

VARIABLE REFRIGERANT FLOW SYSTEMS

VRF VMDA

Concealed Medium Static Ducted Indoor Models - 60HZ

Bulletin No. 210696
February 2017
Supersedes May 2016



PRODUCT SPECIFICATIONS

Slim, compact design for limited space requirements. Installs out of sight between the drop ceiling and ceiling slab with ducted distribution to the indoor space.



CONTENTS

Blower Data - High Efficiency	17
Blower Data - Standard Efficiency	15
Cooling Capacity	21
Dimensions - High Efficiency	7
Dimensions - Standard Efficiency.	6
Heating Capacity	26
Installation Clearances	9
Model Number Identification	1
Sound Data	10
Specifications - High Efficiency	4
Specifications - Standard Efficiency	2

APPROVALS

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

WARRANTY

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

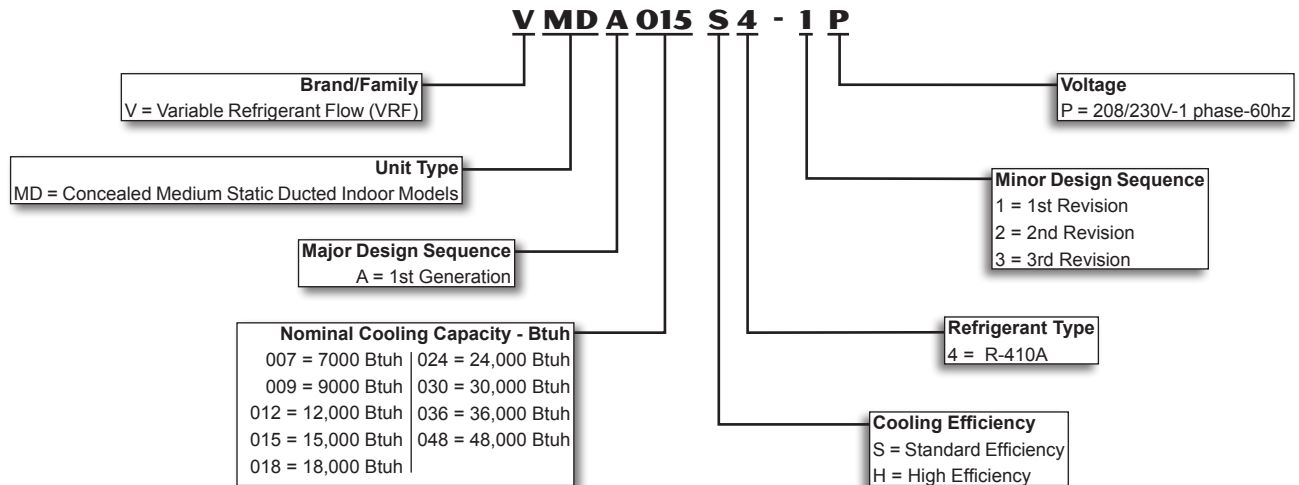
FEATURES

- **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/Infrared Receiver Panel** - Mounted on unit (may be remotely located). LEDs display unit operation status, and codes for maintenance and servicing. Infrared receiver for use with a wireless remote control (not furnished).
- **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.



- **Auto Restart** - Automatically restores the previous function setting if power is interrupted.
- **Built-In Condensate Pump** - 28 inch lift.
- **Duct Connections** - Return air connections can be made horizontally or from the bottom of the unit with interchangeable panel.
- **Electronic Expansion Valve** - Assures optimal performance throughout the application range.
- **Flare Connections** - Equipped with liquid and gas flare fittings for quick and secure piping.
- **Four-Stage Fan Speed (Standard Efficiency PSC Motor)** - Fan functions at four levels: low, medium, high and super-high. Super-high speed is available with simple wiring change on main control board.
- **Three-Stage Fan Speed (High Efficiency DC Motor)** - Fan functions at three levels: low, medium, high.
- **Air Filter** - Cleanable air filter is furnished as standard.

MODEL NUMBER IDENTIFICATION



SPECIFICATIONS - STANDARD EFFICIENCY
007 - 018

General Data		Nominal kBtuh	7	9	12	15	18
		Model Number	VMDA007S4	VMDA009S4	VMDA012S4	VMDA015S4	VMDA018S4
¹ Cooling Performance	Net Cooling Capacity - Btuh		7,000	9,000	12,000	15,000	19,000
	Total Unit Power Input (W)		75	75	75	115	115
	Rated current (A)		0.4	0.4	0.4	0.55	0.55
¹ Heating Performance	Net Heating Capacity - Btuh		8,200	10,900	13,600	17,100	21,500
	Total Unit Power Input (W)		75	75	75	115	115
	Rated current (A)		0.4	0.4	0.4	0.55	0.55
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A
Indoor Fan Motor	Input - W		60	60	60	109	109
	Speed (high / medium / low) - rpm		1255/1120/1005	1150/1040/960		1150/1020/800	
Indoor Coil	Number of rows		2	2	3	3	3
	Fin spacing - in.		1/16	1/16	1/16	1/16	1/16
	Coil length x height - in.		20-1/4 x 10	20-1/4 x 10	20-1/4 x 10	29 x 10	29 x 10
	Number of circuits		3	3	4	4	4
	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	3/8
	Gas pipe o.d. - in. (flare)		1/2	1/2	1/2	1/2	5/8
	Drain connection o.d. - in.		(1) 1-1/4	(1) 1-1/4	(1) 1-1/4	(1) 1-1/4	(1) 1-1/4
Indoor Blower	Airflow (super high/high/medium/low) - cfm		340 / 310 / 240 / 190			(N/A) / 500 / 390 / 340	
	External static pressure - in. w.g.		0.04 - 0.12			0.04 - 0.12	
	Sound data (high / medium / low) dBA		35 / 32 / 29		36 / 33 / 30		37 / 34 / 30
Filter Size - in. (furnished)		23-1/8 x 7-3/4 x 3/8			31-3/4 x 7-3/4 x 3/8		
Control Wiring (AWG)		18/3 gauge (3-core shielded)					
Weight Data	Unit weight (net / shipping) - lbs.		47 / 58	47 / 58	48 / 59	59 / 70	59 / 70

ELECTRICAL DATA

	Line voltage data - 60 hz - 1ph	208/230V	208/230V	208/230V	208/230V	208/230V
	² Maximum overcurrent protection (amps)	15	15	15	15	15
	³ Minimum circuit ampacity	0.5	0.5	0.5	0.7	0.7
	Indoor Blower Motor - Full load amps	0.33	0.33	0.33	0.5	0.5

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 - STANDARD EFFICIENCY
024 - 048

General Data	Nominal kBtuh	24	30	36	48
	Model Number	VMDA024S4	VMDA030S4	VMDA036S4	VMDA048S4
¹ Cooling Performance	Net Cooling Capacity - Btuh	24,000	30,000	38,000	48,000
	Total Unit Power Input (W)	190	250	420	360
	Rated current (A)	0.9	1.15	1.95	1.65
¹ Heating Performance	Net Heating Capacity - Btuh	27,300	37,500	42,600	52,900
	Total Unit Power Input (W)	190	250	420	360
	Rated current (A)	0.9	1.15	1.95	1.65
Refrigerant	Type	R-410A	R-410A	R-410A	R-410A
Indoor Fan Motor	Input - W	183	225	410	345
	Speed (high / medium / low) - rpm	855 / 780 / 650	950 / 750 / 655	1090 / 1015 / 910	930 / 900 / 805
Indoor Coil	Number of rows	4	4	4	4
	Fin spacing - in.	1/16	1/16	1/16	1/16
	Coil length x height - in.	29 x 10	37-5/8 x 13-1/4	37-5/8 x 13-1/4	40-1/2 x 14-7/8
	Number of circuits	6	8	8	8
	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	3/8
	Gas pipe o.d. - in. (flare)	5/8	5/8	5/8	5/8
	Drain connection o.d. - in.	(1) 1-1/4	(1) 1-1/4	(1) 1-1/4	(1) 1-1/4
Indoor Blower	Airflow (high / medium / low) - cfm	620 / 530 / 480	790 / 690 / 610	1060 / 920 / 820	1120 / 970 / 830
	External static pressure - in. w.g.	0.04 - 0.12	0.04 - 0.20	0.04 - 0.32	0.04 - 0.40
	Sound data (high / medium / low) dBA	40 / 37 / 32	43 / 40 / 34	46 / 42 / 40	46 / 42 / 40
Filter Size - in. (furnished)	31-3/4 x 10-1/8 x 3/8	40-3/8 x 10-1/8 x 3/8		42-7/8 x 11-3/8 x 3/8	
Control Wiring (AWG)	18/3 gauge (3-core shielded)				
Weight Data	Unit weight (net / shipping) - lbs.	66 / 75	88 / 106	88 / 106	108 / 128
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	1.1	1.4	2.4	2.0
	Indoor Blower Motor - Full load amps	0.83	1.1	1.88	1.59

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 - HIGH EFFICIENCY
007 - 018

General Data		Nominal kBtuh	7	9	12	15	18
		Model Number	VMDA007H4	VMDA009H4	VMDA012H4	VMDA015H4	VMDA018H4
¹ Cooling Performance	Net Cooling Capacity - Btuh		7,000	9,000	12,000	15,000	19,000
	Total Unit Power Input (W)		120	120	150	260	280
	Rated current (A)		0.55	0.55	0.6	1.2	1.3
¹ Heating Performance	Net Heating Capacity - Btuh		8,000	10,900	13,600	17,000	21,000
	Total Unit Power Input (W)		120	120	150	260	280
	Rated current (A)		0.55	0.55	0.6	1.2	1.3
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A
Indoor Fan Motor	Input - W		100	100	100	150	150
	Speed (high / medium / low) - rpm		733/670/598	733/670/598	733/670/598	841/751/681	894/804/734
Indoor Coil	Number of rows		2	2	2	4	4
	Fin spacing - in.		1/16	1/16	1/16	1/16	1/16
	Coil length x height - in.		29 x 12	29 x 12	29 x 12	29 x 10	29 x 10
	Number of circuits		3	3	4	4	4
	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	3/8
	Gas pipe o.d. - in. (flare)		1/2	1/2	1/2	1/2	5/8
	Drain connection o.d. - in.		(1) 1-1/4	(1) 1-1/4	(1) 1-1/4	(1) 1-1/4	(1) 1-1/4
Indoor Blower	Airflow (high/medium/low) - cfm		341/294/247	341/294/247	341/294/247	444/384/325	512/444/375
	External static pressure - in. w.g.		0.30	0.30	0.30	0.60	0.60
	Sound data (high / medium / low) dBA		37.3/36.3/35.2	38.2/36.2/34.4	37.4/36/35.5	45.6/42.7/40.3	46.2/42.7/40.4
Filter Size - in. (furnished)		32 x 7-3/4 x 3/8			31-3/4 x 10-1/8 x 3/8		
Control Wiring (AWG)		18/3 gauge (3-core shielded)					
Weight Data	Unit weight (net / shipping) - lbs.		49 / 58	49 / 58	49 / 58	64 / 73	64 / 73

ELECTRICAL DATA

	Line voltage data - 60 hz - 1ph	208/230V	208/230V	208/230V	208/230V	208/230V
² Maximum overcurrent protection (amps)		15	15	15	15	15
	³ Minimum circuit ampacity	0.65	0.65	0.7	1.4	1.6
	Indoor Blower Motor - Full load amps	0.51	0.51	0.56	1.1	1.24

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 - HIGH EFFICIENCY
024 - 048

