### **Manufactured Housing**

### **HVAC EQUIPMENT GUIDE**

Electric Furnaces, 80% Gas Furnaces 95% Gas Furnaces, Coils and Accessories



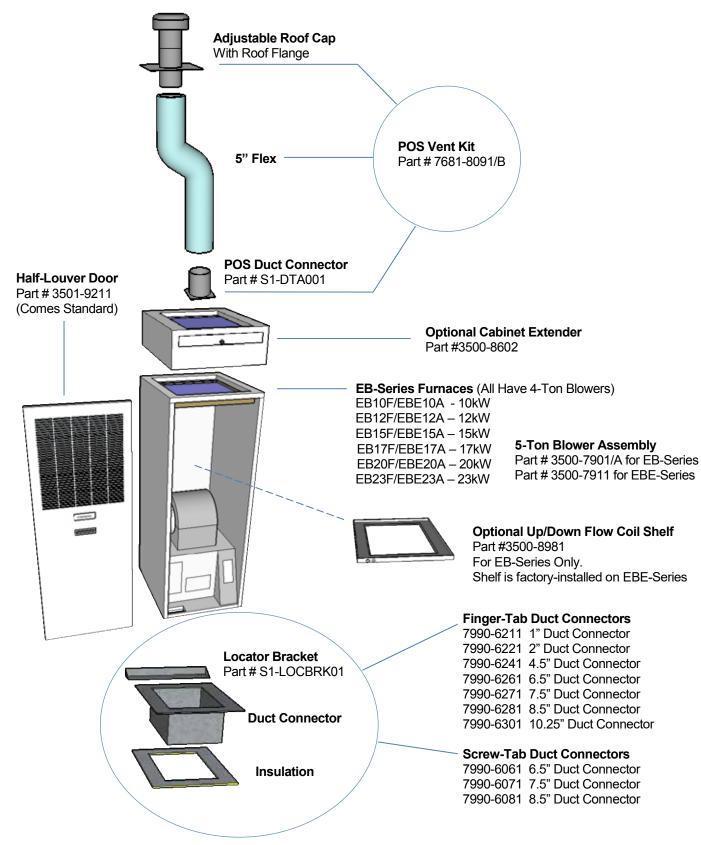


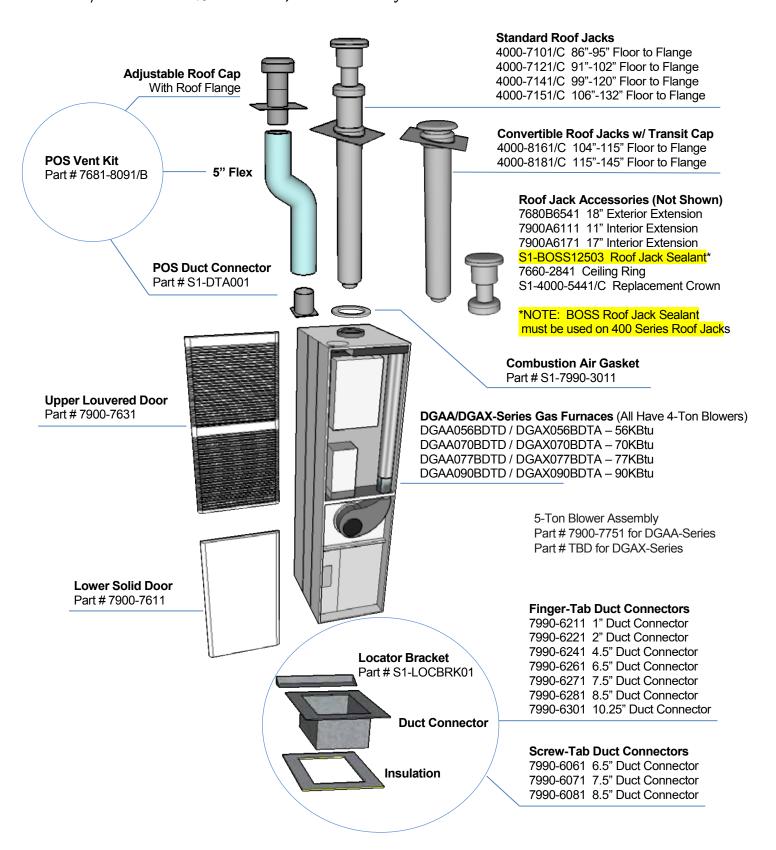
# Manufactured Housing HVAC Equipment Guide

