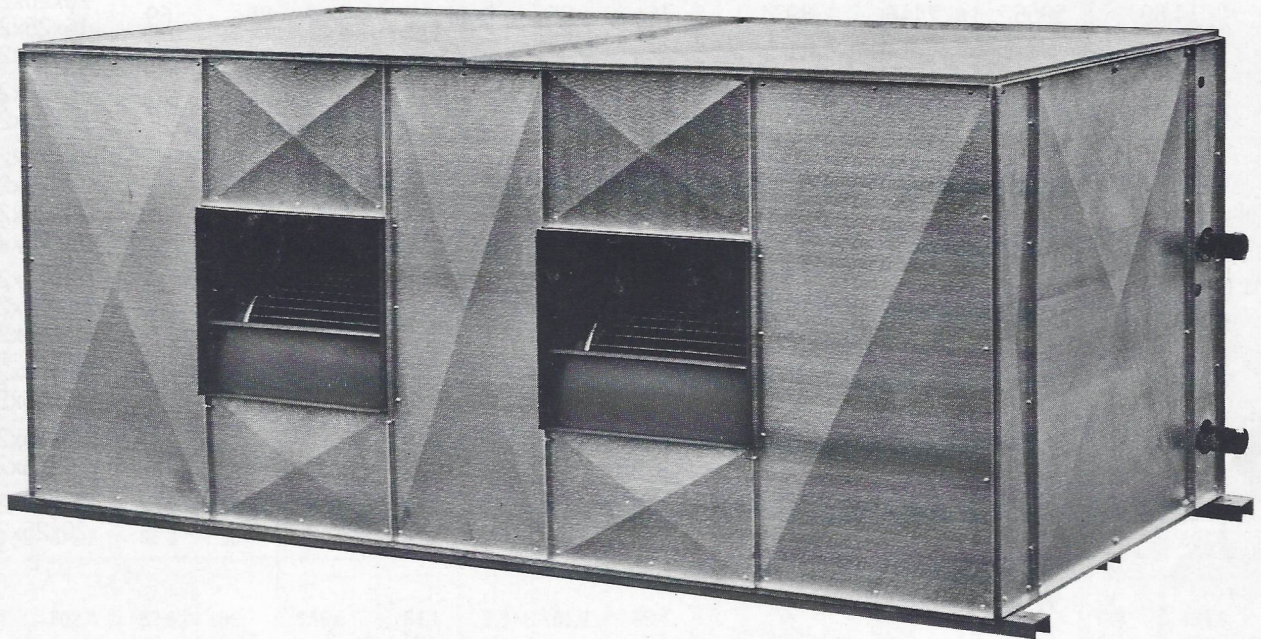


# RUSSELL

COIL COMPANY

RUSSELL  
AIR HANDLING  
UNITS



Russell Air Handling Units are available with cooling capacities from 5 to 90 tons, using any of the currently common refrigerants or chilled water and for heating with either hot water or steam — any one in conjunction with the other to a coil depth of 12 rows.

Russell Air Handling Units feature all aluminum housing construction. The use of considerable heavy gauge heli-arc welded aluminum channel not only provides more than adequate strength, but contributes to easier handling because of the much lighter weight involved.

Expansion valves or hand valves are not provided on any Russell coils. Variable

pitch sheaves are standard up to and including Model 2444. On larger models, variable pitch sheaves are optional, at additional cost.

Other optional accessories are available, such as low-velocity filter sections, mixing boxes and face and by-pass dampers. Please consult factory on such optional items.

On the pages following are found capacity data, plus factors for calculating capacities at conditions different from those shown in capacity tables on page 3 — all designed to enable you to select very quickly the correct components to fit your application specifically.