General Data	Nominal kBtuh	24	30	36	48
	Model Number	VMDA024H4	VMDA030H4	VMDA036H4	VMDA048H4
¹ Cooling Performance	Net Cooling Capacity - Btuh	24,000	30,000	38,000	48,000
	Total Unit Power Input (W)	290	350	340	500
	Rated current (A)	1.6	2.2	2.1	2.7
¹ Heating Performance	Net Heating Capacity - Btuh	27,000	34,000	42,000	54,000
	Total Unit Power Input (W)	290	350	340	500
	Rated current (A)	1.6	2.2	2.1	2.7
Refrigerant	Type	R-410A	R-410A	R-410A	R-410A
Indoor Fan Motor	Input - W	150	150	240	240
	Speed (high / medium / low) - rpm	843/753/683	972/882/812	882/792/722	1077/987/917
Indoor Coil	Number of rows	4	4	4	4
	Fin spacing - in.	1/16	1/16	1/16	1/16
	Coil length x height - in.	37-5/8 x 13-1/4	37-5/8 x 13-1/4	40-1/2 x 14-7/8	40-1/2 x 14-7/8
	Number of circuits	6	8	8	8
	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	3/8
	Gas pipe o.d. - in. (flare)	5/8	5/8	5/8	5/8
	Drain connection o.d. - in.	(1) 1-1/4	(1) 1-1/4	(1) 1-1/4	(1) 1-1/4
Indoor Blower	Airflow (high / medium / low) - cfm	682/591/500	853/739/625	1024/887/750	1365/1182/1000
	External static pressure - in. w.g.	0.60	0.60	0.60	0.60
	Sound data (high / medium / low) dBA	48.8/45.5/43.2	56.4/53.5/51.5	48.5/45.8/43.6	54.1/52.2/50.3
Filter Size - in. (furnished)	40-1/2 x 10-1/8 x 3/8		42-7/8 x 11-3/8 x 3/8		
Control Wiring (AWG)	18/3 gauge (3-core shielded)				
Weight Data	Unit weight (net / shipping) - lbs.	81 / 95	83 / 97	103 / 119	103 / 119

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	2.0	2.5	2.54	3.2
	Indoor Blower Motor - Full load amps	1.52	1.98	1.91	2.51

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

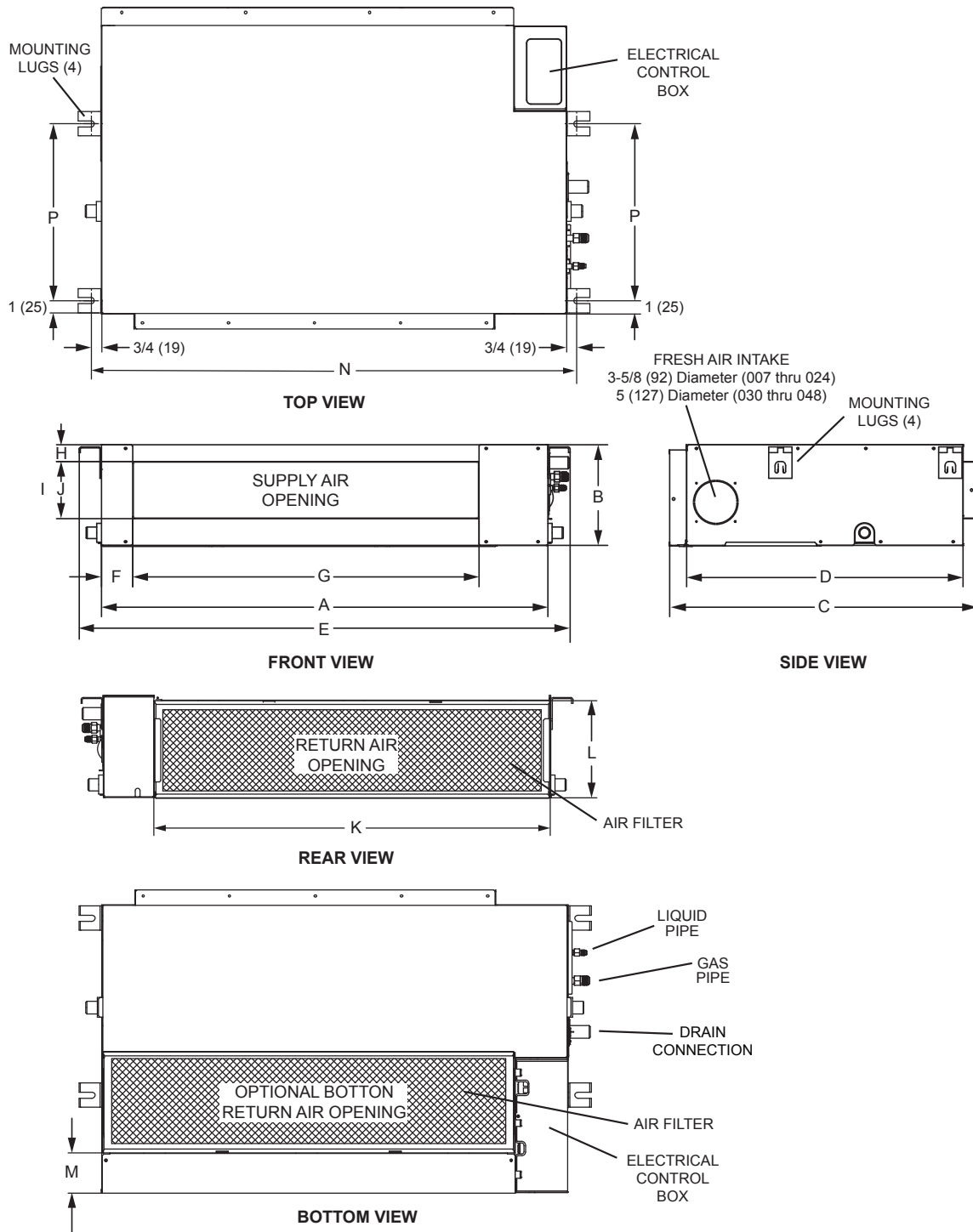
- Cooling Ratings - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

- 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.

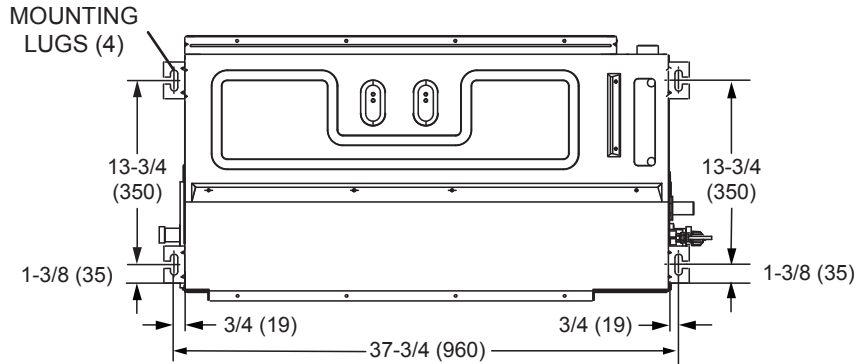
³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

DIMENSIONS - INCHES (MM) - STANDARD EFFICIENCY

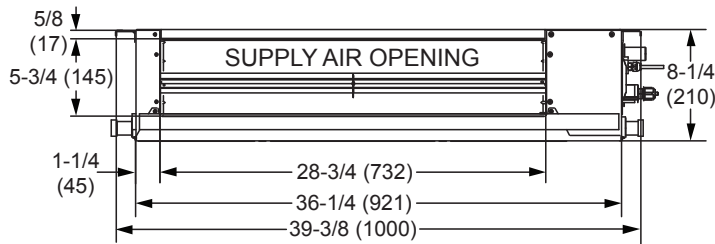


Size	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
007 thru 012S4	27-5/8	702	8-1/4	210	25	635	22-1/2	572	31-1/8	791	2-5/8	67	19-1/2	495	1-3/8	35
015 thru 018S4	36-1/4	921	8-1/4	210	25	635	22-1/2	572	39-3/4	1010	2-5/8	67	28	711	1-3/8	35
024S4	36-1/4	921	10-5/8	270	25	635	22-1/2	572	39-3/4	1010	2-5/8	67	28	711	1-3/8	35
030 thru 036S4	44-7/8	1140	10-5/8	270	30-1/2	775	28	711	48-1/2	1232	2-5/8	67	36-3/4	933	1-3/8	35
048S4	47-1/4	1200	11-7/8	302	34-1/8	867	31-1/2	800	50-3/4	1289	3-1/8	79	38-1/8	968	1-1/2	38

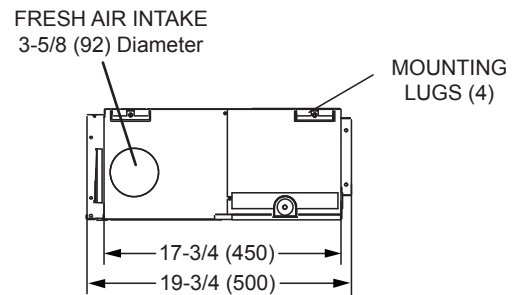
Size	J		K		L		M		N		P	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
007 thru 012S4	4-5/8	117	23-1/2	597	7-7/8	200	3-1/8	79	29-1/8	740	13-3/4	349
015 thru 018S4	4-5/8	117	32	813	7-7/8	200	3-1/8	79	37-3/4	959	13-3/4	349
024S4	7	178	32	813	10-1/4	260	3/4	19	37-3/4	959	13-3/4	349
030 thru 036S4	7	178	40-3/4	1035	10-1/4	260	3/4	19	46-1/2	1181	19-1/4	489
048S4	8	203	43	1092	11-3/8	289	1-3/4	44	48-7/8	1241	19-5/8	498



