



VARIABLE REFRIGERANT FLOW SYSTEMS

VRF VWMA

Wall-Mounted Non-Ducted Indoor Models - 60HZ

Bulletin No. 210694

April 2016

Supersedes March 2016

PRODUCT SPECIFICATIONS

Low-sound, three-speed Wall Mount with LED display offers three access points for refrigerant outlet pipes: left, right or rear. The front panel can be raised to 65° for accessible wiring and maintenance. Swing louver angles to 90°. Installs vertically against wall.



APPROVALS

- Units are ETL certified for the U.S. and Canada.

WARRANTY

- **Components** - Limited ten years for qualifying installations. See Warranty Certificate for details.

FEATURES

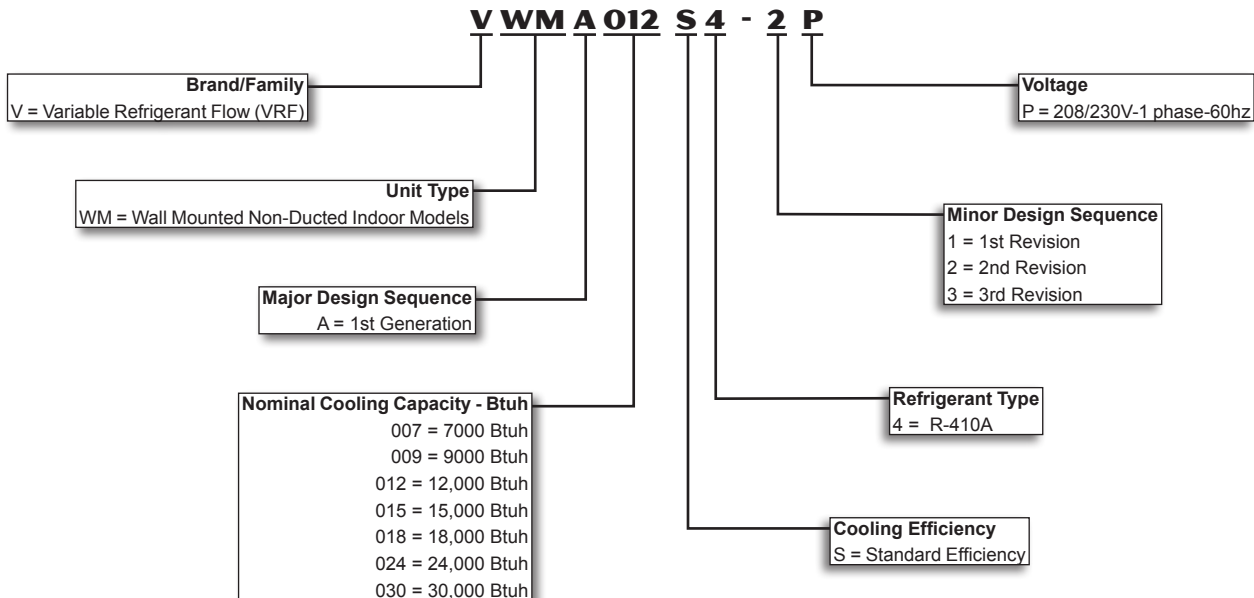
- **Pre-Heat Function** - Delays the operation of the fan until the indoor coil has reached a pre-determined temperature which prevents the discharge of cold air while the system is operating in the "heating" mode.
- **LED Readout** - Mounted on unit. LED displays unit operation status, and codes for maintenance and servicing.
- **Auto Addressing (Heat Pump Systems Only)** - An optional wireless remote control (not furnished) can be used to inquire and modify each indoor unit's address.

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- **Auto Restart** - Automatically restores the previous function setting if power is interrupted.
- **Condensate Pump Connection** - Control board has connection for condensate pump operation (pump not furnished).
- **Electronic Expansion Valve** - Assures optimal performance throughout the application range.
- **Flare Connections** - Equipped with liquid and gas flare fittings for quick and secure piping.
- **Multi-Refrigerant Outlet** - Allows left, right, or rear access for refrigeration line connection.
- **Three-Stage Fan Speed** - Fan functions at three levels: low, medium and high.

MODEL NUMBER IDENTIFICATION



SPECIFICATIONS
007 - 015

General Data		Nominal kBtuh	7	9	12	15
		Model Number	VWMA007S4	VWMA009S4	VWMA012S4	VWMA015S4
¹ Cooling Performance	Net Cooling Capacity - Btuh		7,500	9,500	12,000	15,000
	Total Unit Power Input (W)		35	35	35	55
	Rated current (A)		0.2	0.2	0.2	0.25
¹ Heating Performance	Net Heating Capacity - Btuh		8,200	10,900	13,600	17,100
	Total Unit Power Input (W)		35	35	35	55
	Rated current (A)		0.2	0.2	0.2	0.25
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A
Indoor fan motor	Input - W		25	25	25	44
	Speed (high / medium / low) - rpm		810 / 760 / 700	810 / 760 / 700	810 / 760 / 700	980 / 880 / 760
Indoor coil	Number of rows		2	2	2	2
	Fin spacing - in.		1/16	1/16	1/16	1/16
	Coil length x height x width - in.		25 x 11-1/8 x 1	25 x 11-1/8 x 1	25 x 11-1/8 x 1	30-7/8 x 14 x 1
	Number of circuits		3	3	3	6
	Tube outside diameter and type - in.		1/4 - Rifled Copper Tubing			
	Fin type		Hydrophilic Coated Aluminum			
	Expansion device type		Electronic Expansion Valve			
	Design Pressure (high / low)- psig		650 / 250			
Indoor Coil Connections	Liquid pipe o.d. - in. (flare)		1/4	1/4	1/4	1/4
	Gas pipe o.d. - in. (flare)		1/2	1/2	1/2	1/2
	Drain connection o.d. - in.		(1) 5/8	(1) 5/8	(1) 5/8	(1) 5/8
Indoor Blower	Airflow (high / medium / low) - cfm		309 / 283 / 253	309 / 283 / 253	347 / 306 / 283	506 / 444 / 371
	Sound data (high / medium / low) dBA		35 / 32 / 29	35 / 32 / 29	35 / 32 / 29	40 / 38 / 34
Control Wiring (AWG)			18/3 gauge (3-core shielded)			
Weight Data	Unit weight (net / shipping) - lbs.		29 / 37	29 / 37	29 / 37	33 / 41
ELECTRICAL DATA						
	Line voltage data - 60 hz - 1ph		208/230V	208/230V	208/230V	208/230V
	² Maximum overcurrent protection (amps)		15	15	15	15
	³ Minimum circuit ampacity		0.2	0.2	0.2	0.2
	Indoor Blower Motor - Full load amps		0.14	0.14	0.14	0.22

¹ Nominal capacities are based on the following conditions (with 25 ft. of connecting refrigerant lines);

- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.
- Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

² HACR type circuit breaker or fuse.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

