



LWHA - Marvel

Low Height Blower Coil Air Handler

Air Flow 2000cmh~15000cmh



Product Features

LWHA Marvel is a compact ceiling hung air handling unit specially designed for small commercial buildings, shopping centers, light industrial buildings, universities, schools, stores and other applications.

The unit has many options including higher efficiency secondary filter, hot water coil, electric heaters, humidifier and stainless steel drain pan to meet various design applications requirement.

LWHA's compact casing is ideal solution for new or replacement market with tight ceiling space. With lower noise level, it is easy to install and operate. Equipped with powerful double inlet centrifugal supply fan for maximum air flow capabilities and higher static, the unit is designed with wider cooling capacity ranges.

Product Features

Quality Unit

Robust casing construction with 15mm thick PE insulation ensures reliable unit operation and prevents casing condensation.

Cooling Coil with Hydrophilic Coated Fin

Coils with hydrophilic coated fin feature superior heat transfer performance, making longer life span for coils and preventing moisture carry over.

Space Saving

Low height and light weight compact casing reduce space requirement.

Ease of Servicing

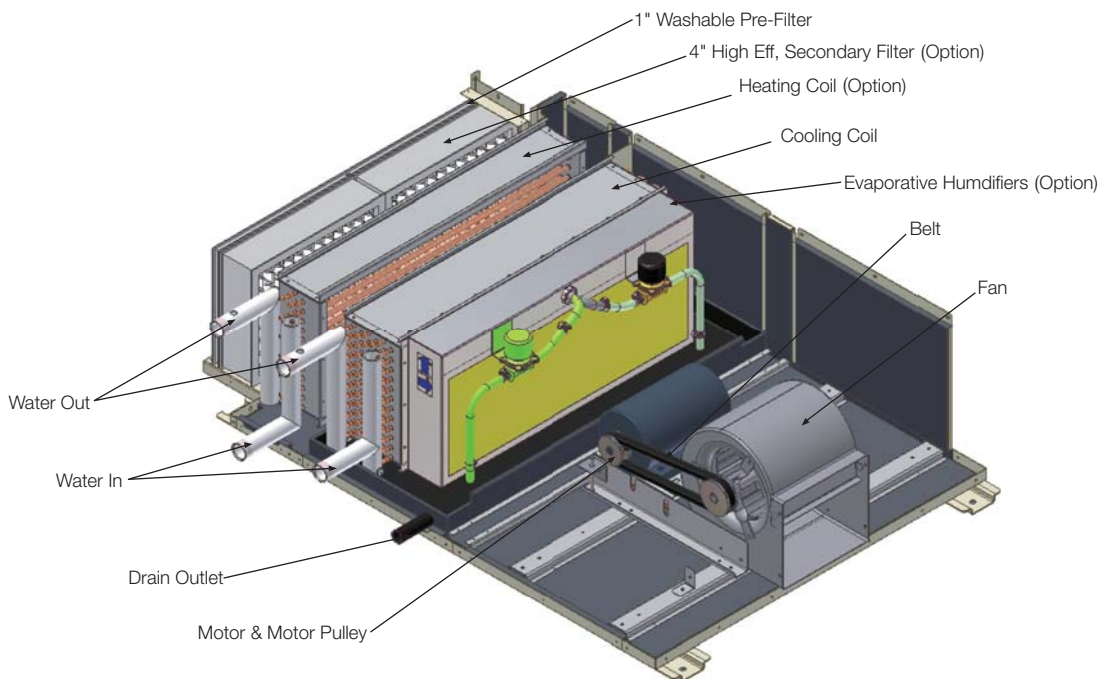
Filter are removable from both sides, which provides easier filter serving and maintenance work for the unit.

Ease of Installation

Suspension brackets and electrical terminal box are provided as standard options to simplify installation work and reduce project cost.

Computerized Selection

Proven Trane TOPSS computer selection program provides optimized product selection and more accurate performance prediction.



Model Number Description

L W H A 0 6 0 1 1 4 0 L 0 0 G 0 0 0 0 B
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

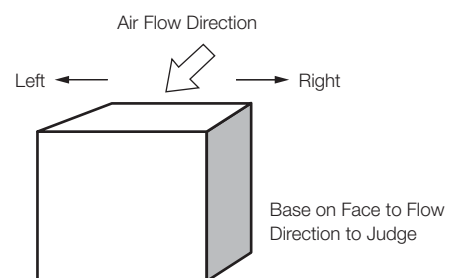
Digit 1,2,3,4	Product Name		R = Right Hand
Digit 5,6,7	Unit Size 020, 030, 040, 050, 060, 080, 100, 120, 150 (9 sizes)	Digit 13	Filter Option 0 = Nylon Filter 1 = 1" Washable Filter 2 = 2" Washable Filter A = 1" Aluminum Filter B = Nylon Filter + 4" Secondary Filter C = 1" Washable Filter + 4" Secondary Filter D = 1" Aluminum Filter + 4" Secondary Filter
Digit 8	Airflow Code		
Digit 9	ESP Code 1 = 50 Pa 2 = 100 Pa 3 = 150 Pa 4 = 200 Pa 5 = 250 Pa 6 = 300 Pa 7 = 350 Pa	Digit 14	Humidifier Option 0 = No Humidifier Option 4 = 40% Efficiency Evaporative Humidifier 6 = 60% Efficiency Evaporative Humidifier
Digit 10	Cooling Option 4 = 4 Row Cooling Coil 6 = 6 Row Cooling Coil	Digit 15	Drain Pan Material G = Galvanized Steel S = Stainless Steel
Digit 11	Heating Option 0 = No Heating Option 1 = 1 Row Heating Coil 2 = 2 Row Heating Coil E = Electric Heating Option **	Digit 16	Factory Use
		Digit 17	Future Use
		Digit 18	Future Use
		Digit 19	Future Use
Digit 12	Connection Side L = Left Hand	Digit 20	Unit Type * A = Option Unit, with flexible options B = Basic Unit, with limited options

Remarks: * Unit Type A available configuration:
Filter + Heating Coil or Electric Heating + Cooling Coil +
Evaporative Humidifier + Fan

Unit Type B available configuration:
Filter (Digit 13: 0, 1, A) + Cooling Coil + Fan

** Electric Heating Capacity:

020 = 4 kW	080 = 16 kW
030 = 6 kW	100 = 20 kW
040 = 8 kW	120 = 24 kW
050 = 10 kW	150 = 30 kW
060 = 12 kW	