# GENERAL SPECIFICATIONS

Model	Coil Face Area Sq. Ft.	CFM Req'd. 400 FPM	CFM Req'd. 500 FPM	CFM Req'd. 600 FPM	HOUSING SIZES — INCHES						Flat Filter Sizes	Quantity
					Vertical			Horizontal				
					H	W	D	H	W	D		
1536	3.75	1500	1875	2250	54	47	36	25	47	60	16x20x2	2
1844	5.50	2200	2750	3300	61	60	40	29	60	64	20x20x2 20x25x2	1 1
2444	7.33	2932	3665	4398	72	60	44	34	60	68	20x25x2 25x25x2	1 1
2466	11.00	4400	5500	6600	72	78	48	34	78	74	20x25x2 25x25x2	2 1
3365	14.89	5956	7445	8934	76	85	44	42	85	69	16x20x2 20x20x2 16x25x2 20x25x2	2 2 1 1
3380	18.33	7332	9165	10998	81	96	48	42	96	74	16x20x2 20x20x2	4 4
3688	22.00	8800	11000	13200	84	106	48	45	106	74	16x20x2 16x25x2 20x20x2 20x25x2	2 2 2 2
4288	25.60	10240	12800	15360	90	106	48	51	106	74	25x20x2 20x20x2 25x25x2	4 2 2
4888	29.30	11720	14650	17580	107	106	56	56	106	82	20x25x2 25x25x2	4 4
48110	36.60	14640	18300	21960	112	125	64	56	125	89	20x25x2 25x25x2	6 4
60105	43.75	17500	21875	26250	124	125	64	69	125	89	20x20x2 20x25x2	12 3

## TO ORDER SPECIFY:

1. Air Handler Model
2. Horizontal or Vertical
3. Coil or coils by rows deep
  - (a) Refrigerant — R12, R22, R500
  - (b) Water cooling
  - (c) Water heating
  - (d) Steam
4. CFM and total external static
5. Front, top or rear air discharge
6. While facing air inlet side of unit, specify:
  - (a) Right or left-hand motor connections
  - (b) Right or left-hand coil and drain connections



