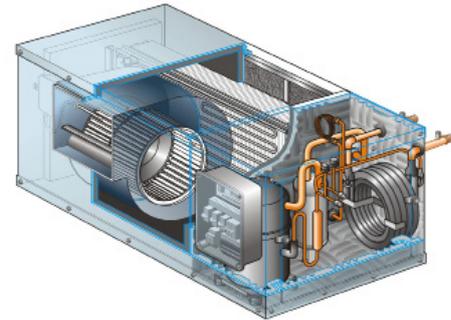


Model WS-28

TECHNICAL DATA

Cooling Capacity ¹	Btu/h	28000	
	Watt	8202	
Heating Capacity ²	Btu/h	33500	
	Watt	9813	
Power Consumption - Cooling / Heating	Watt	2348/2581	
C.O.P - Cooling / Heating		3.49/3.8	
Operating Current - Cooling / Heating ³	1 Phase	Amp	10.7/10.9
	3 Phase		5.0/5.2
Power Supply	1 Phase	V/Ph/Hz	230V, 1Ph, 50Hz
	3 Phase		400V, 3Ph, 50Hz
Time Delay Fuse	1 Phase	Amp	1x16-C
	3 Phase		3x10-C



GENERAL

Air flow (at high speed)	cfm (m ³ /h)	900 (1530)	
High Fan Speed (No. Speeds)	R.P.M	900 (3)	
Noise Level ⁴	dBA	50	
Net Static Pressure ⁵	mm H ₂ O	5	
Coil	Face Area	ft ² /m ²	2.1/0.19
	Rows Deep		4
	Fins Spacing	Per Inch	12

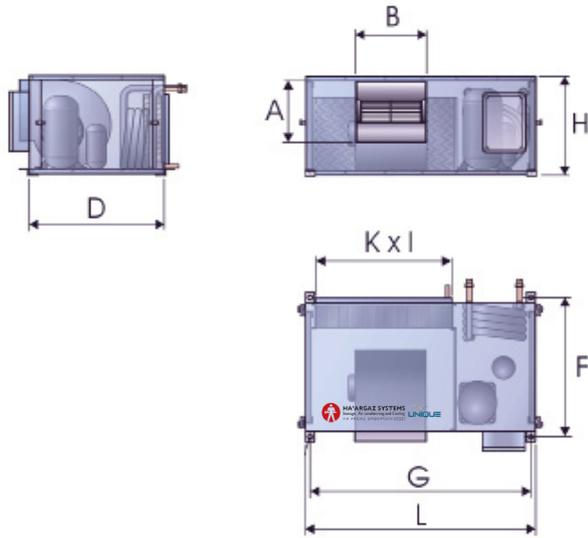
DIMENSIONS

Model		Horizontal	Vertical
LxDxH	mm	1040x600x480	680x600x860
A, B, G, F	mm	265, 305, 995, 656	265, 305, - , -
Return Air Duct - K,I	mm	520, 380	
Condensate Lines - Drain	Φ-mm (in)	19 (3/4")	
Water Inlet/Outlet	Φ in	BSP 1"	
Net Weight	kg	94	102

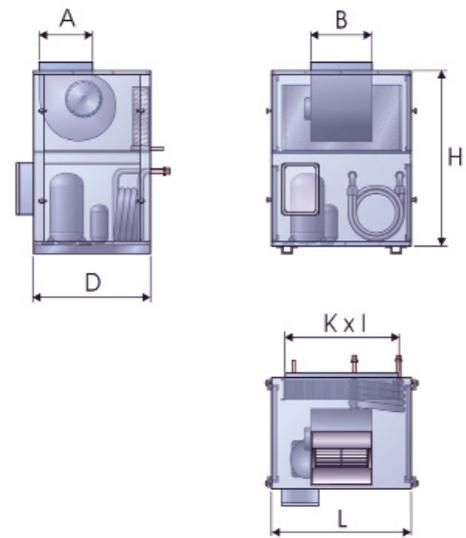
- NOTES:
1. Nominal cooling capacity based on indoor air temp. 27°C DB/19°C WB and entering water temp. 29°C.
 2. Nominal heating capacity based on indoor air temp. 21°C DB and entering water temp. 20°C.
 3. Operating current at heat pump mode, excluding electric heating elements.
 4. Noise level refers to a ducted unit at a distance of 1.5m from the unit.
 5. Net static pressure available at fan discharge at nominal capacity.



HORIZONTAL UNIT



VERTICAL UNIT



PERFORMANCE

COOLING PERFORMANCE								
Entering Water Temp.		Water Flow Rate		Water Pressure Drop	Colling Capacity ¹		Power Consumption	COP
°C	°F	m ³ /h	gpm	m H ₂ O	Watt	Btu/h	Watt	
29	85	1.2	5.2	2.6	8079	27580	2321	3.48
		1.5	6.5	2.8	8202	28000	2348	3.49
		1.8	7.8	3.0	8325	28420	2373	3.51
32	90	1.2	5.2	2.6	7675	26201	2445	3.14
		1.5	6.5	2.8	7791	26600	2474	3.15
		1.8	7.8	3.0	7908	26999	2501	3.16
35	95	1.2	5.2	2.6	7481	25539	2572	2.91
		1.5	6.5	2.8	7595	25928	2600	2.92
		1.8	7.8	3.0	7709	26317	2629	2.93

HEATING PERFORMANCE								
Entering Water Temp.		Water Flow Rate		Water Pressure Drop	Heating Capacity ¹		Power Consumption	COP
°C	°F	m ³ /h	gpm	m H ₂ O	Watt	Btu/h	Watt	
12	54	1.2	5.2	2.6	8462	28890	2326	3.64
		1.5	6.5	2.8	8635	29480	2347	3.68
16	61	1.2	5.2	2.6	9039	30860	2440	3.70
		1.5	6.5	2.8	9224	31490	2464	3.74
20	68	1.2	5.2	2.6	9616	32830	2558	3.76
		1.5	6.5	2.8	9813	33500	2581	3.80
24	75	1.2	5.2	2.6	10097	34472	2650	3.81
		1.5	6.5	2.8	10303	35175	2674	3.85

NOTES: 1. Air inlet Temperature - Cooling 27°C DB/19°C WB, Heating 21°C DB.