General Specification

Model			020	030	040	050	060	080	100	120	150
Nominal Airflow		CMH	2000	3000	4000	5000	6000	8000	10000	12000	15000
Min-Max Air Flow		CMH	1500-2500	2600-3500	3600-4500	4600-5500	6000-7000	7500-8500	9000-10000	10500-12000	13000-15000
Cooling Coil Header OD 4/6 Rows		in.	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/2" Steel	1-1/2" Steel	2" Steel	2" Steel	2" Steel	2" Steel
Drain Pipe Connection		in.	1"	1"	1"	1"	1"	1"	1"	1"	1"
Diameter of Tube		in.	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"
Fins Per Foot		fpf	156	156	156	156	156	144	144	144	144
Return Air	Chilled Water Coil 4 Rows EDB/EWB 27/19.5 C	kW	11.47	17.16	23.37	28.18	34.37	46.38	59.70	71.36	90.71
		L/S	0.55	0.82	1.11	1.34	1.64	2.21	2.85	3.4	4.32
		kPa	15.10	15	31.50	26.40	43.50	26	46	46.40	82.40
	Chilled Water Coil 6 Rows EDB/EWB 27/19.5 C	kW	13.36	22.01	28.28	35.81	43.86	59.97	75.09	89.82	113.07
		L/S	0.64	1.05	1.35	1.71	2.09	2.86	3.58	4.28	5.13
		kPa	9.70	34.70	21.60	20	33.10	61.10	105.60	106.10	62.80
Fresh Air	Chilled Water Coil 4 Rows EDB/EWB 35/28 C	kW	28.26	42.37	56.02	67.95	81.67	112.21	142.06	169.83	203.94
		L/S	1.35	2.02	2.67	3.24	3.89	5.35	6.77	8.1	9.72
		kPa	75.20	75.90	150.90	127.70	204.80	93.90	130.10	135.20	214.10
	Chilled Water Coil 6 Rows EDB/EWB 35/28 C	kW	32.86	51	66.81	84.66	101.93	137.74	171.09	204.72	259.44
		L/S	1.57	2.43	3.18	4.04	4.86	6.57	8.16	9.76	12.37
		kPa	48.30	155.40	101.70	93.90	150.80	153.80	255.20	263.80	178.80
1 Row Heating Coil Header OD		in.	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel
2 Rows Heating Coil Header OD		in.	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/4" Steel	1-1/2" Steel	1-1/2" Steel	1-1/2" Steel	1-1/2" Steel
EAT 7°C	Hot Water Coil 1 Row	kW	8.39	13.30	17.40	22.43	26.86	31.91	39.12	46.94	58.28
		L/S	0.20	0.32	0.42	0.54	0.64	0.76	0.94	1.12	1.40
		kPa	1.40	4.60	9.10	8.50	13.60	15.50	25.80	25.80	45.20
	Hot Water Coil 2 Rows	kW	16.35	25.20	32.83	42.12	50.23	58.37	71.73	86.07	106.93
		L/S	0.39	0.60	0.79	1.01	1.20	1.40	1.72	2.06	2.56
		kPa	8.60	27.40	53.40	49.80	79.10	13.00	21.80	21.90	38.30
EAT -4°C	Hot Water Coil 1 Row	kW	10.65	16.71	21.79	28.08	33.55	39.85	48.76	58.52	72.51
		L/S	0.26	0.4	0.52	0.67	0.8	0.95	1.17	1.4	1.74
		kPa	2.20	7.10	13.70	12.90	20.40	23.20	38.60	38.70	67.50
	Hot Water Coil 2 Rows	kW	20.34	31.2	40.59	52.06	62.03	72.6	89.06	106.87	132.53
		L/S	0.49	0.75	0.97	1.25	1.49	1.74	2.13	2.56	3.18
		kPa	12.70	40.20	78.20	73.00	115.70	19.40	32.30	32.5	56.70
Width		mm	1000	1400	1670	1670	1910	1910	2200	2200	2600
Height		mm	400	400	400	510	510	630	630	725	725
Length Type A		mm	1510	1510	1510	1620	1620	1830	1830	1830	1830
Length Type B		mm	990	990	990	1100	1100	1380	1380	1380	1380
Weight Type A (max)		kg	155	206	236	274	297	401	456	503	567
Weight Type B (max)		kg	95.21	126.18	141.73	169.34	189.81	284.92	312.95	344.77	400.02
Filter Qty & Size (Nominal)		mm	2x308x400	3x308x400	3x308x490	3x418x490	3x418x570	3x518x570	4x518x500	4x613x500	4x613x600

- Note:
1. Chilled Water Coil : EWT / LWT : 7/12°C
 2. Hot Water Coil : EWT/LWT : 60/50°C
 3. Return Air : EDB/EWB : 27/19.5°C
 4. Fresh Air : EDB/EWB : 35/28°C

Cooling Coil Performance Data

4 Rows Coil	Return Air Conditions : EDB/EWB : 27/19.5°C; EWT 7/LWT 12°C						
	Design Airflow	Cooling LDB	Cooling LWB	Total Cooling Capacity	Sensible Capacity	Cooling WFR	Cooling WPD
	CMH	°C	°C	kW	kW	L/s	kPa
LWHA 020	1500	13.7	13.0	9.42	6.83	0.45	10.6
	2000	14.5	13.6	11.47	8.53	0.55	15.1
	2500	15.3	14.2	13.2	10.04	0.63	19.3
LWHA 030	2600	14.1	13.4	15.58	11.44	0.74	12.6
	3000	14.6	13.7	17.16	12.77	0.82	15
	3500	15.1	14.0	18.95	14.32	0.9	17.9
LWHA 040	3600	14.1	13.3	21.88	15.86	1.04	28
	4000	14.5	13.5	23.37	17.13	1.11	31.5
	4500	14.9	13.8	25.1	18.64	1.2	35.7
LWHA 050	4600	14.7	13.6	26.74	19.41	1.27	24.1
	5000	15.0	13.8	28.18	20.62	1.34	26.4
	5500	15.3	14.0	29.87	22.06	1.42	29.3
LWHA 060	6000	14.9	13.7	34.37	24.91	1.64	43.5
	6500	15.2	13.9	36.06	26.34	1.72	47.3
	7000	15.4	14.1	37.66	27.73	1.8	51.2
LWHA 080	7500	14.1	13.4	44.53	33.15	2.12	24.3
	8000	14.3	13.6	46.38	34.8	2.21	26
	8500	14.5	13.7	48.15	36.4	2.3	27.6
LWHA 100	9000	13.7	13.1	55.86	40.97	2.66	41.7
	9500	13.9	13.2	57.82	42.68	2.76	43.9
	10000	14.0	13.4	59.7	44.34	2.85	46
LWHA 120	10500	13.6	13.1	65.58	48	3.13	40.9
	11000	13.8	13.2	67.57	49.72	3.22	42.8
	12000	14.1	13.4	71.36	53.07	3.4	46.4
LWHA 150	13000	13.5	12.9	82.91	60.05	3.95	75.8
	14000	13.8	13.1	86.92	63.48	4.14	79.3
	15000	14.0	13.3	90.71	66.81	4.32	82.4

