

# GAS-FIRED, SEPARATED COMBUSTION, TUBULAR HEAT EXCHANGER

- 100% Outside Air for Combustion • Sealed Compartment Protects Combination Gas Control, Ignition Control, Manifold and Burner • Horizontal or Vertical Concentric Venting • 80% Thermal Efficiency • Field Convertible to Propane • Direct Spark Ignition • 100% Shut-Off with Continuous Retry • Certified for Commercial and Industrial Applications



**MODEL  
PTS (shown) / BTS**

The separated combustion Model PTS/BTS draws its combustion air from outside to ensure that the unit will always have plenty of fresh, clean air to breathe. This fresh-air supply reduces common concerns about dusty, dirty or humid applications. In addition, by drawing the combustion air from the outside, the overall heating efficiency is increased. In short, the Model PTS/BTS separated combustion unit gives you the added advantages of:

- Less maintenance in dusty environments,
- Improved efficiency by using outside air for combustion,
- Greater durability in "hostile" environments (environments possessing substances that may deteriorate the performance of the unit),
- External gas connections.
- Quiet operation.
- Uses natural or propane gas.
- Certified for commercial and industrial use.
- Durable polyester powder coat paint finish.
- Install quickly and easily with field wiring connections and knockouts for quick access to gas and electricity.
- Standard power exhaust simplifies side-wall or roof venting with small-diameter vent pipe.
- Permanently-lubricated motor for trouble-free dependability.
- Full 10-year warranty on heat exchanger.
- Available in both propeller fan and centrifugal blower configurations.

## Performance Data

Propeller	Model Number						
	PTS150	PTS175	PTS200	PTS250	PTS300	PTS350	PTS400
Btu/Hr Input	150,000	175,000	200,000	250,000	300,000	350,000	400,000
Btu/Hr Output	120,000	140,000	160,000	200,000	240,000	280,000	320,000
Vent Diameter (inches)	4"	4"	4"	6"	6"	6"	6"
CFM @ 70°F	2139	2726	3015	3994	4543	5278	5995
Air Temp. Rise (°F)	52	48	49	46	49	49	49
Maximum Mounting Height (Ft.) ①	14	14	15	18	19	18	21
Heat Throw (Ft.) ①	51	50	54	62	69	65	74
Motor HP	1/6	1/6	1/6	1/3	1/2	1/2	3/4

① At 65° ambient temperature and unit fired at full-rated input. Mounting height is measured from floor to bottom of unit.

Blower	Model Number							
	BTS150	BTS175	BTS200	BTS250	BTS300	BTS350	BTS400	
Btu/Hr Input	150,000	175,000	200,000	250,000	300,000	350,000	400,000	
Btu/Hr Output	120,000	140,000	160,000	200,000	240,000	280,000	320,000	
Vent Diameter (inches)	4"	4"	4"	6"	6"	6"	6"	
Air Flow CFM Range	Min	1587	1852	2116	2646	3175	3704	4233
	Max	2778	3241	3704	4630	5556	6481	7407
Air Temp Rise Range	Max	70	70	70	70	70	70	70
	Min	40	40	40	40	40	40	40
Maximum Mounting Height (Ft.)	See Note below							
Heat Throw (Ft.)	See Note below							
Motor HP	1/4 to 1	1/3 to 1-1/2	1/2 to 2	1/2 to 3	1 to 3	1-1/2 to 5	1-1/2 to 5	

**Note:** Mounting Height/Heat Throw depend on blower speed. Please see the Catalog, Installation & Service Manual, or Breeze AccuSpec selection software for details.

**DO NOT LOCATE ANY GAS-FIRED UNIT IN AREAS WITH CHLORINATED, HALOGENATED OR ACIDIC VAPORS IN ATMOSPHERE.**

Request Catalog 6-175 For Complete Technical Information and Specifications.