



**CLIMATEMASTER®**

A NIBE GROUP MEMBER



# Tranquility® 16 (TC) Compact Series

Models TCH/V006 -060 60Hz - HFC - 410A

The Tranquility® 16 (TC) Compact Series raises the bar for water-source heat pump application flexibility. Not only does the Tranquility TC exceed ASHRAE 90.1 efficiencies, but with the new ECM fan motor options, it also delivers higher efficiencies up to 15.5 EER (Tower-Boiler) and 18.0 EER (Geothermal). With its compact size, the Tranquility TC is the ideal product for applications ranging from budget driven new construction projects to emergency replacements.

## Advantages of the Tranquility TC:

### Standard Features:

- All sizes 006 (1/2 ton, 1.76 kW) through 060 (5 tons, 17.6 kW) exceed ASHRAE 90.1 efficiencies
- Communicating CXM2 controls for reduced start-up, commissioning, and service time
- Unique double isolation compressor mounting for quiet operation
- Eight standard safeties
- Field convertible supply air arrangement (horizontal configurations only)
- PSC three-speed fan motor
- Sound absorbing glass fiber insulation
- Non-corrosive polymer drain pan

### Configurable Options:

- Choice of high efficiency Constant Volume (CV) or Constant Torque (CT) ECM fan motors
- Intelligent communicating DXM2.5 controls for maximized airflow control when paired with CV ECMs
- Water-Side economizers
- MPC controls for interfacing with building management systems
- Extended range insulation for geothermal applications
- Industry leading UltraQuiet sound attenuation package
- Factory installed electrical service disconnect

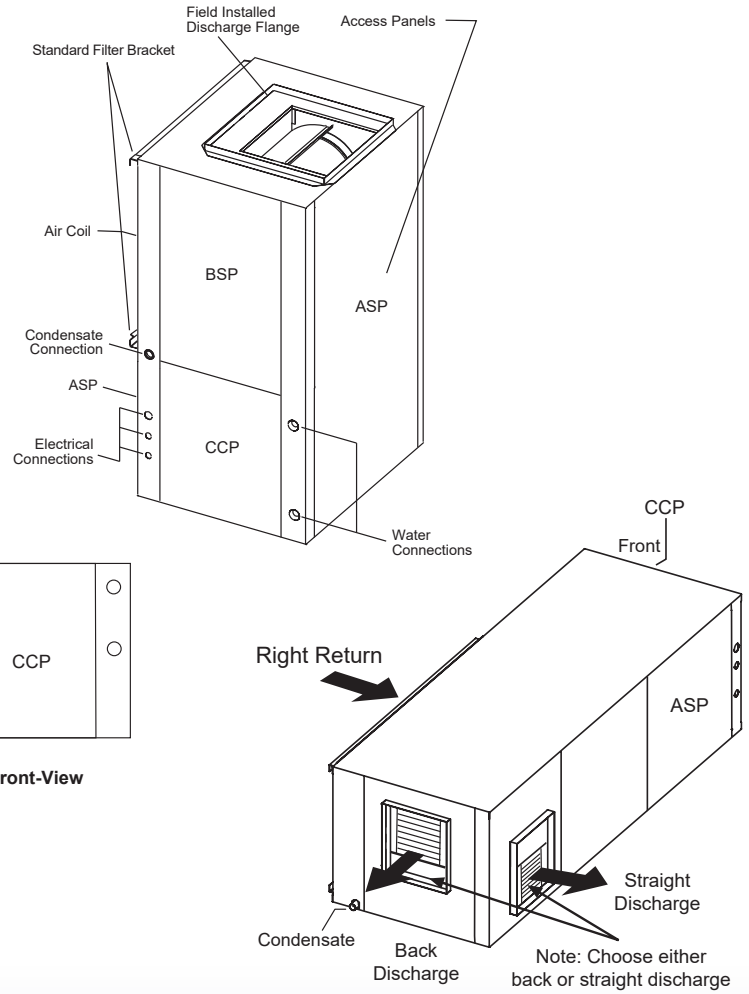
# Tested to ASHRAE/AHRI/ISO 13256-1 English (I-P) Units

Model w/ECM Fan Motor	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
	Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Cooling 77°F		Heating 32°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
TC-006	5,800	14.0	7,500	4.8	7,000	24.0	6,300	4.2	6,200	16.7	4,900	3.5
TC-009	8,600	14.2	11,600	4.4	10,000	23.4	9,700	4.0	9,100	16.8	7,800	3.5
TC-012	11,100	13.0	14,700	4.4	13,500	20.0	12,100	3.8	12,000	14.6	10,000	3.3
TC-015	14,300	15.5	17,100	5.3	16,500	25.0	14,100	4.5	14,800	18.0	11,000	3.6
TC-018	18,700	15.0	21,800	5.2	21,500	23.6	17,800	4.5	19,500	17.1	14,100	3.7
TC-024	23,600	13.5	27,500	4.8	27,000	21.5	23,500	4.3	24,500	16.0	18,600	3.5
TC-030	28,600	13.6	37,000	4.9	32,000	21.6	30,500	4.3	29,500	16.0	24,000	3.6
TC-036	34,500	14.0	45,200	4.5	38,700	21.0	37,000	4.0	35,300	15.5	28,700	3.4
TC-042	41,000	14.9	52,700	4.5	46,400	21.0	42,400	4.0	42,500	16.0	33,900	3.4
TC-048	48,000	14.0	53,600	4.8	54,200	21.0	45,300	4.3	50,400	16.2	36,500	3.6
TC-060	59,500	14.6	72,000	4.4	66,500	20.5	61,000	4.0	61,500	16.5	49,200	3.4

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

## Unit Size

		W	D	H
<b>Vertical Upflow Model</b>				
006 - 012	in	19.1	19.1	22.0
015 - 030, 041	in	21.5	21.5	40.0
036 - 042	in	21.5	26.0	45.0
048 - 060	in	24.0	32.5	46.0
<b>Horizontal Model*</b>				
006 - 012	in	19.1	34.1	11.1
015 - 018	in	20.1	43.1	17.0
024 - 030	in	20.1	43.1	18.3
036 - 042	in	20.1	47.1	21.0
048 - 060	in	24.1	54.1	21.0



**Legend:**  
 CCP = Control/Compressor Access Panel  
 BSP = Blower Service Panel  
 ASP = Additional Service Panel (optional access)

LC1027  
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