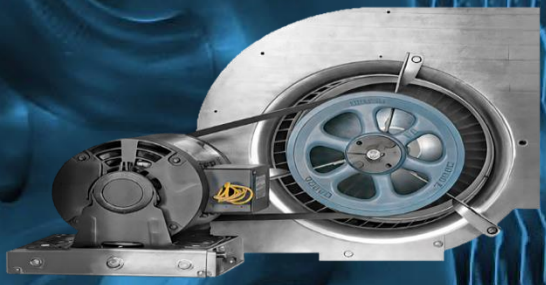
SunTherm™
HEATING PRODUCTS

Optional Direct Drive Blower Assembly

Standard Belt Drive Blower Assembly



A2L COMPLIANT

Vertical Single or Double Wall Belt Drive Air Handler

DX or Chilled Water Cooling / Hot Water, Steam or Electric Heat

Standard Features

- Heavy gauge galvanized steel cabinet and doors.
- High-performance constant torque blower design.
- Galvanized steel blower wheels and housings.
- CFM Range 600 to 4,000 CFM. Maximum static pressure 2”TSP.
- Fully insulated cabinet and door with 2” insulation.
- Single Phase control transformer can be either 115VAC or 208/240 VAC or 277 VAC 1 PH 60 Hz with a 24 VAC 1 PH 60 HZ secondary.
- Three Phase control Transformer can be either 208/230 VAC or 460 VAC 3PH/60Hz primary with a 24 VAC 1PH 60Hz 40VA secondary.
- Blower Motors are either 115/230VAC/1PH/60HZ, 277VAC/1PH/60HZ or 208/230/460VAC/3PH/60HZ.
- Secondary circuit of the transformer is grounded per UL60335-2-40 requirements.
- Both sides of cabinet include gasketed service access panels.
- Meets ASHRAE standard 193 low leak requirements.
- Primary and secondary condensate pan drain connections.
- Easy access for service and maintenance.
- High efficiency copper tube and aluminum fin coils that are pressure tested to 500 PSI underwater. Coils are UL listed.
- Electric heat available for installation in the discharge or the entering air opening of the air handler.
- For use in elevations of 10,000 ft (3,047m) or less.

COMMERCIA AIRE PRODUCTS™

Vertical Single or Double Wall Belt Drive Air Handler

DX or Chilled Water Cooling / Hot Gas or Steam Heat (Steam Line Pressure 2-15 PSI Max)

Description:

This package air handler provides the flexibility for installation in a vertical application. The versatile models may be used with or without hot water heat, steam heat, hot gas or electric water heat. The air handler is designed for indoor use. The evaporator coil may be connected to a chilled water supply, a DX condenser for cooling operation or a heat pump. The unit is factory supplied with a belt drive blower and motor that can be field adjusted for desired CFM.

These units are ETL listed. NOTE: Refer to the instructions for additional information..

