

OPTUM



Optum brings leading edge condensing heat exchanger technology to Beacon Morris' successful unit heater product offering.

With tri-metal stainless steel heat exchanger technology, proprietary pre-mix burner design and fully modulating configurations, Optum provides industry leading efficiencies of up to 99%!

Available in 6 sizes (50 – 400 MBH), in both natural gas and LP gas, Optum can be vented through PVC and CPVC for application flexibility. All units are also field convertible to separated combustion.

- Tri-Metal Stainless Steel Heat Exchanger
 - Unique Brass/Aluminum Fin Design
- Proprietary Pre-Mix Burner Design
 - Auto Adjusts to Altitude
- 99% Thermal Efficiency*
- 2-Stage and Modulating Gas Controls
- 3:1 Modulating Turndown
- Brushed Stainless Steel Jacket

*Up to 99% maximum efficiency at full turndown, 95+% certified efficiency at high fire.

Manufacturer	Modine	Reznor	Beacon Morris
Model	PTC	UEAS	Optum (BH)
Sizes	10	4	6
MBH	55-310	131-305	50-400
CFM	1,097-5,400	2,256-4,283	790-6,464
ANSI 83.8 Efficiency	93%	91-93%	95+%
Fan Type	Propeller	Propeller	Propeller
Gas Control	1-Stage	1-Stage	2-Stage/Modulating
Turndown Ratio	1:1	1:1	3:1
Venting Type	Separated Combustion	Separated Combustion	Standard Combustion Field Convertible to Separated Combustion with Conversion Kit
Warranty	Unit: 1 Year Heat Exchanger: 10 Years	Unit: 1 Year Heat Exchanger: 10 Years	Unit: 1 Year Heat Exchanger: 10 Years
Voltage	115/1/60 208/1/60 230/1/60 208/3/60 230/3/60 460/3/60 575/3/60	115/1/60	115/1/60 208/1/60 230/1/60 208/3/60 230/3/60 460/3/60 575/3/60
Condensate Pump & Neutralizer	Optional	Not Available	Optional
Convenience Outlet	Optional	Not Available	Not Available
Burner	Multiple In-Shot	Patented Single Burner	Proprietary Single Burner Design
Orifice	Multiple Orifice	Single Orifice	Single Orifice
Fan Guard	Size 110 and Smaller: Fingerproof Guard Sizes 135+ : Standard Guard (Opt. Fingerproof)	Standard Guard	OSHA Guard
Cabinet	20 Ga. Aluminized Steel	G30 Galvanized Steel	20 Ga. 430 Brushed Stainless Steel
Paint	Electrostatically Applied, Baked-On Gray-Green Polyester Powder Paint (7-mil Thickness)	Pre-Coat or Powdercoat RAL 1001 White Paint Finish	Brushed Stainless Steel
Motor	TE	ODP (Opt TE)	ODP
Heat Exchanger	Primary: 18 Ga. Aluminized (Opt. 409 Stainless) Secondary: 20 Ga. AL29-4C Stainless Steel	Primary: Tcore3 Titanium Stabilized Aluminized Steel (Opt. 409 Stainless) Secondary: Extruded Aluminum MacroChannel	0.043 in. Thickness 409 Stainless Steel Tube with Brass & Aluminum Fins
Flue Collector	20 Ga. AL29-4C Stainless Steel	N/A	321 Stainless Steel
Condensate Float	Yes	No	Yes
External LED Status	Yes	No	Yes
Venting	Sizes 55-135 - 3 in. PVC Sizes 156-260 - 4 in. PVC Size 310 - 6 in. Steel	4 in. PVC Flue Vent, 6 in Single Wall Combustion Air	Size 50/150 - 2 in. PVC Size 200 - 3 in. PVC Size 300/400 - 4 in. PVC
Max Vent	50 ft.	50 ft.	50 ft.
90° Elbow Equivalent Length	3 in. & 4 in. diameter = 6 ft. 6 in. diameter = 7 ft.	8 ft.	5 ft.
Supply Gas Pressure	6-7 in WC Natural 11-14 in WC Propane	5-14 in WC Natural 11-14 in WC Propane	5-14 in WC Natural 8-14 in WC Propane
Manifold Pressure	3.5 in WC Natural 10 in WC Propane	3.5 in WC Natural 10 in WC Propane	0 in WC (Neg Reg Valve)
Altitude	Requires High Altitude Kit Above 2,000 ft.	Manual Adjust Gas Valve	Auto-Adjusts
Suspension	4 Point Opt. 2 Point Kit	4 Point	4 Point
Concentric Vent Kit	Yes	Yes	Yes
Disconnect or On/Off Switch	Opt. On/Off Switch	Disconnect Switch Door Safety Switch	Not Available
Propane Conversion	Optional	Included	Included
Condensate Connection	Requires 2 Condensate Connections (Vent Pipe and Secondary Heat Exchanger)	Requires 2 Condensate Connections (Vent Pipe and Secondary Heat Exchanger)	One Condensate Connection (Bottom of Unit)
Condensate Trap	Field Provided	Field Provided	Standard



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OCP-1