6 Rows Coil	Return Air Conditions : EDB/EWB : 27/19.5°C; EWT 7/LWT 12°C						
	Design Airflow	Cooling LDB	Cooling LWB	Total Cooling Capacity	Sensible Capacity	Cooling WFR	Cooling WPD
	CMH	°C	°C	kW	kW	L/s	kPa
LWHA 020	1500	12.4	12.0	10.66	7.52	0.51	6.5
	2000	13.0	12.6	13.36	9.58	0.64	9.7
	2500	13.6	13.0	15.69	11.45	0.75	12.9
LWHA 030	2600	11.8	11.4	19.85	13.55	0.95	28.9
	3000	12.2	11.8	22.01	15.19	1.05	34.7
	3500	12.7	12.2	24.49	17.12	1.17	42
LWHA 040	3600	12.2	11.8	26.19	18.24	1.25	18.9
	4000	12.5	12.1	28.28	19.86	1.35	21.6
	4500	12.9	12.4	30.72	21.78	1.46	25.1
LWHA 050	4600	12.1	11.8	33.67	23.4	1.61	17.9
	5000	12.4	12.0	35.81	25.04	1.71	20
	5500	12.6	12.2	38.35	27.02	1.83	22.6
LWHA 060	6000	12.2	11.8	43.86	30.39	2.09	33.1
	6500	12.5	12.0	46.39	32.36	2.21	36.6
	7000	12.7	12.2	48.8	34.26	2.33	40.1
LWHA 080	7500	11.7	11.4	57.25	39.39	2.73	57.4
	8000	11.8	11.6	59.97	41.49	2.86	61.1
	8500	12.0	11.7	62.59	43.54	2.98	64.6
LWHA 100	9000	11.5	11.3	69.65	47.65	3.32	101.7
	9500	11.7	11.4	72.41	49.76	3.45	106.7
	10000	11.9	11.6	75.09	51.83	3.58	105.6
LWHA 120	10500	11.5	11.2	81.65	55.78	3.89	101
	11000	11.6	11.4	84.44	57.91	4.03	107.3
	12000	11.9	11.6	89.82	62.06	4.28	106.1
LWHA 150	13000	11.3	11.1	102.01	69.89	4.86	54.9
	14000	11.5	11.3	107.65	74.24	5.13	59
	15000	11.7	11.5	113.07	78.48	5.39	62.8

Note: Other design conditions can be generated from Trane Topss selection program



Cooling Coil Performance Data

4 Rows Coil	Fresh Air Conditions : EDB/EWB : 35/28°C; EWT 7/LWT 12°C						
	Design Airflow	Cooling LDB	Cooling LWB	Total Cooling Capacity	Sensible Capacity	Cooling WFR	Cooling WPD
	CMH	°C	°C	kW	kW	L/s	kPa
LWHA 020	1500	13.0	13.0	23.31	10.15	1.11	53.3
	2000	14.5	14.4	28.26	12.38	1.35	75.2
	2500	15.7	15.5	32.47	14.32	1.55	96.4
LWHA 030	2600	13.1	13.0	38.57	16.84	1.84	64.1
	3000	13.8	13.7	42.37	18.56	2.02	75.9
	3500	14.7	14.5	46.68	20.54	2.23	90.4
LWHA 040	3600	13.6	13.5	52.35	22.86	2.5	133.6
	4000	14.2	14.1	56.02	24.53	2.67	150.9
	4500	14.8	14.7	60.28	26.48	2.87	172.2
LWHA 050	4600	13.5	13.4	64.44	28.12	3.07	116.1
	5000	13.9	13.8	67.95	29.71	3.24	127.7
	5500	14.4	14.3	72.09	31.6	3.44	142.1
LWHA 060	6000	13.8	13.7	81.67	35.68	3.89	204.8
	6500	14.3	14.1	85.82	37.57	4.09	224
	7000	14.7	14.5	89.76	39.37	4.28	242.8
LWHA 080	7500	13.2	13.2	107.61	47.28	5.13	89.2
	8000	13.5	13.5	112.21	49.42	5.35	93.9
	8500	13.9	13.8	116.61	51.48	5.56	98.2
LWHA 100	9000	13.1	13.1	132.67	58.18	6.32	118.5
	9500	13.4	13.3	137.46	60.38	6.55	122.6
	10000	13.7	13.6	142.06	62.52	6.77	130.1
LWHA 120	10500	13.0	13.0	155.71	68.24	7.42	116.9
	11000	13.3	13.2	160.57	70.47	7.65	122.1
	12000	13.7	13.7	169.83	74.76	8.1	135.2
LWHA 150	13000	12.7	12.7	194.08	84.95	9.25	195.7
	14000	13.1	13.0	203.73	89.38	9.71	213.7
	15000	13.4	13.4	203.94	89.75	9.72	214.1