SPECIFICATIONS
018 - 030

General Data	Nominal kBtuh	18	24	30
	Model Number	VWMA018S4	VWMA024S4	VWMA030S4
¹ Cooling Performance	Net Cooling Capacity - Btuh	19,000	24,000	30,000
	Total Unit Power Input (W)	55	100	100
	Rated current (A)	0.25	0.5	0.5
¹ Heating Performance	Net Heating Capacity - Btuh	21,500	27,300	34,100
	Total Unit Power Input (W)	55	100	100
	Rated current (A)	0.25	0.5	0.5
Refrigerant	Type	R-410A	R-410A	R-410A
Indoor fan motor	Input - W	44	76	92
	Speed (high / medium / low) - rpm	980 / 880 / 760	1190 / 880 / 680	1190 / 880 / 680
Indoor coil	Number of rows	2	2	2
	Fin spacing - in.	1/16	1/16	1/16
	Coil length x height x width - in.	30-7/8 x 14 x 1	38 x 16-1/2 x 1	38 x 16-1/2 x 1
	Number of circuits	6	6	6
	Tube outside diameter and type - in.	1/4 - Rifled Copper Tubing		
	Fin type	Hydrophilic Coated Aluminum		
	Expansion device type	Electronic Expansion Valve		
	Design Pressure (high / low)- psig	650 / 250		
Indoor Coil Connections	Liquid pipe o.d. - in. (flare)	3/8	3/8	3/8
	Gas pipe o.d. - in. (flare)	5/8	5/8	5/8
	Drain connection o.d. - in.	(1) 5/8	(1) 5/8	(1) 5/8
Indoor Blower	Airflow (high / medium / low) - cfm	544 / 506 / 444	700 / 518 / 400	776 / 494 / 376
	Sound data (high / medium / low) dBA	40 / 38 / 34	45 / 42 / 41	49 / 43 / 38
Control Wiring (AWG)	18/3 gauge (3-core shielded)			
Weight Data	Unit weight (net / shipping) - lbs.	33 / 41	44 / 55	44 / 55
ELECTRICAL DATA				
	Line voltage data - 60 hz - 1ph	208/230V	208/230V	208/230V
	² Maximum overcurrent protection (amps)	15	15	15
	³ Minimum circuit ampacity	0.3	0.6	0.6
	Indoor Blower Motor - Full load amps	0.22	0.45	0.45

¹ Nominal capacities are based on the following conditions (with 25 ft. of connecting refrigerant lines);

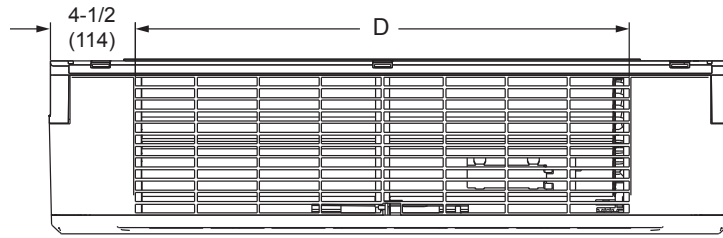
- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.
- Heating Ratings - 47°F db/43°F wb outdoor air temperature and 70°F db entering indoor coil air.

² HACR type circuit breaker or fuse.

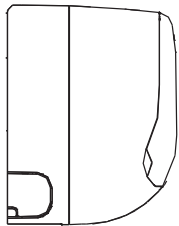
³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

DIMENSIONS - INCHES (MM)

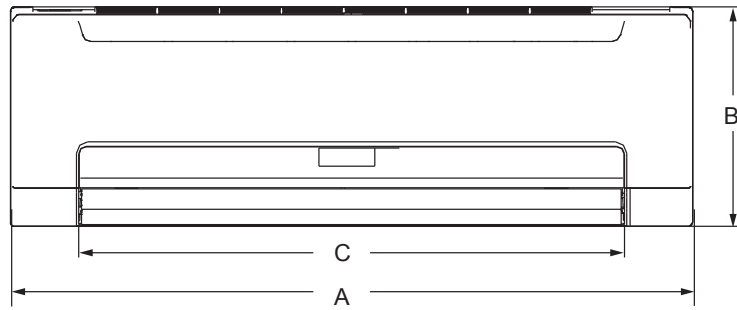
VWMA007S4, VWMA009S4, VWMA012S4, VWMA015S4, VWMA018S4



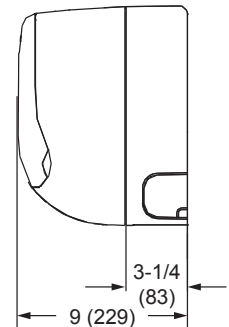
TOP VIEW



SIDE VIEW



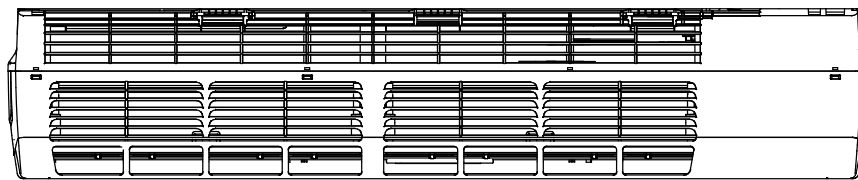
FRONT VIEW



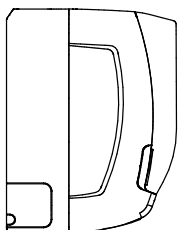
SIDE VIEW

Size	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
007, 009, 012	36	914	11-3/8	289	28-7/8	733	27-1/4	692
015, 018	42-1/4	1073	12-3/8	314	35-1/8	892	33-1/8	841

