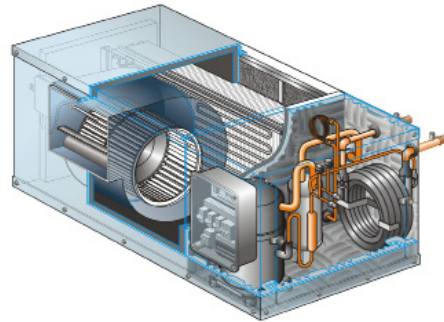


Model WS-85

TECHNICAL DATA

Cooling Capacity ¹	Btu/h	84500
	Watt	24751
Heating Capacity ²	Btu/h	98700
	Watt	28910
Power Consumption - Cooling / Heating	Watt	6874/7443
C.O.P - Cooling / Heating		3.60/3.88
Operating Current - Cooling / Heating ³	Amp	13.1/13.3
Power Supply	V/Ph/Hz	400V, 3Ph, 50Hz
Time Delay Fuse	Amp	3x20-C



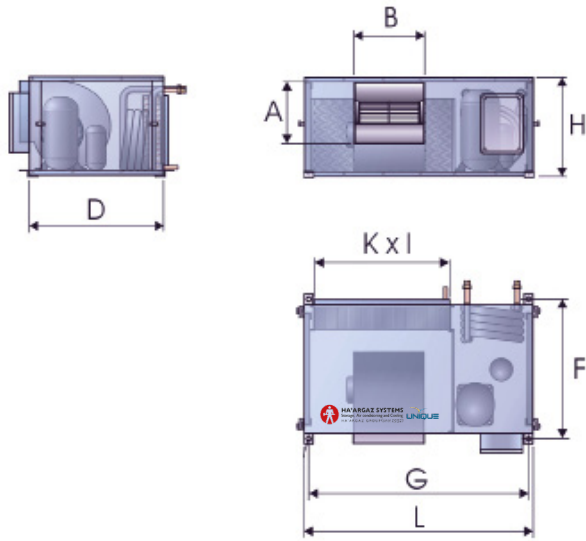
GENERAL			
Air flow (at high speed)	cfm (m ³ /h)		2800 (4760)
High Fan Speed (No. Speeds)	R.P.M		900 (3)
Noise Level ⁴	dBA		54
Net Static Pressure ⁵	mm H ₂ O		5
Coil	Face Area	ft ² /m ²	5.47/0.51
	Rows Deep		4
	Fins Spacing	Per Inch	12

DIMENSIONS			
Model		Horizontal	Vertical
LxDxH	mm	1600x750x610	1150x750x1200
A, B, G, F	mm	345, 400, 1555, 806	345, 400, - , -
Return Air Duct - K,I	mm		890,570
Condensate Lines - Drain	Φ-mm (in)		22.2 (7/8")
Water Inlet/Outlet	Φ in		BSP 1-1/4"
Net Weight	kg	185	197

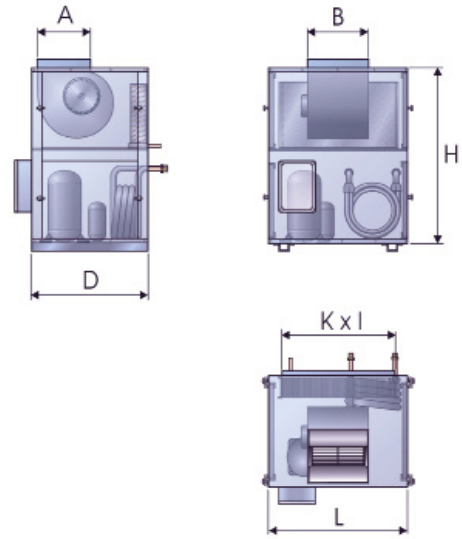
- NOTES:
1. Nominal cooling capacity based on indoor air temp. 27°C DB/19°C WB and entering water temp. 29°C.
 2. Nominal heating capacity based on indoor air temp. 21°C DB and entering water temp. 20°C.
 3. Operating current at heat pump mode, excluding electric heating elements.
 4. Noise level refers 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	3.6	15.7	2.2	24380	83233	6792	3.59
		4.5	19.6	2.4	24751	84500	6874	3.60
		5.4	23.6	2.6	25122	85766	6950	3.61
32	90	3.6	15.7	2.2	23161	79071	7173	3.23
		4.5	19.6	2.4	23513	80275	7253	3.24
		5.4	23.6	2.6	23866	81479	7333	3.25
35	95	3.6	15.7	2.2	22576	77073	7547	2.99
		4.5	19.6	2.4	22919	78247	7632	3.00
		5.4	23.6	2.6	23263	79421	7717	3.01

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	3.6	15.7	2.2	24932	85119	6693	3.73
		4.5	19.6	2.4	25441	86856	6755	3.77
16	61	3.6	15.7	2.2	26632	90922	7027	3.79
		4.5	19.6	2.4	27176	92778	7099	3.83
20	68	3.6	15.7	2.2	28332	96726	7374	3.84
		4.5	19.6	2.4	28910	98700	7443	3.88
24	75	3.6	15.7	2.2	29749	101562	7647	3.89
		4.5	19.6	2.4	30356	103635	7718	3.93

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