TOP VIEW



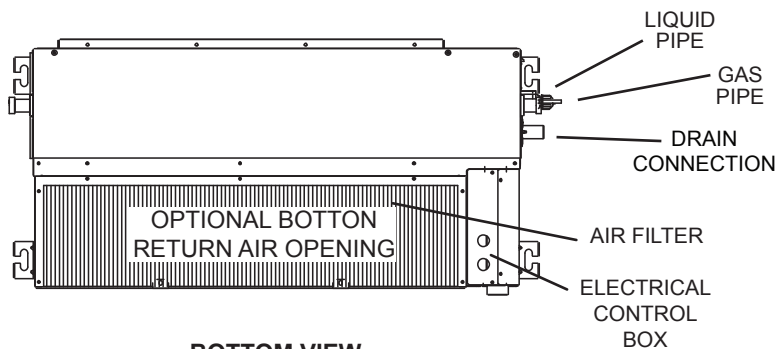
FRONT VIEW



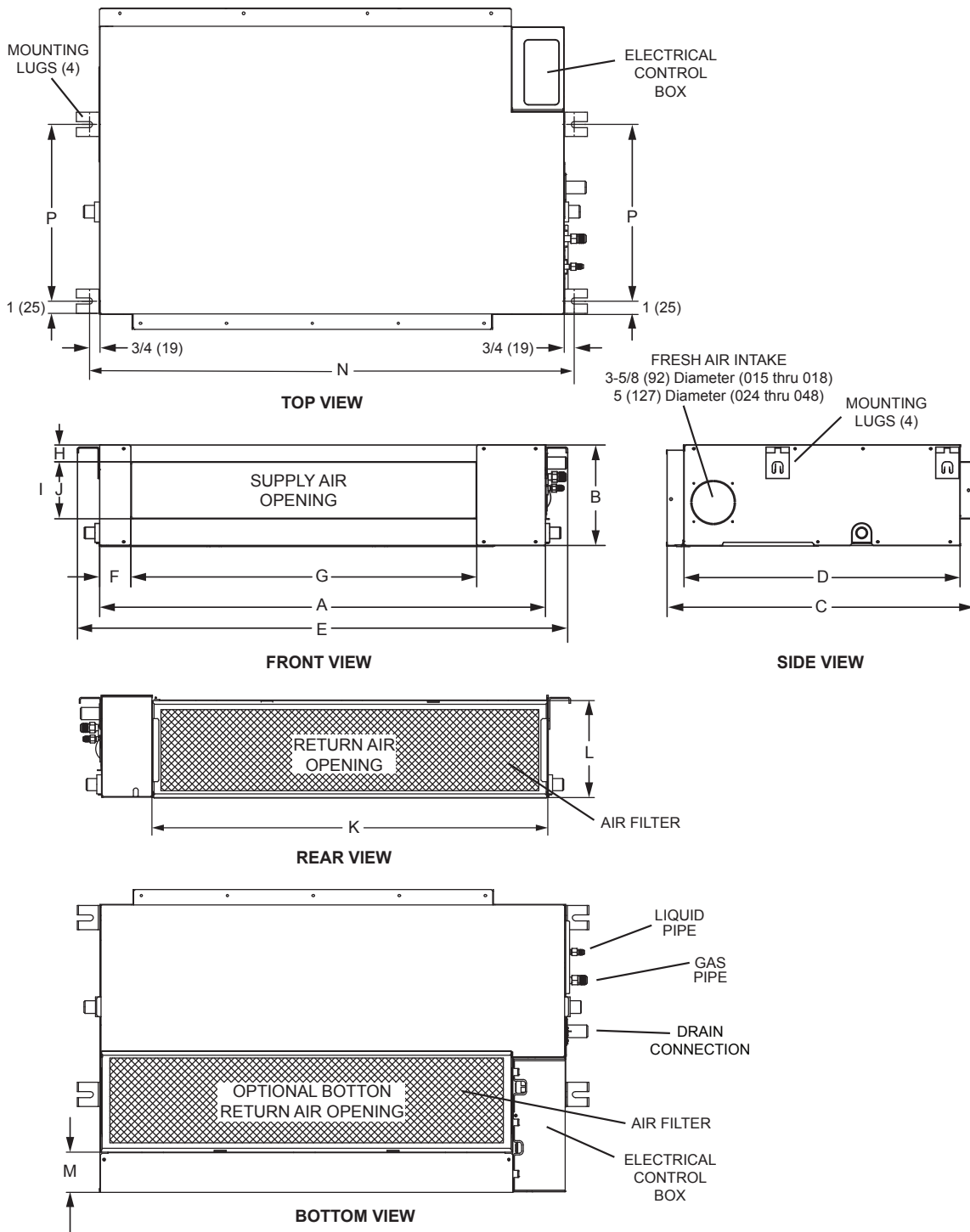
SIDE VIEW



REAR VIEW



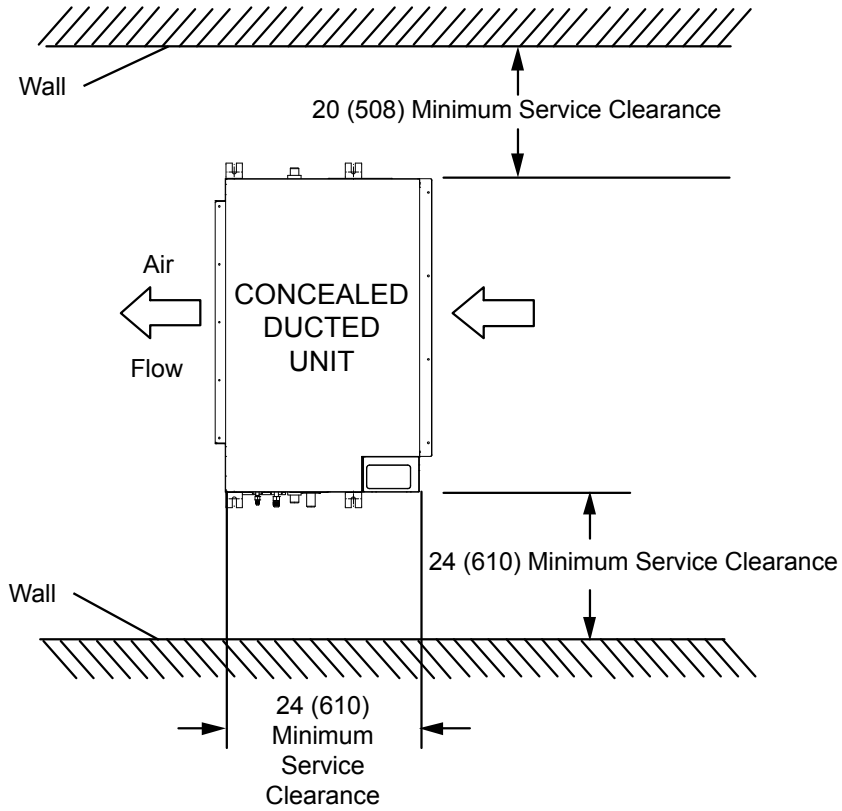
BOTTOM VIEW



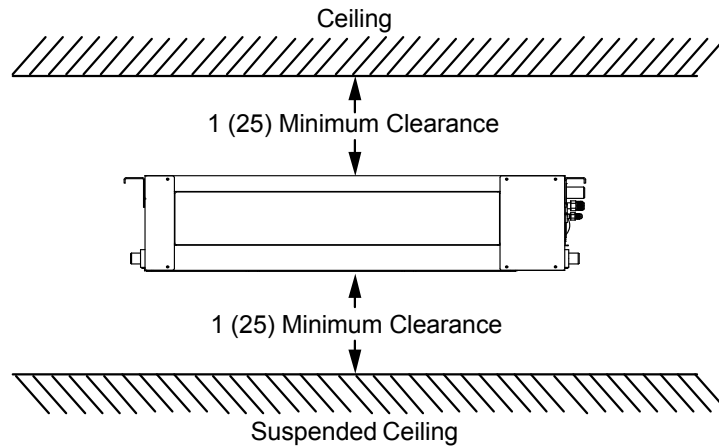
Size	A		B		C		D		E		F		G		H	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
015 thru 018H4	36-1/4	921	10-5/8	270	25	635	22-1/2	572	39-3/4	1010	2-5/8	67	28	711	1-3/8	35
024 thru 030H4	44-7/8	1140	10-5/8	270	30-1/2	775	28	711	48-1/2	1232	2-5/8	67	36-3/4	933	1-3/8	35
036 thru 048H4	47-1/4	1200	11-7/8	302	34-1/8	867	31-1/2	800	50-3/4	1289	3-1/8	79	38-1/8	968	1-1/2	38

Size	J		K		L		M		N		P	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
015 thru 018H4	7	178	32	831	10-1/4	260	3/4	19	37-3/4	959	13-3/4	349
024 thru 030H4	7	178	40-3/4	1035	10-1/4	260	3/4	19	46-1/2	1181	19-1/4	489
036 thru 048H4	8	203	43	1092	11-3/8	289	1-3/4	44	48-7/8	1241	19-5/8	498

INSTALLATION CLEARANCES



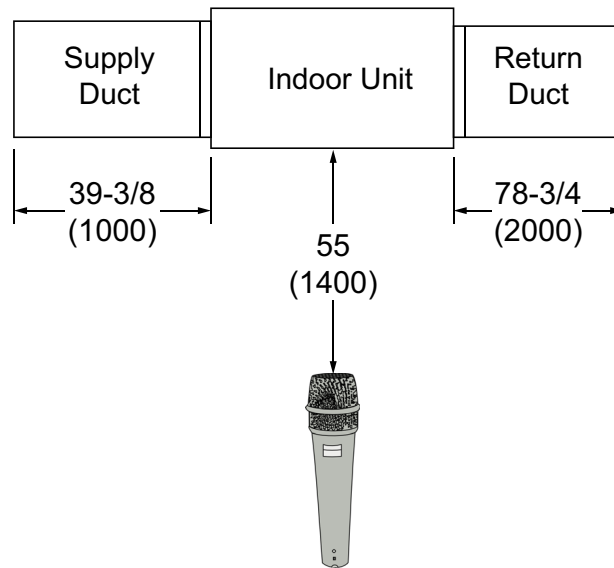
TOP VIEW



FRONT VIEW

SOUND DATA

SOUND LEVELS

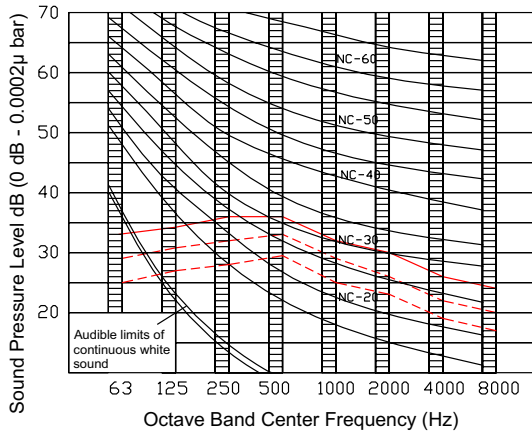


Model No.	Sound Rating Number (dBA)					
	Standard Efficiency			High Efficiency		
	Low	Medium	High	Low	Medium	High
VMDA007	29	32	35	36	37	38
VMDA009	29	32	35	35	37	39
VMDA012	30	33	36	36	37	38
VMDA015	30	34	37	41	43	46
VMDA018	30	34	37	41	43	47
VMDA024	32	37	40	44	46	49
VMDA030	34	40	43	52	54	57
VMDA036	40	42	46	44	46	49
VMDA048	40	42	46	51	53	55