# RUSSELL AIR HANDLING UNIT CAPACITIES \*

MODEL	ROWS DEEP	DX COILS 40° REFRIGERANT 80° D.B., 67° W.B. ENT. AIR			H <sub>2</sub> O COOLING COILS H <sub>2</sub> O IN 45°, OUT 53° 80° D.B., 67° W.B. ENT. AIR					ROWS DEEP	H <sub>2</sub> O HEATING COILS 60° D.B. ENT. AIR WATER 200° IN, 180° OUT				ROWS DEEP	STANDARD STEAM COILS 50° F. D.B. ENT. AIR 5 LBS. STEAM	
		MBTU PER HOUR	LV. D.B. °F.	LV. W.B. °F.	MBTU PER HOUR	GPM REQ'D.	COIL PRESS. LOSS FT. H <sub>2</sub> O	LV. D.B. °F.	LV. W.B. °F.		MBTU PER HOUR	GPM REQ'D.	COIL PRESS. LOSS FT. H <sub>2</sub> O	LV. D.B. °F.		MBTU PER HOUR	LV. D.B. °F.
1536	4	61.8	59.6	56.7	52.5	13.1	3.2	61.2	58.4	1	69.4	7.0	3.4	94	1	87.6	94
	6	81.7	54.2	52.9	72.0	18.0	1.5	55.3	54.8	2	114.4	11.5	2.0	116			
	8	93.7	51.0	50.4	84.3	21.1	2.2	52.8	52.2	3	159.4	15.9	3.2	138			
										4	188.3	18.8	6.1	152			
1844	4	90.7	59.6	56.7	77.0	19.2	5.1	61.2	58.4	1	101.8	10.2	4.0	94	1	132.0	94
	6	120.0	54.2	52.9	105.6	26.4	2.1	55.3	54.8	2	167.8	16.8	6.0	116			
	8	137.5	51.0	50.4	123.7	30.9	3.1	52.8	52.2	3	233.8	23.4	8.5	138			
										4	276.0	27.6	9.0	152			
2444	4	121.0	59.6	56.7	102.6	25.6	2.5	61.2	58.4	1	135.6	13.6	3.0	94	1	176.0	94
	6	160.0	54.2	52.9	140.7	35.2	6.0	55.3	54.8	2	223.6	22.4	2.0	116			
	8	183.2	51.0	50.4	164.9	41.2	3.7	52.8	52.2	3	311.5	31.2	5.7	138			
										4	368.0	36.8	9.3	152			
2466	4	181.5	59.6	56.7	154.0	38.5	2.2	61.2	58.4	1	203.5	20.4	7.5	94	1	264.0	94
	6	239.8	54.2	52.9	211.2	52.8	6.2	55.3	54.8	2	335.5	33.6	5.4	116			
	8	275.0	51.0	50.4	247.5	61.9	2.0	52.8	52.2	3	467.5	46.8	2.0	138			
										4	552.2	55.2	4.0	152			
3365	4	245.6	59.6	56.7	208.4	52.1	4.1	61.2	58.4	1	275.5	27.6	1.5	94	1	357.3	94
	6	324.6	54.2	52.9	285.9	71.5	5.3	55.3	54.8	2	454.5	45.5	3.8	116			
	8	372.2	51.0	50.4	335.0	83.8	9.0	52.8	52.2	3	632.8	63.3	2.4	138			
										4	747.5	74.8	3.9	152			
3380	4	302.4	59.6	56.7	256.6	64.1	3.3	61.2	58.4	1	339.1	33.9	2.0	94	1	439.9	94
	6	399.6	54.2	52.9	351.9	88.0	9.3	55.3	54.8	2	559.1	55.9	1.5	116			
	8	458.2	51.0	50.4	412.4	103.1	2.5	52.8	52.2	3	779.0	77.9	3.7	138			
										4	920.0	92.0	6.4	152			
3688	4	363.0	59.6	56.7	308.0	77.0	3.9	61.2	58.4	1	407.0	40.7	2.5	94	1	528.0	94
	6	480.0	54.2	52.9	422.4	105.6	11.6	55.3	54.8	2	671.0	67.1	1.8	116			
	8	550.0	51.0	50.4	495.0	123.7	3.1	52.8	52.2	3	935.0	93.5	4.9	138			
										4	1104.4	110.5	8.0	152			
4288	4	422.4	59.6	56.7	358.4	89.6	3.9	61.2	58.4	1	473.6	47.4	2.5	94	1	615.0	94
	6	558.0	54.2	52.9	491.5	122.9	11.6	55.3	54.8	2	780.8	78.1	1.8	116			
	8	640.0	51.0	50.4	576.0	144.0	3.1	52.8	52.2	3	1088.0	108.8	4.9	138			
										4	1285.0	128.5	8.0	152			
4888	4	483.4	59.6	56.7	410.2	102.5	3.9	61.2	58.4	1	542.1	54.2	2.5	94	1	703.2	94
	6	638.7	54.2	52.9	562.5	140.6	11.6	55.3	54.8	2	893.7	89.4	1.8	116			
	8	732.5	51.0	50.4	659.2	164.8	3.1	52.8	52.2	3	1245.3	124.5	4.9	138			
										4	1471.0	147.1	8.0	152			
48110	4	603.9	59.6	56.7	512.4	128.1	5.9	61.2	58.4	1	677.1	67.7	4.1	94	1	878.4	94
	6	697.8	54.2	52.9	702.7	175.7	3.6	55.3	54.8	2	1116.3	111.6	3.3	116			
	8	915.0	51.0	50.4	823.5	205.9	6.0	52.8	52.2	3	1555.5	155.6	8.0	138			
										4	1837.3	183.7	2.3	152			
60105	4	721.8	59.6	56.7	612.5	153.1	8.9	61.2	58.4	1	809.4	80.9	4.5	94	1	1050.0	94
	6	953.7	54.2	52.9	840.0	210.0	3.3	55.3	54.8	2	1334.4	133.5	3.2	116			
	8	1093.7	51.0	50.4	984.4	246.1	5.8	52.8	52.2	3	1859.4	186.0	9.0	138			
										4	2196.2	219.6	2.5	152			

\* Above capacities based on 500 coil face velocities — 8 fins per inch.