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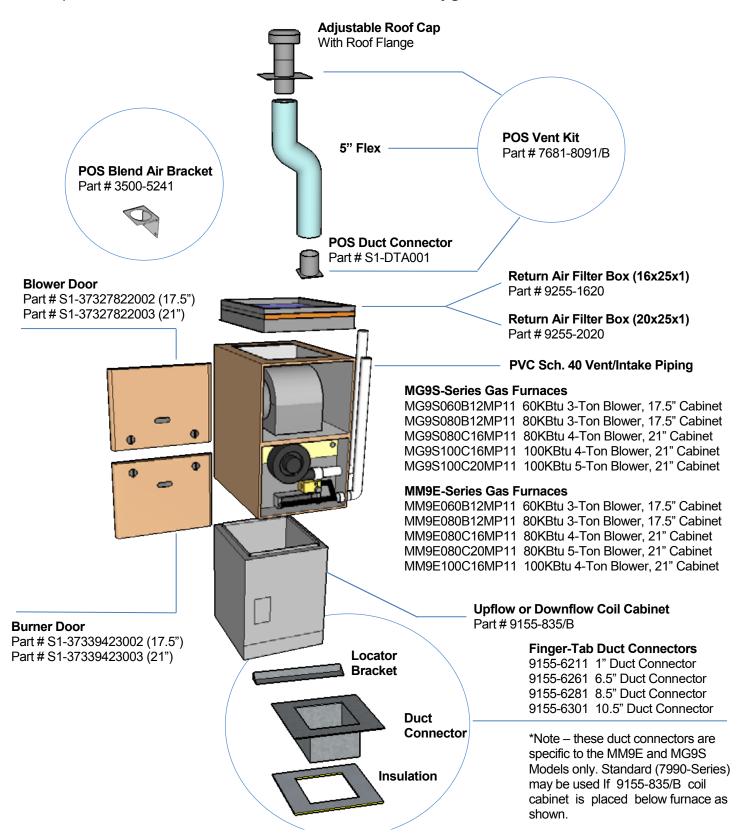