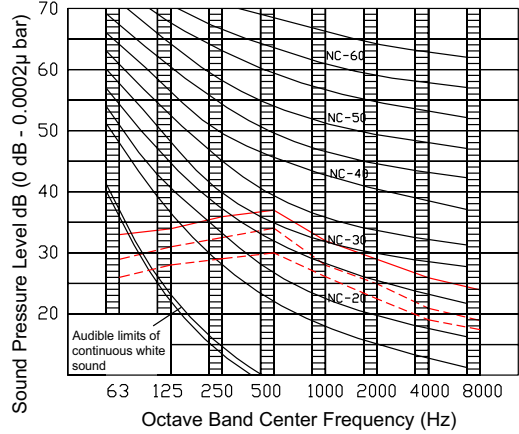
SOUND DATA - STANDARD EFFICIENCY

OCTAVE BAND LEVELS

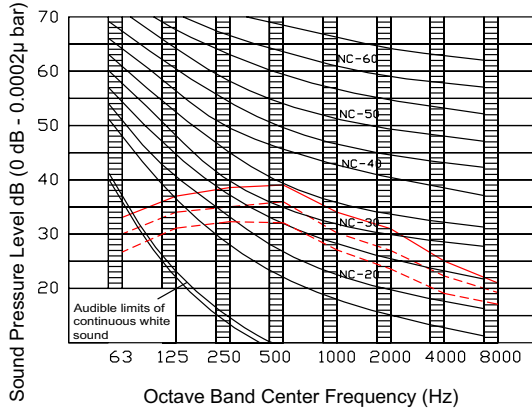
VMDA0007S4, VMDA009S4



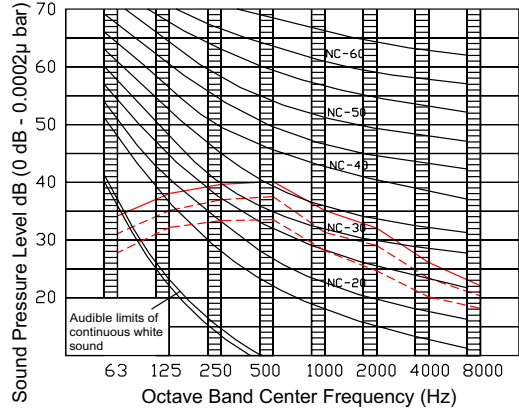
VMDA012S4



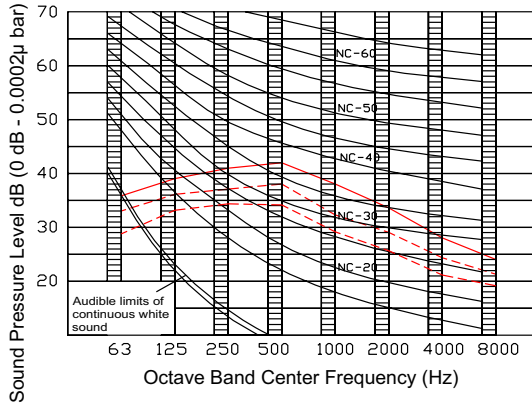
VMDA015S4, VMDA018S4



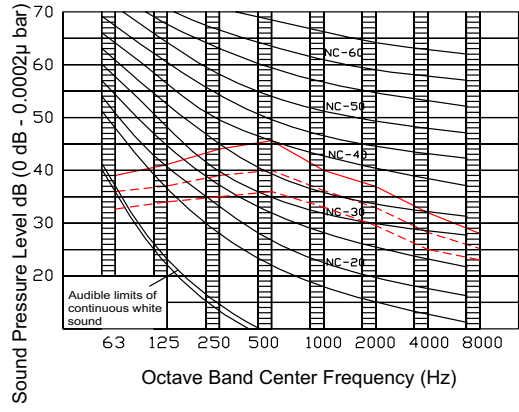
VMDA024S4



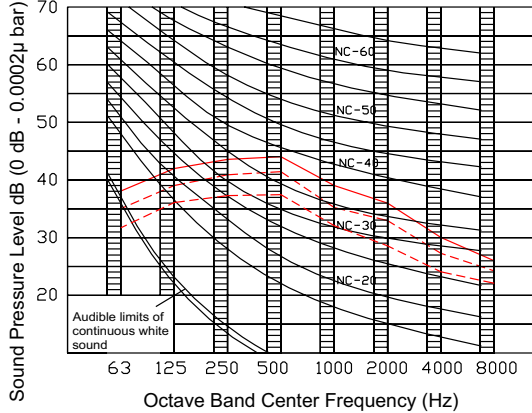
VMDA030S4



VMDA036S4



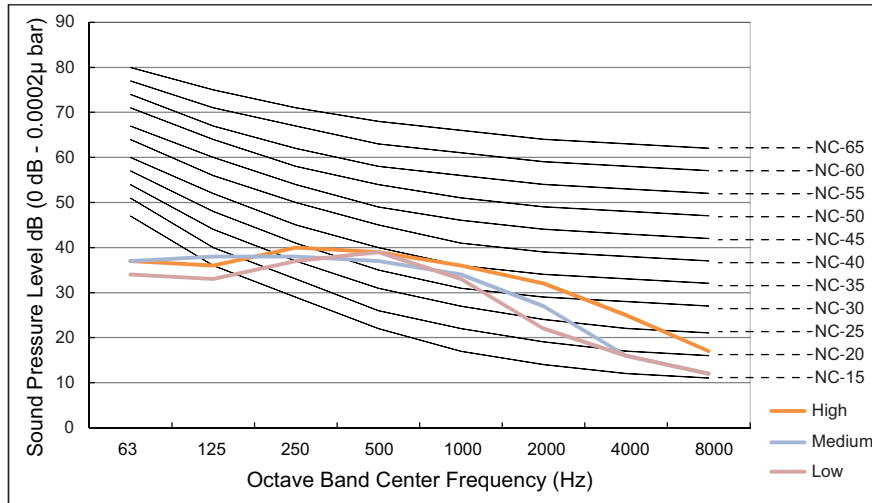
VMDA048S4



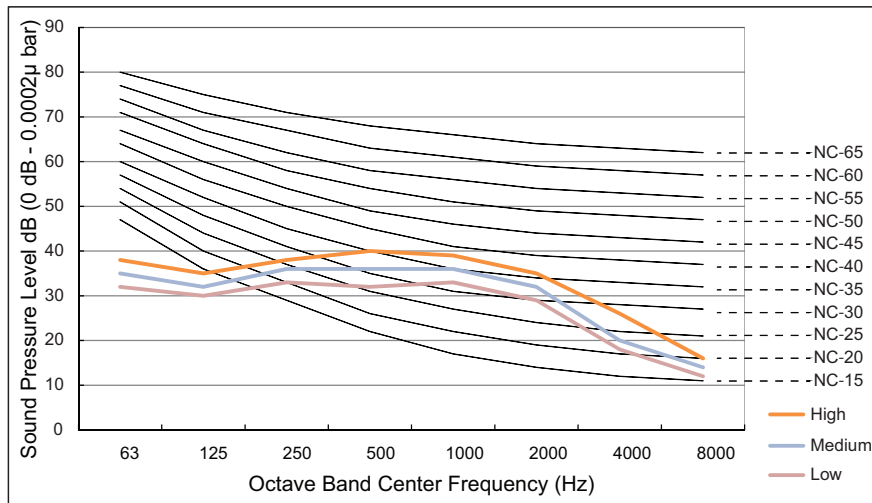
SOUND DATA - HIGH EFFICIENCY

OCTAVE BAND SOUND DATA

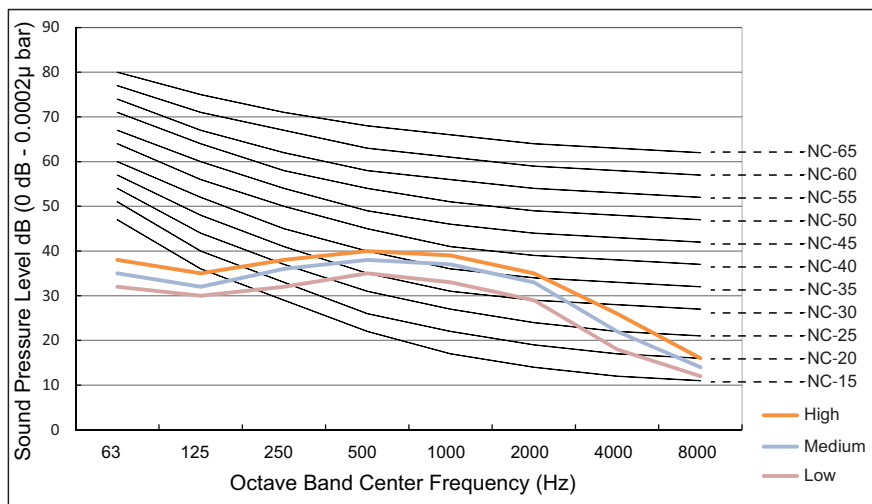
VMDA007H



VMDA009H



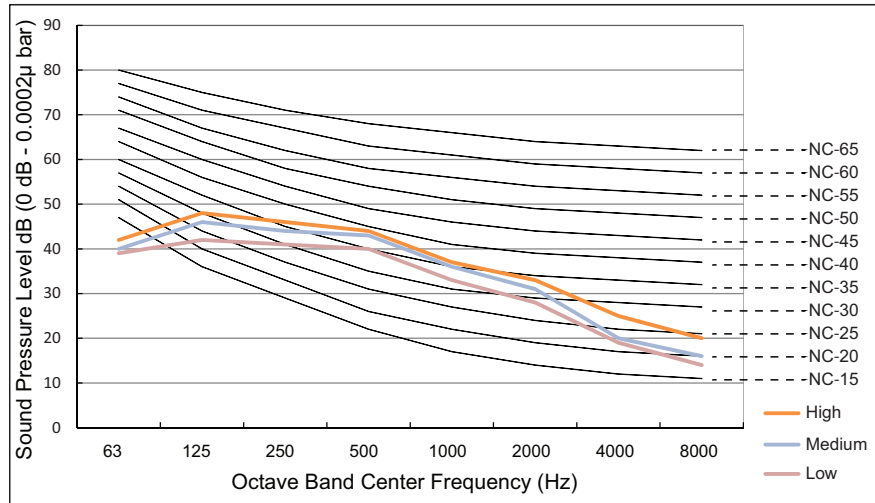