6 Rows Coil	Fresh Air Conditions : EDB/EWB : 35/28°C; EWT 7/LWT 12°C						
	Design Airflow	Cooling LDB	Cooling LWB	Total Cooling Capacity	Sensible Capacity	Cooling WFR	Cooling WPD
	CMH	°C	°C	kW	kW	L/s	kPa
LWHA 020	1500	13.0	13.0	26.5	11.49	1.26	32.8
	2000	14.5	14.4	32.86	14.29	1.57	48.3
	2500	15.7	15.5	38.45	16.77	1.83	63.9
LWHA 030	2600	13.1	13.0	45.83	19.87	2.18	128.3
	3000	13.8	13.7	51	22.13	2.43	155.4
	3500	14.7	14.5	56.99	24.76	2.72	189.6
LWHA 040	3600	14.0	13.9	61.84	26.84	2.95	88.4
	4000	14.0	13.8	66.81	29.03	3.18	101.7
	4500	15.3	15.0	72.67	31.62	3.46	118.3
LWHA 050	4600	13.5	13.4	79.58	34.53	3.79	84
	5000	13.9	13.8	84.66	36.76	4.04	93.9
	5500	14.4	14.3	90.72	39.43	4.32	106.4
LWHA 060	6000	13.8	13.7	101.93	44.24	4.86	150.8
	6500	14.3	14.1	108.01	46.92	5.15	167.4
	7000	14.7	14.5	113.85	49.5	5.43	184.2
LWHA 080	7500	13.2	13.2	131.23	56.96	6.26	140.9
	8000	13.5	13.5	137.74	59.81	6.57	153.8
	8500	13.9	13.8	144.02	62.58	6.87	166.6
LWHA 100	9000	13.1	13.1	158.19	68.63	7.54	221.6
	9500	13.4	13.3	164.73	71.5	7.85	238.4
	10000	13.7	13.6	171.09	74.3	8.16	255.2
LWHA 120	10500	13.0	13.0	185.35	80.39	8.84	220.4
	11000	13.3	13.2	191.97	83.31	9.15	234.8
	12000	13.7	13.7	204.72	88.92	9.76	263.8
LWHA 150	13000	13.5	13.4	232.99	100.96	11.11	146.9
	14000	13.9	13.8	246.47	106.92	11.75	162.8
	15000	13.9	13.8	259.44	112.71	12.37	178.8

Note: Other design conditions can be generated from Trane Topss selection program



Fan Performance Data

LWHA Type B: 1" Washable Filter, 4 Rows Cooling Coil and Fan																
4 Rows Coil	Esp		50		100		150		200		250		300		350	
	Air Flow	Esp Code	1		2		3		4		5		6		7	
	CMH	Air Flow Code	rpm	Motor	rpm	Motor	rpm	Motor	rpm	Motor	rpm	Motor	rpm	Motor	rpm	Motor
LWHA 020	1500	1	1041	0.55kW	1191	0.55kW	1328	0.55kW	1454	0.55kW	1571	0.55kW	1679	0.55kW	1779	0.55kW
	2000	2	1239	0.55kW	1357	0.55kW	1473	0.55kW	1582	0.55kW	1687	0.75kW	1789	0.75kW	1887	1.10kW
	2500	3	1481	0.75kW	1574	0.75kW	1669	1.10kW	1763	1.10kW	1854	1.10kW	1941	1.10kW	2029	1.10kW
LWHA 030	2600	1	1149	0.55kW	1308	0.55kW	1449	0.75kW	1576	0.75kW	1692	1.10kW	1792	1.10kW	1888	1.10kW
	3000	2	1255	0.55kW	1400	0.75kW	1532	0.75kW	1654	1.10kW	1766	1.10kW	1871	1.50kW	1969	1.50kW
	3500	3	1401	0.75kW	1529	1.10kW	1654	1.10kW	1765	1.50kW	1874	1.50kW	1973	1.50kW	2071	2.20kW
LWHA 040	3600	1	1268	0.75kW	1404	1.10kW	1531	1.10kW	1653	1.10kW	1764	1.50kW	1872	1.50kW	1975	1.50kW
	4000	2	1370	1.10kW	1493	1.10kW	1610	1.10kW	1724	1.50kW	1833	1.50kW	1935	2.20kW	2036	2.20kW
	4500	3	1507	1.50kW	1615	1.50kW	1725	1.50kW	1828	2.20kW	1929	2.20kW	2025	2.20kW	2118	2.20kW
LWHA 050	4600	1	843	1.10kW	937	1.10kW	1026	1.10kW	1105	1.10kW	1184	1.50kW	1259	1.50kW	1340	1.50kW
	5000	2	897	1.10kW	985	1.10kW	1069	1.10kW	1145	1.50kW	1219	1.50kW	1290	1.50kW	1360	2.20kW
	5500	3	968	1.10kW	1049	1.50kW	1127	1.50kW	1202	1.50kW	1271	2.20kW	1336	2.20kW	1402	2.20kW
LWHA 060	6000	1	956	1.10kW	1039	1.50kW	1115	1.50kW	1186	2.20kW	1258	2.20kW	1324	2.20kW	1386	2.20kW
	6500	2	1022	1.50kW	1099	2.20kW	1172	2.20kW	1240	2.20kW	1307	2.20kW	1370	2.20kW	1432	3.00kW
	7000	3	1090	2.20kW	1163	2.20kW	1231	2.20kW	1297	2.20kW	1359	3.00kW	1420	3.00kW	1479	3.00kW
LWHA 080	7500	1	794	1.50kW	865	1.50kW	937	1.50kW	1010	2.20kW	1085	2.20kW	1159	2.20kW	1229	3.00kW
	8000	2	845	1.50kW	910	1.50kW	978	2.20kW	1048	2.20kW	1116	2.20kW	1187	3.00kW	1253	3.00kW
	8500	3	899	2.20kW	959	2.20kW	1024	2.20kW	1089	2.20kW	1154	3.00kW	1220	3.00kW	1283	3.00kW
LWHA 100	9000	1	859	2.20kW	913	2.20kW	971	2.20kW	1029	2.20kW	1089	3.00kW	1151	3.00kW	1212	3.00kW
	9500	2	906	2.20kW	958	2.20kW	1012	3.00kW	1067	3.00kW	1125	3.00kW	1180	3.00kW	1239	3.00kW
	10000	3	956	3.00kW	1005	3.00kW	1056	3.00kW	1107	3.00kW	1160	3.00kW	1217	4.00kW	1272	4.00kW
LWHA 120	10500	1	662	2.20kW	724	2.20kW	782	2.20kW	840	2.20kW	895	3.00kW	951	3.00kW	1005	3.00kW
	11000	2	690	2.20kW	749	2.20kW	806	2.20kW	861	3.00kW	914	3.00kW	968	3.00kW	1019	4.00kW
	12000	3	751	3.00kW	806	3.00kW	859	3.00kW	909	3.00kW	960	4.00kW	1008	4.00kW	1056	4.00kW
LWHA 150	13000	1	708	3.00kW	765	3.00kW	818	3.00kW	869	3.00kW	918	4.00kW	965	4.00kW	1012	4.00kW
	14000	2	762	3.00kW	815	4.00kW	865	4.00kW	913	4.00kW	958	4.00kW	1003	5.50kW	1047	5.50kW
	15000	3	820	4.00kW	869	4.00kW	917	4.00kW	962	5.50kW	1005	5.50kW	1046	5.50kW	1088	5.50kW

