



# Tranquility<sup>®</sup> 16 Versatile (TR) Series

*Models TRH/V 006 - 060 60Hz - HFC 410A*

The Tranquility<sup>®</sup> Versatile (TR) Series raises the bar for water-source heat pump features and application flexibility. Not only does the The Tranquility<sup>®</sup> Series exceed ASHRAE 90.1 efficiencies, but with the new ECM fan motor option, it also delivers higher efficiencies up to 15.9 EER (Tower-Boiler) and 18.1 EER (Geothermal).

## Advantages of the TR Series:

- ECM fan motor option
- Exceeds ASHRAE 90.1 efficiencies
- Galvanized steel construction with attractive matte black epoxy powder coat paint front access panel
- Epoxy powder painted galvanized steel drain pan
- Sound absorbing glass fiber insulation
- Unique double isolation compressor mounting for quiet operation
- Insulated divider and separate compressor/air handler compartments
- Copeland scroll compressors (Size 024 and above)
- Microprocessor controls standard (optional DXM and/or DDC controls)
- Field convertible discharge air arrangement for horizontal units
- PSC three-speed fan motor
- Internally trapped condensate drain line (vertical units only)
- Eight safeties standard
- Extended range (20 to 120°F, -6.7 to 48.9°C) capable
- Unit performance sentinel performance monitoring system

## Unit Size

Horizontal Model		W	D	H
006 - 012	in. cm	22.5 57.2	40.3 102.4	11.5 29.2
015 - 030	in. cm	22.4 56.9	48.3 122.7	17.5 44.5
036 - 042	in. cm	22.4 56.9	53.1 134.9	21.3 54.1
048 - 060	in. cm	25.4 64.5	67.9 172.5	21.3 54.1

Vertical Upflow Model		W	D	H
006 - 012	in. cm	22.5 57.2	21.3 54.1	22.5 57.2
015 - 030	in. cm	22.4 56.9	22.4 56.9	40.5 102.9
036 - 042	in. cm	22.4 56.9	25.4 64.5	46.5 118.1
048 - 060	in. cm	25.4 64.5	29.1 73.9	50.5 128.3

# Physical Data

TR Series	006	009	012	015	018	024	030	036	042	048	060	
<b>Compressor (1 each)</b>	Rotary						Scroll					
Factory Charge HFC-410A - (oz.)	17	18.5	23	35	43	40	48	50	70	74	82	
<b>ECM Fan Motor &amp; Blower</b>												
Blower Wheel Size (Dia x w)	N/A	N/A	N/A	9x7	9x7	9x7	9x7	9x8	9x8	10x10	11x10	
<b>PSC Fan Motor &amp; Blower</b>												
Fan Motor Type/Speeds	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	PSC/3	
Blower Wheel Size (Dia x W)	5x5	5x5	6x5	8x7	8x7	9x7	9x7	9x8	9x8	10x10	11x10	
<b>Water Connection Size</b>												
Source FPT	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1"	1"	
Optional HWG FPT	1/2"											
Coax Volume (gallons)	0.123	0.143	0.167	0.286	0.45	0.286	0.323	0.323	0.89	0.738	0.939	
<b>Vertical</b>												
Air Coil Dimensions (H x W)	10x15	10x15	10x15	20x17.25	20x17.25	20x17.25	20x17.25	24x21.75	24x21.76	28x25	28x25	
Filter Standard - 1" Throwaway	10x18	10x18	10x18	20x20	20x20	20x20	20x20	24x24	24x24	28x28	28x28	
Weight - Operating (lbs.)	110	112	121	163	168	184	192	213	228	283	298	
Weight - Packaged (lbs.)	115	117	126	168	173	189	197	219	234	290	305	
<b>Horizontal</b>												
Air Coil Dimensions (H x W)	10x15	10x15	10x15	16x22	16x22	16x22	16x22	20x25	20x25	20x35	20x35	
Filter Standard - 1" Throwaway	10x18	10x18	10x18	16x25	16x25	18x25	18x25	20x28 or 2-20x14	20x28 or 2-20x14	1-20x24, 1-20x14	1-20x24, 1-20x14	
Weight - Operating (lbs.)	110	112	121	163	168	184	192	213	228	283	298	
Weight - Packaged (lbs.)	115	117	126	168	173	189	197	219	234	290	305	

## Tested To ASHRAE/AHRI/ISO 13256-1 English (I-P) Units -ECM Fan Motor Option

Model	Refrigerant	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
		Cooling 86°F [30°C]		Heating 68°F [20°C]		Cooling 59°F [15°C]		Heating 50°F [10°C]		Cooling 77°F [25°C]		Heating 32°F [0°C]	
		Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
		Btuh [kW]	Btuh/W [W/W]	Btuh [kW]		Btuh [kW]	Btuh/W [W/W]	Btuh [kW]		Btuh [kW]	Btuh [kW]	Btuh/W [W/W]	
TR-015	HFC-410A	14,500 [4.3]	15.5 [4.5]	16,800 [4.9]	5.1	16,800 [4.9]	25.0 [7.3]	13,800 [4.0]	4.4	15,000 [4.4]	17.9 [5.2]	10,900 [3.2]	3.6
TR-018	HFC-410A	19,600 [5.7]	15.9 [4.7]	22,000 [6.5]	5.3	22,300 [6.5]	23.6 [6.9]	18,200 [5.3]	4.4	20,200 [5.9]	18.1 [5.3]	14,100 [4.1]	3.8
TR-024	HFC-410A	23,800 [7.0]	14.3 [4.2]	27,700 [8.1]	4.9	26,700 [7.8]	21.5 [6.3]	23,400 [6.9]	4.1	24,900 [7.3]	16.4 [4.8]	18,500 [5.4]	3.5
TR-030	HFC-410A	28,300 [8.3]	14.3 [4.2]	35,800 [1.5]	4.8	32,400 [9.5]	22.0 [6.4]	30,000 [8.8]	4.4	29,300 [8.6]	16.5 [4.8]	23,600 [6.9]	3.7
TR-036	HFC-410A	34,500 [10.1]	14.0 [4.1]	43,400 [12.7]	4.5	39,000 [11.4]	20.9 [6.1]	35,800 [10.5]	4.0	35,400 [10.4]	15.5 [4.5]	28,700 [8.4]	3.4
TR-042	HFC-410A	42,100 [12.3]	14.9 [4.4]	50,400 [14.8]	4.5	46,400 [13.6]	22.0 [6.4]	42,400 [12.4]	4.0	42,200 [12.4]	16.8 [4.9]	33,900 [9.9]	3.4
TR-048	HFC-410A	47,900 [14.0]	14.2 [4.2]	53,000 [15.5]	4.8	53,600 [15.7]	21.0 [6.2]	45,600 [13.4]	4.3	49,000 [14.4]	16.2 [4.7]	36,400 [10.7]	3.6
TR-060	HFC-410A	60,000 [17.6]	14.8 [4.3]	71,200 [20.9]	4.4	67,000 [19.6]	21.0 [6.2]	59,600 [17.5]	4.0	61,400 [18.0]	16.5 [4.8]	47,500 [13.9]	3.4

Cooling capacities based upon 80.6°F [27°C] DB, 66.2°F [19°C] WB entering air temperature.

Heating capacities based upon 68°F [20°C] DB, 59°F [15°C] WB entering air temperature.

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



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LC1033  
 Rev. : 3-9-17

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