VMDA012H



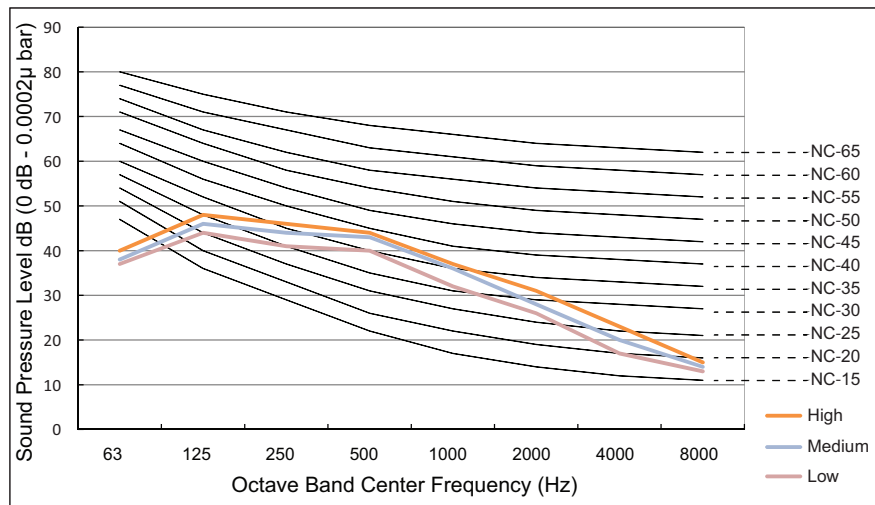
SOUND DATA - HIGH EFFICIENCY

OCTAVE BAND SOUND DATA

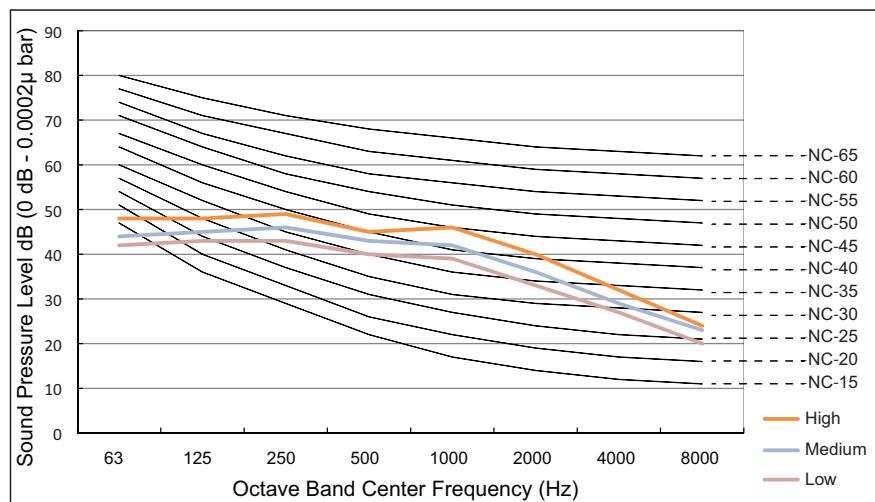
VMDA015H



VMDA018H



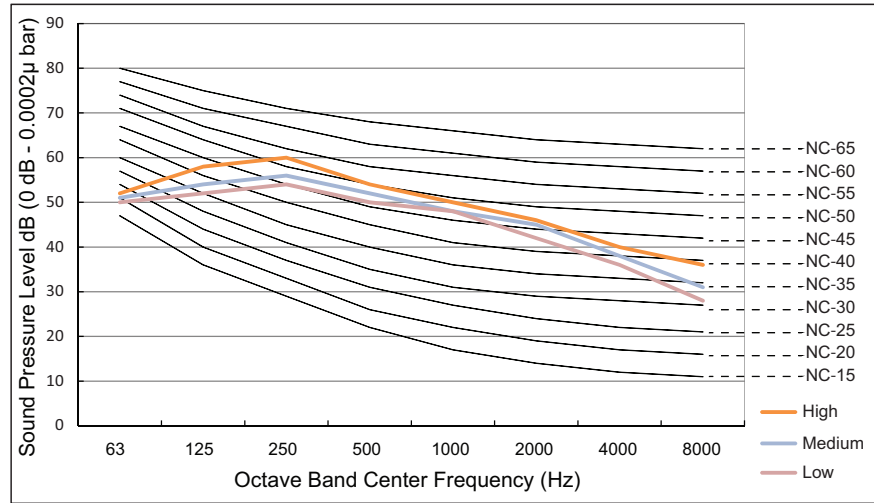
VMDA024H



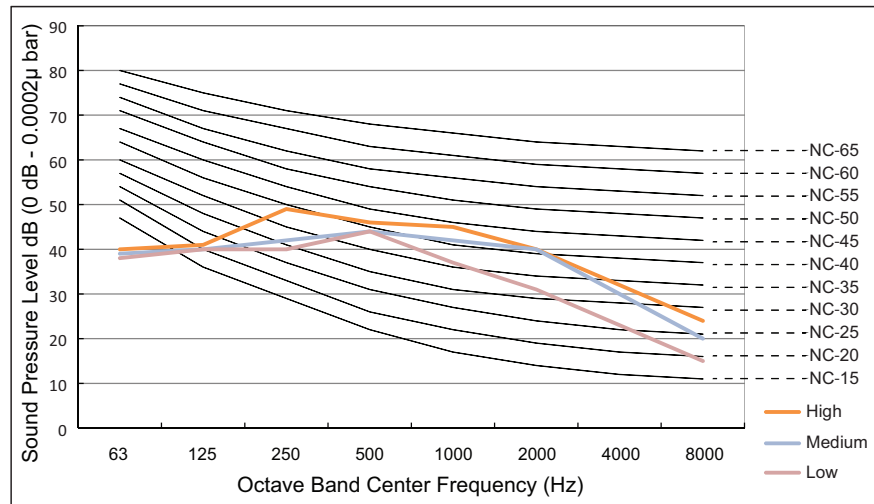
SOUND DATA - HIGH EFFICIENCY

OCTAVE BAND SOUND DATA

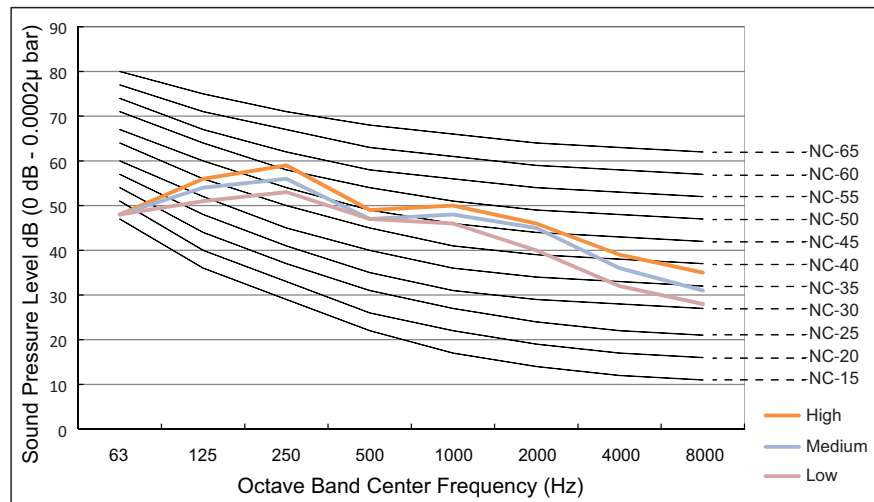
VMDA030H



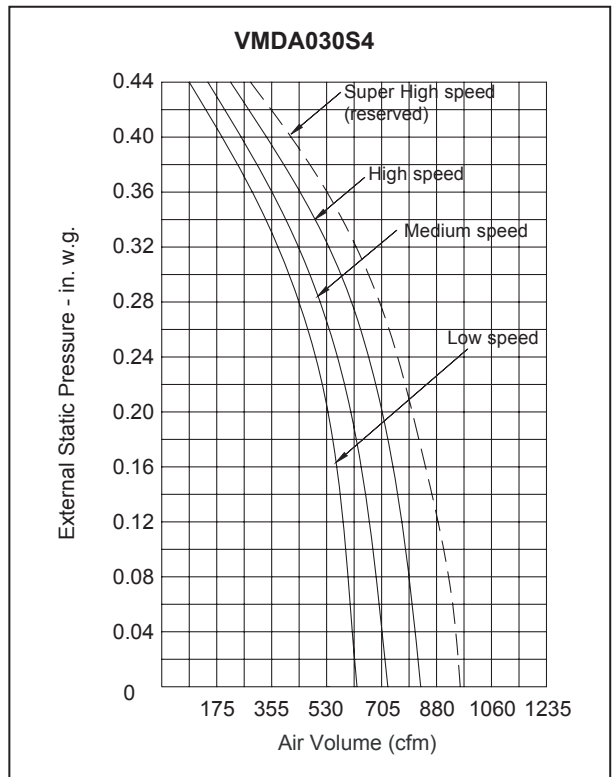
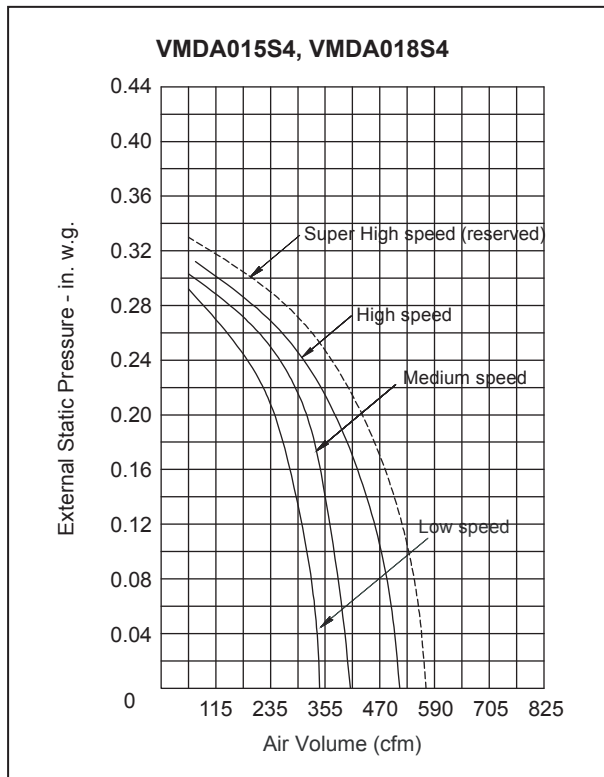
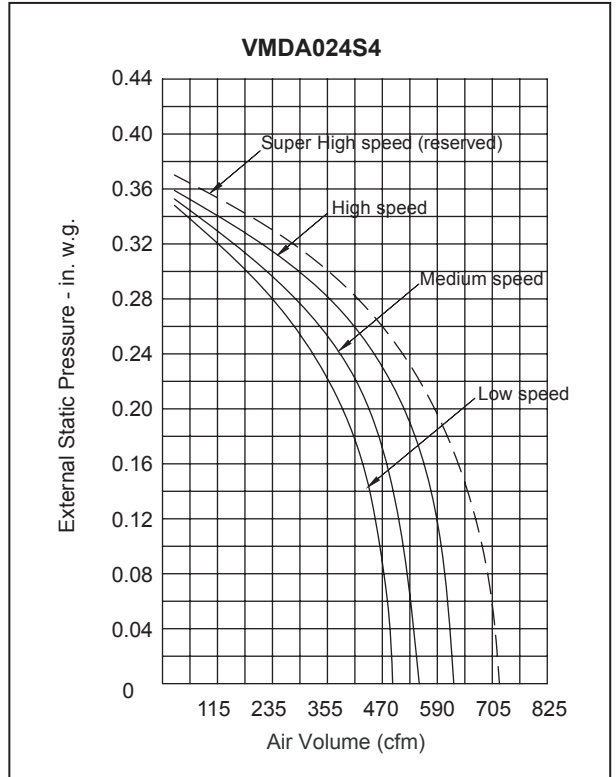
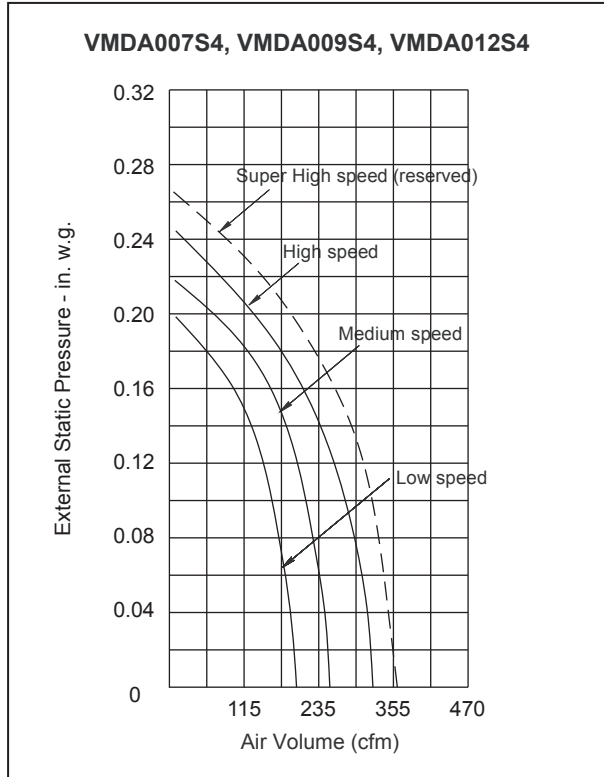
VMDA036H



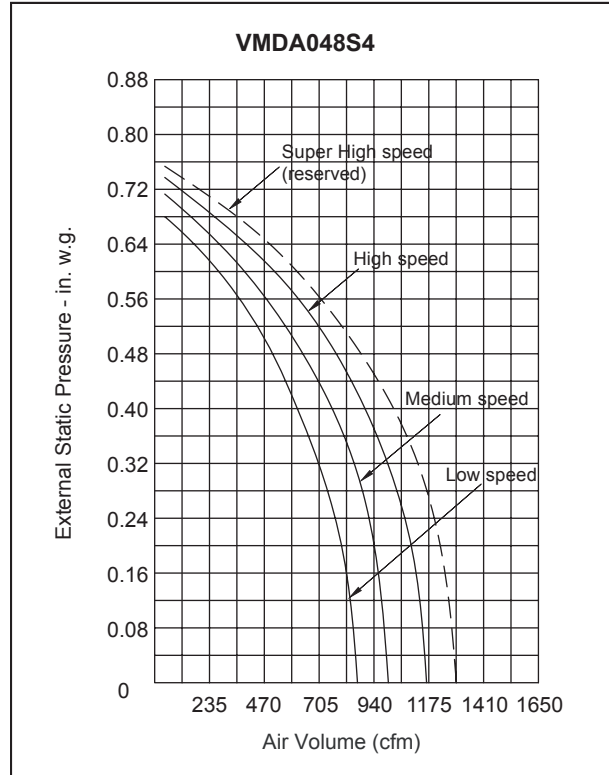
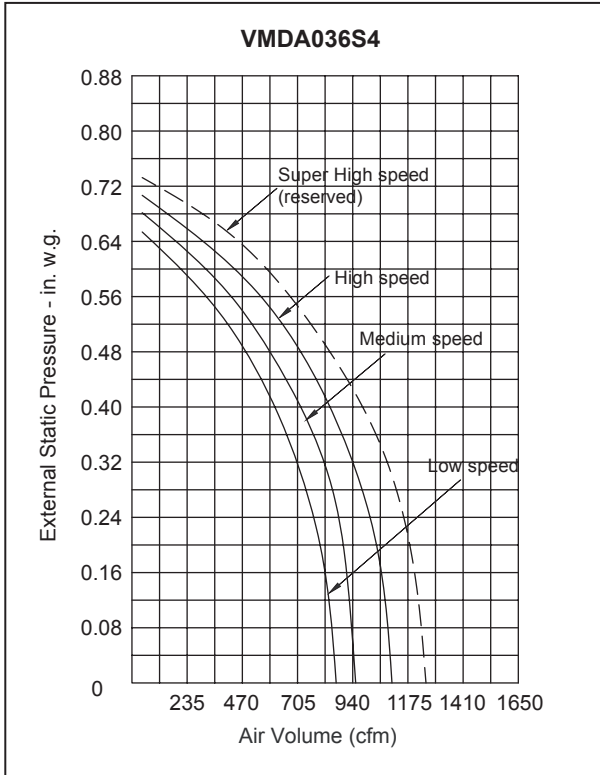
VMDA048H