Air Handler Electrical Specifications

Baldor Motor	Leeson Motor	HP	PH	Motor Amps					Start/Stop and Transformer					MCA					MOP				
Model Number	Model Number			120V	208V	240V	480V	277V	120V	208V	240V	480V	277V	120V	208V	240V	480V	277V	120V	208V	240V	480V	277V
RSP2442A	191869	0.33	1	6.8					0.88					7.89					15				
RSL1301A277	102964	0.33	1					2.8					0.52					3.5					15
RSL1304A277	102965	0.50	1					3.7					0.52					4.4					15
RSL1307A277	102966	0.75	1					4.5					0.52					5.2					15
RSL1310A277	116599	1.0	1					5.4					0.52					6.1					15
RSL1319A277	116600	1.5	1					6.0					0.52					6.7					15
RL1301A	100109	0.25	1	5.8	3.2	2.9			0.88	0.62	0.58			6.89	4.0	3.6			15	15	15		
RL1306A	100010	0.33	1	7.2	4.0	3.6			0.88	0.62	0.58			8.29	4.8	4.3			15	15	15		
RL1304A	100011	0.50	1	9.8	5.4	4.9			0.88	0.62	0.58			10.89	6.2	5.6			15	15	15		
RL1307A	100012	0.75	1	13.8	7.6	6.9			0.88	0.62	0.58			14.89	8.4	7.6			20	15	15		
RL1310A	100007	1.0	1	16.0	8.8	8.0			0.88	0.62	0.58			17.09	9.6	8.7			20	15	15		
L1319T	120004	1.5	1	20.0	11.0	10.0			0.88	0.62	0.58			21.09	11.8	10.7			25	15	15		
L1322T	120067	2.0	1	24.0	13.2	12.0			0.88	0.62	0.58			25.09	14.0	12.7			30	15	15		
L1408T	131530	3.0	1	34.0	18.7	17.0			0.88	0.62	0.58			35.09	19.5	17.7			40	25	20		
RHM244A	101520	0.33	3		1.3	1.2	0.6			0.62	0.58	0.41			2.1	1.9	1.1			15	15	15	
EM31108	100796	0.50	3		2.2	2.0	1.0			0.62	0.58	0.41			3.0	2.7	1.5			15	15	15	
M3542	100908	0.75	3		3.1	2.8	1.4			0.62	0.58	0.41			3.9	3.5	1.9			15	15	15	
EM3116T-G	111311	1.0	3		4.0	3.6	1.8			0.62	0.58	0.41			4.8	4.3	2.3			15	15	15	
EM3154T-G	113846	1.5	3		5.7	5.2	2.6			0.62	0.58	0.41			6.5	5.9	3.1			15	15	15	
EM3157T-G	113847	2.0	3		7.5	6.8	3.4			0.62	0.58	0.41			8.3	7.5	3.9			15	15	15	
EM3211	131519	3.0	3		10.6	9.6	4.8			0.62	0.58	0.41			11.4	10.3	5.3			15	15	15	
EM3218T	131520	5.0	3		16.7	16.2	16.2			0.62	0.58	0.41			17.5	16.9	8.1			20	20	15	
EM3311T	140470	7.5	3		24.0	22.0	11.0			0.62	0.58	0.41			24.8	22.7	11.5			30	25	15	
EM3313T	140472	10.0	3		31.0	28.0	14.0			0.62	0.58	0.41			31.8	28.7	14.5			35	30	15	
EM3218T-G	131520	5.0	3		16.7	16.2	15.2			0.62	0.58	0.41			17.5	16.9	15.7			20	20	20	
EM3311T-G	140470	7.5	3		24.0	22.0	11.0			0.62	0.58	0.41			24.8	22.7	11.5			30	25	15	
EM3313T-G	140472	10.0	3		31.0	28.0	14.0			0.62	0.58	0.41			31.8	28.7	14.5			35	30	15	
NM3538	103018	0.50	3		2.1	1.8	0.9			0.62	0.58	0.41			2.9	2.5	1.4			15	15	15	
RL645A	110579	1.5	1	18.2		9.1			0.88		0.58			19.3		9.8			20		15		
NM3542	116738	0.75	3		2.28	2.4	1.14			0.62	0.58	0.41			3.1	3.1	1.7			15	15	15	
EM3611T	131463	3.0	3		9.0	8.4	4.2			0.62	0.58	0.41			9.8	9.1	1.7			15	15	15	
L1405T	131535	2.0	1	24.0	12.6	12.0			0.88	0.62	0.58			25.09	13.4	12.7			30	20	20		
L1410T	151537	5.0	1		23.0	21.0				0.62	0.58				23.8	21.7				30	30		
EM3710T	140460	7.5	3		20.0	19.0	9.5			0.62	0.58	0.41			20.8	19.7	10.0			30	25	15	

Hot Water Heat Information

24-V*H-1 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
600	1.9	0.6	18.9	78.5	1.7	0.5	16.7	85.6
800	2.3	0.9	22.2	75.0	2.0	0.7	19.6	82.5
1,000	2.6	1.1	24.9	72.5	2.3	0.8	22.0	80.3

