



50 HZ WATER-SOURCE HEAT PUMPS



TRANQUILITY[®] (TC_L) COMPACT HIGH
CAPACITY SERIES

TRANQUILITY® (TC_L) COMPACT HIGH CAPACITY SERIES



Available in sizes 072 (21.1 kW) through 300 (87.9 kW) with multiple cabinet configurations, the Tranquility® (TC_L) Compact High Capacity Series offers a wide range of units for most any installation.

The Tranquility® (TC_L) Compact High Capacity Series has an extended range refrigerant circuit, capable of ground loop (geothermal) applications (may require optional extended range insulation), ground water (geothermal) applications, as well as water loop (boiler-tower) applications.

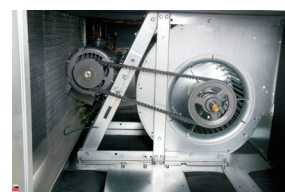
Standard features are many. Microprocessor controls, galvanized steel cabinet, epoxy powder coat painted front access panel, galvanized steel with epoxy powder coat painted drain pan and TXV refrigerant metering device are just some of the features of the flexible Tranquility® (TC_L) Compact High Capacity Series.

Dual compressor refrigeration circuit

Large capacity up to 35.2kW for horizontal model and 87.9 kW for vertical model.



Belt drive blower with high efficiency motor and multiple pulley adjustments



Galvanized steel cabinet

Optional insulated water/refrigerant circuits allow extended range operation (ground loop applications)



Condensate overflow is one of the 8 standard safeties provided by the microprocessor controls in all Tranquility TC_L units



UNIT FEATURES

- Horizontal models 072 (21.1 kW), 096 (28.1 kW), 120 (35.2 kW)
- Vertical models 072 (21.1 kW), 096 (28.1 kW), 120 (35.2 kW), 160 (46.9 kW), 192 (56.3kW), 240 (70.3kW), 300 (87.9 kW)
- Horizontal unit configuration can be ordered with left or right return air and straight or back supply air discharge. Discharge is field convertible. Field conversion uses all existing parts including panels and belts.
- Vertical unit configuration can be ordered with front or back return air and top, front, or back supply air discharge. Discharge is field convertible. Field conversion uses all existing parts including panels and belts.
- Electrical box is on right side and can be field converted to left side of unit
- Electric power can enter from either side of front
- Water can be connected to either side
- Copeland scroll compressors
- Dual refrigeration circuits (All Models)
- Exceeds ASHRAE 90.1 efficiencies
- Galvanized steel construction with attractive matte black epoxy powder coat painted front access panel
- Insulated divider and separate compressor/air handler compartments
- TXV metering device
- Extended range (-6.7 to 48.9°C) operation (may require optional extended range insulation)

PERFORMANCE AND SPECIFICATIONS

AHRI/ISO/ASHRAE 13256-1 Data

Model	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
	Cooling 30 °C		Heating 20 °C		Cooling 15°C		Heating 10 °C		Cooling 25 °C		Heating 0 °C	
	Capacity kW	EER W/W	Capacity kW	COP	Capacity kW	EER W/W	Capacity kW	COP	Capacity kW	EER W/W	Capacity kW	COP
TCH/V072	16.47	3.8	22.57	5.0	19.08	5.9	18.32	4.3	17.42	4.4	14.10	3.6
TCH/V096	24.03	4.2	31.51	5.3	27.14	6.4	25.82	4.6	24.62	4.7	19.84	3.7
TCH/V120	29.72	4.2	39.83	4.8	33.94	6.2	32.80	4.2	31.36	4.8	25.67	3.5
TCV160	39.27	4.4	50.26	4.9	43.08	6.4	40.74	4.4	40.30	4.8	30.48	3.6
TCV192	47.04	4.5	59.64	5.1	51.88	6.4	48.21	4.6	47.33	4.9	36.34	3.7
TCV240	57.00	4.4	77.23	5.1	65.50	6.3	62.43	4.5	59.06	4.9	47.33	3.7
TCV300	74.74	4.3	97.01	5.1	84.11	6.0	78.25	4.4	77.52	4.7	59.79	3.6

Cooling capacities based upon 27°C DB, 19°C WB entering air temperature.

Heating capacities based upon 20°C DB, 15°C WB entering air temperature.

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

Dimensional Data

Horizontal Model		Overall Cabinet		
		W	D	H
072 - 120	cm	92.2	215.6	54.9

Voltage Options

Model	Volts	Hz	Phase
072 - 300	380/420	50	3

Vertical Model		Overall Cabinet		
		W	D	H
072 - 120	cm	104.1	73.7	177.2
160 - 300		208.2	73.7	177.2



ClimateMaster's manufacturing facility in Oklahoma City, Oklahoma, U.S.A.



A **NIBE** GROUP MEMBER

7300 S.W. 44th Street
Oklahoma City, OK 73179
Phone: +1-405-745-6000
Fax: +1-405-745-6058
climatemaster.com

ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time for order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at +1-405-745-6000 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster's opinion or commendation of its products.