LWHA Type B: 1" Washable Filter, 6 Rows Cooling Coil and Fan																
6 Rows Coil	Esp		50		100		150		200		250		300		350	
	Air Flow	Esp Code	1		2		3		4		5		6		7	
	CMH	Air Flow Code	rpm	Motor	rpm	Motor	rpm	Motor	rpm	Motor	rpm	Motor	rpm	Motor	rpm	Motor
LWHA 020	1500	1	1116	0.55kW	1260	0.55kW	1260	0.55kW	1515	0.55kW	1626	0.55kW	1731	0.55kW	1825	0.55kW
	2000	2	1331	0.55kW	1448	0.55kW	1559	0.55kW	1667	0.75kW	1767	0.75kW	1867	0.75kW	1956	1.10kW
	2500	3	1586	0.75kW	1680	1.10kW	1774	1.10kW	1864	1.10kW	1952	1.10kW	2037	1.50kW	2121	1.50kW
LWHA 030	2600	1	1263	0.55kW	1409	0.55kW	1538	0.75kW	1658	1.10kW	1763	1.10kW	1861	1.10kW	1950	1.50kW
	3000	2	1380	0.75kW	1513	0.75kW	1638	1.10kW	1752	1.10kW	1858	1.10kW	1955	1.50kW	2046	1.50kW
	3500	3	1541	1.10kW	1665	1.10kW	1777	1.50kW	1883	1.50kW	1982	1.50kW	2076	2.20kW	2168	2.20kW
LWHA 040	3600	1	1373	0.75kW	1503	1.10kW	1623	1.10kW	1742	1.50kW	1849	1.50kW	1951	1.50kW	2049	2.20kW
	4000	2	1483	1.10kW	1602	1.10kW	1714	1.50kW	1822	1.50kW	1927	2.20kW	2026	2.20kW	2119	2.20kW
	4500	3	1626	1.50kW	1734	1.50kW	1838	2.20kW	1936	2.20kW	2033	2.20kW	2127	2.20kW	2217	3.00kW
LWHA 050	4600	1	917	1.10kW	1007	1.10kW	1088	1.10kW	1166	1.10kW	1243	1.50kW	1322	1.50kW	1400	2.20kW
	5000	2	974	1.10kW	1058	1.10kW	1138	1.50kW	1209	1.50kW	1281	1.50kW	1351	2.20kW	1426	2.20kW
	5500	3	1051	1.50kW	1129	1.50kW	1202	1.50kW	1272	2.20kW	1338	2.20kW	1402	2.20kW	1466	2.20kW
LWHA 060	6000	1	1034	1.50kW	1110	1.50kW	1182	2.20kW	1253	2.20kW	1319	2.20kW	1383	2.20kW	1445	2.20kW
	6500	2	1102	2.20kW	1176	2.20kW	1244	2.20kW	1309	2.20kW	1373	2.20kW	1435	3.00kW	1492	3.00kW
	7000	3	1176	2.20kW	1244	2.20kW	1308	3.00kW	1369	3.00kW	1431	3.00kW	1490	3.00kW	1545	3.00kW
LWHA 080	7500	1	876	1.50kW	949	1.50kW	1022	2.20kW	1097	2.20kW	1169	2.20kW	1238	3.00kW	1306	3.00kW
	8000	2	928	2.20kW	997	2.20kW	1066	2.20kW	1137	2.20kW	1205	3.00kW	1273	3.00kW	1336	3.00kW
	8500	3	985	2.20kW	1051	2.20kW	1115	3.00kW	1181	3.00kW	1245	3.00kW	1311	3.00kW	1371	4.00kW
LWHA 100	9000	1	925	2.20kW	981	2.20kW	1041	2.20kW	1103	3.00kW	1163	3.00kW	1224	3.00kW	1286	3.00kW
	9500	2	974	2.20kW	1028	3.00kW	1085	3.00kW	1140	3.00kW	1199	3.00kW	1258	4.00kW	1315	4.00kW
	10000	3	1025	3.00kW	1077	3.00kW	1129	3.00kW	1184	3.00kW	1238	4.00kW	1293	4.00kW	1350	4.00kW
LWHA 120	10500	1	734	2.20kW	793	2.20kW	848	3.00kW	904	3.00kW	959	3.00kW	1015	3.00kW	1068	4.00kW
	11000	2	763	2.20kW	820	3.00kW	875	3.00kW	927	3.00kW	981	3.00kW	1033	4.00kW	1086	4.00kW
	12000	3	828	3.00kW	881	3.00kW	930	3.00kW	979	4.00kW	1029	4.00kW	1077	4.00kW	1124	5.50kW
LWHA 150	13000	1	774	3.00kW	827	3.00kW	878	4.00kW	926	4.00kW	972	4.00kW	1019	4.00kW	1065	5.00kW
	14000	2	832	4.00kW	881	4.00kW	927	4.00kW	973	4.00kW	1017	5.50kW	1061	5.50kW	1102	5.00kW
	15000	3	891	4.00kW	938	5.50kW	982	5.50kW	1023	5.50kW	1067	5.50kW	1108	5.50kW	1147	7.50kW

Note: Other design conditions can be generated from Trane Topss selection program

Humidifiers Performance Data

LWHA Evaporative Humidifier Capacity

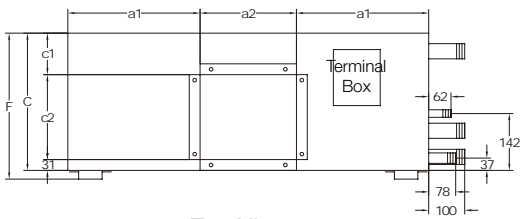
Unit	Airflow	Fresh Air 28C DB / RH 10% kg/h		Mixed Air 28C DB / RH 25% kg/h	
		40%	60%	40%	60%
LWHA	m³/h				
020	2000	5.5	9.0	4.5	7.4
030	3000	8.3	13.6	6.8	11.1
040	4000	11.1	18.1	9.1	14.8
050	5000	13.8	22.6	11.3	18.5
060	6000	16.6	27.1	13.6	22.2
080	8000	22.1	36.2	18.1	29.6
100	10000	27.7	45.2	22.7	37.0
120	12000	33.2	54.2	27.2	44.4
150	15000	41.5	67.8	34.0	55.5

* Evaporative humidifier for LWHA is designed for comfort air conditioning application only