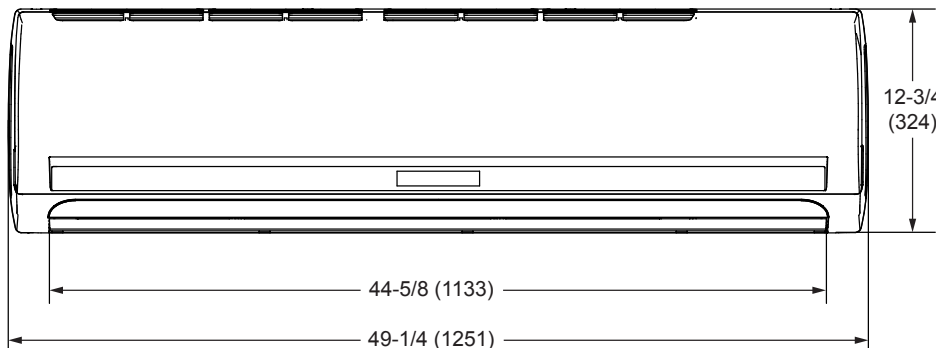
VWMA024S4, VWMA030S4



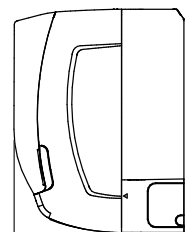
TOP VIEW



SIDE VIEW

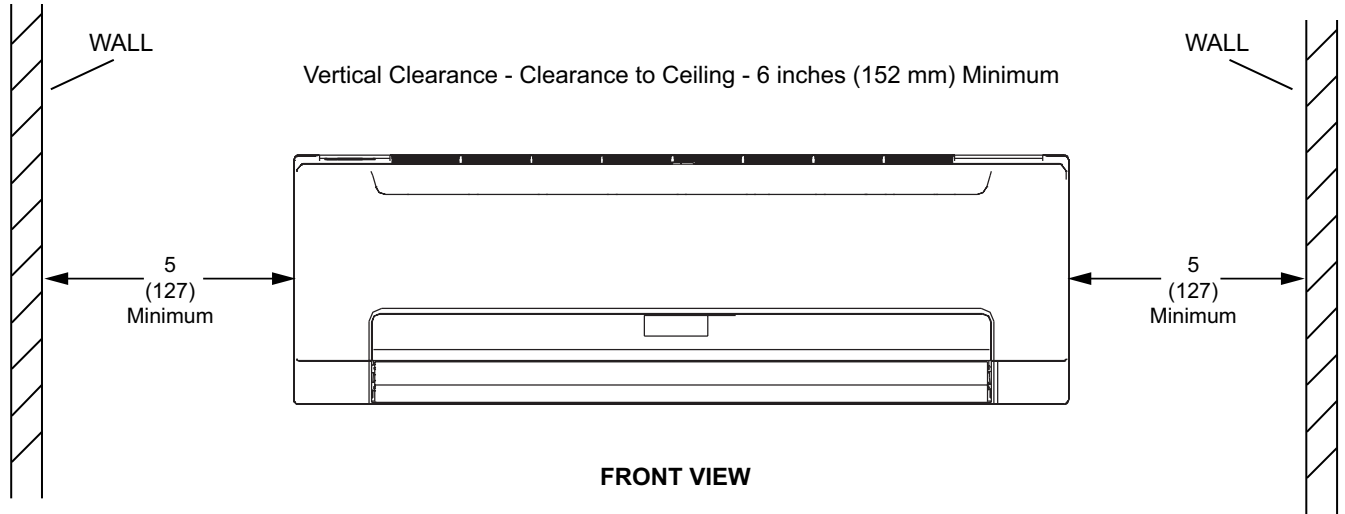


FRONT VIEW



SIDE VIEW

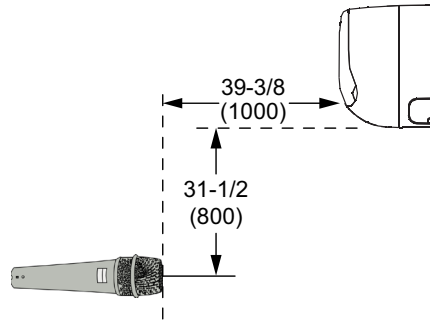
INSTALLATION CLEARANCES - INCHES (MM)



Vertical Clearance - Clearance to Floor - 72 inches (1829 mm) Minimum
NOTE - Provide 96 inches (2438) clearance to floor for best performance

SOUND DATA

SOUND LEVELS



NOTE:

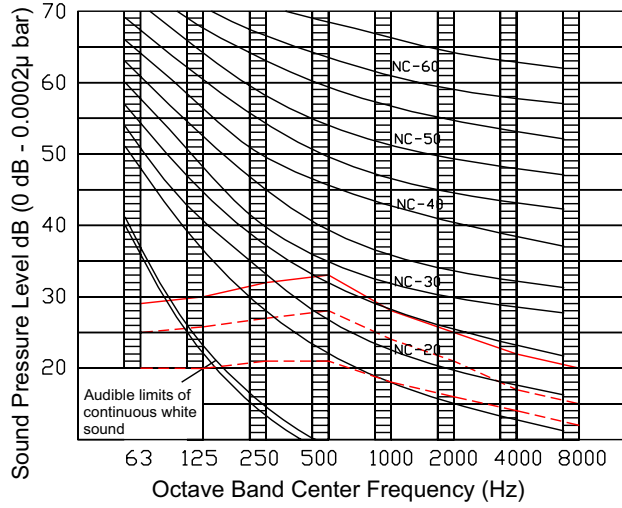
- Semi-anechoic chamber conversion value is measured at a point 39-3/8 inches (1000 mm) in front of the unit at a height of 31-1/2 inches (800 mm).

Model No.	Sound Rating Number (dBA)		
	Low	Medium	High
VWMA007S4	29	32	35
VWMA009S4	29	32	35
VWMA012S4	29	32	35
VWMA015S4	34	38	40
VWMA018S4	34	38	40
VWMA024S4	41	42	45
VWMA030S4	38	43	49