EB/EBE-Series Electric Furnace in default *Down-Flow Configuration* 

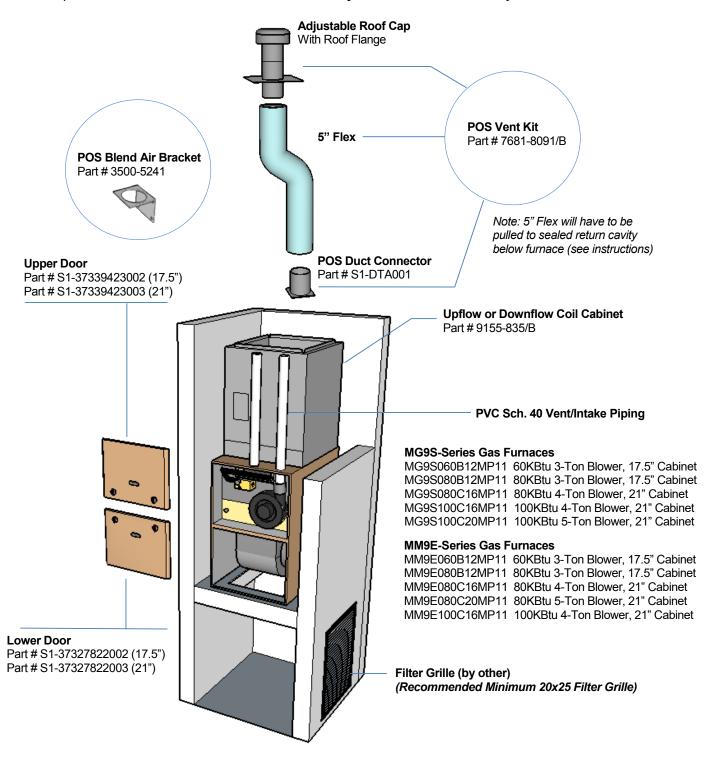


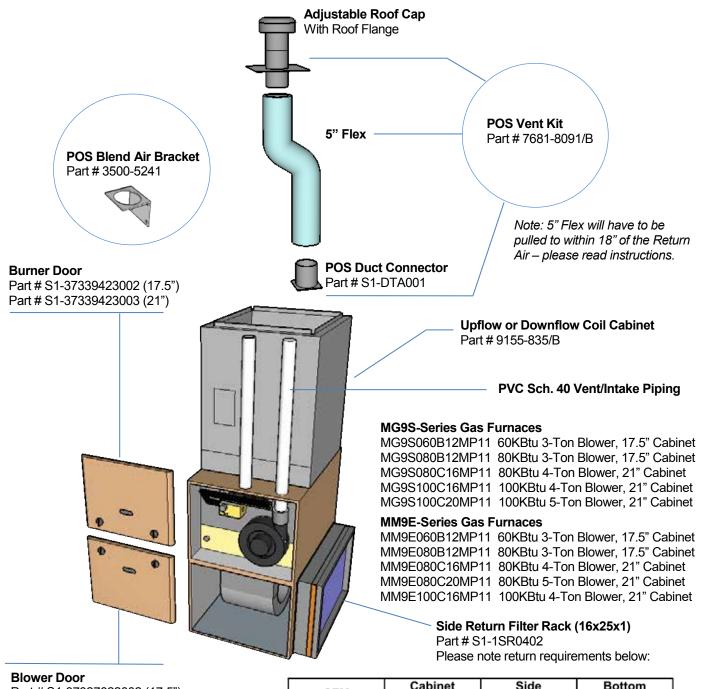


#### MG9S/MM9E-Series 95% Gas Furnace in default *Down-Flow Configuration*



#### MG9S/MM9E-Series 95% Gas Furnace, converted to Up-Flow on Fabricated Shelf





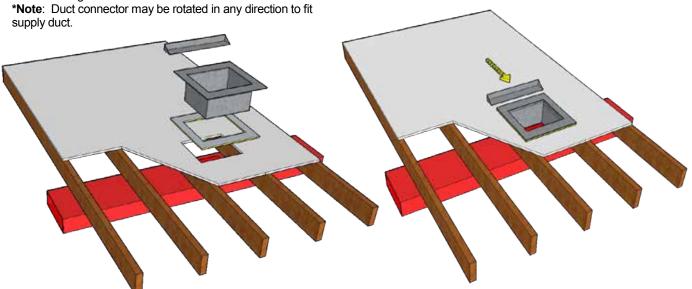
Blower Door
Part # S1-37327822002 (17.5'
Part # S1-37327822003 (21")

CFM	Cabinet Size	Side (in)	Bottom (in)
1200	В	16 x 25	16 x 25
1600	С	16 x 25	20 x 25
2000	С	(2) 16 x 25	20 x 25
2000	D	(2) 16 x 25	22 x 25

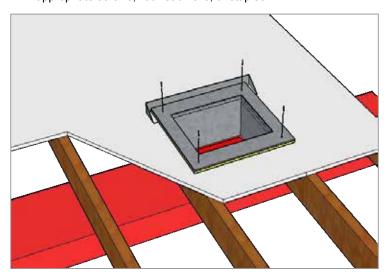
#### Typical Duct Connector Installation:

Step 1: Rectangular hole is cut in finished floor above existing supply duct. Select duct connector based on distance/depth from finished floor to supply duct. Duct connector is lowered into hole through insulation ring. Corresponding hole is cut in supply duct to match duct connector finger/screw tabs.

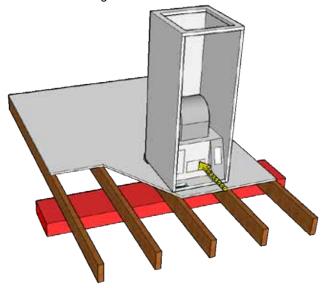
Step 2: Duct connector is then attached and sealed to supply duct using industry-approved methods. Locator plate is then slid underneath and centered side-to-side on the flange of duct connector to act as the backstop for the furnace.



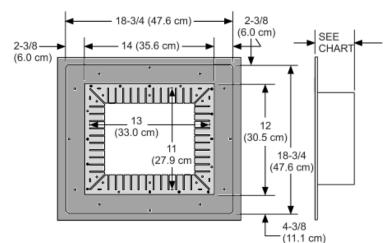
**Step 3**: Duct connector is then attached to the floor using appropriate screws, flat-head nails, or staples.