# FAN PERFORMANCE DATA

Model No.	Blower Model	No. of Fans	COIL FACE VELOCITY FPM	CFM	FAN OUTLET VELOCITY FPM	SYSTEM TOTAL STATIC PRESSURE — INCHES OF WATER													
						½		¾		1		1¼		1½		1¾		2	
						RPM	* HP	RPM	* HP	RPM	* HP	RPM	* HP	RPM	* HP	RPM	* HP	RPM	* HP
1536	12/9A	1	400	1500	1330	580	¼	690	½	800	½	900	¾	1000	¾	1085	¾	1165	1
			500	1875	1663	600	½	700	½	800	¾	880	¾	965	1	1050	1	1130	1½
			600	2250	1996	630	¾	720	¾	815	¾	890	1	969	1	1042	1½	1120	1½
1844	15/11A	1	400	2200	1388	460	⅓	556	½	654	¾	751	¾	831	1	907	1½	981	1½
			500	2750	1735	475	½	558	¾	646	¾	728	1	800	1	880	1½	948	1½
			600	3300	2082	500	¾	572	1	653	1	731	1½	790	1½	855	1½	919	2
2444	18/13A	1	400	2940	1289	420	½	500	¾	570	¾	640	1	710	1½	770	1½	834	2
			500	3685	1616	430	¾	505	1	578	1	635	1½	700	1½	760	2	816	2
			600	4400	1929	450	1	518	1	575	1½	638	1½	700	2	755	2	808	3
2466	18/18A	1	400	4400	1535	432	¾	511	1	578	1½	653	1½	720	2	782	2	841	3
			500	5500	1919	459	1½	529	1½	592	2	658	2	713	3	768	3	824	3
			600	6600	2303	490	2	558	2	614	3	670	3	725	3	778	5	826	5
3365	15/15A	2	400	5950	1480	504	1	595	1½	680	2	756	2	830	3	903	3	972	3
			500	7450	1853	538	1½	612	2	688	2	755	3	822	3	892	5	955	5
			600	8935	2222	579	3	632	3	710	3	772	3	835	5	895	5	953	5
3380	18/18A	2	400	7330	1279	415	1½	506	1½	592	2	664	3	737	3	802	5	852	5
			500	9165	1599	430	1½	515	2	590	3	660	3	720	5	775	5	835	5
			600	11000	1919	459	3	529	3	595	5	655	5	713	5	771	5	821	7½
3688	18/18A	2	400	8800	1535	427	1½	506	2	582	3	653	3	720	5	782	5	837	5
			500	11000	1919	459	3	529	3	595	5	655	5	713	5	771	5	821	7½
			600	13200	2303	490	3	553	5	620	5	671	5	725	7½	777	7½	828	7½
4288	18/18A	2	400	10240	1787	450	2	524	3	589	3	653	5	714	5	773	7½	826	7½
			500	12800	2233	483	3	548	5	611	5	668	5	722	7½	776	7½	824	7½
			600	15360	2680	525	5	591	5	644	7½	700	7½	752	7½	795	10	846	10
4888	22/22A	2	400	11720	1479	345	2	418	3	490	5	545	5	600	7½	640	7½	690	7½
			500	14650	1849	380	3	430	5	500	5	550	5	610	7½	646	10	710	10
			600	17580	2219	420	5	470	5	520	7½	563	7½	615	10	650	10	695	10
48110	25/25A	2	400	14640	1464	290	2	335	3	370	5	430	5	452	7½	485	7½	542	10
			500	18300	1830	318	3	360	5	398	5	435	7½	462	10	495	10	545	15
			600	21960	2196	350	5	387	7½	420	7½	450	7½	480	10	518	10	551	15
60105	25/25A	2	400	17500	1750	324	5	362	5	400	7½	438	7½	470	10	500	10	550	15
			500	21875	2187	350	5	386	7½	421	7½	451	7½	481	10	519	10	552	15
			600	26250	2625	388	7½	426	10	455	10	480	10	512	15	538	15	563	15

\* H.P. shown is motor size required for unit at total static pressure — not brake horse power.