Dimensions

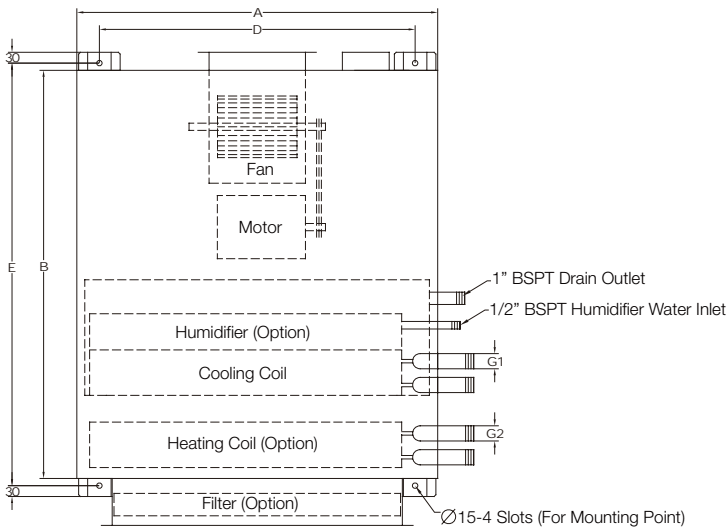
Type A - 020

Front View

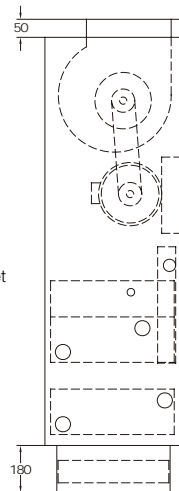


Model	A	B	C	D	E	F	G1		G2	
							4Row	6Row	1Row	2Row
020	1000	1280	380	875	1320	400	1-1/4"	1-1/4"	1-1/4"	1-1/4"

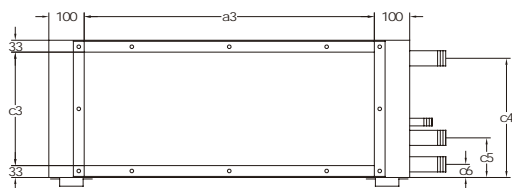
Top View



Side View



Rear View



Model	a1	a2	a3	c1	c2	c3	c4	c5	c6	
									1Row	2Row
020	368	265	800	116	233	314	330	110	59	46

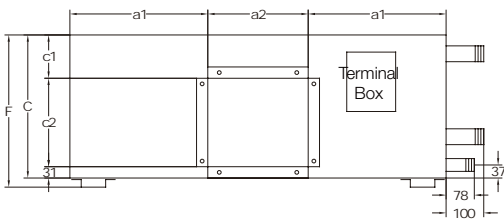
Note: The width of flange hem is 30mm

Note: The unit of filter & pipe inlet/outlet are inch, the others are mm.

Dimensions

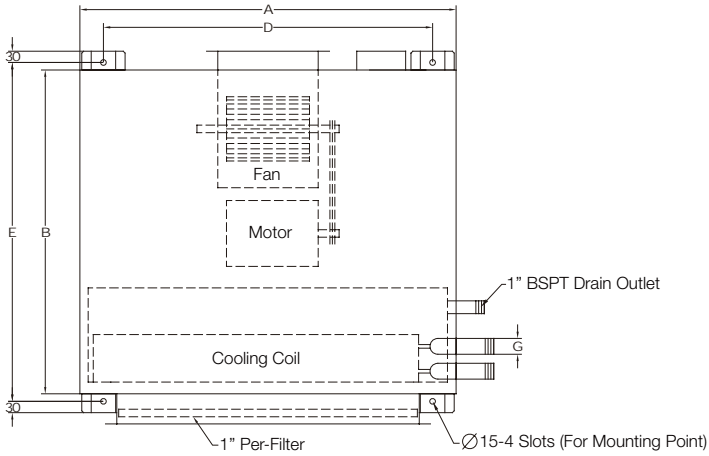
Type B - 020

Front View

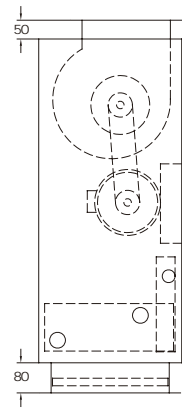


Model	A	B	C	D	E	F	G	
							4Row	6Row
020	1000	860	380	875	900	400	1-1/4"	1-1/4"

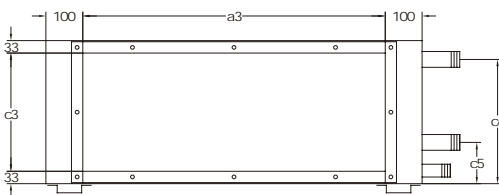
Top View



Side View



Rear View



Model	a1	a2	a3	c1	c2	c3	c4	c5
020	368	265	800	116	233	314	330	110

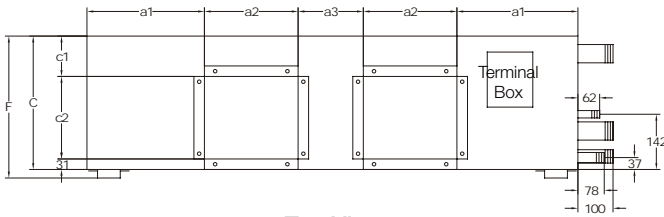
Note: The width of flange hem is 30mm

Note: The unit of filter & pipe inlet/outlet are inch, the others are mm.

