

# Comfort-Aire®

## FEATURES

- Exceeds ASHRAE 90.1 efficiency standards
- Environmentally-friendly R-454B low-GWP refrigerant
- Refrigerant Detection System (RDS) (mandatory on sizes 060 and 072, optional feature for sizes 024-048)
- Intelligent variable speed Constant Volume (CV) EC blower motors for precise airflow control and soft-start feature
- Part-load operation significantly lowers annual operating costs
- Galvanized-steel cabinet construction with Bright White polyester powder coated finish and stainless-steel access panels
- Sound-absorbing glass-fiber insulation
- Unique double-isolation compressor mounting with vibration isolation for quieter operation
- Insulated divider and separate compressor/air-handler compartments
- TXV metering device
- Field-convertible supply-air arrangement (horizontal configurations only)
- Unit Performance Sentinel performance-monitoring system
- Eight standard safety features
- Easy-to-clean rust-prohibitive stainless-steel drain pans
- M2.5 Advanced Communicating Controls:
  - Connect directly to the system with a Wireless Service Tool
  - Provides real-time unit operating conditions
  - Reduces startup, commissioning, and service time by providing key system temperatures electronically
  - Captures operating conditions in the event of a safety shutdown
- Anti-short cycle and over/under-voltage protection
- Easy-access control box
- High-pressure, loss-of-charge, and condensate-overflow protection
- LED fault and status indication at controller
- Tin-plated air coils for added protection from formicary corrosion (060 - 072)
- Aluminum Microchannel air coils for added protection and improved efficiency (024 - 048)
- Extended-range insulation for geothermal applications
- Return air filter frames for 2-inch MERV 11 filter



## ME SERIES

### WATER SOURCE HEAT PUMPS

**Sizes 024 (2 ton, 7 kW) through 072 (6 tons, (21.1 kW) Energy Efficient Heating & Cooling for Residential Applications**

#### UNIT SIZE

Horizontal Model		A Width	B Length	C Height
024	in	22.4	62.2	19.32
	cm	56.8	158.0	48.9
036	in	25.4	71.2	21.3
	cm	64.5	180.8	54.0
048	in	25.4	76.2	21.3
	cm	64.5	193.5	54.0
060 & 072	in	25.4	81.2	21.3
	cm	64.5	206.2	54.0

Vertical Upflow Model		A Width	B Depth	C Height
024	in	22.4	25.6	48.5
	cm	56.8	65.1	123.2
036	in	25.4	30.6	50.5
	cm	64.5	77.8	128.3
048	in	25.4	30.6	54.5
	cm	64.5	77.8	138.4
060 & 072	in	25.4	30.6	58.5
	cm	64.5	77.8	148.6

PACKAGE UNIT AUXILIARY/EMERGENCY HEATERS					
Part Number	kW @ 240 Single Phase	Number of Circuits	Used with		
			24	36	48-70
HGM05ACG	4.8	1	X		
HGM08ACG	7.6	1	X		
HGM10ACG	9.6	1	X		
HGM12ACG	11.4	2	X		
HGL10ACG	9.6	1		X	X
HGL15ACG	14.4	2		X	X
HGL20ACG	19.2	2			X
16B0002N02	Single Circuit Adapter Kit for 2 circuit heaters				

Warranty—12 years on compressor, 12 years on parts (Some limitations apply; see printed warranty for details.)  
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## PHYSICAL DATA

Model	024	036	048	060	072
Compressor (1 Each)	Scroll				
Factory Charge HFC/HFO-454B - (oz.)	34	43	59	102	109
<b>Water Connection Size</b>					
Swivel	1"	1"	1"	1"	1"
System Water Volume (gallons) <sup>1</sup>	0.323	0.738	0.890	.0939	0.939
<b>Vertical</b>					
Filter Standard - 2" Throwaway	28 x 24	28 x 29.5	32 x 29.5	36 x 29.5	36 x 29.5
Weight - Operating (lbs.)	298	359	448	475	475
Weight - Packaged (lbs.)	208	369	458	485	485
<b>Horizontal</b>					
Filter Standard - 2" Throwaway	2 - 18 x 18	1 - 12 x 20 1 - 20 x 25	1 - 18 x 20 1 - 20 x 24	2 - 20 x 24	2 - 20 x 24
Weight - Operating (lbs.)	298	359	448	475	475
Weight - Packaged (lbs.)	208	369	458	485	485
<b>Downflow</b>					
Filter Standard - 2" Throwaway	28 x 24	28 x 29	32 x 29.5	36 x 29.5	36 x 29.5
Weight - Operating (lbs.)	298	359	448	475	475
Weight - Packaged (lbs.)	208	369	458	485	485
<b>Hot Water Generator</b>					
Swivel - Residential Class	1"	1"	1"	1"	1"
Weight - HWG Adder (lbs.)	+15	+15	+15	+15	+15

### Notes:

- All dimensions displayed above are in inches unless otherwise marked.
  - All units have TXV expansion device and 1/2-inch and 3/4-inch electrical knockouts.
  - The Stainless Steel Condensate Drain Connection is 3/4-inch MPT.
  - FPT=Female Pipe Thread
  - O = Optional, R = Required
1. Volume without water options.

### UNIT MAXIMUM WATER WORKING PRESSURE

Options	Max Pressure PSIG [kPa]
Base Unit	300 [2,068]
Internal Modulating Valve	300 [2,068]

## TESTED TO ASHRAE/AHRI/ISO 13256-1 ENGLISH (I-P) UNITS

Model	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
	Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Full Cool 77°F Part Cool 68°F		Full Heat 32°F Part Heat 41°F	
	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
ME024 Part	17,900	19.2	20,100	6.6	20,200	36.2	17,100	5.7	19,400	27.9	18,900	4.4
ME024 Full	25,300	17.1	29,000	5.7	28,600	26.2	23,400	5.0	26,300	19.9	17,800	4.1
ME036 Part	26,400	20.2	30,600	6.5	30,200	35.3	25,800	5.6	28,500	29.7	22,700	5.0
ME036 Full	37,500	17.0	43,100	5.4	41,000	24.4	35,700	4.9	39,000	18.8	28,400	4.2
ME048 Part	35,700	19.6	42,900	6.5	41,000	41.8	33,700	5.3	37,400	28.6	29,000	4.7
ME048 Full	48,000	17.2	60,200	5.3	54,600	26.0	49,100	4.5	51,700	19.34	38,100	3.9
ME060 Part	42,200	18.9	44,800	5.9	48,000	32.9	35,900	4.8	46,400	27.5	30,900	4.1
ME060 Full	61,800	16.9	67,300	5.3	66,800	24.7	55,700	4.7	62,600	18.7	44,300	3.9
ME072 Part	53,500	17.9	59,200	5.4	61,400	34.8	48,000	4.8	58,000	24.1	42,400	4.1
ME072 Full	72,000	16.1	81,400	4.9	77,000	22.4	67,400	4.4	74,700	18.4	54,000	3.8

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature

Heating capacities based upon 68°F DB, 59°F WB entering air temperature

Ground Loop Heat Pump ratings based on 15% antifreeze solution

All ratings based upon operation at lower voltage of dual voltage rated models

"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."

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.