# CORRECTION FACTORS DX COILS

FACE VELOCITY AND ROWS DEEP			
FPM	4 Row	6 Row	8 Row
400	.88	1.13	1.43
500	1.00	1.30	1.53
600	1.10	1.43	1.71

FINS PER INCH	
FPI	Factor
8	1.00
10	1.06
12	1.14

AIR PRESSURE DROP			
Inches H <sub>2</sub> O — Dry Coil — 8 Fins Per Inch			
Rows Deep	Face Velocity — FPM		
	400	500	600
2	.082	.115	.163
4	.136	.195	.276
6	.185	.252	.372
8	.225	.320	.462

Multiplier for 10 fins per inch = 1.17  
Multiplier for 12 fins per inch = 1.35

WETTED SURFACE	
Ent. Dew Point Less Refr. Temp.	Multiplication Factor
10	1.10
20	1.19
30	1.27
40	1.35

Dew Point 80° DB, 67° WB Air = 60°.

FILTER PRESSURE DROP		
Inches of Water		
Coil Face Velocity	High Velocity Type	Low Velocity Type
400	.087	.04
500	.13	.06
600	.19	.09

TOTAL HEAT — REFRIGERANT TEMPERATURE AND WET BULB				
Refr. Temp.	Inlet Wet Bulb			
	65	67	70	72
35	1.07	1.19	1.33	1.44
40	.89	1.00	1.15	1.26
45	.72	.81	.96	1.07

## USING CORRECTION FACTORS

Russell Model 1844 with a 4 row refrigerant coil, 8 fins per inch, 40° refrigerant and 67° W.B. entering air at 500 FPM face velocity, has a capacity of 90,700 BTU/hr. What is capacity of this same 4 row coil, with 10 fins per inch, 35° refrigerant, 70° W.B., 85° D.B. entering air and a coil face velocity of 600 FPM?

From Factors Above: 90,700 BTU/hr. x 1.06 (10 FPI) x 1.33 (35° Refr. and 70° W.B.) x 1.10 (4 row coil at 600 FPM) = 155,200 BTU/hr. or 12.9 tons per hour total heat.

Air Pressure Drop: Dew point of 70° W.B., 85° D.B. air (from psychrometric chart) = 63°. Less 35° refrigerant temperature = 28°. From wetted surface factors (by interpolation), multiplication factor for 28° difference = 1.25 therefore: .276 inches H<sub>2</sub>O (4 row coil at 600 FPM) x 1.25 (wetted surface factor) x 1.17 (10 FPI multiplier) = .404 inches H<sub>2</sub>O.



# CORRECTION FACTORS H<sub>2</sub>O COILS

## H<sub>2</sub>O COOLING COILS

### INLET WATER TEMP. DIFFERENCE

Rows Deep	8° Rise 40° Ent.	10° Rise 40° Ent.	8° Rise 45° Ent.	10° Rise 45° Ent.	8° Rise 50° Ent.	10° Rise 50° Ent.
4	1.32	1.23	1	.92	.705	.63
6	1.28	1.22	1	.935	.74	.675
8	1.24	1.21	1	.94	.745	.70

### FINS/INCH

### AIR VELOCITY

Fins/Inch	Correction Factor	FPM	Factor
8	1.00	400	.84
10	1.11	500	1
12	1.19	600	1.14

$$\text{Total GPM Req'd.} = \frac{\text{Total BTU/HR}}{4,000} \quad (8^\circ \text{ H}_2\text{O Temp. Rise})$$

$$\text{Total GPM Req'd.} = \frac{\text{Total BTU/HR}}{5,000} \quad (10^\circ \text{ H}_2\text{O Temp. Rise})$$