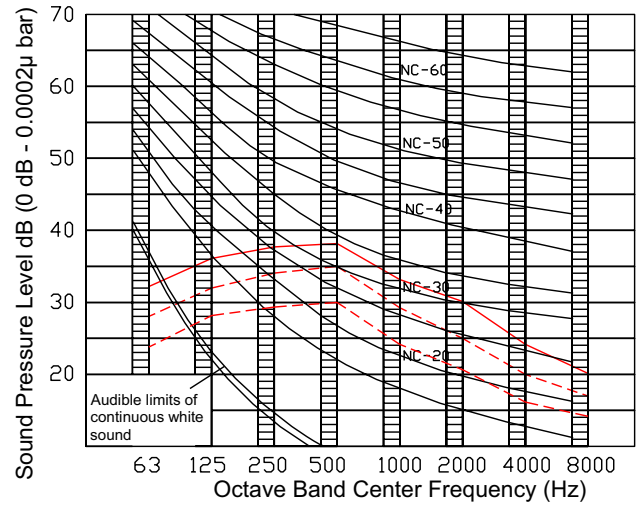
SOUND DATA

OCTAVE BAND LEVELS

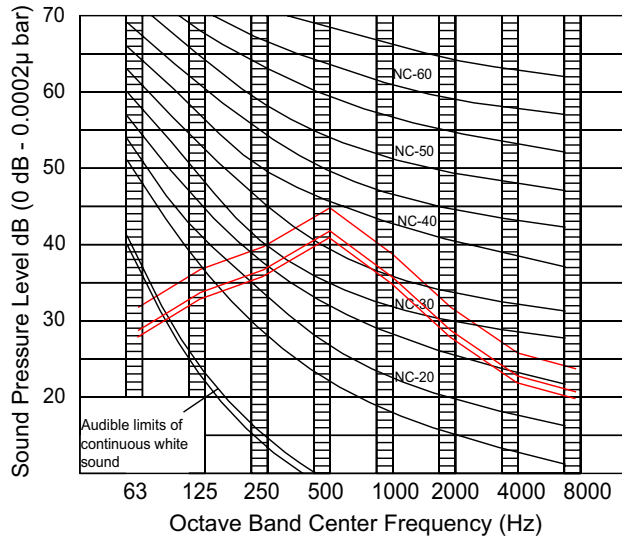
VWMA007S4, VWMA009S4, VWMA012S4



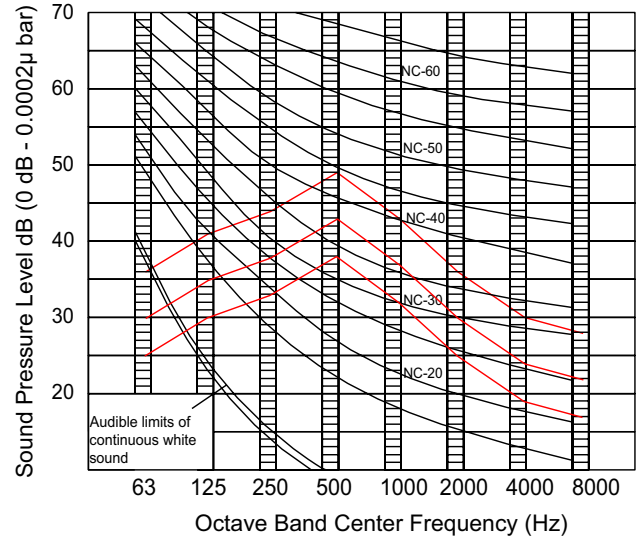
VWMA015S4, VWMA018S4



VWMA024S4

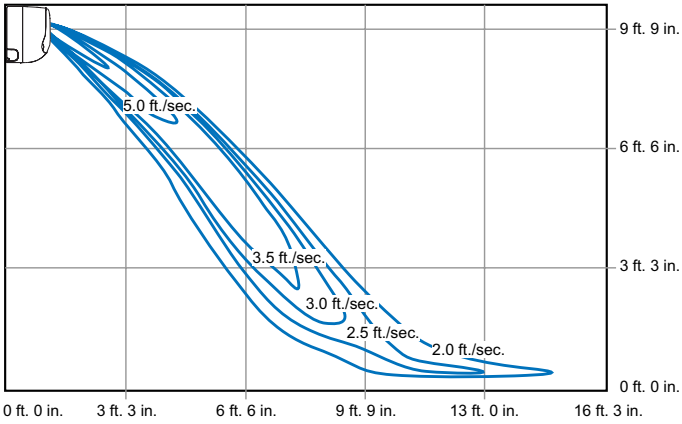


VWMA030S4

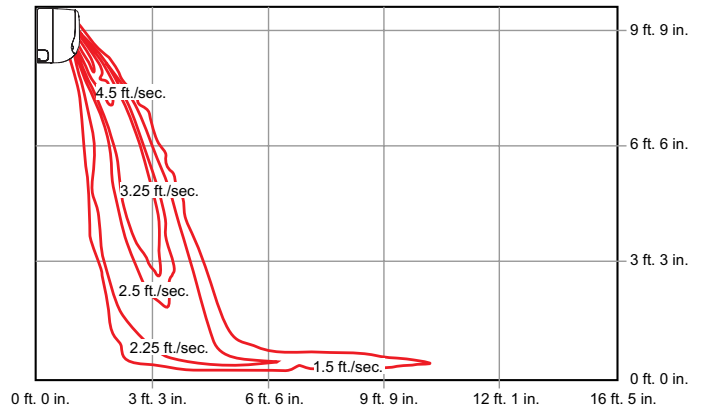


AIR THROW DATA

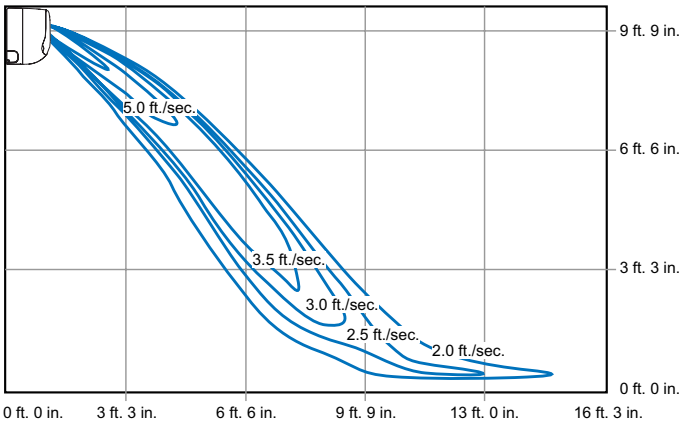
VWMA007S4 - COOLING



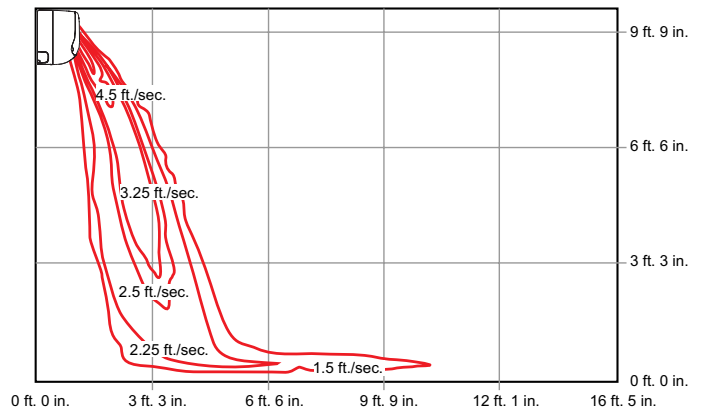
VWMA007S4 - HEATING



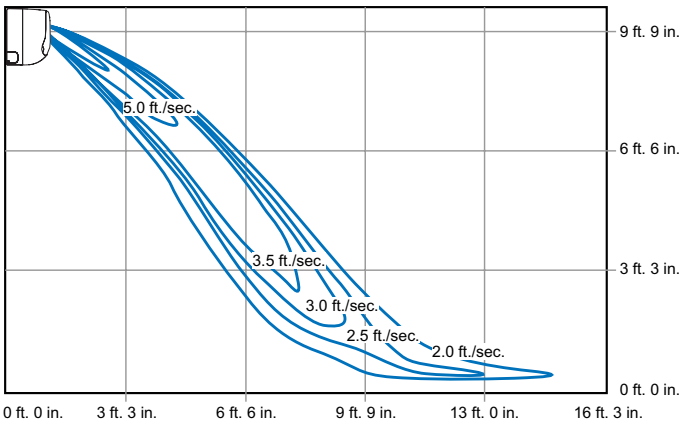
VWMA009S4 - COOLING



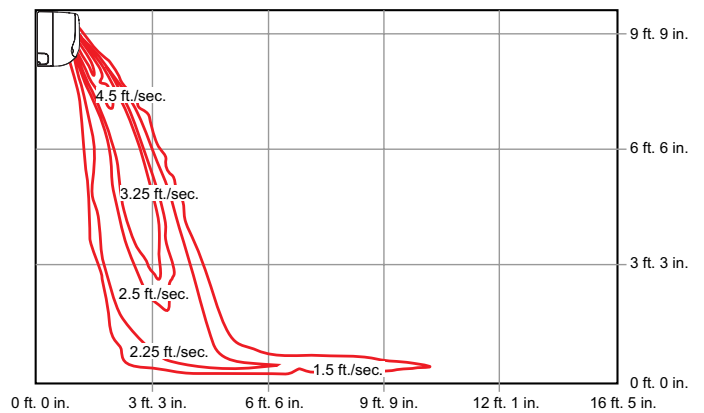
VWMA009S4 - HEATING



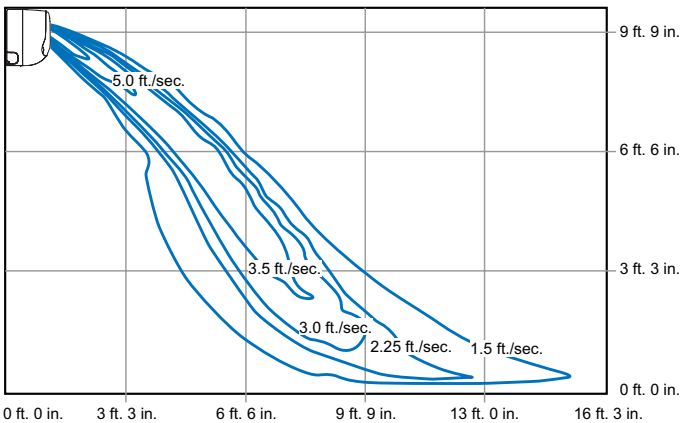
VWMA012S4 - COOLING



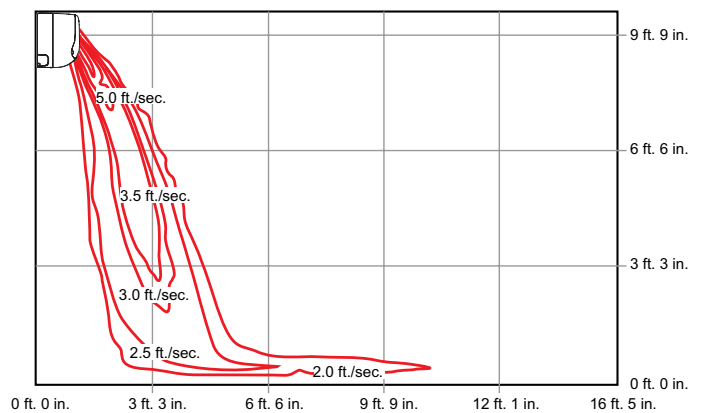
VWMA012S4 - HEATING



VWMA015S4 - COOLING

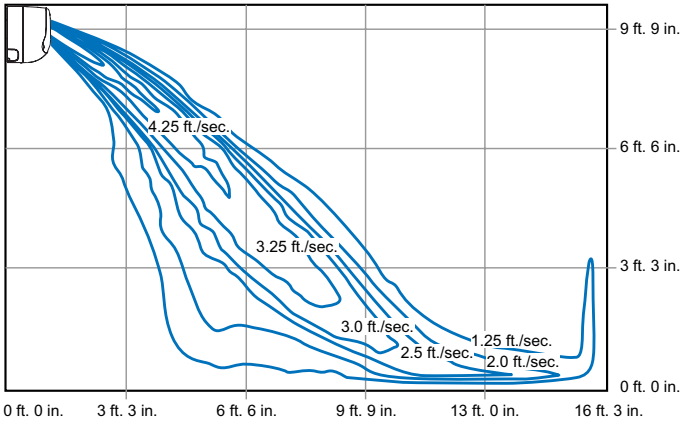


VWMA015S4 - HEATING

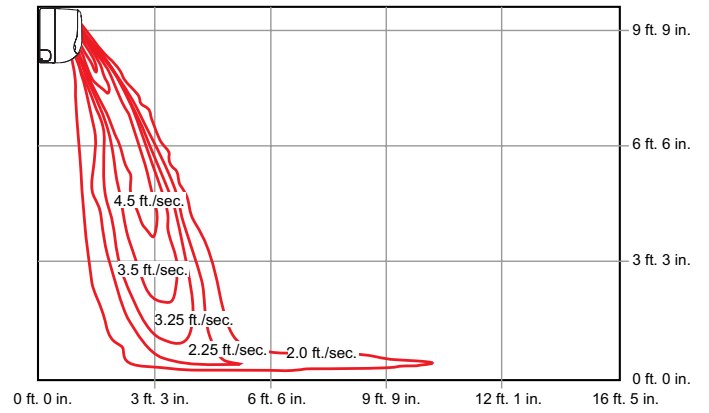


AIR THROW DATA

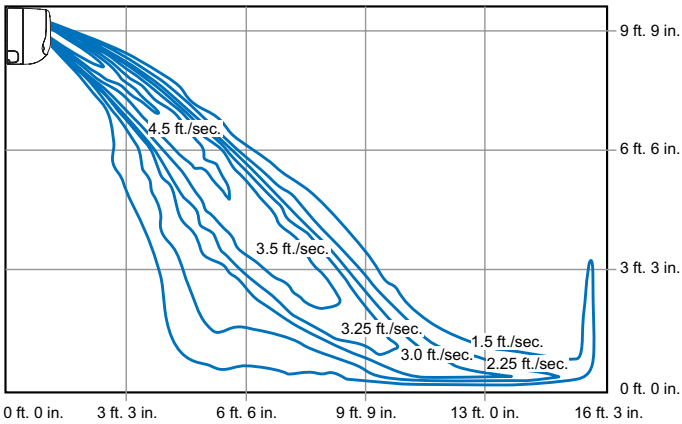
VWMA018S4 - COOLING



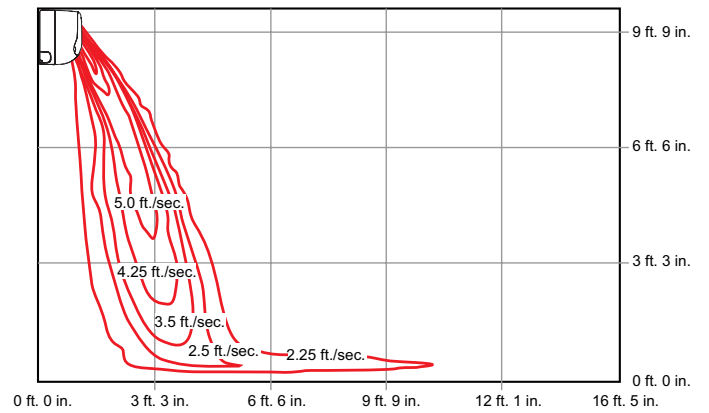
VWMA018S4 - HEATING



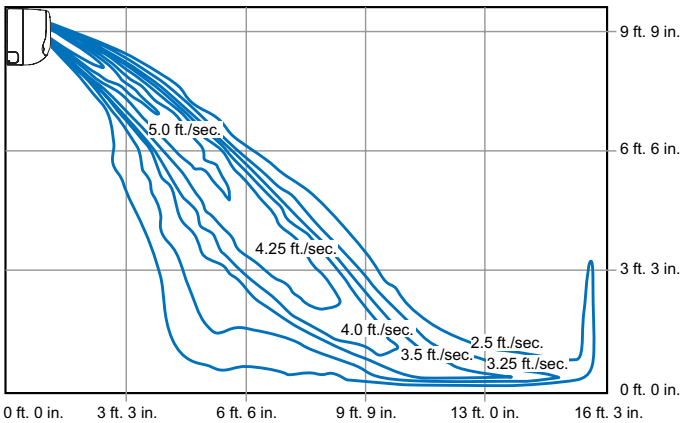
VWMA024S4 - COOLING



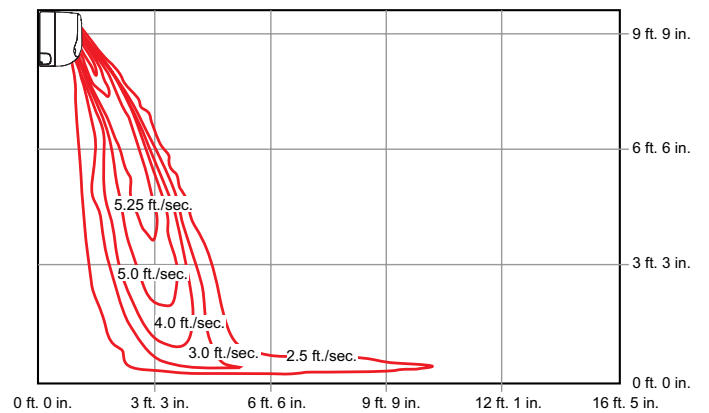
VWMA024S4 - HEATING



VWMA030S4 - COOLING



VWMA030S4 - HEATING



COOLING CAPACITY

Size	Outdoor Temperature °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)											
		67 / 57		71 / 60		75 / 63		80 / 67		85 / 71		90 / 75	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
007	5	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	9.98	7.52
	10	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	9.98	7.52
	15	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	9.94	7.49
	20	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	9.80	7.39
	25	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	9.66	7.28
	30	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	9.51	7.17
	35	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	9.37	7.06
	40	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	9.23	6.95
	45	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	9.08	6.84
	50	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.74	6.53	8.94	6.73
	55	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.72	6.51	8.80	6.63
	60	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.58	6.41	8.65	6.52
	65	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.44	6.30	8.51	6.41
	70	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.29	6.19	8.36	6.30
	75	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.15	6.08	8.22	6.19
	80	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	8.00	5.98	8.08	6.08
	85	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	7.86	5.87	7.93	5.97
	90	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	7.72	5.76	7.79	5.87
95	4.40	3.13	5.33	3.88	6.26	4.66	7.50	5.63	7.57	5.65	7.64	5.76	
100	4.40	3.13	5.33	3.88	6.26	4.66	7.36	5.52	7.43	5.55	7.50	5.65	
105	4.40	3.13	5.33	3.88	6.26	4.66	7.21	5.42	7.26	5.42	7.27	5.48	