**Step 4**: Furnace is slid back to against locator plate and secured to floor using methods detailed in install manual.



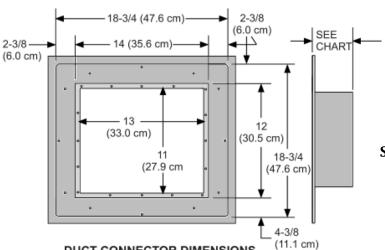
Duct Connector Dimensions for DGAA/DGAX-Series Gas Furnaces and EB/EBE-Series Electric Furnaces:



Finger-Tab Duct Conne

#### DUCT CONNECTOR DIMENSIONS

DUCT CONNECTOR PART NUMBER	DUCT CONNECTOR DEPTH
7990-6211	1" (2.5 cm)
7990-6221	2" (5.7 cm)
7990-6241	4-1/2" (11.4 cm
7990-6261	6-1-2" (16.5 cm)
7990-6271	7-1/2" (19.0 cm)
7990-6281	8-1/2" (21.6 cm)
7990-6301	10-1/4" (26.0 cm)



**Screw-Tab Duct Connectors** 

 DUCT CONNECTOR DIMENSIONS

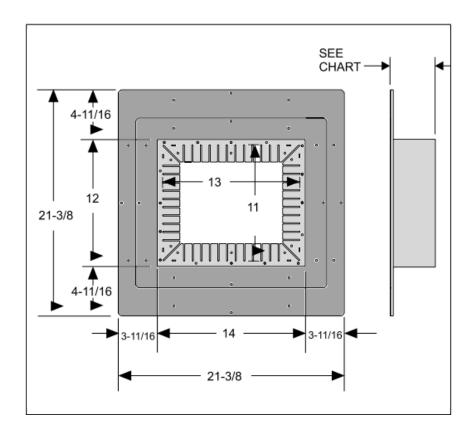
 DUCT CONNECTOR PART NUMBER
 DUCT CONNECTOR DEPTH

 7990-6061
 6-1-2" (16.5 cm)

 7990-6071
 7-1/2" (19.0 cm)

 7990-6081
 8-1/2" (21.6 cm)

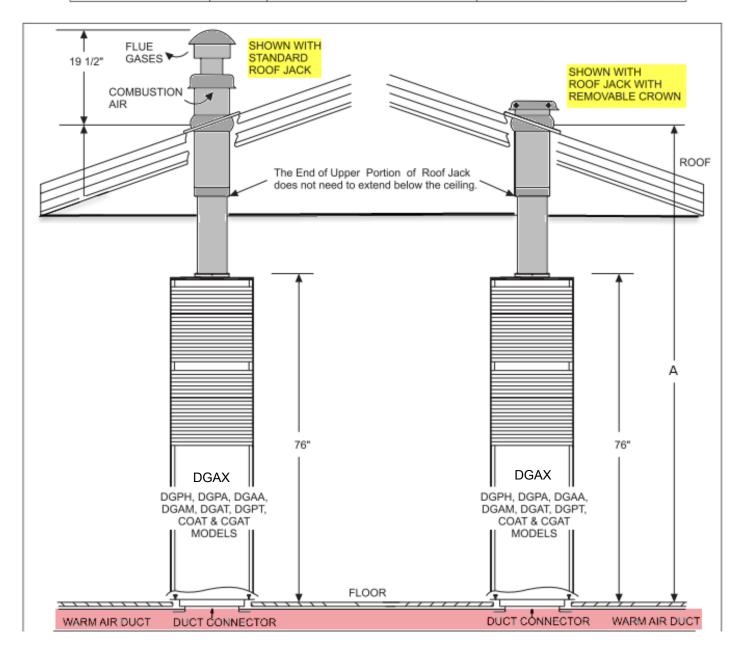
Duct Connector Dimensions for MG9S/MM9E-Series Gas Furnaces:



**Finger-Tab Duct Connectors** 

DUCT CONNECTOR PART NUMBER	DUCT CONNECTOR DEPTH
9155-6211	1"
9155-6261	6-1/2"
9155-6281	8-1/2"
9155-6301	10-1/2"

SWIVEL FLASHING	INSTAI	LLATION DIMENSIONS
ADJUSTS FROM 0/12 TO 5/12 PITCH		"A" ADJUSTABLE HEIGHT 76" CASING
	STANDARD ROOF JACK	<u>'</u>
4000-7101/C		86" to 95"
4000-7121/C	1	91" to 102"
4000-7141/C		99" to 120"
4084-7141*		99 to 120
4000-7151/C		106" to 132"
4084-7151*		100 to 132
	ROOF JACK WITH REMOVABLE CROV	WN
4000-8161/C		101" to 117"
4000-8181/C		115" to 145"