BLOWER DATA - STANDARD EFFICIENCY

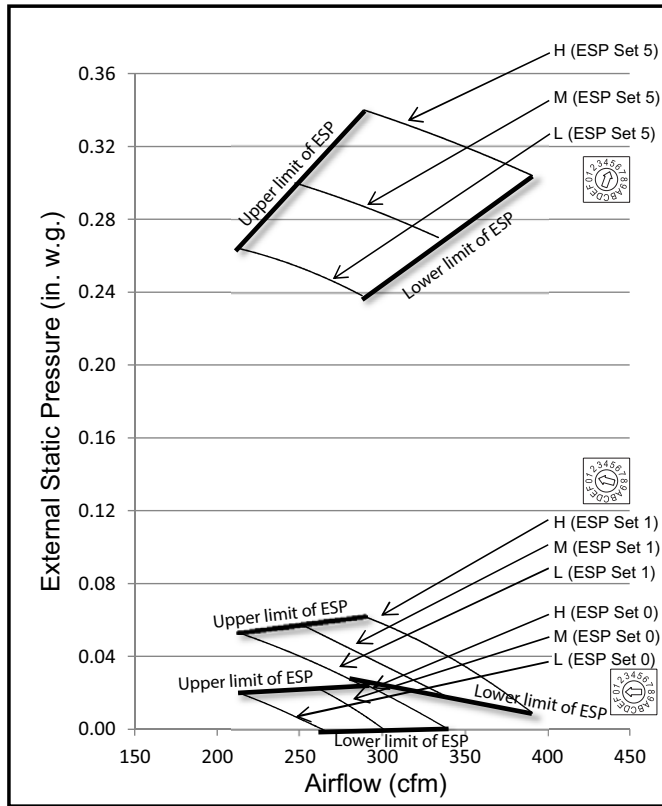


BLOWER DATA - STANDARD EFFICIENCY



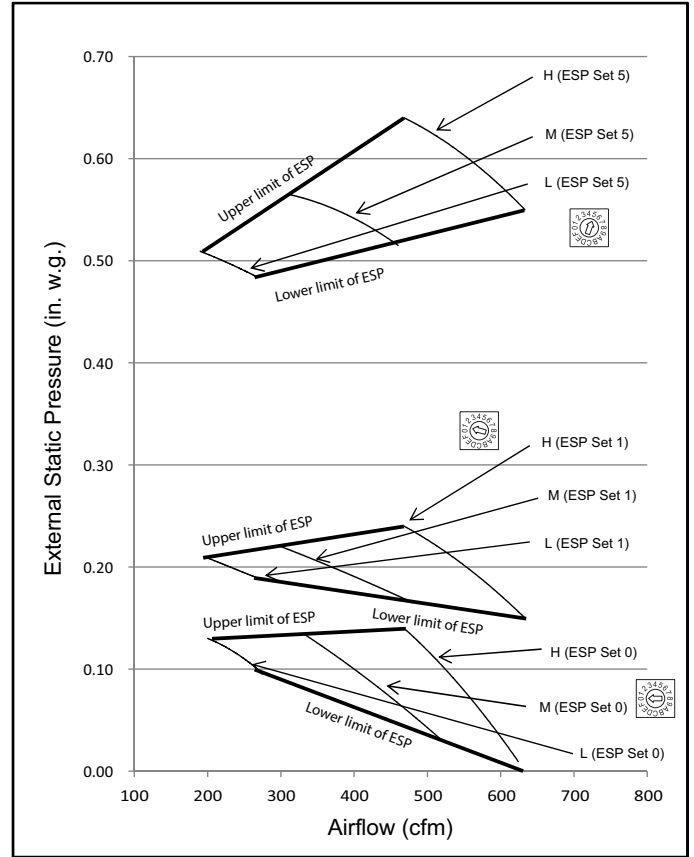
BLOWER DATA - HIGH EFFICIENCY

VMDA007H4, VMDA009H4, VMDA012H4



ESP Set No.	Fan Speed	Max Point		Mid Point		Min Point	
		Max. cfm	SP (in wg)	Mid. cfm	SP (in wg)	Min. cfm	SP (in wg)
2	H	391	0.05	340	0.08	289	0.11
	M	334	0.06	290	0.10	247	0.11
	L	288	0.06	250	0.08	213	0.10
3	H	391	0.12	340	0.14	289	0.16
	M	334	0.10	290	0.12	247	0.14
	L	288	0.09	250	0.11	213	0.12
4	H	391	0.19	340	0.21	289	0.23
	M	334	0.17	290	0.19	247	0.21
	L	288	0.14	250	0.16	213	0.17

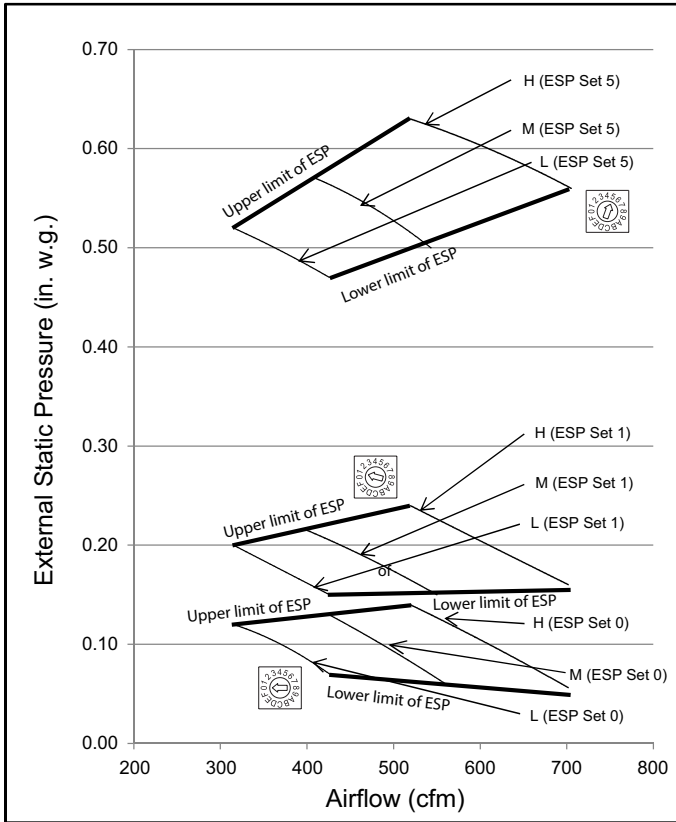
VMDA015H4



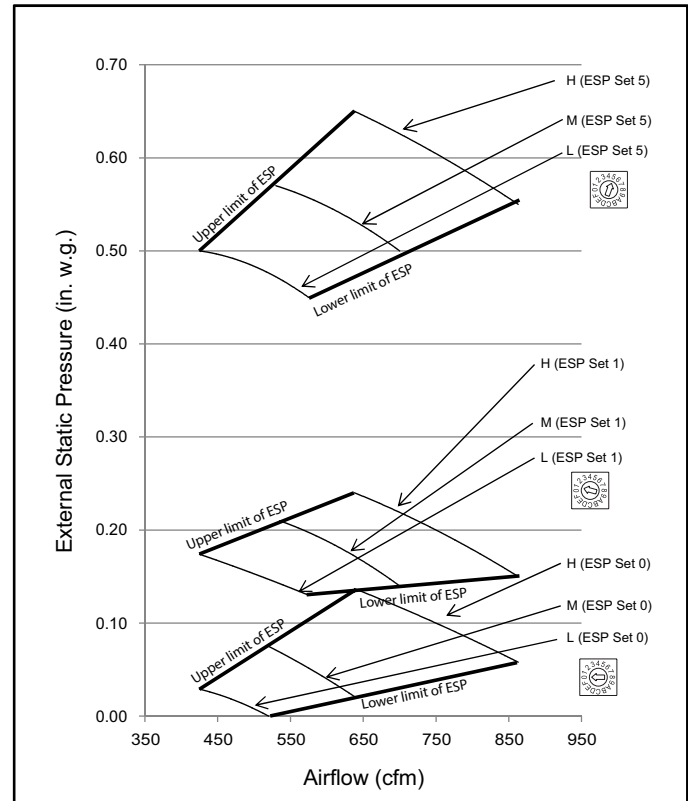
ESP Set No.	Fan Speed	Max Point		Mid Point		Min Point	
		Max. cfm	SP (in wg)	Mid. cfm	SP (in wg)	Min. cfm	SP (in wg)
2	H	633	0.24	550	0.30	468	0.34
	M	426	0.25	370	0.28	315	0.30
	L	265	0.25	230	0.26	196	0.28
3	H	633	0.38	550	0.40	468	0.45
	M	426	0.35	370	0.37	315	0.39
	L	265	0.35	230	0.36	196	0.37
4	H	633	0.45	550	0.50	468	0.53
	M	426	0.43	370	0.45	315	0.47
	L	265	0.37	230	0.39	196	0.40

BLOWER DATA - HIGH EFFICIENCY

VMDA018H4



VMDA024H4

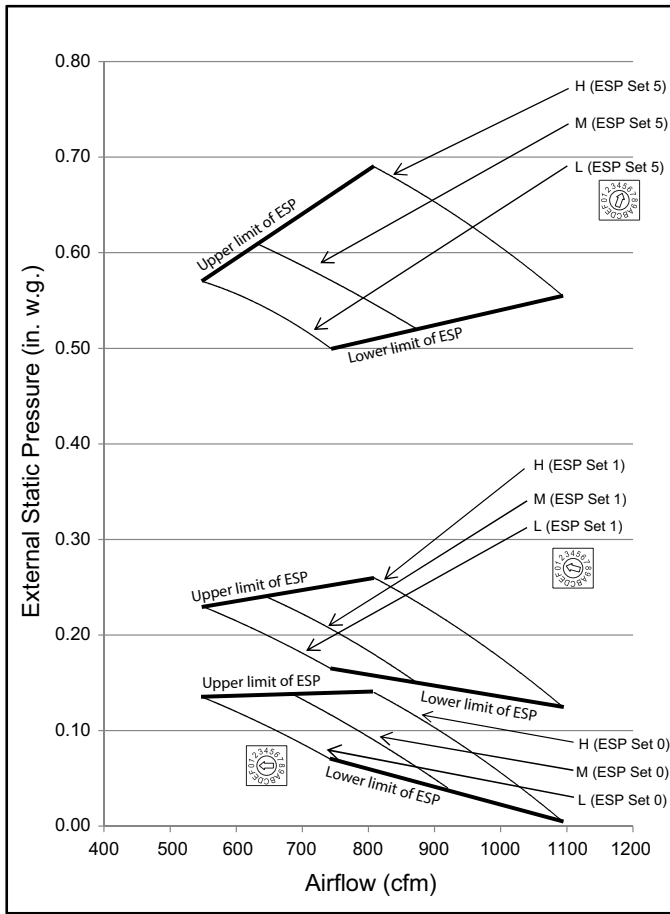


ESP Set No.	Fan Speed	Max Point		Mid Point		Min Point	
		Max. cfm	SP (in wg)	Mid. cfm	SP (in wg)	Min. cfm	SP (in wg)
2	H	702	0.26	610	0.30	519	0.36
	M	529	0.26	460	0.29	391	0.33
	L	426	0.22	370	0.25	315	0.33
3	H	702	0.32	610	0.40	519	0.42
	M	529	0.34	460	0.37	391	0.40
	L	426	0.30	370	0.32	315	0.35
4	H	702	0.49	610	0.50	519	0.57
	M	529	0.42	460	0.45	391	0.47
	L	426	0.37	370	0.40	315	0.42

ESP Set No.	Fan Speed	Max Point		Mid Point		Min Point	
		Max. cfm	SP (in wg)	Mid. cfm	SP (in wg)	Min. cfm	SP (in wg)
2	H	863	0.26	750	0.30	638	0.35
	M	690	0.24	600	0.27	510	0.29
	L	575	0.21	500	0.23	425	0.24
3	H	863	0.36	750	0.40	638	0.44
	M	690	0.32	600	0.35	510	0.37
	L	575	0.26	500	0.28	425	0.31
4	H	863	0.46	750	0.50	638	0.54
	M	690	0.40	600	0.44	510	0.47
	L	575	0.40	500	0.41	425	0.43

