

# Performance and Technical Specifications:

# GT-PX

## Two-Stage Geothermal Heating & Cooling Systems

### GT-PX Ratings

ARI/ASHRAE/ISO 13256-1  
English (IP) Units

GT-PX Series - Two Stage Geothermal System, Ground Loop Ratings				
Model 50YDV, 50YDH, 50YDD	026	038	049	064
Cooling efficiency (EER*)	26.0	27.0	24.9	25.3
Heating efficiency (COP*)	4.6	4.5	4.6	4.3
Cooling capacity (Btu/hr)	21,300	38,200	50,600	64,800
Heating capacity (Btu/hr)	16,500	29,000	37,500	48,000

Cooling capacities based upon 80.6°F □ accordance with ARI/ISO standard 13256-1 GLHP. \*Part Load

Rev: 08/16/04D

GT-PX Series - Two Stage Geothermal System, Ground Water Ratings				
Model 50YDV, 50YDH, 50YDD	026	038	049	064
Cooling efficiency (EER*)	30.8	31.5	28.7	29.7
Heating efficiency (COP*)	5.1	5.1	5.1	4.7
Cooling capacity (Btu/hr)	22,200	41,200	54,600	68,600
Heating capacity (Btu/hr)	18,600	36,700	48,300	59,600

Cooling capacities based upon 80.6°F □ accordance with ARI/ISO standard 13256-1 GWHP. \*Part Load

Rev: 08/16/04D

### Dimensional Table

Upflow Model	Overall Cabinet			
	Width	Depth	Height	
026	in.	22.4	25.6	48.6
	cm.	56.8	65.1	123.4
038	in.	25.4	30.6	50.4
	cm.	64.5	77.8	128
049	in.	25.4	30.6	54.4
	cm.	64.5	77.8	138.2
064	in.	25.4	30.6	58.4
	cm.	64.5	77.8	148.3

Downflow Model	Overall Cabinet			
	Width	Depth	Height	
026	in.	22.4	25.6	52.5
	cm.	56.8	65.1	133.4
038	in.	25.4	30.6	54.5
	cm.	64.5	77.8	138.4
049	in.	25.4	30.6	58.5
	cm.	64.5	77.8	148.6
064	in.	25.4	30.6	62.5
	cm.	64.5	77.8	158.8

Horizontal Model	Overall Cabinet			
	Width	Depth	Height	
026	in.	22.4	62.2	19.3
	cm.	56.8	158.0	48.9
038	in.	25.4	71.2	21.3
	cm.	64.5	180.8	54.0
049	in.	25.4	76.2	21.3
	cm.	64.5	193.5	54.0
064	in.	25.4	81.2	21.3
	cm.	64.5	206.2	54.0



**Geothermal Systems**

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As an ENERGY STAR® Partner Bryant has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.



