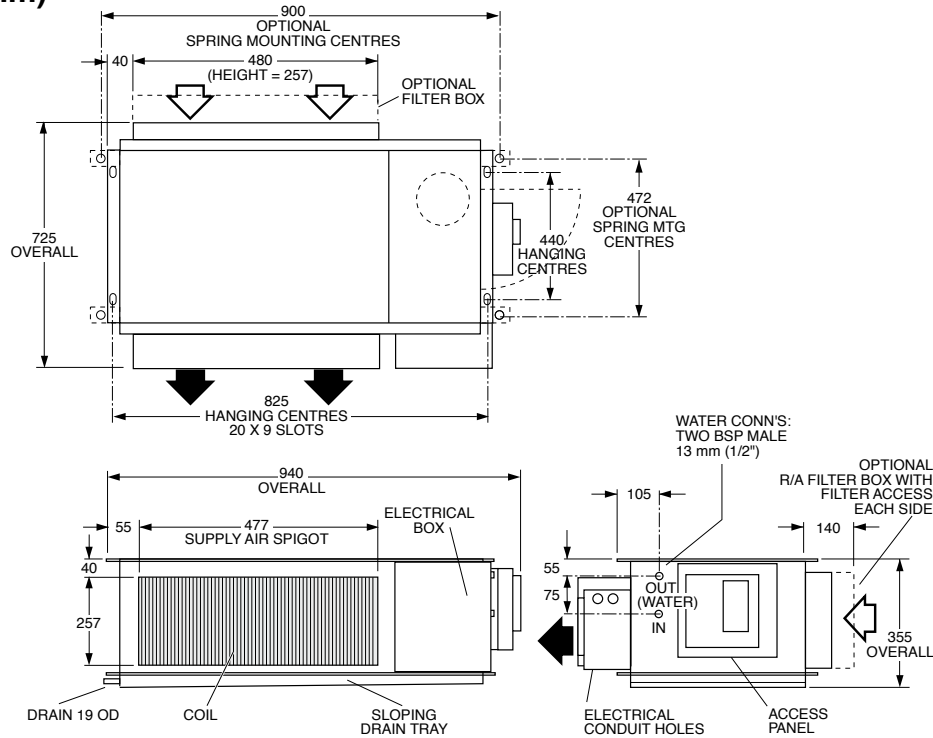
HWP 35KY (c/w EC Motor)

DATA SHEET

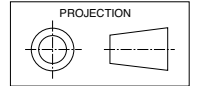
Ducted Water Cooled R410A Packaged Air Conditioners

Dimensions (mm)

Not to Scale



HWP 35KY



Net Weight 70 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
205	17	23	3.5	2.8	0.22	4.2	3.4	2.6	0.22	4.1	3.2	2.5	0.22	4.0	3.1	2.4	0.22	3.9	3.0	2.3	0.22	3.8	3.0	2.1	0.22	3.8
	19	27	3.8	2.8	0.22	4.4	3.7	2.7	0.22	4.4	3.4	2.7	0.22	4.3	3.3	2.6	0.22	4.2	3.1	2.6	0.22	3.9	3.0	2.5	0.22	3.9
	21	31	4.0	3.2	0.22	4.6	4.0	3.2	0.22	4.7	4.0	3.2	0.22	4.8	3.6	3.2	0.22	4.4	3.5	3.1	0.22	4.3	3.3	3.1	0.22	4.1

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 35R	0.17	18	2.9	2.0	16.5	0.8	3.1	2.2	19.7	0.8	3.4	2.4	23.1	0.8
		21	2.9	2.0	16.4	0.8	3.1	2.1	19.7	0.9	3.4	2.3	23.0	0.9
		25	2.9	1.9	16.4	0.9	3.1	2.1	19.7	0.9	3.3	2.2	23.0	1.0