24-V*H-2 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
600	3.8	2.4	37.0	105.7	3.4	1.9	33.0	110.7
800	4.6	1.4	44.5	100.3	4.1	1.1	39.8	105.8
1,000	5.2	1.9	51.1	96.2	4.7	1.5	45.6	102.0

90-V*H-2 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
2,500	15.7	2.1	152.7	106.2	13.9	4.1	135.2	109.8
3,000	17.4	2.6	169.5	101.0	15.4	2.0	150.0	106.1
3,500	18.9	3.0	184.4	97.6	16.7	2.4	163.2	103.0

36-V*H-1 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
900	4.9	1.6	47.9	98.1	4.4	1.3	42.8	100.8
1,200	5.8	2.3	56.9	92.9	5.2	4.8	50.8	99.0
1,500	6.6	3.0	64.6	88.9	5.9	2.4	57.7	96.4

36-V*H-2 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
900	2.4	4.0	23.6	73.7	2.1	0.8	20.8	89.3
1,200	2.8	1.3	27.4	70.6	2.5	1.0	24.2	78.5
1,500	3.1	1.6	30.5	68.4	2.8	1.3	26.9	76.5

120-V*H-2 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
3,000	18.2	2.7	177.7	103.5	16.1	2.1	157.4	108.3
4,000	21.4	3.7	208.4	97.1	16.9	2.9	184.4	102.5
5,000	24.0	4.7	263.7	92.2	21.2	3.7	206.1	98.1

48-V*H-1 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
1,400	3.3	1.8	32.5	71.0	2.9	1.4	28.4	78.7
1,600	3.6	2.1	34.7	69.6	3.1	1.6	30.2	77.4
1,800	3.8	2.3	36.6	68.4	3.3	1.7	31.9	76.3

48-V*H-2 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
1,400	7.3	3.4	70.8	96.7	6.4	2.7	62.9	101.4
1,600	7.8	3.9	76.5	93.2	7.0	3.1	67.9	99.1
1,800	8.4	1.2	81.8	91.0	7.4	3.5	72.6	97.1

60-V*H-1 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
1,800	4.3	1.0	41.8	71.0	3.7	2.1	36.5	78.7
2,000	4.5	1.2	44.0	69.9	3.9	2.3	38.4	77.7
2,200	4.7	1.3	46.0	68.9	4.1	1.0	40.1	36.8

60-V*H-2 ROW Hot Water Heating

CFM	50.0°F EDB				60.0°F EDB			
	DPM	WPD	TMBH	LDB	DPM	WPD	TMBH	LDB
1,800	9.3	1.3	91.0	96.7	8.3	1.0	80.8	101.4
2,000	9.9	1.4	96.8	93.7	8.8	1.1	85.9	99.6
2,200	10.5	1.6	102.2	92.0	9.3	1.3	90.7	98.0