DGAA/DGAX-Series Gas Furnace Orifice Information (one orifice per furnace):

NOTE: Part Numbers of orifices will always begin with an "S1-" prefix – for instance: **S1-9951-1361** 

NATURAL GAS													
Elevation		56,000	0 — Inpi	ut	70	0,000 —	Input	77	7,000 —	Input	90	0,000 —	- Input
Feet	Meters	Orifice Dia.	Drill Size	Part #									
Sea Leve	i	0.136	29	9951-1361	0.154	23	9951-1541	0.161	20	9951-1611	0.180	15	9951-1801
2,000	618	0.136	29	9951-1361	0.149	25	9951-1491	0.157	22	9951-1571	0.177	16	9951-1771
3,000	914	0.128	30	9951-1281	0.149	25	9951-1491	0.157	22	9951-1571	0.173	17	9951-1731
4,000	1219	0.128	30	9951-1281	0.147	26	9951-1471	0.154	23	9951-1541	0.173	17	9951-1731
5,000	1524	0.128	30	9951-1281	0.144	27	9951-1441	0.152	24	9951-1521	0.169	18	9951-1691
6,000	1829	0.128	30	9951-1281	0.144	27	9951-1441	0.149	25	9951-1491	0.166	19	9951-1661
7,000	2134	0.120	31	9951-1201	0.140	28	9951-1401	0.147	26	9951-1471	0.161	20	9951-1611
8,000	2438	0.120	31	9951-1201	0.136	29	9951-1361	0.144	27	9951-1441	0.161	20	9951-1611
9,000	2743	0.120	31	9951-1201	0.136	29	9951-1361	0.140	28	9951-1401	0.157	22	9951-1571
10,000	3048	0.116	32	9951-1161	0.128	30	9951-1281	0.136	29	9951-1361	0.152	24	9951-1521
					-	PROPA	NE GAS						
Elevation		56,000	0 — Inpi	ut	70	0,000 —	Input	77	7,000 —	Input	90	0,000 —	- Input
Feet	Meters	Orifice Dia.	Drill Size	Part #									
Sea Leve	i	0.082	45	9951-0821	0.093	42	9951-0931	0.098	40	9951-0981	0.106	36	9951-1061
2,000	618	0.081	46	9951-0811	0.093	42	9951-0931	0.096	41	9951-0961	0.104	37	9951-1041
3,000	914	0.078	47	9951-0781	0.089	43	9951-0891	0.093	42	9951-0931	0.101	38	9951-1011
4,000	1219	0.078	47	9951-0781	0.089	43	9951-0891	0.093	42	9951-0931	0.101	38	9951-1011
5,000	1524	0.078	47	9951-0781	0.089	43	9951-0891	0.093	42	9951-0931	0.099	39	9951-0991
6,000	1829	0.076	48	9951-0761	0.086	44	9951-0861	0.089	43	9951-0891	0.098	40	9951-0981
7,000	2134	0.076	48	9951-0761	0.086	44	9951-0861	0.089	43	9951-0891	0.096	41	9951-0961
8,000	2438	0.073	49	9951-0731	0.082	45	9951-0821	0.086	44	9951-0861	0.096	41	9951-0961
9,000	2743	0.073	49	9951-0731	0.081	46	9951-0811	0.086	44	9951-0861	0.093	42	9951-0931
10,000	3048	0.070	50	9951-0700	0.078	47	9951-0781	0.082	45	9951-0821	0.089	43	9951-0891

#### MG9S/MM9E-Series Gas Furnace Orifice Information (multiple orifices per furnace):

Natural Gas										
Furnace Model	# of Burners	Part Number								
MG9S060B12MP11	3	S1-02921182245								
MG9S080B12MP11	4	S1-02921182245								
MG9S080C16MP11	4	S1-02921182245								
MG9S100C16MP11	5	S1-02921182245								
MG9S100C20MP11	5	S1-02921182245								
MM9E060B12MP11	3	S1-02921182245								
MM9E080B12MP11	4	S1-02921182245								
MM9E080C16MP11	4	S1-02921182245								
MM9E080C20MP11	5	S1-02921182245								
MM9E100C16MP11	5	S1-02921182245								