110	4.40	3.13	5.33	3.88	6.26	4.66	6.78	5.09	6.95	5.19	7.05	5.31	
115	4.40	3.13	5.10	3.71	5.23	3.89	5.39	4.05	5.56	4.15	5.73	4.31	
118	4.18	2.97	4.31	3.13	4.43	3.29	4.60	3.45	4.76	3.56	4.93	3.71	
009	5	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	12.64	9.52
	10	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	12.64	9.52
	15	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	12.60	9.49
	20	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	12.42	9.35
	25	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	12.23	9.22
	30	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	12.05	9.08
	35	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	11.87	8.94
	40	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	11.69	8.80
	45	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	11.51	8.67
	50	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.07	8.27	11.32	8.53
	55	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	11.05	8.25	11.14	8.39
	60	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	10.87	8.11	10.96	8.25
	65	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	10.68	7.98	10.78	8.12
	70	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	10.50	7.84	10.59	7.98
	75	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	10.32	7.71	10.41	7.84
	80	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	10.14	7.57	10.23	7.71
	85	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	9.96	7.43	10.05	7.57
	90	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	9.77	7.30	9.87	7.43
95	5.57	3.96	6.75	4.91	7.93	5.90	9.50	7.13	9.59	7.16	9.68	7.29	
100	5.57	3.96	6.75	4.91	7.93	5.90	9.32	7.00	9.41	7.03	9.49	7.15	
105	5.57	3.96	6.75	4.91	7.93	5.90	9.14	6.86	9.20	6.87	9.21	6.94	
110	5.57	3.96	6.75	4.91	7.93	5.90	8.59	6.45	8.80	6.57	8.92	6.72	
115	5.57	3.96	6.46	4.70	6.62	4.92	6.83	5.13	7.04	5.26	7.25	5.46	
118	5.30	3.76	5.45	3.97	5.61	4.17	5.82	4.37	6.03	4.51	6.25	4.70	

NOTE - MBH = 1000 BTUs per hour.

COOLING CAPACITY

Size	Outdoor Temperature °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)											
		67 / 57		71 / 60		75 / 63		80 / 67		85 / 71		90 / 75	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
012	5	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	15.97	12.03
	10	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	15.97	12.03
	15	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	15.91	11.98
	20	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	15.69	11.82
	25	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	15.45	11.64
	30	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	15.22	11.47
	35	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	14.99	11.29
	40	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	14.76	11.12
	45	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	14.53	10.95
	50	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.98	10.44	14.30	10.77