## H<sub>2</sub>O HEATING COILS

### STANDARD CAPACITIES

Based On: 3 GPM/CIRC.      200° INLET WATER  
60° D.B. ENT. AIR      180° OUTLET WATER  
8 FINS PER INCH

### BTU/HR./SQ. FT. FACE AREA

#### ROWS DEEP

FPM	ROWS DEEP			
	1	2	3	4
400	16,800	27,800	38,700	45,700
500	18,500	30,500	42,500	50,200
600	20,200	33,300	46,400	54,800

INCREASE ABOVE CAPACITIES FOR 10 FINS PER INCH BY 12%  
INCREASE ABOVE CAPACITIES FOR 12 FINS PER INCH BY 20%

$$\text{Total GPM Req'd.} = \frac{\text{Total BTU/HR}}{10,000} \quad (20^\circ \text{ H}_2\text{O Temp. Difference})$$

### AIR VELOCITY — FPM

	400	500	600	700
Factor	.91	1.00	1.09	1.17

### INLET AIR DRY BULB

	40	50	60	70	80
Factor	1.12	1.08	1.00	.92	.87

$$\text{TEMP. RISE} = \frac{\text{BTU/HR}}{\text{CFM} \times 1.08}$$



# STANDARD STEAM COILS

**ENTERING AND FINAL AIR TEMPS. — 5 LBS. STEAM PRESSURE — 8 FINS PER INCH**  
(CAPACITIES IN MBTU PER HR. PER SQ. FT. FACE AREA)

ENT. AIR TEMP. ° F.	ROWS DEEP	FACE VELOCITY — FPM					
		400		500		600	
		° F. FINAL AIR TEMP.	MBTU/HR.	° F. FINAL AIR TEMP.	MBTU/HR.	° F. FINAL AIR TEMP.	MBTU/HR.
-20	1	50.3	30.6	42.3	34.0	37.0	37.2
	2	96.9	50.8	85.2	57.3	77.7	63.4
-10	1	57.4	29.6	49.7	32.5	44.7	35.8
	2	102.2	48.9	90.8	54.8	83.4	61.0
*0	1	64.7	28.2	57.0	31.0	52.2	34.1
	2	106.8	46.5	96.3	52.5	89.2	58.3
10	1	71.8	26.9	64.5	29.7	59.9	32.6
	2	111.9	44.4	102.0	50.1	95.1	55.6
20	1	78.9	25.6	72.0	28.3	67.5	31.0
	2	116.9	42.2	107.5	47.7	101.0	53.0
30	1	86.0	24.4	93.3	26.9	75.0	29.4
	2	121.9	40.0	113.0	45.2	107.0	50.3
40	1	93.0	23.1	86.7	25.4	82.7	27.9
	2	127.0	38.0	118.5	42.8	112.8	47.6
50	1	100.1	21.8	94.0	24.0	90.2	26.3
	2	131.9	35.7	124.0	40.3	118.5	44.8
60	1	107.2	20.6	101.4	22.6	97.9	24.8
	2	136.9	33.7	129.6	38.0	124.3	42.0

\* Use 0° Final Air Temps. with Air Temp. and Steam Conversion Multipliers.

## TEMP. AND LATENT HEAT OF STEAM

STEAM PRESSURE PSIG	2	5	10	15	20	30	40	50	80	100
° F. Temp.	218	227	240	250	259	274	288	298	324	338
LATENT HEAT BTU/HR./LB	966.5	960.7	952.2	945.5	939.4	929.0	918.9	911.6	898.0	880.6