Propane Gas									
Furnace Model	# of Burners	Part Number							
MG9S060B12MP11	3	S1-02921182255							
MG9S080B12MP11	4	S1-02921182255							
MG9S080C16MP11	4	S1-02921182255							
MG9S100C16MP11	5	S1-02921182255							
MG9S100C20MP11	5	S1-02921182255							
MM9E060B12MP11	3	S1-02921182255							
MM9E080B12MP11	4	S1-02921182255							
MM9E080C16MP11	4	S1-02921182255							
MM9E080C20MP11	5	S1-02921182255							
MM9E100C16MP11	5	S1-02921182255							

MG9S/MM9E-Series High-Altitude (above 5000' elevation) Pressure Switches:

# **CMH Series**

#### **SPECIFICATIONS**

- · Rifled copper tubing, enhanced aluminum fins
- Immersion-tested at 500 psi, then nitrogen-pressurized and sealed
- · Left-hand refrigerant and plumbing connections
- · Externally mounted flowrater body with Schrader valve
- · Heavy duty plastic drain pans on all models
- AHRI certifiable with certain brands of A/C and heat pump systems
- UL listed for use with both R-22 and R-410a when proper metering device is used

For the latest AHRI system matches, please visit www.marsdeliversratings.com or AHRIdirectory.com

## MANUFACTURED HOUSING COILS



Representative drawing only.
Some models may vary in appearance.

TXV for 1.5 - 2.5 Ton H4TXV01 TXV for 3 - 4 Ton H4TXV02 TXV for 5 Ton H4TXV03





#### A/C MATCHES

COMFORT-AIRE/CI	ENTURY A/C MATCHES						
OUTDOOR MODEL	COIL MODEL	SEER	EER	CAPACITY	HSPF	TXV	
RSG1318S1M	CMH18/36PM1M	13.00	11.00	17600	N/A	N/A	
RSG1324S1M	CMH18/36PM1M	13.00	11.00	22800	N/A	N/A	
RSG1330S1M	CMH18/36PM1M	13.00	11.00	28000	N/A	N/A	
RSG1336S1M	CMH18/36PM1M+TXV	13.00	10.00	33400	N/A	H4TXV02	
RSG1342S1M	CMH42/48PM1M	13.00	10.50	39000	N/A	N/A	
RSG1348S1M	CMH42/48PM1M	13.00	10.00	44000	N/A	N/A	
RSG1418S1M	CMH18/36PM1M	14.00	12.20	18000	N/A	N/A	
RSG1424S1M	CMH18/36PM1M	14.00	12.20	23000	N/A	N/A	
RSG1430S1M	СМН36РМ2М	14.00	12.20	28000	N/A	N/A	
RSG1436S1M	СМН36РМ2М	14.00	12.20	34000	N/A	N/A	
RSG1418S1P	CMH18/36PM1M+TXV+TD	14	12.2	18000	N/A	H4TXV01	
RSG1424S1P	CMH24/30PM1M+TD	14	12.2	23000	N/A	H4TXV01	
RSG1424S1P	CMH24/30PM1M+TXV+TD	14.5	12.2	23000	N/A	H4TXV01	
RSG1424S1P	CMH18/36PM1M+TD	14	12.2	23000	N/A	H4TXV01	
RSG1424S1P	CMH18/36PM1M+TXV+TD	14.5	12.2	23000	N/A	H4TXV01	
RSG1430S1P	CMH24/30PM1M+TXV+TD	14	12.2	28000	N/A	H4TXV01	
RSG1430S1P	CMH36PM2M+TXV+TD	14.5	12.2	28000	N/A	H4TXV01	
RSG1430S1P	CMH18/36PM1M+TXV+TD	14	12.2	28000	N/A	H4TXV01	
RSG1436S1P	CMH36PM2M+TXV+TD	14.5	12.2	34000	N/A	H4TXV02	
RSG1442S1P	CMH42/48PM2M+TXV+TD	14	12.2	40000	N/A	H4TXV02	
RSG1448S1P	CMH48PM2M+TXV+TD	14	12	45500	N/A	H4TXV02	

†(In reference to coil model number) NOTE: 21" coil for use in EB/EBE-Series downflow application W 3500-8602 cabinet extension. Not for use in DGAA/DGAX-Series gas furnace.



