



# Tranquility® 22 (TY) Compact Two Stage Series

Models TYH/V024 -060 60Hz - HFC 410A

The Tranquility® 22 (TY) Compact Two Stage Series offers high efficient two-stage operation in a simple cabinet design. With one of the smallest cabinets in the industry, the Tranquility® TY will easily fit into tight spaces. Designed to be backward compatible with thousands of older water-source heat pumps.

## Advantages of the Tranquility TY Series:

### Standard Features:

- All sizes 024 (2 ton) through 060 (5 tons) exceed ASHRAE 90.1 efficiencies
- Communicating DXM2.5 controls for reduced start-up, commissioning, and service time
- Part load operation significantly lowers annual operating costs
- Field convertible supply air arrangement (horizontal configurations only)
- Intelligent variable speed CV ECM fan motors for precise airflow control and soft start feature
- Eight safeties standard
- Non-corrosive polymer drain pan
- Sound absorbing glass fiber insulation
- Unique double isolation compressor mounting for quiet operation
- Copeland UltraTech™ two-stage scroll compressors

### Configurable Options:

- iGate 2 thermostats for remote monitoring, adjustments, and diagnostics via myUplink mobile app and website
- Industry leading Ultra-Quiet sound package
- MPC controls for interfacing with BACnet, Modbus, and N2 building management systems
- Extended range insulation for geothermal applications

# Tested To ASHRAE/AHRI/ISO 13256-1 English Units

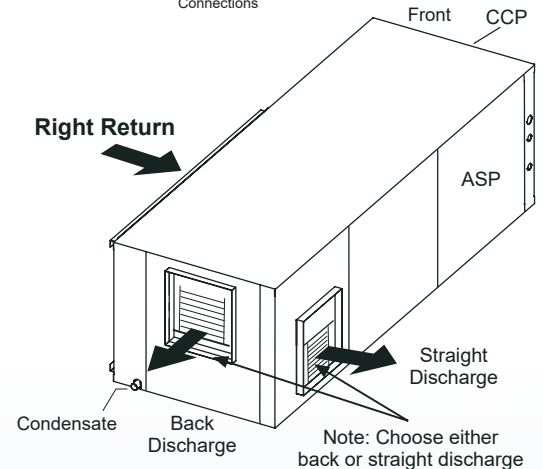
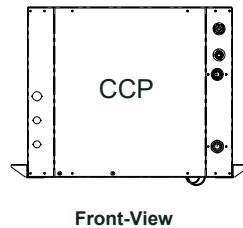
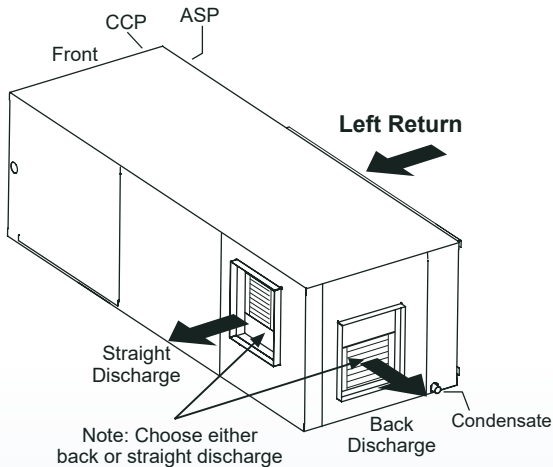
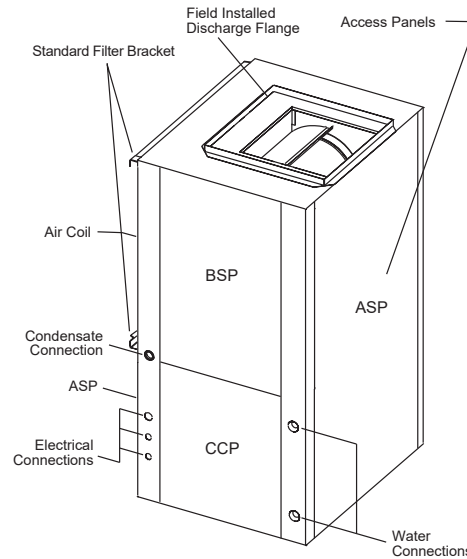
Model	Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
	Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Full Cool 77°F Part Cool 68°F		Full Heat 32°F Part Heat 41°F	
	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
TY*024 Part	18,100	16.1	20,600	5.2	20,300	27.2	16,700	4.4	19,400	22.2	14,700	4.0
TY*024 Full	23,700	14.3	28,000	4.6	26,500	21.7	23,000	4.1	24,600	16.0	17,800	3.6
TY*030 Part	21,900	15.2	26,300	5.0	24,900	24.8	22,000	4.3	24,200	20.9	19,400	3.9
TY*030 Full	28,500	14.0	35,800	4.6	32,300	20.7	30,000	4.2	29,900	15.7	23,800	3.6
TY*036 Part	25,800	17.2	29,900	5.3	29,000	29.4	24,900	4.6	27,300	23.4	21,500	4.0
TY*036 Full	34,300	15.1	42,000	4.6	38,200	22.3	35,100	4.3	35,200	16.7	27,300	3.6
TY*042 Part	31,000	15.8	36,800	5.1	35,200	26.4	30,500	4.3	34,000	22.0	26,900	3.8
TY*042 Full	41,100	14.3	50,200	4.6	46,300	21.3	42,300	4.1	43,100	16.1	33,300	3.4
TY*048 Part	34,100	15.2	39,500	5.5	39,200	26.8	32,600	4.6	37,600	21.2	29,200	4.1
TY*048 Full	45,900	14.0	53,800	4.9	51,800	20.9	45,000	4.4	48,100	15.5	35,600	3.7
TY*060 Part	45,500	17.7	49,000	5.3	50,400	28.9	39,800	4.5	48,600	23.7	34,800	4.0
TY*060 Full	61,700	15.7	67,500	4.8	68,000	22.7	55,400	4.3	63,200	17.3	43,700	3.6

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  
 \* Includes vertical and horizontal configurations

## Unit Size

Vertical Upflow Model	A Width	B Depth	C Height
024 - 030	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

Horizontal Model	A Width	B Length	C Height
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)



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