

PTC/BTC SERIES

EFFINITY® HIGH-EFFICIENCY CONDENSING UNIT HEATER

Built for facilities where performance and efficiency go hand in hand, the Modine Effinity® PTC/BTC Series delivers up to 97% thermal efficiency while helping protect indoor environments through separated combustion technology. Ideal for commercial, industrial, agricultural, and greenhouse applications, the Effinity captures more usable heat from every fuel dollar, providing reliable comfort, lower operating costs, and long-term value.



COMMON APPLICATIONS

- Greenhouses & Garden Centers
- Agricultural Buildings & Livestock Facilities
- Warehouses & Distribution Centers
- Manufacturing & Industrial Facilities
- Maintenance Shops & Service Bays
- Loading Docks & Storage Buildings

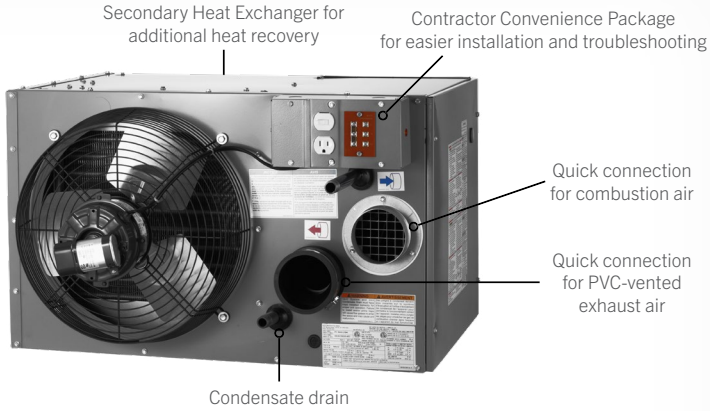
KEY FEATURES

- **Up to 97% thermal efficiency** helps reduce fuel consumption and lower operating costs.
- **Separated combustion design** draws combustion air from outside the building to protect indoor environments from dust, humidity, and airborne contaminants.
- **Wide capacity range** (from 55,000 to 310,000 BTU/hr) accommodates a variety of commercial, industrial, agricultural, and greenhouse applications.
- **Flexible PVC nenting pptions** support both two-pipe and concentric vent configurations for simplified installation.
- **Contractor Convenience Package** provides built-in service and troubleshooting features that reduce installation and maintenance time.
- **Secondary heat exchanger technology** features an AL29-4C stainless-steel recuperative heat exchanger that captures additional heat from flue gases while providing superior resistance for long-term efficiency and reliability.
- **Corrosion-eesistant construction** utilizes stainless steel and aluminized steel materials to ensure long-lasting performance in humid or chemically exposed areas.

STANDARD CONTRACTOR CONVENIENCE PACKAGE

Designed to simplify installation and service, the Contractor Convenience Package helps reduce labor costs and streamline troubleshooting.

- Easy connectivity and troubleshooting
- Disconnect on unit for easy access
- Prewired receptacle outlet
- Exterior operating lights
- External thermostat connections
- Built-in overflow condensate switch



OPTIONS & ACCESSORIES

Fan Gaurd Options:

- Standard or Finger-Proof

Heat Exchanger Options:

- Aluminized Steel or 409 Stainless Steel

Gas Conversion Kits:

- Natural to Propane / Propane to Natural

Thermostats & Controllers:

- Single-Stage Thermostat (Modine Pro1 T-501M)
- Two-Stage Thermostat (Modine Pro1 T-715M)
- WiFi Thermostat (Modine Pro1 T855iSH)
- Building Management System (factory-installed)

Condensate Management Accessories:

- Condensate Pump
- Condensate Pump Suspension Kit
- Condensate Anti-Microbial Treatment
- Condensate pH Neutralizing Kit
- Recharge Kit for pH Neutralizing Kit
- 3/4" x 3/4" Union Strainers

Air Discharge Accessories:

- Vertical Deflector Blades
- Downward Air Deflector Hoods (30°, 60°, & 90°)

Venting Accessories:

- Horizontal/Vertical Concentric Vent Kits
- 2-Pipe Vent Termination Screen Kit

Miscellaneous & Suspension Accessories:

- Ceiling Mounting Brackets
- 2-Point Suspension Kit
- Vibration Isolation Kit

Blower-Specific Accessories:

- Belt Gauard
- Blower Enclosure(optional filter & rack)
- Discharge Transition for Polytube

PERFORMANCE DATA - PTC/BTC **See catalog 6-170 for complete details.*

	MODEL PTC SIZES										MODEL BTC SIZES		
	55	65	85	110	135	156	180	215③	260③	310③	215	260	310
BTU/HR INPUT①	55,000	65,000	85,000	110,000	135,000	156,000	180,000	215,000	260,000	310,000	215,000	260,000	310,000
BTU/HR OUTPUT①	51,150	60,450	79,050	102,300	125,550	144,150	167,400	199,950	241,800	288,300	199,950	241,800	288,300
CONDENSATE PRODUCTION (GAL./HR.)	0.3	0.4	0.5	0.7	1.0	1.1	1.3	1.6	1.9	2.3	1.6	1.9	2.3
ENTERING AIRFLOW (CFM) @70° F ②	1097	1141	1,650	1,750	2,160	2,600	3,020	3,865	4,585	5,400	2645-4628	3198-5597	3813-6674
AIR TEMP. RISE (°F)	43	49	44	54	54	51	51	48	49	49	40-70	40-70	40-70
MAX. MOUNTING HEIGHT (FT.)②	12	12	13	13	14	17	15	17	20	19	9-22	11-26	11-26
HEAT THROW (FT.) @MAX MTG HT	43	43	48	46	51	59	53	60	70	67	33-77	40-94	39-91

①Ratings shown are for elevations up to 2,000 ft. For elevations above 2,000 feet, ratings should be reduced at the rate of 4% for each 1,000 feet above sea level. (In Canada, see rating plate.) Reduction of ratings requires use of a high altitude kit.
②Data taken at 65°F ambient and unit fired at full-rated input. Mounting height as measured from bottom of unit, and without deflector hoods.
③Corresponding blower models available (Model BTC).

To learn more, visit www.modinehvac.com or call 800-828-HEAT

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