Dimensions

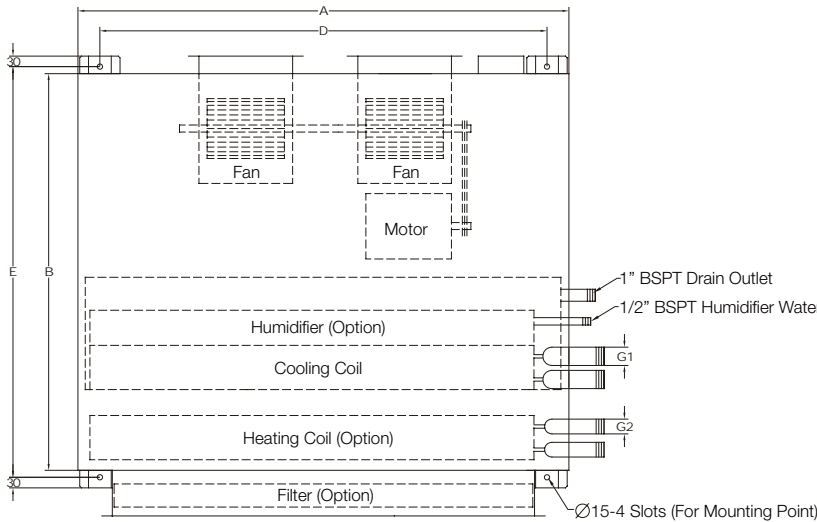
Type A - 030,040,050,060

Front View

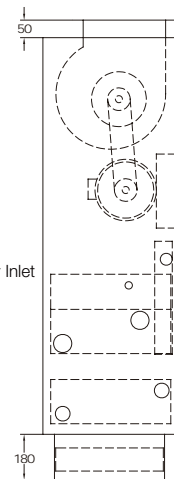


Model	A	B	C	D	E	F	G1		G2	
							4Row	6Row	1Row	2Row
030	1400	1280	380	1275	1320	400	1-1/4"	1-1/4"	1-1/4"	1-1/4"
040	1670	1280	380	1545	1320	400	1-1/4"	1-1/4"	1-1/4"	1-1/4"
050	1670	1390	490	1545	1430	510	1-1/2"	1-1/2"	1-1/4"	1-1/4"
060	1910	1390	490	1785	1430	510	1-1/2"	1-1/2"	1-1/4"	1-1/4"

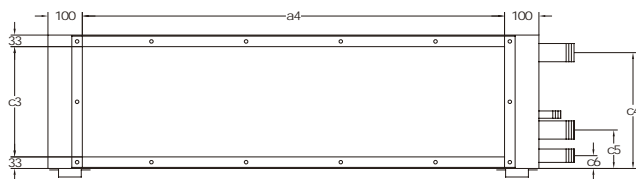
Top View



Side View



Rear View



Model	a1	a2	a3	a4	c1	c2	c3	c4	c5	c6	
										1Row	2Row
030	346	265	178	1200	116	233	314	330	110	59	46
040	481	265	178	1470	116	233	314	330	110	59	46
050	460	271	208	1470	165	294	424	434	115	63	50
060	580	271	208	1710	165	294	424	434	115	63	50

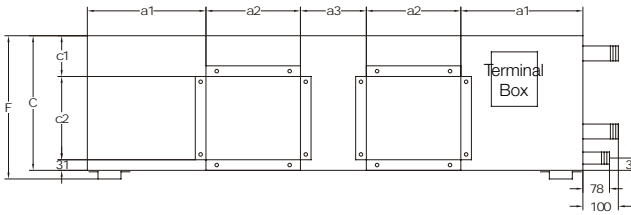
Note: The unit of filter & pipe inlet/outlet are inch, the others are mm.

Note: The width of flange hem is 30mm

Dimensions

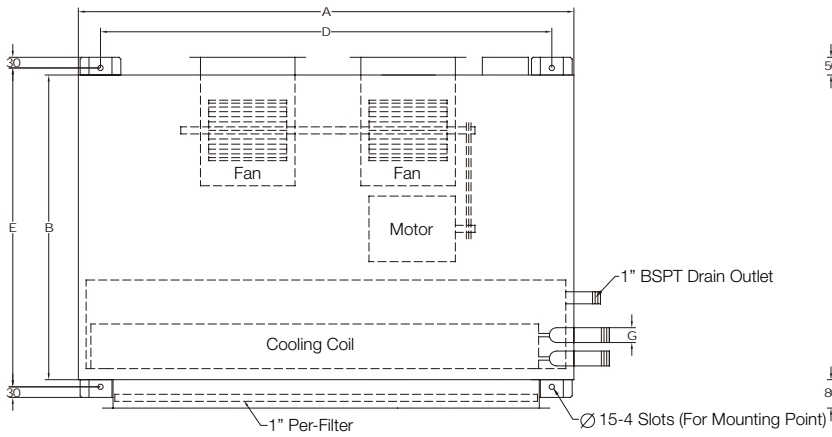
Type B - 030,040,050,060

Front View

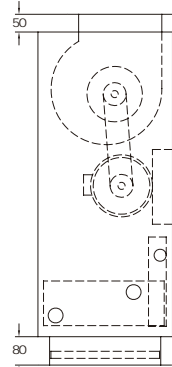


Model	A	B	C	D	E	F	G	
							4Row	6Row
030	1400	860	380	1275	900	400	1-1/4"	1-1/4"
040	1670	860	380	1545	900	400	1-1/4"	1-1/4"
050	1670	970	490	1545	1010	510	1-1/2"	1-1/2"
060	1910	970	490	1785	1010	510	1-1/2"	1-1/2"

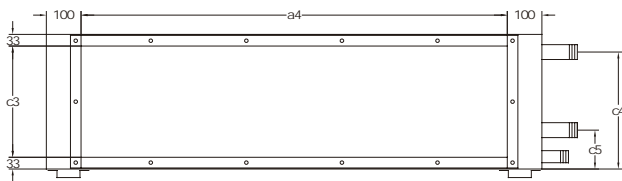
Top View



Side View



Rear View



Model	a1	a2	a3	a4	c1	c2	c3	c4	c5
030	346	265	178	1200	116	233	314	330	110
040	481	265	178	1470	116	233	314	330	110
050	460	271	208	1470	165	294	424	434	115
060	580	271	208	1710	165	294	424	434	115

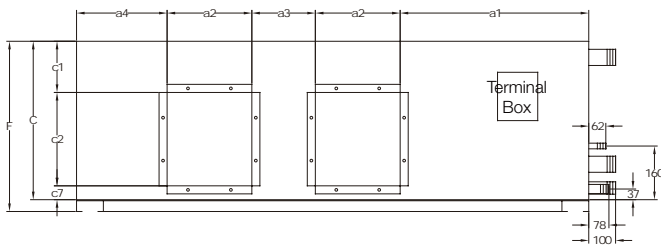
Note: The width of flange hem is 30mm

Note: The unit of filter & pipe inlet/outlet are inch, the others are mm.