**Geothermal Systems**

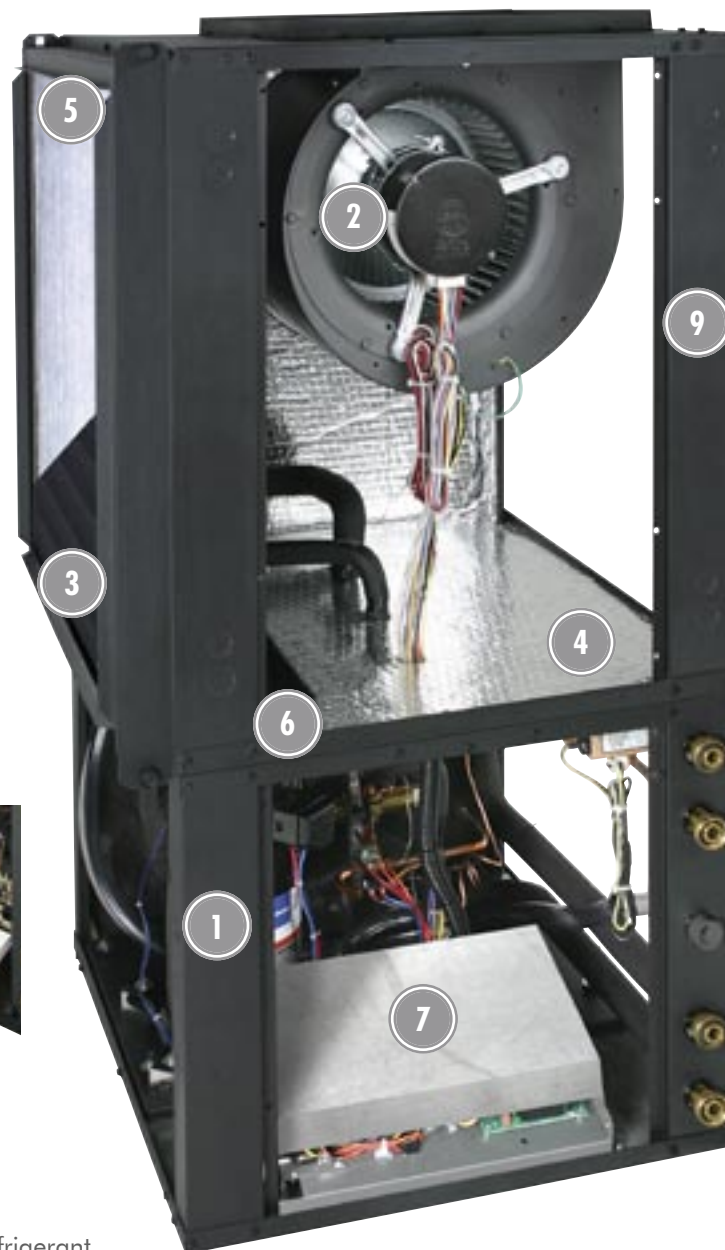
## Features and Performance Guide

### The most energy efficient...

GT-PX. The most energy efficient space conditioning system anywhere...

In creation of the GT-PX, we have rethought the very idea of a geothermal heat pump system. No stone has been left unturned in the development of the GT-PX. Our product engineering development team searched for each and every potential opportunity for significant breakthroughs in performance and consumer features. They found them. Using Puron® Refrigerant the GT-PX not only protects the environment, it does so while delivering unprecedented comfort, efficiency, and reliability.

- 1 Copeland™ Two-Stage Unloading Scroll Compressor
- 2 State-Of-The-Art GE Variable Speed Blower Motor
- 3 E-Coated Air Coil
- 4 Foil Faced Insulation In The Blower Section, Fully Insulated Compressor Section
- 5 Two Inch Filter Rack With High Performance MERV 11 Pleated Air Filter
- 6 Stainless Steel Drain Pan For Easy Cleaning
- 7 Unit Performance Sentinel: Automatic Alert System Lets You Know If The System Is Not Running At Peak Performance
- 8 Exclusive Double Spring And Grommet Compressor Isolation For Ultra Quiet Operation
- 9 Five Easy, Lift-out Service Access Panels With Stainless Steel Front Panels



### Features and Benefits:

- **Unprecedented 27EER to 31EER!** This saves you more money than any other space conditioning option. It's the highest efficiency in the industry!
- Puron® zero ozone depletion 410A refrigerant – a proven refrigerant (in use since 1996) with excellent efficiencies, designed to protect the earth's atmosphere for future generations.
- Copeland Ultra-Tech™ two stage scroll compressor provides the ultimate comfort you can depend on. The compressor's operating characteristics allow it to change capacity from part load to full load on the "fly", this reduces frequent starting and stopping which assures longer compressor life. Part and full load capacity assures the ultimate in temperature and humidity control as weather conditions change.
- Revolutionary compressor mounting system provides an additional ultra quiet operation. The scroll compressor is "double isolated" from the unit which minimizes vibration.
- State-of-the-art GE variable speed blower motor adjusts to deliver the airflow you need when you need it, while providing whisper quiet soft starts. The economical constant fan option assures even temperatures throughout the home while maximizing air filtration.
- E-Coated air coil protects the unit from airborne contaminants for longer service life while increasing its humidity removal capacity for better dehumidification. E-Coating material is approved by the FDA, so you know it's safe.
- A 10-year Limited Warranty provides homeowner "Peace of Mind" when combined with the optional Service Labor Allowance Warranty option that provides you with labor coverage. Ask your dealer for details.
- A CXM microprocessor monitors eight major unit functions, plus programmed unit diagnostics and fault LED (Light Emitting Diode) allow for service technicians to pinpoint a problem quickly and accurately. All the electrical components are mounted in an easy to view control panel that simplifies dealer access to minimize any downtime.
- Electronic fan control module provides an optional dehumidification mode if needed.
- Stainless steel condensate drain pan provides positive draining and durability for easy cleaning and long life. In addition: a factory installed condensate overflow protection shuts down the unit if improper draining should occur.
- The Unit Performance Sentinel (UPS), an exclusive feature, provides early warning of inefficient operating conditions before unit shutdown actually occurs, reducing the need for emergency service calls. The unit will store the fault code in memory for your service technician for quick problem resolution.
- Designed for efficient operation from 20°F to 120°F entering water temperatures.
- Each unit is run tested and compared to strict performance criteria to assure maximum efficiency and reliability with a report card included.
- MERV 11 - Hi Performance 2" Pleated air filter (Maximum Efficiency Rating Value – the rating system for air filtration products - the higher the number the better), designed to clean the air before it flows through your home. Lightweight filter is easy to check, handle, and replace. A unique combination of Electrostatic and Pleated Media filter significantly reduces allergens and will not support microbial growth. It captures particulate size ranges from 0.3 to 10 microns (viruses, tobacco smoke, pet dander, bacteria, mold/fungi spores, dust, & pollen). This means cleaner and healthier air for you and your family.
- Foil Faced Insulation in the blower section provides a cleanable surface you can wipe down for improved Indoor Air Quality.
- Internal electric heat (optional) for easy dealer installation.
- Optional internally mounted hot water generator coil and pump with high limit control.
- Epoxy Powder Coated black textured finish on galvanized steel featuring brushed stainless steel front access panels provides an attractive unit that is acoustically quiet and built to stand years of use.

