

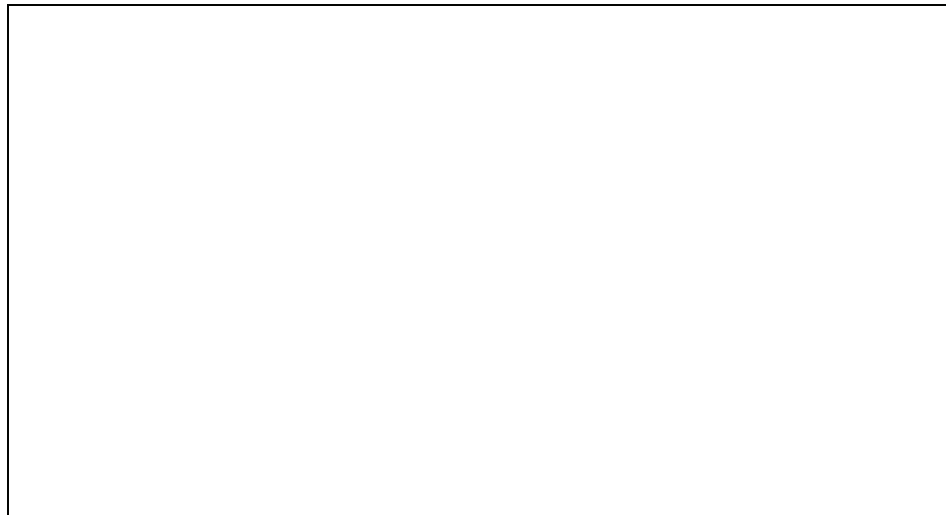


**48PGD/E/F/L/M/N20-28
50PG20-28**

**SINGLE-PACKAGE COOLING UNITS WITH
FACTORY-INSTALLED GAS HEAT**

**SINGLE-PACKAGE COOLING UNITS WITH
OPTIONAL ELECTRIC HEAT**

- **PERFORMANCE DATA**
- **CERTIFIED DIMENSION PRINTS**
- **ROOF CURB DIMENSION PRINT**



Date:	Supersedes:	48/50PG20-028 SINGLE-PACKAGE COOLING UNIT WITH GAS HEAT AND COOLING UNIT WITH OPTIONAL ELECTRIC HEAT	48/50PG	Rev.: -10SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	



DESCRIPTION

All units are pre-wired, tested, and pre-charged with Puron® (R-410A) HFC refrigerant at the factory. The 48PG units are one-piece ultra-high efficiency rooftop cooling units with gas heat. The 50PG units are one-piece ultra-high efficiency cooling units with optional electric heat. Units are factory tested in both heating and cooling modes. The unit is rated in accordance with ARI Standard 360, tested in accordance with UL Standard 1995 and listed by UL and UL, Canada.

The 48PGD model is low heat, the 48PGE model is medium heat, and the 48PGF model is high heat. The 48PGL model is low heat with stainless steel heat exchangers, the 48PGM model is medium heat with stainless steel heat exchangers, and the 48PGN model is high heat with stainless steel heat exchangers. The 48/50PG unit is available in vertical airflow or horizontal airflow models.

STANDARD UNIT — FEATURES

Puron (R-410A) HFC refrigerant.
 Energy Efficiency Ratios (EERs) up to 11.8 and Integrated Part Load Values (IPLVs) up to 12.4.
 Sound levels as low as 82 dB.
 Scroll compressors internally protected with crankcase heaters and economizer heat exchanger.
 Independent two-stage cooling capacity control.
 Thermostatic expansion valve refrigerant control with removable power element.
 Hinged access doors with quarter-turn latches, and tiebacks.
 Slide-out blower/motor assembly.
 Internally sloped condensate pan with clean out access door.
 Slide-out filter tracks with standard 2-in. filters.
 Electrical power thru-the-bottom or thru-the-curb connections.
 Major access doors have double wall construction.
 Cleanable foil-faced insulation throughout the entire unit airstream.
 Convertible duct connections from vertical to horizontal airflow.

Totally enclosed, thermally protected, shaft down condenser motors.
 Solid core liquid line filter drier.
 Isolated and insulated compressor compartment.
 Belt drive fan and motor assembly.
 Copper tube aluminum fin coils.
 Wiring is colored and labeled throughout the unit.
 Heavy gage full perimeter base rails with built-in rigging capabilities.
 Cooling operation up to 125 F (52 C) ambient.
 Cleanable evaporator and condenser coils.
 Refrigerant access valves that allow system readings without creating air bypass.
 Compressor protection includes high, low pressure cutouts and over temperature protection.
 24-volt control system with resettable circuit breaker.
 One-year product warranty.
 Five-year warranty on all compressors.

STANDARD UNIT — FEATURES (48PG)

Up to 82% efficiency.
 Induced draft combustion system used for reliability and safety.
 Reliable IGC (integrated gas unit controller) provides system evaluation and troubleshooting via onboard LED indicator.
 Direct spark ignition.
 Alumagard™ coated Turbo-tubular™ heat exchangers.

Two-stage capacity control.
 Single point gas connection - side or bottom.
 Ten-year warranty on Alumagard coated Turbo-tubular gas heat exchanger.
 Fifteen-year warranty on optional stainless steel heat exchanger.

STANDARD UNIT — FEATURES (50PG)

Five-year warranty on electric heaters.
 Electric heaters available as factory-installed option or field-installed accessory.

Heavy-duty nickel chromium element with high limit reset.
 Single point wiring kits are available.

COMFORTLINK™ CONTROLS — FEATURES

Features with optional *ComfortLink*™ controls:

- Communications (via stand-alone thermostat or CCN [Carrier Comfort Network®]).
- Scrolling Marquee display.
- Time schedule.
- Reverse rotation protection for compressors.
- Space temperature sensor capability.

- Service diagnostics, alarms, and alarm history.
- Service run test capability.
- Unit run time and compressor cycles history.
- CO₂ sensor capability.
- 0° F (-18 C) ambient cooling operation.
- 3V™ (VVT®) Zoning Linkage.

ELECTRO-MECHANICAL CONTROLS — FEATURES

Features with optional electro-mechanical controls:

- 40° F (4 C) ambient cooling operation.
- Low pressure protection.

- Freeze protection.
- Cycle-LOC™ compressor lockout logic.
- High pressure protection.

PERFORMANCE DATA

COOLING

Efficiency _____ SEER/EER
Net Total Capacity _____ Btuh
Net Sensible Capacity _____ Btuh
Compressor Power Input _____ kW
Outdoor Air Temperature _____ F
Indoor Entering Air _____ db F _____ wb F
Airflow CFM _____ External Static Pressure _____ in. wg
Indoor Fan RPM _____
Indoor Fan Bhp _____
Unit Operating Weight _____ lb
Curb Weight _____ lb

HEATING (GAS)

Total Heating Capacity:

INPUT

Stage 1 _____ Btuh

Stage 2 _____ Btuh

OUTPUT

Stage 1 _____ kW

Stage 2 _____ kW

AFUE _____ %

Steady State _____ %

HEATING (ELECTRIC)

Total Heating Capacity:

Stage 1 _____ Btuh

Stage 2 _____ Btuh

ELECTRICAL DATA

Power Supply to Unit _____ Volts _____ Phase _____ Hz

Minimum Circuit Amps _____ Maximum Overcurrent Protection _____

SUBMITTAL DATA

Job Name _____

Architect _____

Engineer _____

Contractor _____

Unit Designation _____

CERTIFIED DIMENSION PRINT