Dimensions

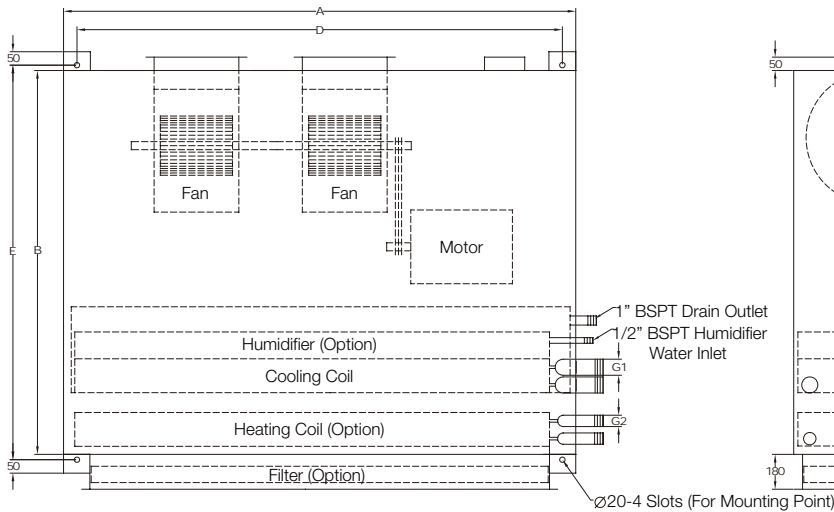
Type A - 080,100,120,150

Front View

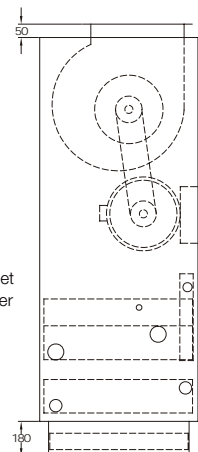


Model	A	B	C	D	E	F	G1		G2	
							4Row	6Row	1Row	2Row
080	1910	1600	590	1810	1640	630	2"	2"	1-1/4"	1-1/2"
100	2200	1600	590	2100	1640	630	2"	2"	1-1/4"	1-1/2"
120	2200	1600	685	2100	1640	725	2"	2"	1-1/4"	1-1/2"
150	2600	1600	685	2500	1640	725	2"	2"	1-1/4"	1-1/2"

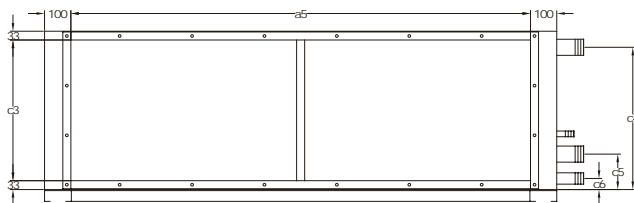
Top View



Side View



Rear View



Model	a1	a2	a3	a4	a5	c1	c2	c3	c4	c5	c6		c7
											1Row	2Row	
080	705	313	240	339	1710	192	346	524	530	130	62	52	52
100	850	313	240	484	2000	192	346	524	530	130	62	52	52
120	772	377	290	384	2000	217	408	619	625	130	58	48	60
150	972	377	290	584	2400	217	408	619	625	130	58	48	60

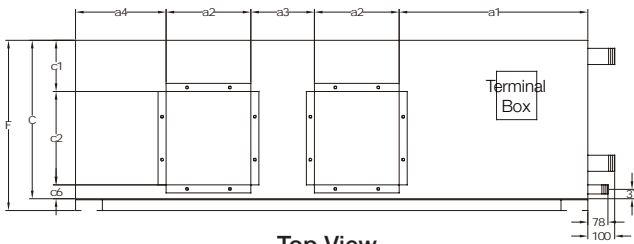
Note: The width of flange hem is 30mm

Note: The unit of filter & pipe inlet/outlet are inch, the others are mm.

Dimensions

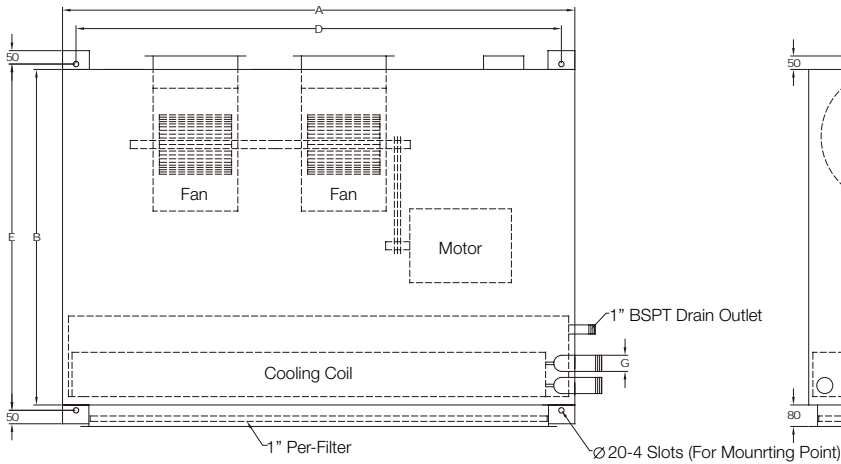
Type B - 080,100,120,150

Front View

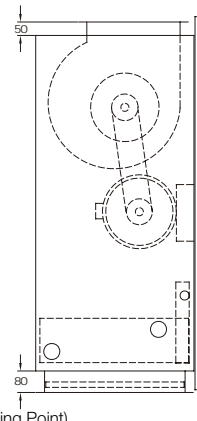


Model	A	B	C	D	E	F	G	
							4Row	6Row
080	1910	1250	590	1810	1290	630	2"	2"
100	2200	1250	590	2100	1290	630	2"	2"
120	2200	1250	685	2100	1290	725	2"	2"
150	2600	1250	685	2500	1290	725	2"	2"

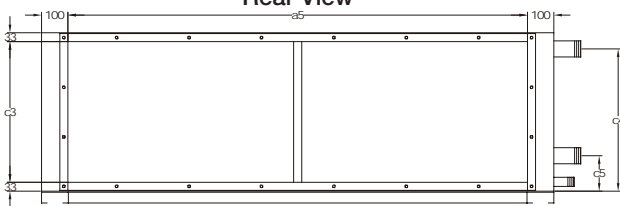
Top View



Side View



Rear View



Model	a1	a2	a3	a4	a5	c1	c2	c3	c4	c5	c6
080	705	313	240	339	1710	192	346	524	530	130	52
100	850	313	240	484	2000	192	346	524	530	130	52
120	772	377	290	384	2000	217	408	619	625	130	60
150	972	377	290	584	2400	217	408	619	625	130	60

Note: The unit of filter & pipe inlet/outlet are inch, the others are mm.

Note: The width of flange hem is 30mm



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Date May 2010

Supersedes March 2009

Trane has a policy of continuous product and data improvement and reserves the right to change design specifications without notice.