	55	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.96	10.42	14.07	10.60
	60	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.73	10.25	13.84	10.43
	65	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.50	10.08	13.61	10.25
	70	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.27	9.91	13.38	10.08
	75	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	13.04	9.73	13.15	9.91
	80	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	12.81	9.56	12.92	9.73
	85	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	12.58	9.39	12.69	9.56
	90	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	12.35	9.22	12.46	9.39
95	7.04	5.00	8.53	6.21	10.02	7.45	12.00	9.01	12.12	9.05	12.23	9.21	
100	7.04	5.00	8.53	6.21	10.02	7.45	11.77	8.84	11.89	8.87	11.99	9.03	
105	7.04	5.00	8.53	6.21	10.02	7.45	11.54	8.67	11.62	8.67	11.63	8.76	
110	7.04	5.00	8.53	6.21	10.02	7.45	10.85	8.15	11.12	8.30	11.27	8.49	
115	7.04	5.00	8.16	5.94	8.36	6.22	8.63	6.48	8.89	6.64	9.16	6.90	
118	6.69	4.75	6.89	5.01	7.09	5.27	7.36	5.52	7.62	5.69	7.89	5.94	
015	5	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	19.96	15.03
	10	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	19.96	15.03
	15	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	19.89	14.98
	20	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	19.61	14.77
	25	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	19.32	14.55
	30	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	19.03	14.33
	35	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	18.74	14.12
	40	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	18.45	13.90
	45	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	18.17	13.68
	50	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.48	13.05	17.88	13.47
	55	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.45	13.03	17.59	13.25
	60	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	17.16	12.81	17.30	13.03
	65	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	16.87	12.60	17.02	12.82
	70	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	16.58	12.38	16.73	12.60
	75	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	16.30	12.17	16.44	12.38
	80	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	16.01	11.95	16.15	12.17
	85	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	15.72	11.74	15.86	11.95
	90	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	15.43	11.52	15.58	11.73
95	8.80	6.25	10.66	7.76	12.52	9.31	15.00	11.26	15.14	11.31	15.29	11.52	
100	8.80	6.25	10.66	7.76	12.52	9.31	14.71	11.05	14.86	11.09	14.99	11.29	
105	8.80	6.25	10.66	7.76	12.52	9.31	14.42	10.83	14.52	10.84	14.54	10.95	
110	8.80	6.25	10.66	7.76	12.52	9.31	13.56	10.18	13.90	10.37	14.09	10.61	
115	8.80	6.25	10.20	7.42	10.45	7.77	10.78	8.10	11.12	8.30	11.45	8.63	
118	8.36	5.94	8.61	6.27	8.86	6.59	9.20	6.90	9.53	7.11	9.86	7.43	

NOTE - MBH = 1000 BTUs per hour.