$$\text{LBS CONDENSATE} = \frac{\text{BTU/HR.}}{\text{LATENT HEAT}}$$

## FINS PER INCH CAPACITY MULTIPLIERS

FINS/INCH	6	8	10	12
MULT.	.86	1.00	1.13	1.23

## AIR TEMPERATURE AND STEAM PRESSURE CONVERSION MULTIPLIERS

ENT. AIR TEMP. ° F.	STEAM PRESSURE IN POUNDS PER SQUARE INCH (GAUGE)									
	2	5	10	15	20	30	40	50	80	100
-20	1.050	1.088	1.142	1.187	1.227	1.295	1.350	1.399	1.514	1.575
-10	1.006	1.044	1.098	1.143	1.183	1.250	1.306	1.355	1.470	1.531
0	.962	1.000	1.054	1.100	1.139	1.206	1.262	1.310	1.426	1.487
10	.918	.956	1.010	1.055	1.095	1.163	1.219	1.266	1.382	1.443
20	.874	.912	.966	1.012	1.051	1.119	1.174	1.223	1.338	1.399
30	.830	.868	.922	.968	1.007	1.075	1.130	1.179	1.294	1.355
40	.786	.824	.877	.923	.963	1.030	1.086	1.134	1.250	1.311
50	.742	.780	.834	.879	.919	.986	1.042	1.091	1.201	1.267
60	.698	.736	.790	.835	.875	.943	.998	1.046	1.161	1.224
70	.654	.692	.746	.791	.831	.899	.954	1.003	1.119	1.179
80	.610	.648	.702	.747	.787	.855	.910	.959	1.075	1.135
90	.566	.604	.657	.703	.743	.811	.866	.914	1.031	1.091
100	.522	.560	.613	.659	.691	.767	.822	.871	.986	1.047

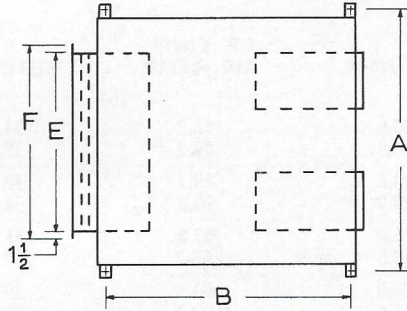
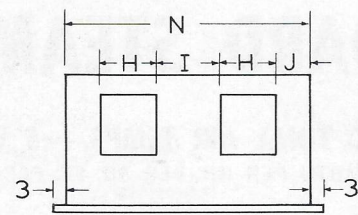
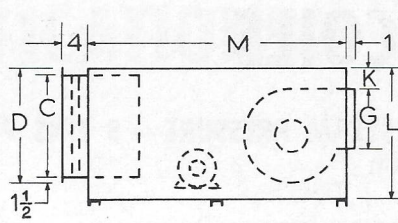
## USING ABOVE FACTORS

What is Leaving Air Temperature of a 2 Row Coil, with air entering at 30° F., 600 FPM and 50 lbs. steam?

- (1) From entering and final air temp. table, a 2 Row Coil, 600 FPM, 0° Ent. Air, shows a Final Air Temp. of 89.2°.
- (2) From Conversion Multiplier table, for 30° Ent. Air and 50 lbs. steam, a multiplier of 1.179 is given.
- (3) Air Temp. Change = 89.2 x 1.179 = 105.1° F.
- (4) Final Air Temp. = 30° + 105.1 = 135.1 F.