#### **HP MATCHES**

COMFORT-AIRE/CENTU	RY HP MATCHES					
OUTDOOR MODEL	COIL MODEL	SEER	EER	CAPACITY	HSPF	TXV
HRG1418S1M	CMH18/36PM1M+TXV	14	12.2	18000	8.2	H4TXV01
HRG1424S1M	CMH24/30PM1M	14	12	23400	8.2	N/A
HRG1430S1M	CMH24/30PM1M+TXV	14	12	28600	8.2	H4TXV01
HRG1436S1M	CMH36PM2M+TXV	14	12.2	34000	8.2	H4TXV02
HRG1442S1M	†CMH48PM2M+TXV	14	11	40000	8.5	H4TXV02
HRG1418S1P	CMH18/36PM1M+TXV+TD	14	12.2	15700	8.2	H4TXV01
HRG1424S1P	CMH18/36PM1M+TXV+TD	14	12.2	18000	8.5	H4TXV01
HRG1424S1P	CMH24/30PM1M+TXV+TD	14	12.2	20600	8.5	H4TXV01
HRG1430S1P	CMH18/36PM1M+TXV+TD	14	12	26400	8.5	H4TXV01
HRG1430S1P	CMH24/30PM1M+TXV+TD	14	12	26400	8.5	H4TXV01
HRG1436S1P	CMH36PM2M+TXV+TD	14	11.7	30200	8.2	H4TXV02
HRG1442S1P	CMH42/48PM2M+TXV+TD	14.5	12	37400	8.5	H4TXV02
HRG1448S1P	CMH48PM2M+TXV+TD	15	12.2	40000	8.2	H4TXV02

<sup>†(</sup>In reference to coil model number) NOTE: 21" coil for use in EB/EBE-Series downflow application W 3500-8602 cabinet extension. Not for use in DGAA/DGAX-Series gas furnace.



For the latest AHRI system matches, please visit www.marsdeliversratings.com or AHRIdirectory.com

### **Manufactured Housing**

#### **DIMENSIONS**

				Pallet	R-22		
Coil Model	Nominal Tonage	Pan Widths (W)"	Pan Depth (D)"	Coil Height (H)"	Weight	Qty	Piston
CMH18/36PM1M	1.5 - 3	18"	19-1/2"	17"	32	8	0.067
CMH24/30PM1M	2 - 2.5	18"	19-1/2"	19"	35	8	0.059
СМН36РМ2М	2.5 - 3	18"	19-1/2"	19"	45	8	0.067
CMH42/48PM1M	3.5 - 4	18"	19-1/2"	19"	35	8	0.076
CMH42/48PM2M	3.5 - 4	18"	19-1/2"	19"	45	8	0.076
CMH48PM2M	3.5 - 4	18"	19-1/2"	21"†	48	4	0.076

<sup>†(</sup>In reference to coil model number) NOTE: 21" coil for use in EB/EBE-Series downflow application W 3500-8602 cabinet extension. Not for use in DGAA/DGAX-Series gas furnace.

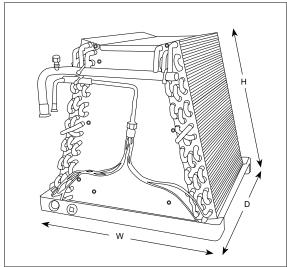
#### **SERVICE COIL DIMENSIONS**

		Dimensions				Pallet	R-22
Coil Model	Nominal Tonage	Pan Widths (W)"	Pan Depth (D)"	Coil Height (H)"	Weight	Qty	Piston
CMH18/24PM3M	1.5 - 2	18"	19.5"	11"	22	8	0.053
СМН36РМ3М	3	18"	19.5"	15"	28	8	0.073
CMH42/60PM3M	3.5 - 5	18"	19.5"	19"	45	8	*0.093

Coils are shipped with R-410A pistons already installed. \*Same Piston is used for R-22 and R-410A These are Replacement Service Coils "Only" and are not RATED. For Manufactured Housing Use Only

#### **PISTONS**

Description	Piston Size	Part Number	Tonnage Outdoor Unit	
	41	176799941	12	
	53	176799953	18	
	59	176799959	24	
R-22 Pistons	67	176799967	30	
N-22 FISIUIIS	73	176799973	36	
	80	176799980	42	
	84	176799984	48	
	93	176799993	60	
	41	176799941	12	
	49	176799949	18	
	53	176799953	24	
R-410A Pistons	59	176799959	30	
n-4 IUA PISIUNS	67	176799967	36	
	73	176799973	42	
	76	176799976	48	
	93	176799993	60	



Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations. Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs. "This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."