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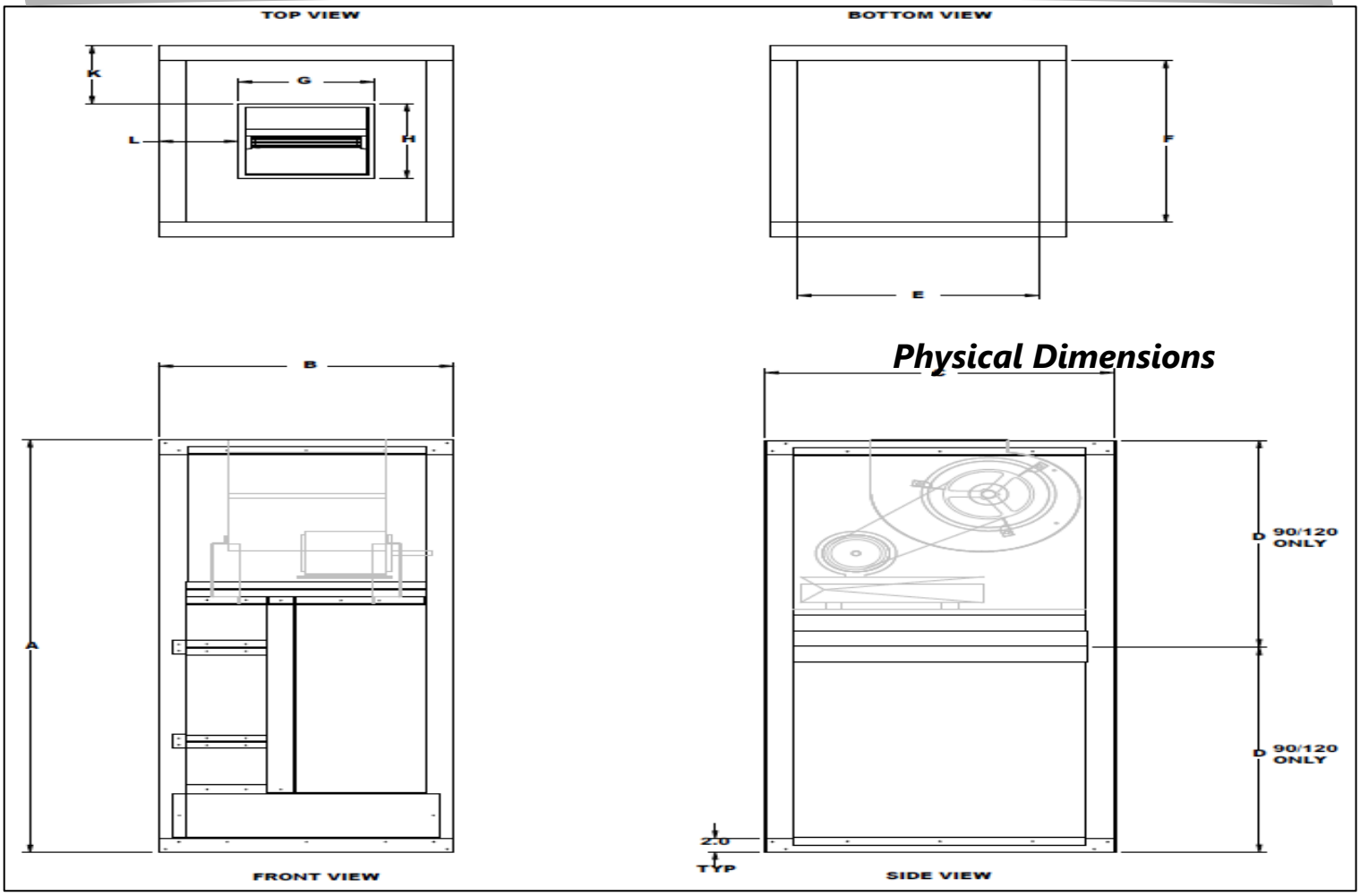

Physical Dimensions

Dimension Table

Unit Size	A	B	C	D	E	F	G	H	J	K	L
24	56.00	22.00	26.00	N/A	18.00	22.00	9.13	11.13	6.75	7.88	5.88
36	56.00	22.00	26.00	N/A	18.00	22.00	12.69	11.13	6.75	7.88	5.88
48	64.00	30.00	26.00	N/A	26.00	22.00	14.00	12.25	7.44	7.50	9.50
60	64.00	30.00	26.00	N/A	26.00	22.00	16.50	14.50	7.75	5.50	7.50
90-120	75.00	52.00	30.00	37.00	48.00	26.00	19.50	16.75	10.13	7.00	18.00

Chilled Water and DX Cooling Information

Chilled water and DX cooling tables can be found in the *CAP Vertical Air Handler Specification Sheet*.

Field Installed Accessories

- Electric Heat Duct Heater Kits
- Return Air mixing Box
- 4" Pleated Air Filters

Factory Installed Accessories

- Air Filter Rack for 2" or 4" Air Filters.