COOLING CAPACITY

Size	Outdoor Temperature °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)											
		67 / 57		71 / 60		75 / 63		80 / 67		85 / 71		90 / 75	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
018	5	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	25.28	19.04
	10	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	25.28	19.04
	15	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	25.19	18.98
	20	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	24.84	18.71
	25	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	24.47	18.43
	30	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	24.10	18.16
	35	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	23.74	17.88
	40	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	23.38	17.61
	45	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	23.01	17.33
	50	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.14	16.53	22.65	17.06
	55	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	22.10	16.50	22.28	16.78
	60	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	21.73	16.23	21.92	16.51
	65	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	21.37	15.96	21.55	16.23
	70	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	21.01	15.68	21.19	15.96
	75	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	20.64	15.41	20.82	15.69
	80	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	20.28	15.14	20.46	15.41
	85	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	19.91	14.87	20.09	15.14
	90	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	19.55	14.59	19.73	14.86
95	11.15	7.92	13.50	9.82	15.86	11.79	19.00	14.27	19.18	14.32	19.37	14.59	
100	11.15	7.92	13.50	9.82	15.86	11.79	18.64	13.99	18.82	14.05	18.99	14.30	
105	11.15	7.92	13.50	9.82	15.86	11.79	18.27	13.72	18.39	13.73	18.42	13.87	
110	11.15	7.92	13.50	9.82	15.86	11.79	17.18	12.90	17.60	13.14	17.85	13.45	
115	11.15	7.92	12.92	9.40	13.24	9.84	13.66	10.26	14.08	10.51	14.50	10.93	
118	10.59	7.52	10.91	7.94	11.22	8.35	11.65	8.75	12.07	9.01	12.49	9.41	
024	5	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	31.93	24.05
	10	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	31.93	24.05
	15	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	31.82	23.97
	20	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	31.37	23.63
	25	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	30.91	23.28
	30	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	30.45	22.93
	35	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	29.99	22.59
	40	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	29.53	22.24
	45	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	29.07	21.89
	50	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.97	20.88	28.61	21.55
	55	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.91	20.84	28.15	21.20
	60	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	27.45	20.50	27.68	20.85
	65	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	26.99	20.15	27.22	20.51
	70	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	26.53	19.81	26.76	20.16
	75	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	26.07	19.47	26.30	19.81
	80	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	25.61	19.12	25.84	19.47
	85	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	25.15	18.78	25.38	19.12
	90	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	24.69	18.44	24.92	18.77
95	14.08	10.00	17.06	12.41	20.03	14.90	24.00	18.02	24.23	18.09	24.46	18.43	
100	14.08	10.00	17.06	12.41	20.03	14.90	23.54	17.68	23.77	17.75	23.99	18.07	
105	14.08	10.00	17.06	12.41	20.03	14.90	23.08	17.33	23.23	17.35	23.27	17.53	
110	14.08	10.00	17.06	12.41	20.03	14.90	21.70	16.29	22.23	16.60	22.55	16.98	
115	14.08	10.00	16.32	11.87	16.72	12.43	17.25	12.96	17.79	13.28	18.32	13.80	
118	13.38	9.50	13.78	10.02	14.18	10.54	14.71	11.05	15.25	11.38	15.78	11.89	

NOTE - MBH = 1000 BTUs per hour.

COOLING CAPACITY

Size	Outdoor Temperature °F (Dry Bulb)	Indoor Temperature - °F (Dry Bulb / Wet Bulb)											
		67 / 57		71 / 60		75 / 63		80 / 67		85 / 71		90 / 75	
		Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible	Total	Sensible
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
030	5	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	39.92	30.07
	10	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	39.92	30.07
	15	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	39.78	29.96
	20	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	39.22	29.54
	25	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	38.63	29.10
	30	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	38.06	28.67
	35	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	37.48	28.23
	40	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	36.91	27.80
	45	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	36.33	27.37
	50	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.96	26.10	35.76	26.93
	55	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.89	26.05	35.18	26.50
	60	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	34.32	25.62	34.61	26.07
	65	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	33.74	25.19	34.03	25.63
	70	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	33.17	24.76	33.45	25.20
	75	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	32.59	24.33	32.88	24.77
	80	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	32.02	23.90	32.30	24.33
	85	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	31.44	23.47	31.73	23.90
	90	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	30.86	23.04	31.15	23.47
95	17.60	12.50	21.32	15.51	25.04	18.62	30.00	22.53	30.29	22.61	30.58	23.03	
100	17.60	12.50	21.32	15.51	25.04	18.62	29.42	22.09	29.71	22.18	29.98	22.58	
105	17.60	12.50	21.32	15.51	25.04	18.62	28.85	21.66	29.04	21.68	29.08	21.91	
110	17.60	12.50	21.32	15.51	25.04	18.62	27.12	20.37	27.79	20.75	28.18	21.23	
115	17.60	12.50	20.40	14.84	20.90	15.54	21.57	16.20	22.23	16.60	22.90	17.25	
118	16.72	11.88	17.22	12.53	17.72	13.18	18.39	13.81	19.06	14.23	19.72	14.86	

NOTE - MBH = 1000 BTUs per hour.

HEATING CAPACITY

Size	Outdoor Temperature (°F)		Indoor Temperature - °F (Dry Bulb)					
			61	64	67	70	73	75
	Dry Bulb	Wet Bulb	Total Capacity					
		MBH	MBH	MBH	MBH	MBH	MBH	
007	-13	-14	3.70	3.54	3.37	3.20	3.04	2.93
	-8	-9	4.14	3.98	3.81	3.64	3.47	3.36
	-3	-4	4.58	4.41	4.25	4.08	3.91	3.80
	2	1	5.02	4.85	4.69	4.52	4.35	4.24
	7	6	5.46	5.29	5.12	4.96	4.79	4.68
	12	10	5.81	5.64	5.47	5.31	5.14	5.03
	17	15	6.25	6.08	5.91	5.75	5.58	5.47
	22	20	6.69	6.52	6.35	6.18	6.02	5.91
	27	24	7.04	6.87	6.70	6.54	6.37	6.26
	32	29	7.47	7.31	7.14	6.97	6.81	6.70
	37	34	7.91	7.75	7.58	7.41	7.25	7.13
	42	38	8.26	8.10	7.93	7.76	7.60	7.25
	47	43	8.70	8.54	8.37	8.20	7.63	7.25
	52	47	9.05	8.89	8.72	8.20	7.63	7.25
	57	52	9.49	9.32	8.77	8.20	7.63	7.25
	62	56	9.84	9.34	8.77	8.20	7.63	7.25
	67	61	9.92	9.34	8.77	8.20	7.63	7.25
72	66	9.92	9.34	8.77	8.20	7.63	7.25	
75	69	9.92	9.34	8.77	8.20	7.63	7.25	
009	-13	-14	4.92	4.70	4.48	4.26	4.04	3.89
	-8	-9	5.51	5.28	5.06	4.84	4.62	4.47
	-3	-4	6.09	5.87	5.65	5.42	5.20	5.05
	2	1	6.67	6.45	6.23	6.01	5.78	5.64
	7	6	7.25	7.03	6.81	6.59	6.37	6.22
	12	10	7.72	7.50	7.28	7.06	6.83	6.69
	17	15	8.30	8.08	7.86	7.64	7.42	7.27
	22	20	8.89	8.66	8.44	8.22	8.00	7.85
	27	24	9.35	9.13	8.91	8.69	8.47	8.32
	32	29	9.94	9.71	9.49	9.27	9.05	8.90
	37	34	10.52	10.30	10.08	9.85	9.63	9.48
	42	38	10.98	10.76	10.54	10.32	10.10	9.63
	47	43	11.57	11.35	11.12	10.90	10.14	9.63
	52	47	12.03	11.81	11.59	10.90	10.14	9.63
	57	52	12.62	12.40	11.66	10.90	10.14	9.63
	62	56	13.08	12.42	11.66	10.90	10.14	9.63
	67	61	13.18	12.42	11.66	10.90	10.14	9.63
72	66	13.18	12.42	11.66	10.90	10.14	9.63	
75	69	13.18	12.42	11.66	10.90	10.14	9.63	

NOTE - MBH = 1000 BTUs per hour.

