

CWP 139

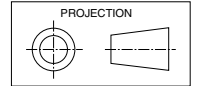
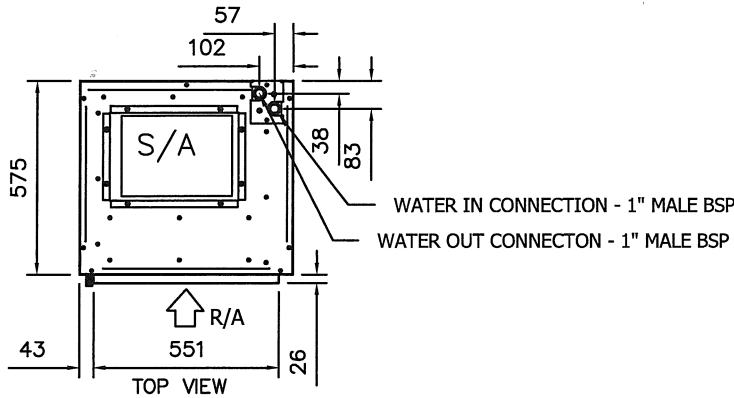
DATA SHEET

Ducted Water Cooled R410A Packaged Air Conditioners

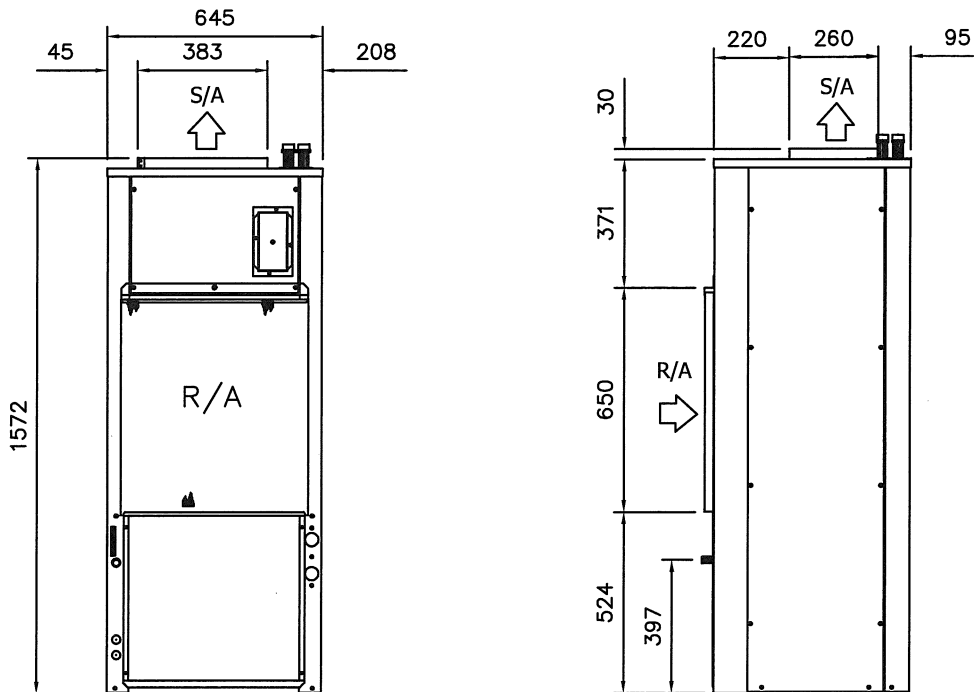
Dimensions (mm)

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Not to Scale



Approx. Net Weight 160 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				
650	17	23	13.9	9.7	0.8	16.7	13.4	9.5	0.8	16.2	12.9	9.2	0.8	15.6	12.3	9.0	0.8	15.1	11.8	8.7	0.8	14.5	11.1	8.4	0.8	13.9
	19	27	14.8	11.1	0.8	17.6	14.2	10.9	0.8	17.0	13.7	10.7	0.8	16.5	13.1	10.3	0.8	15.9	12.6	10.1	0.8	15.4	12.0	9.8	0.8	14.8
	21	31	15.6	13.2	0.8	18.4	15.0	13.0	0.8	17.8	14.5	12.7	0.8	17.3	13.9	12.5	0.8	16.7	13.4	12.2	0.8	16.2	12.9	11.8	0.8	15.6

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.

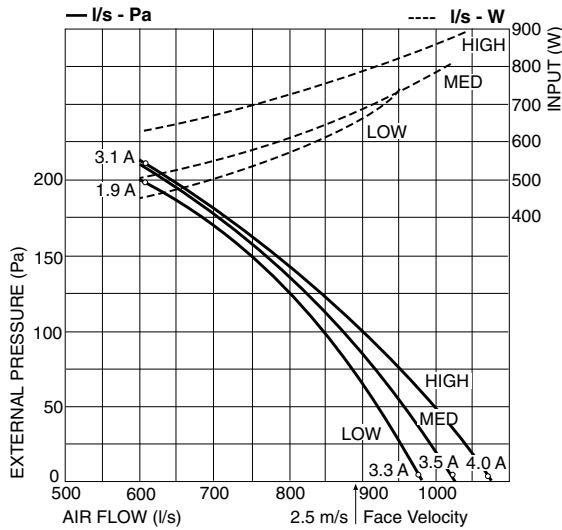
HEATING CAPACITY (kW) CWP*R Reverse Cycle version

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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
CWP 139R	0.78	18	12.8	9.7	16.2	2.5	13.7	10.4	19.5	2.6	14.7	11.3	22.8	2.8
		21	12.7	9.4	16.2	2.7	13.6	10.2	19.5	2.8	14.6	11.1	22.8	3.0
		25	12.7	9.1	16.2	2.9	13.6	10.0	19.5	3.0	14.6	10.8	22.8	3.2

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



QUICK REFERENCE

Electrical Input (Cooling)	3.7 kW
E.E.R. (Cooling)	3.53
Running Amps/ph. (Total)	9.0 / 5.8 / 5.6
Fan Motor Amps	4.1
Electrical Supply Required	3 ph. 380-415V ±10% a.c. 50 Hz
Recom'd External Fuse Size	25 A
Refrigerant	HFC-410A (R410A)
Water Flow	0.8 l/s
Water Coil Pressure Drop	34.5 kPa (5 psi)
Filter (EU2 rated)	fitted
Electric Heat Option	5.5 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 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
CWP 139	LOW	820	67	76	71	70	72	70	69	68
	MED	830	68	77	72	72	73	71	70	69
	HIGH	860	68	77	74	72	73	72	71	70

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.