

## HIGH EFFICIENCY UP TO 16 SEER TWO-STAGE HEAT PUMP

### WITH OBSERVER® COMMUNICATING CONTROL SYSTEM

2 THRU 5 TONS SPLIT SYSTEM

208 / 230 Volt, 1-phase, 60 Hz

#### REFRIGERATION CIRCUIT

- Copeland Scroll® UltraTech® compressors on all models
- Crankcase heater factory installed
- Suction line accumulator factory installed
- Bi-flow filter-drier supplied with every unit for field installation
- Integrated solid state control with Time-Temperature Defrost
- High and low pressure switches
- Discharge gas thermostat
- Copper tube/aluminum fin coil

#### PERFORMANCE

• Communicating, self-configuring operation when used with Observer Wall Control

- Outdoor temperature sensor factory installed
- Ball bearing PSC fan motors on all models
- High performance compressor sound shield standard
- Isolation compressor grommets

#### EASY TO INSTALL AND SERVICE

- Text based Diagnostics with Observer communicating wall control
- Only two control wires required from communicating indoor unit to condenser
- Easy Access service valves on all models
- Innovative control box design
- External high and low refrigerant service ports
- Only two screws to access control panel
- Factory charged with R-410A refrigerant

#### BUILT TO LAST

- High gloss, baked-on powder coat finish over galvanized steel
- Post-painted (black) coil fins
- Coated, weather-resistant cabinet screws
- Coated inlet grille with 3/8" (10mm) spacing for extra protection (hail guard)
- Corner posts for extra strength and style

#### WARRANTY\*

- 10 year No Hassle Replacement™ limited warranty
- 5 year parts limited warranty (including compressor and coil)
  - With timely registration, an additional 5 year parts limited warranty (including compressor and coil)

\* For owner occupied, residential applications only. See warranty certificate for complete details and restrictions, including warranty coverage for other applications



Recommended  
(sold separately)



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).



This product has been designed and manufactured to meet ENERGY STAR criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow the manufacturer's refrigerant charging and air flow instructions. Failure to confirm proper charge and airflow may reduce energy efficiency and shorten equipment life.

#### UNIT PERFORMANCE DATA

Model Number	Size (tons)	Nominal Btu/hr	Min. Circuit Ampacity	Max. Fuse or Breaker	Operating Dimensions height x width x depth in. (mm)	Ship / Operating Weight lbs. (kg)	Notes
TCH624GKA1	2	24,000	16.4	25	40-1/8 x 35 x 35 (1019 x 889 x 889)	292 / 249 (132 / 113)	
TCH624GKA3	2	24,000	16.2	25	40-1/8 x 35 x 35 (1019 x 889 x 889)	292 / 249 (132 / 113)	
TCH636GKA1	3	36,000	21.8	35	43-1/2 x 35 x 35 (1105 x 889 x 889)	313 / 270 (142 / 123)	
TCH636GKA2	3	36,000	23.7	40	40-1/8 x 35 x 35 (1019 x 889 x 889)	313 / 270 (142 / 123)	
TCH648GKA1	4	48,000	34.8	50	46-7/8 x 35 x 35 (1191 x 889 x 889)	345 / 302 (157 / 137)	
TCH648GKA2	4	48,000	29.8	50	40-1/8 x 35 x 35 (1019 x 889 x 889)	345 / 302 (157 / 137)	
TCH660GKA1	5	60,000	30.1	50	46-7/8 x 35 x 35 (1191 x 889 x 889)	369 / 323 (167 / 147)	
TCH660GKA2	5	60,000	37.5	60	46-7/8 x 35 x 35 (1191 x 889 x 889)	369 / 323 (167 / 147)	