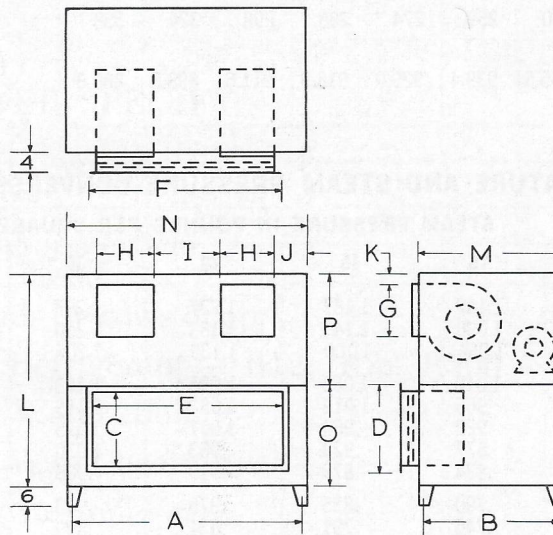


# AIR HANDLER DIMENSIONS



## HORIZONTAL DIMENSIONS

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1536	50	54	15	18	36	39	13 <sup>7</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>4</sub>	—	17 <sup>3</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	25	56	47
1844	63	58	18	21	44	47	15 <sup>7</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>2</sub>	—	22 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	29	60	60
2444	63	58	24	27	44	47	18 <sup>7</sup> / <sub>8</sub>	17 <sup>3</sup> / <sub>8</sub>	—	21 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	34	64	60
2466	85	67	24	27	66	69	18 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	—	28 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	34	70	78
3365	88	62	33	36	65	68	15 <sup>7</sup> / <sub>8</sub>	18 <sup>5</sup> / <sub>8</sub>	15	16 <sup>3</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>8</sub>	42	65	85
3380	99	67	33	36	80	83	18 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	18	17 <sup>1</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	42	70	96
3688	109	67	36	39	88	91	18 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	18	22 <sup>1</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	45	70	106
4288	113	67	42	45	88	91	18 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	18	22 <sup>1</sup> / <sub>8</sub>	19 <sup>5</sup> / <sub>8</sub>	51	70	116
4888	113	75	48	51	88	91	20 <sup>5</sup> / <sub>8</sub>	25 <sup>1</sup> / <sub>4</sub>	21	17 <sup>1</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>8</sub>	56	78	106
48110	128	82	48	51	110	113	25 <sup>5</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>4</sub>	25	21 <sup>3</sup> / <sub>4</sub>	9 <sup>5</sup> / <sub>8</sub>	56	85	125
60105	158	82	60	63	105	108	25 <sup>5</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>4</sub>	25	21 <sup>3</sup> / <sub>4</sub>	24 <sup>3</sup> / <sub>8</sub>	69	85	125



## VERTICAL DIMENSIONS

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1536	45	30	15	18	36	39	13 <sup>7</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>4</sub>	—	17 <sup>3</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	48	32	47	23	25
1844	58	34	18	21	44	47	15 <sup>7</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>2</sub>	—	22 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	55	36	60	26	29
2444	58	38	24	27	44	47	18 <sup>7</sup> / <sub>8</sub>	17 <sup>3</sup> / <sub>8</sub>	—	21 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	66	40	60	32	34
2466	76	42	24	27	66	69	18 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	—	28 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	66	44	78	32	34
3365	83	38	33	36	65	68	15 <sup>7</sup> / <sub>8</sub>	18 <sup>5</sup> / <sub>8</sub>	15	16 <sup>3</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>8</sub>	70	40	85	41	29
3380	94	42	33	36	80	83	18 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	18	17 <sup>1</sup> / <sub>8</sub>	9 <sup>5</sup> / <sub>8</sub>	75	44	96	41	34
3688	104	42	36	39	88	91	18 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	18	22 <sup>1</sup> / <sub>8</sub>	13 <sup>5</sup> / <sub>8</sub>	78	44	106	44	34
4288	104	42	42	45	88	91	18 <sup>7</sup> / <sub>8</sub>	21 <sup>7</sup> / <sub>8</sub>	18	22 <sup>1</sup> / <sub>8</sub>	19 <sup>5</sup> / <sub>8</sub>	84	44	106	50	34
4888	104	50	48	51	88	91	22 <sup>5</sup> / <sub>8</sub>	25 <sup>1</sup> / <sub>4</sub>	21	17 <sup>1</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>8</sub>	101	52	106	56	45
48110	123	58	48	51	110	113	25 <sup>5</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>4</sub>	25	21 <sup>3</sup> / <sub>4</sub>	9 <sup>5</sup> / <sub>8</sub>	106	60	125	56	50
60105	123	58	60	63	105	108	25 <sup>5</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>4</sub>	25	21 <sup>3</sup> / <sub>4</sub>	24 <sup>3</sup> / <sub>8</sub>	118	60	125	68	50