HEATING CAPACITY

Size	Outdoor Temperature (°F)		Indoor Temperature - °F (Dry Bulb)					
			61	64	67	70	73	75
	Dry Bulb	Wet Bulb	Total Capacity					
			MBH	MBH	MBH	MBH	MBH	MBH
012	-13	-14	5.34	5.07	4.79	4.51	4.24	4.05
	-8	-9	6.14	5.86	5.59	5.31	5.03	4.85
	-3	-4	6.94	6.66	6.38	6.11	5.83	5.65
	2	1	7.74	7.46	7.18	6.91	6.63	6.44
	7	6	8.53	8.26	7.98	7.70	7.43	7.24
	12	10	9.17	8.89	8.62	8.34	8.06	7.88
	17	15	9.97	9.69	9.41	9.14	8.86	8.68
	22	20	10.77	10.49	10.21	9.94	9.66	9.47
	27	24	11.40	11.13	10.85	10.57	10.30	10.11
	32	29	12.20	11.92	11.65	11.37	11.09	10.91
	37	34	13.00	12.72	12.44	12.17	11.89	11.71
	42	38	13.64	13.36	13.08	12.81	12.53	12.02
	47	43	14.43	14.16	13.88	13.60	12.65	12.02
	52	47	15.07	14.79	14.52	13.60	12.65	12.02
	57	52	15.87	15.50	14.55	13.60	12.65	12.02
	62	56	16.45	15.50	14.55	13.60	12.65	12.02
	67	61	16.45	15.50	14.55	13.60	12.65	12.02
	72	66	16.45	15.50	14.55	13.60	12.65	12.02
75	69	16.45	15.50	14.55	13.60	12.65	12.02	
015	-13	-14	7.68	7.33	6.99	6.64	6.29	6.06
	-8	-9	8.59	8.24	7.90	7.55	7.20	6.97
	-3	-4	9.50	9.15	8.80	8.46	8.11	7.88
	2	1	10.41	10.06	9.71	9.37	9.02	8.79
	7	6	11.31	10.97	10.62	10.28	9.93	9.70
	12	10	12.04	11.70	11.35	11.00	10.66	10.43
	17	15	12.95	12.61	12.26	11.91	11.57	11.34
	22	20	13.86	13.51	13.17	12.82	12.48	12.25
	27	24	14.59	14.24	13.90	13.55	13.20	12.97
	32	29	15.50	15.15	14.80	14.46	14.11	13.88
	37	34	16.41	16.06	15.71	15.37	15.02	14.79
	42	38	17.13	16.79	16.44	16.09	15.75	15.02
	47	43	18.04	17.70	17.35	17.00	15.81	15.02
	52	47	18.77	18.42	18.08	17.00	15.81	15.02
	57	52	19.68	19.33	18.19	17.00	15.81	15.02
	62	56	20.40	19.37	18.19	17.00	15.81	15.02
	67	61	20.56	19.37	18.19	17.00	15.81	15.02
	72	66	20.56	19.37	18.19	17.00	15.81	15.02
75	69	20.56	19.37	18.19	17.00	15.81	15.02	

NOTE - MBH = 1000 BTUs per hour.

HEATING CAPACITY

Size	Outdoor Temperature (°F)		Indoor Temperature - °F (Dry Bulb)					
			61	64	67	70	73	75
	Dry Bulb	Wet Bulb	Total Capacity					
		MBH	MBH	MBH	MBH	MBH	MBH	
018	-13	-14	9.49	9.06	8.63	8.20	7.78	7.49
	-8	-9	10.61	10.18	9.75	9.33	8.90	8.61
	-3	-4	11.73	11.30	10.88	10.45	10.02	9.74
	2	1	12.85	12.43	12.00	11.57	11.14	10.86
	7	6	13.98	13.55	13.12	12.70	12.27	11.98
	12	10	14.88	14.45	14.02	13.59	13.17	12.88
	17	15	16.00	15.57	15.14	14.72	14.29	14.00
	22	20	17.12	16.69	16.27	15.84	15.41	15.13
	27	24	18.02	17.59	17.16	16.74	16.31	16.03
	32	29	19.14	18.72	18.29	17.86	17.43	17.15
	37	34	20.27	19.84	19.41	18.98	18.56	18.27
	42	38	21.16	20.74	20.31	19.88	19.45	18.56
	47	43	22.29	21.86	21.43	21.00	19.53	18.56
	52	47	23.18	22.76	22.33	21.00	19.53	18.56
	57	52	24.31	23.88	22.47	21.00	19.53	18.56
	62	56	25.21	23.93	22.47	21.00	19.53	18.56
	67	61	25.40	23.93	22.47	21.00	19.53	18.56
72	66	25.40	23.93	22.47	21.00	19.53	18.56	
75	69	25.40	23.93	22.47	21.00	19.53	18.56	
024	-13	-14	12.95	12.40	11.85	11.30	10.75	10.38
	-8	-9	14.23	13.69	13.14	12.59	12.04	11.67
	-3	-4	15.54	14.99	14.44	13.89	13.34	12.98
	2	1	16.87	16.32	15.77	15.22	14.67	14.30
	7	6	18.21	17.66	17.11	16.56	16.01	15.65
	12	10	19.30	18.75	18.20	17.65	17.10	16.73
	17	15	20.67	20.12	19.57	19.02	18.47	18.11
	22	20	22.06	21.51	20.97	20.42	19.87	19.50
	27	24	23.19	22.64	22.09	21.54	20.99	20.63
	32	29	24.61	24.07	23.52	22.97	22.42	22.05
	37	34	26.06	25.51	24.96	24.41	23.86	23.49
	42	38	27.22	26.67	26.12	25.57	25.03	23.86
	47	43	28.70	28.15	27.60	27.00	25.12	23.86
	52	47	29.89	29.34	28.79	27.00	25.12	23.86
	57	52	31.39	30.77	28.88	27.00	25.12	23.86
	62	56	32.61	30.77	28.88	27.00	25.12	23.86
	67	61	32.65	30.77	28.88	27.00	25.12	23.86
72	66	32.65	30.77	28.88	27.00	25.12	23.86	
75	69	32.65	30.77	28.88	27.00	25.12	23.86	

NOTE - MBH = 1000 BTUs per hour.

HEATING CAPACITY

Size	Outdoor Temperature (°F)		Indoor Temperature - °F (Dry Bulb)					
			61	64	67	70	73	75
	Dry Bulb	Wet Bulb	Total Capacity					
			MBH	MBH	MBH	MBH	MBH	MBH
030	-13	-14	13.82	13.12	12.43	11.74	11.05	10.59
	-8	-9	15.77	15.08	14.39	13.69	13.00	12.54
	-3	-4	17.72	17.03	16.34	15.65	14.95	14.49
	2	1	19.68	18.98	18.29	17.60	16.91	16.45
	7	6	21.63	20.94	20.25	19.55	18.86	18.40
	12	10	23.19	22.50	21.81	21.12	20.42	19.96
	17	15	25.14	24.45	23.76	23.07	22.38	21.92
	22	20	27.10	26.41	25.71	25.02	24.33	23.87
	27	24	28.66	27.97	27.28	26.59	25.89	25.43
	32	29	30.61	29.92	29.23	28.54	27.85	27.39
	37	34	32.57	31.88	31.18	30.49	29.80	29.34
	42	38	34.13	33.44	32.75	32.05	31.36	30.05
	47	43	36.08	35.39	34.70	34.00	31.63	30.05
	52	47	37.65	36.95	36.26	34.00	31.63	30.05
	57	52	39.60	38.74	36.37	34.00	31.63	30.05
	62	56	41.12	38.74	36.37	34.00	31.63	30.05
	67	61	41.12	38.74	36.37	34.00	31.63	30.05
72	66	41.12	38.74	36.37	34.00	31.63	30.05	
75	69	41.12	38.74	36.37	34.00	31.63	30.05	

NOTE - MBH = 1000 BTUs per hour.

REVISIONS

Sections	Description of Change
Capacity Tables	Updated.
Warranty	Updated.



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