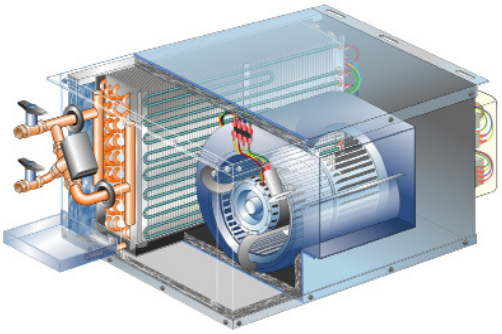
Model AHU-L 18

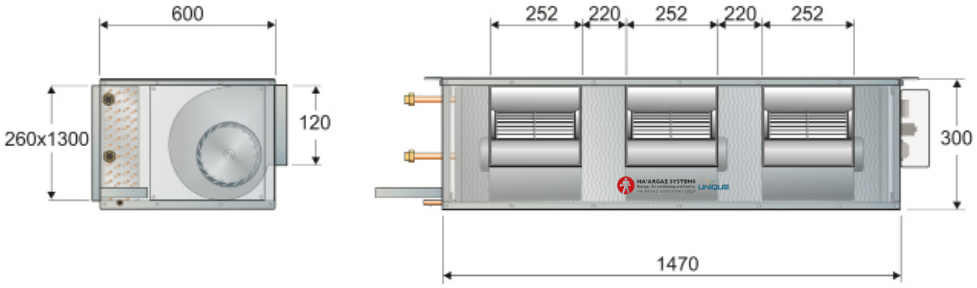
TECHNICAL DATA

Model		TYPE A	TYPE C
Air Flow (at high speed) [1]	m^3/h	3060	
	cfm	1800	
Fan Type And Model		3x Centrifugal 7"x7"	Centrifugal 9"x11"
High Fan Speed	R.P.M	1200	900
Number of Speeds		3	3
Noise Level [2]	dBA	45	47
Power Supply	V/Ph/Hz	230V, 1Ph, 50Hz	
Current Consumption	Amp	1.8	2.6
Weight - Horizontal/Vertical	kg	75/-	47/50
Coil Face Area	m^2	0.36	0.34
Fins Spacing	Per Inch	12 for 4-row coil, 10 for 6-row coil	

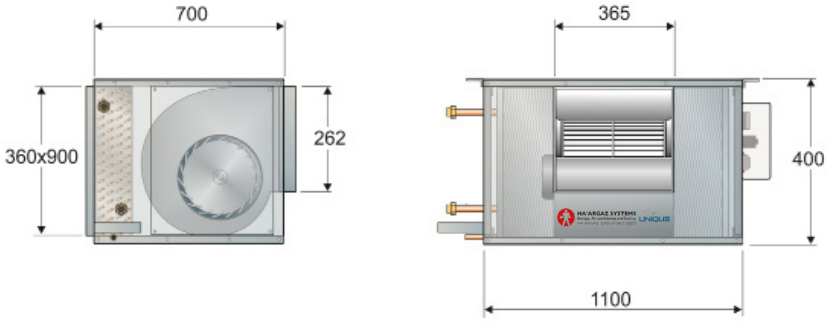


NOTES:
1. Air Flow refers to 4 row coil and 6 mm H_2O external pressure drop.
2. Noise level refers to a ducted unit at a distance of 1.5m from the unit.