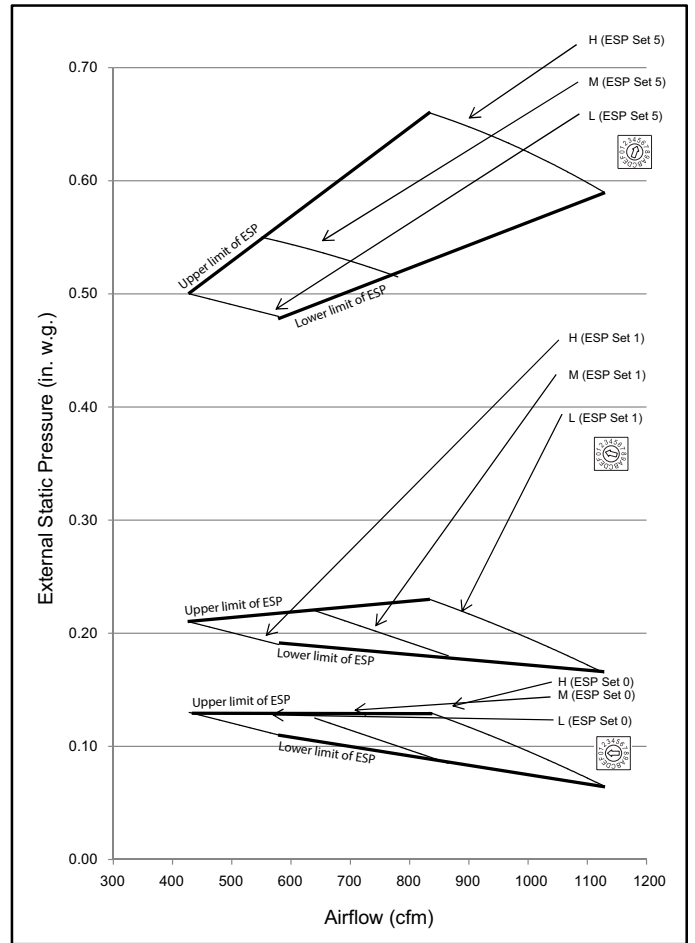
BLOWER DATA - HIGH EFFICIENCY

VMDA030H4



ESP Set No.	Fan Speed	Max Point		Mid Point		Min Point	
		Max. cfm	SP (in wg)	Mid. cfm	SP (in wg)	Min. cfm	SP (in wg)
2	H	1094	0.24	951	0.31	808	0.38
	M	874	0.24	760	0.30	646	0.34
	L	743	0.23	646	0.26	549	0.29
3	H	1094	0.36	951	0.43	808	0.49
	M	874	0.32	760	0.37	646	0.41
	L	743	0.30	646	0.34	549	0.37
4	H	1094	0.47	951	0.54	808	0.60
	M	874	0.42	760	0.44	646	0.48
	L	743	0.40	646	0.43	549	0.46

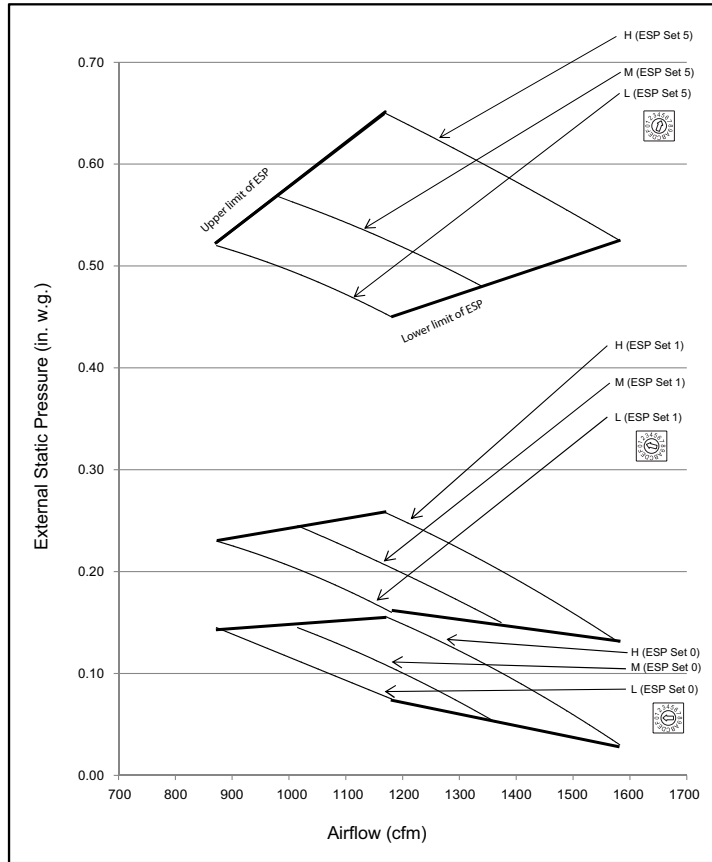
VMDA036H4



ESP Set No.	Fan Speed	Max Point		Mid Point		Min Point	
		Max. cfm	SP (in wg)	Mid. cfm	SP (in wg)	Min. cfm	SP (in wg)
2	H	1128	0.28	981	0.31	833	0.34
	M	866	0.28	753	0.29	640	0.31
	L	579	0.28	504	0.29	428	0.30
3	H	1128	0.37	981	0.41	833	0.44
	M	866	0.37	753	0.38	640	0.39
	L	579	0.37	504	0.37	428	0.38
4	H	1128	0.48	981	0.52	833	0.55
	M	866	0.44	753	0.46	640	0.48
	L	579	0.41	504	0.42	428	0.43

BLOWER DATA - HIGH EFFICIENCY

VMDA048H4



ESP Set No.	Fan Speed	Max Point		Mid Point		Min Point	
		Max. cfm	SP (in wg)	Mid. cfm	SP (in wg)	Min. cfm	SP (in wg)
2	H	1582	0.24	1376	0.31	1169	0.37
	M	1373	0.24	1194	0.30	1015	0.34
	L	1180	0.24	1027	0.28	873	0.31
3	H	1582	0.34	1376	0.41	1169	0.47
	M	1373	0.32	1194	0.38	1015	0.42
	L	1180	0.31	1027	0.35	873	0.38
4	H	1582	0.45	1376	0.52	1169	0.58
	M	1373	0.37	1194	0.42	1015	0.46
	L	1180	0.36	1027	0.40	873	0.43

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	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	9.31	7.11
	10	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	9.31	7.11
	15	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	9.28	7.09
	20	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	9.15	6.99
	25	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	9.01	6.88
	30	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	8.88	6.78
	35	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	8.75	6.68
	40	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	8.61	6.58
	45	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	8.48	6.47
	50	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.16	6.17	8.34	6.37
	55	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.14	6.16	8.21	6.27
	60	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	8.01	6.06	8.07	6.17
	65	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	7.87	5.96	7.94	6.06
	70	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	7.74	5.86	7.81	5.96
	75	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	7.60	5.76	7.67	5.86
	80	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	7.47	5.65	7.54	5.75
	85	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	7.34	5.55	7.40	5.65
	90	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	7.20	5.45	7.27	5.55
95	4.11	2.96	4.98	3.67	5.84	4.40	7.00	5.33	7.07	5.35	7.13	5.45	
100	4.11	2.96	4.98	3.67	5.84	4.40	6.87	5.23	6.93	5.25	7.00	5.34	
105	4.11	2.96	4.98	3.67	5.84	4.40	6.73	5.12	6.78	5.13	6.79	5.18	
110	4.11	2.96	4.98	3.67	5.84	4.40	6.33	4.82	6.48	4.91	6.58	5.02	
115	4.11	2.96	4.76	3.51	4.88	3.68	5.03	3.83	5.19	3.93	5.34	4.08	
118	3.90	2.81	4.02	2.97	4.14	3.12	4.29	3.27	4.45	3.37	4.60	3.51	
009	5	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	11.98	9.14
	10	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	11.98	9.14
	15	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	11.93	9.11
	20	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	11.77	8.98
	25	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	11.59	8.85
	30	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	11.42	8.72
	35	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	11.25	8.59
	40	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	11.07	8.45
	45	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	10.90	8.32
	50	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.49	7.94	10.73	8.19
	55	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.47	7.92	10.55	8.06
	60	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.30	7.79	10.38	7.93
	65	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	10.12	7.66	10.21	7.79
	70	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	9.95	7.53	10.04	7.66
	75	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	9.78	7.40	9.86	7.53
	80	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	9.60	7.27	9.69	7.40
	85	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	9.43	7.14	9.52	7.27
	90	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	9.26	7.01	9.35	7.14
95	5.28	3.81	6.40	4.72	7.51	5.66	9.00	6.85	9.09	6.88	9.17	7.00	
100	5.28	3.81	6.40	4.72	7.51	5.66	8.83	6.72	8.91	6.75	8.99	6.87	
105	5.28	3.81	6.40	4.72	7.51	5.66	8.65	6.59	8.71	6.59	8.72	6.66	
110	5.28	3.81	6.40	4.72	7.51	5.66	8.14	6.19	8.34	6.31	8.46	6.46	
115	5.28	3.81	6.12	4.52	6.27	4.73	6.47	4.92	6.67	5.05	6.87	5.25	
118	5.02	3.62	5.17	3.81	5.32	4.01	5.52	4.20	5.72	4.33	5.92	4.52	

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	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.97	12.19
	10	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.97	12.19
	15	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.91	12.15
	20	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.69	11.98
	25	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.45	11.80
	30	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	15.22	11.62
	35	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	14.99	11.45
	40	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	14.76	11.27
	45	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	14.53	11.10
	50	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.98	10.58	14.30	10.92
	55	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.96	10.56	14.07	10.74
	60	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.73	10.39	13.84	10.57
	65	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.50	10.22	13.61	10.39
	70	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.27	10.04	13.38	10.22
	75	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	13.04	9.87	13.15	10.04
	80	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	12.81	9.69	12.92	9.87
	85	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	12.58	9.52	12.69	9.69
	90	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	12.35	9.34	12.46	9.51
95	7.04	5.07	8.53	6.29	10.02	7.55	12.00	9.13	12.12	9.17	12.23	9.34	
100	7.04	5.07	8.53	6.29	10.02	7.55	11.77	8.96	11.89	9.00	11.99	9.16	
105	7.04	5.07	8.53	6.29	10.02	7.55	11.54	8.78	11.62	8.79	11.63	8.88	
110	7.04	5.07	8.53	6.29	10.02	7.55	10.85	8.26	11.12	8.41	11.27	8.61	
115	7.04	5.07	8.16	6.02	8.36	6.30	8.63	6.57	8.89	6.73	9.16	6.99	
118	6.69	4.82	6.89	5.08	7.09	5.34	7.36	5.60	7.62	5.77	7.89	6.02	
015	5	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.96	15.24
	10	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.96	15.24
	15	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.89	15.18
	20	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.61	14.97
	25	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.32	14.75
	30	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	19.03	14.53
	35	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	18.74	14.31
	40	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	18.45	14.09
	45	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	18.17	13.87
	50	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.48	13.23	17.88	13.65
	55	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.45	13.20	17.59	13.43
	60	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	17.16	12.99	17.30	13.21
	65	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	16.87	12.77	17.02	12.99
	70	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	16.58	12.55	16.73	12.77
	75	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	16.30	12.33	16.44	12.55
	80	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	16.01	12.12	16.15	12.33
	85	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	15.72	11.90	15.86	12.11
	90	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	15.43	11.68	15.58	11.89
95	8.80	6.34	10.66	7.87	12.52	9.44	15.00	11.42	15.14	11.46	15.29	11.67	
100	8.80	6.34	10.66	7.87	12.52	9.44	14.71	11.20	14.86	11.24	14.99	11.45	
105	8.80	6.34	10.66	7.87	12.52	9.44	14.42	10.98	14.52	10.99	14.54	11.10	
110	8.80	6.34	10.66	7.87	12.52	9.44	13.56	10.32	13.90	10.52	14.09	10.76	
115	8.80	6.34	10.20	7.53	10.45	7.88	10.78	8.21	11.12	8.41	11.45	8.74	
118	8.36	6.03	8.61	6.35	8.86	6.68	9.20	7.00	9.53	7.21	9.86	7.53	