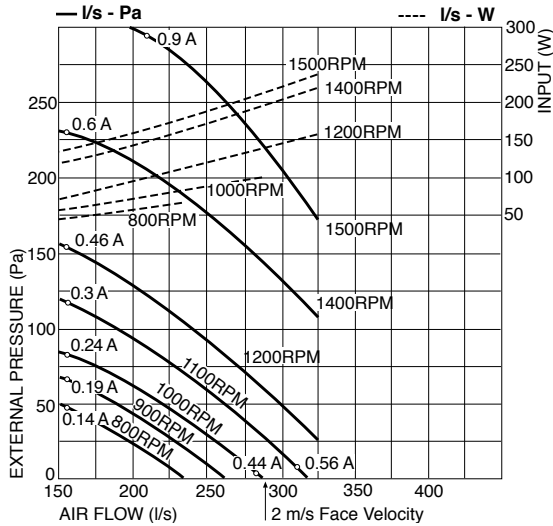
HC = Heating Capacity (kW)
HAb = Heat Absorbed (kW)

EWT = Entering Water Temperature (°C) (Minimum required 17°C)
INPT = Compressor Input (kW)
E.A.T. = Entering Air Temperature (°C)

○ = Nominal Capacity (kW)

AIR HANDLING PERFORMANCE

Without Filter



FILTER (clean)	Coil Face Velocity (m/s)	1.5	2.0	2.5
	Pressure Loss (Pa)	15	25	40

QUICK REFERENCE

HWP 35KY

Net Cooling Capacity *	3.37 kW
Electrical Input (Cooling)	0.94 kW
E.E.R. (Cooling)	3.54
EC Motor Setting (standard)	800–1100 RPM
Max. Fan Speed	1500 RPM
Running Amps (Total) Rating/Max.	4.1 / 6.7
Electrical Supply Required	1 ph. 220-240V ±10% a.c. 50 Hz
Refrigerant	HFC-410A (R410A)
Minimum Water Flow	0.17 l/s
Water Coil Pressure Drop	34.5 kPa (5 psi)
Filter (EU2/G2 rated)	optional
Electric Heat Option	2 kW

* At AS/NZS 3823 conditions.

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.
- 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

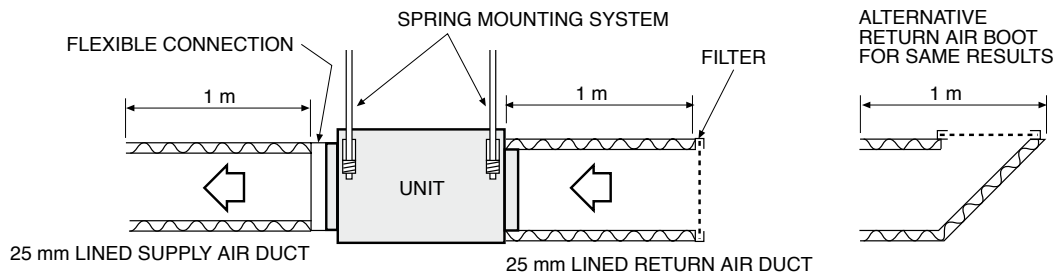
MODEL	FAN SPEED	AIR FLOW l/s	SOUND PRESSURE LEVELS (SPL) dB(A)	SOUND POWER LEVELS (SWL) dB						
				SWL dB(A)	OCTAVE BAND FREQ. Hz					
					125	250	500	1 k	2 k	4 k
HWP 35	800 RPM	185	33	40	47	42	37	35	26	22
	950 RPM	195	37	43	51	45	42	38	26	22
	1100 RPM	205	41	48	52	49	48	43	31	27

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 35	800 RPM	185	40	47	52	46	43	45	37	31
	950 RPM	195	43	51	54	48	46	48	41	34
	1100 RPM	205	48	56	58	53	52	52	48	41

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 35	800 RPM	185	44	52	53	49	48	49	41	36
	950 RPM	195	45	53	53	51	49	51	42	36
	1100 RPM	205	50	55	55	53	52	52	45	39



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.