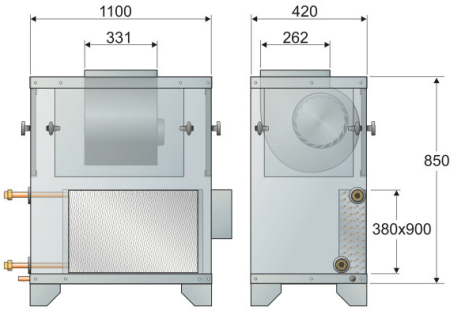
HORIZONTAL TYPE A



HORIZONTAL TYPE C



VERTICAL TYPE C



PERFORMANCE

COOLING CAPACITY FOR 4 ROW COIL

AIR Entering Temperature		22.8°C DB 16.7°C WB				25°C DB 18.3°C WB				26.7°C DB 19.4°C WB				29.4°C DB 21.7°C WB			
EWT °C	WTR °C	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O (A/C)*	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O
5.5	4.4	13378	45646	2.6	2.9	15906	54272	3.1	3.8	17699	60388	3.4	3.1/4.6	21507	73382	4.2	6.3
	5.5	12741	43472	2.0	2. 9	15149	51688	2.3	2.5	16856	57512	2.6	1.9/2.9	20483	69888	3.2	5.0
	6.7	12104	41298	1.6	1.4	14391	49104	1.9	1.87	16013	54636	2.1	1.2/2.1	19459	66394	2.5	2.9
7.2	4.4	11682	39858	2.3	2.5	14082	48048	2.7	3.3	16002	54600	3.1	2.6/3.8	19811	67595	3.8	5.3
	5.5	11125	37960	1.7	1.7	13411	45760	2.1	2.1	15240	52000	2.4	1.6/2.5	18868	64376	2.9	3.3
	6.7	10569	36062	1.4	1.2	12741	43472	1.6	1.6	14478	49400	1.9	1.0/1.8	17924	61157	2.3	2.5
8.9	4.4	9889	33743	1.9	1.1	12434	42424	2.4	2.5/2.5	14210	48485	2.8	2.1/3.3	18035	61534	3.5	4.6
	5.5	9419	32136	1.5	1.3	11842	40404	1.8	1.8	13533	46176	2.1	1.2/2.1	17176	58604	2.7	3.2
	6.7	8948	30529	1.2	1.1	11250	38384	1.5	1.3	12857	43867	1.7	0.8/1.6	16317	55674	2.1	2..1

COOLING CAPACITY FOR 6 ROW COIL

AIR Entering Temperature		22.8°C DB 16.7°C WB				25°C DB 18.3°C WB				26.7°C DB 19.4°C WB				29.4°C DB 21.7°C WB			
EWT °C	WTR °C	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O (A/C)*	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O
5.5	4.4	16079	54863	3.1	2.8	19118	65231	3.7	3.8	21272	72581	4.1	5.6/4.4	25850	88200	5.0	6.2
	5.5	15314	52250	2.4	1.9	18208	62125	2.8	2.4	20259	69125	3.1	3.4/2.9	24619	84000	3.8	4.1
	6.7	14548	49638	1.9	1.5	17297	59019	2.2	1.7	19246	65669	2.5	2.3/2.0	23388	79800	3.0	2.8
7.2	4.4	14041	47906	2.7	2.4	16926	57750	3.3	3.2	19234	65625	3.7	4.7/4.0	23811	81244	4.6	5.6
	5.5	13372	45625	2.1	1.6	16120	55000	2.5	2.0	18318	62500	2.8	2.8/2.4	22677	77375	3.5	3.6
	6.7	12703	43344	1.6	1.2	15314	52250	2.0	1.5	17402	59375	2.2	1.8/1.8	21543	73506	2.8	2.4
8.9	4.4	11886	40556	2.3	1.0	14944	50991	2.9	2.4	17079	58275	3.3	3.8/3.2	21676	73959	4.2	4.4
	5.5	11320	38625	1.8	1.4	14233	48563	2.2	1.7	16266	55500	2.5	2.3/2.0	20644	70438	3.2	2.9
	6.7	10754	36694	1.4	1.0	13521	46134	1.7	1.4	15453	52725	2.0	1.5/1.5	19612	66916	2.5	2.1

FRESH AIR COOLING CAPACITY - 6 ROW STANDARD COIL

AIR Entering Temperature		25°C DB 18.3°C WB			
EWT °C	WTR °C	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O
7.2	8.5	29283	99912	3.0	2.5

HEATING CAPACITY

		4 Row Coil				1 Row Coil				2 Row Coil			
AIR Entering Temperature		21 °C				21 °C				21 °C			
EWT °C	WTD °C	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O	CAP Watt	CAP Btu/h	WF m^3/h	PD m H_2O
45	5	15929	54350	2.4	2.2								
70	20					10917	37250	0.5	2.2	20615	70340	1.4	2.6

*Unit Configuration Type A/C

EWT - Entering Water Temp. | WTR - Water Temp. Rise | WTD - Water Temp. Drop | CAP-Cooling/Heating Capacity | PD – Water Pressure Drop | WF - Water Flow Rate