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	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	25.28	19.30
	10	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	25.28	19.30
	15	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	25.19	19.23
	20	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	24.84	18.96
	25	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	24.47	18.68
	30	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	24.10	18.40
	35	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	23.74	18.13
	40	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	23.38	17.85
	45	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	23.01	17.57
	50	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.14	16.76	22.65	17.29
	55	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	22.10	16.73	22.28	17.01
	60	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	21.73	16.45	21.92	16.73
	65	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	21.37	16.17	21.55	16.46
	70	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	21.01	15.90	21.19	16.18
	75	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	20.64	15.62	20.82	15.90
	80	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	20.28	15.35	20.46	15.62
	85	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	19.91	15.07	20.09	15.34
	90	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	19.55	14.79	19.73	15.06
95	11.15	8.03	13.50	9.96	15.86	11.96	19.00	14.46	19.18	14.52	19.37	14.79	
100	11.15	8.03	13.50	9.96	15.86	11.96	18.64	14.18	18.82	14.24	18.99	14.50	
105	11.15	8.03	13.50	9.96	15.86	11.96	18.27	13.91	18.39	13.92	18.42	14.06	
110	11.15	8.03	13.50	9.96	15.86	11.96	17.18	13.08	17.60	13.32	17.85	13.63	
115	11.15	8.03	12.92	9.53	13.24	9.98	13.66	10.40	14.08	10.66	14.50	11.07	
118	10.59	7.63	10.91	8.05	11.22	8.46	11.65	8.87	12.07	9.14	12.49	9.54	
024	5	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	31.93	24.38
	10	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	31.93	24.38
	15	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	31.82	24.30
	20	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	31.37	23.95
	25	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	30.91	23.60
	30	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	30.45	23.25
	35	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	29.99	22.89
	40	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	29.53	22.54
	45	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	29.07	22.19
	50	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.97	21.17	28.61	21.84
	55	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.91	21.13	28.15	21.49
	60	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	27.45	20.78	27.68	21.14
	65	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	26.99	20.43	27.22	20.79
	70	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	26.53	20.08	26.76	20.43
	75	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	26.07	19.73	26.30	20.08
	80	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	25.61	19.39	25.84	19.73
	85	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	25.15	19.04	25.38	19.38
	90	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	24.69	18.69	24.92	19.03
95	14.08	10.15	17.06	12.59	20.03	15.10	24.00	18.27	24.23	18.34	24.46	18.68	
100	14.08	10.15	17.06	12.59	20.03	15.10	23.54	17.92	23.77	17.99	23.99	18.31	
105	14.08	10.15	17.06	12.59	20.03	15.10	23.08	17.57	23.23	17.59	23.27	17.76	
110	14.08	10.15	17.06	12.59	20.03	15.10	21.70	16.52	22.23	16.83	22.55	17.21	
115	14.08	10.15	16.32	12.04	16.72	12.61	17.25	13.13	17.79	13.46	18.32	13.99	
118	13.38	9.64	13.78	10.17	14.18	10.69	14.71	11.20	15.25	11.54	15.78	12.05	

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	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	39.92	30.48
	10	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	39.92	30.48
	15	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	39.78	30.37
	20	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	39.22	29.94
	25	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	38.63	29.50
	30	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	38.06	29.06
	35	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	37.48	28.62
	40	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	36.91	28.18
	45	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	36.33	27.74
	50	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.96	26.46	35.76	27.30
	55	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.89	26.41	35.18	26.86
	60	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	34.32	25.97	34.61	26.42
	65	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	33.74	25.54	34.03	25.98
	70	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	33.17	25.10	33.45	25.54
	75	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	32.59	24.67	32.88	25.10
	80	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	32.02	24.23	32.30	24.66
	85	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	31.44	23.80	31.73	24.22
	90	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	30.86	23.36	31.15	23.78
95	17.60	12.69	21.32	15.73	25.04	18.88	30.00	22.83	30.29	22.92	30.58	23.35	
100	17.60	12.69	21.32	15.73	25.04	18.88	29.42	22.40	29.71	22.49	29.98	22.89	
105	17.60	12.69	21.32	15.73	25.04	18.88	28.85	21.96	29.04	21.98	29.08	22.20	
110	17.60	12.69	21.32	15.73	25.04	18.88	27.12	20.64	27.79	21.03	28.18	21.52	
115	17.60	12.69	20.40	15.05	20.90	15.76	21.57	16.42	22.23	16.83	22.90	17.48	
118	16.72	12.05	17.22	12.71	17.72	13.36	18.39	14.00	19.06	14.42	19.72	15.06	
036	5	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	50.56	38.60
	10	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	50.56	38.60
	15	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	50.38	38.47
	20	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	49.68	37.93
	25	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	48.94	37.36
	30	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	48.21	36.81
	35	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	47.48	36.25
	40	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	46.75	35.69
	45	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	46.02	35.14
	50	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.28	33.52	45.29	34.58
	55	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	44.20	33.45	44.56	34.02
	60	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	43.47	32.90	43.83	33.47
	65	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	42.74	32.35	43.11	32.91
	70	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	42.01	31.80	42.38	32.35
	75	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	41.28	31.25	41.65	31.80
	80	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	40.55	30.69	40.92	31.24
	85	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	39.82	30.14	40.19	30.68
	90	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	39.09	29.59	39.46	30.13
95	22.30	16.07	27.01	19.93	31.72	23.91	38.00	28.92	38.37	29.04	38.73	29.57	
100	22.30	16.07	27.01	19.93	31.72	23.91	37.27	28.37	37.64	28.49	37.98	28.99	
105	22.30	16.07	27.01	19.93	31.72	23.91	36.54	27.81	36.79	27.84	36.84	28.13	
110	22.30	16.07	27.01	19.93	31.72	23.91	34.36	26.15	35.20	26.64	35.70	27.26	
115	22.30	16.07	25.84	19.07	26.47	19.96	27.32	20.79	28.16	21.32	29.01	22.15	
118	21.18	15.26	21.82	16.10	22.45	16.92	23.29	17.73	24.14	18.27	24.98	19.07	

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
048	5	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	63.87	48.76
	10	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	63.87	48.76
	15	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	63.64	48.59
	20	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	62.75	47.91
	25	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	61.82	47.20
	30	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	60.89	46.49
	35	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	59.97	45.79
	40	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	59.05	45.09
	45	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	58.13	44.38
	50	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.93	42.34	57.21	43.68
	55	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	55.83	42.26	56.29	42.98
	60	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	54.91	41.56	55.37	42.27
	65	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	53.99	40.86	54.45	41.57
	70	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	53.07	40.16	53.53	40.87
	75	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	52.15	39.47	52.61	40.17
	80	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	51.22	38.77	51.69	39.46
	85	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	50.30	38.07	50.77	38.76
	90	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	49.38	37.38	49.84	38.06
	95	28.17	20.30	34.12	25.17	40.07	30.21	48.00	36.54	48.46	36.68	48.92	37.35
	100	28.17	20.30	34.12	25.17	40.07	30.21	47.08	35.83	47.54	35.98	47.97	36.63
105	28.17	20.30	34.12	25.17	40.07	30.21	46.16	35.13	46.47	35.17	46.53	35.53	
110	28.17	20.30	34.12	25.17	40.07	30.21	43.40	33.03	44.46	33.65	45.09	34.43	
115	28.17	20.30	32.64	24.08	33.44	25.21	34.51	26.27	35.58	26.93	36.64	27.98	
118	26.76	19.28	27.56	20.33	28.36	21.38	29.42	22.40	30.49	23.08	31.56	24.09	

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					
007	-13	-14	3.61	3.45	3.29	3.13	2.96	2.85
	-8	-9	4.04	3.88	3.72	3.55	3.39	3.28
	-3	-4	4.47	4.31	4.14	3.98	3.82	3.71
	2	1	4.90	4.73	4.57	4.41	4.25	4.14
	7	6	5.32	5.16	5.00	4.84	4.67	4.56
	12	10	5.67	5.50	5.34	5.18	5.02	4.91
	17	15	6.09	5.93	5.77	5.61	5.44	5.33
	22	20	6.52	6.36	6.20	6.03	5.87	5.76
	27	24	6.86	6.70	6.54	6.38	6.21	6.10
	32	29	7.29	7.13	6.97	6.80	6.64	6.53
	37	34	7.72	7.56	7.39	7.23	7.07	6.96
	42	38	8.06	7.90	7.74	7.57	7.41	7.07
	47	43	8.49	8.33	8.16	8.00	7.44	7.07
	52	47	8.83	8.67	8.51	8.00	7.44	7.07
	57	52	9.26	9.10	8.56	8.00	7.44	7.07
	62	56	9.60	9.12	8.56	8.00	7.44	7.07
	67	61	9.67	9.12	8.56	8.00	7.44	7.07
72	66	9.67	9.12	8.56	8.00	7.44	7.07	
75	69	9.67	9.12	8.56	8.00	7.44	7.07	
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					
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	
036	-13	-14	16.50	15.65	14.79	13.94	13.08	12.51
	-8	-9	18.96	18.11	17.25	16.40	15.54	14.98
	-3	-4	21.43	20.57	19.72	18.86	18.01	17.44
	2	1	23.89	23.03	22.18	21.32	20.47	19.90
	7	6	26.35	25.50	24.64	23.79	22.93	22.36
	12	10	28.32	27.47	26.61	25.76	24.90	24.33
	17	15	30.78	29.93	29.07	28.22	27.36	26.80
	22	20	33.25	32.39	31.54	30.68	29.83	29.26
	27	24	35.22	34.36	33.51	32.65	31.80	31.23
	32	29	37.68	36.82	35.97	35.11	34.26	33.69
	37	34	40.14	39.29	38.43	37.58	36.72	36.15
	42	38	42.11	41.26	40.40	39.55	38.69	37.12
	47	43	44.57	43.72	42.86	42.00	39.07	37.12
	52	47	46.54	45.69	44.83	42.00	39.07	37.12
	57	52	49.01	47.86	44.93	42.00	39.07	37.12
	62	56	50.79	47.86	44.93	42.00	39.07	37.12
	67	61	50.79	47.86	44.93	42.00	39.07	37.12
72	66	50.79	47.86	44.93	42.00	39.07	37.12	
75	69	50.79	47.86	44.93	42.00	39.07	37.12	

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
048	-13	-14	24.61	23.51	22.41	21.31	20.21	19.48
	-8	-9	27.47	26.38	25.28	24.18	23.08	22.35
	-3	-4	30.34	29.24	28.15	27.05	25.95	25.21
	2	1	33.21	32.11	31.01	29.92	28.82	28.08
	7	6	36.08	34.98	33.88	32.78	31.68	30.95
	12	10	38.38	37.28	36.18	35.08	33.98	33.25
	17	15	41.24	40.15	39.05	37.95	36.85	36.12
	22	20	44.11	43.01	41.91	40.82	39.72	38.98
	27	24	46.41	45.31	44.21	43.11	42.01	41.28
	32	29	49.28	48.18	47.08	45.98	44.88	44.15
	37	34	52.14	51.05	49.95	48.85	47.75	47.02
	42	38	54.44	53.34	52.24	51.14	50.04	47.72
	47	43	57.31	56.21	55.11	54.00	50.23	47.72
	52	47	59.60	58.50	57.41	54.00	50.23	47.72
	57	52	62.47	61.37	57.77	54.00	50.23	47.72
	62	56	64.77	61.53	57.77	54.00	50.23	47.72
67	61	65.30	61.53	57.77	54.00	50.23	47.72	
72	66	65.30	61.53	57.77	54.00	50.23	47.72	
75	69	65.30	61.53	57.77	54.00	50.23	47.72	

NOTE - MBH = 1000 BTUs per hour.

REVISIONS

Sections	Description of Change
Specifications	Added filter sizes.



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