

OIL-FIRED, HORIZONTAL DELIVERY UNIT HEATERS

- Three Sizes • Pressure-Atomizing, Gun-Type Oil Burner • Cad-Cell Safety Shut-Off • Electric-Spark Ignition
- Fan and Limit Control



MODEL POR

Modine model POR oil-fired unit heaters are built with time-tested and field-proven components to provide optimum comfort and heating efficiency as high as 84%.

Standard features include:

- A long-life heat exchanger is made of corrosion-resistant, aluminized steel and roll-formed to eliminate thermal stress. It contains a preformed, ceramic fiber fire-pot that is lightweight, resilient, and resists both mechanical and thermal shocks.
- For ease of service, the heat exchanger is equipped with an inspection port, two clean-out ports, and an amply-sized service door for removing fire pot when replacement becomes necessary.
- A reliable, pressure-atomizing gun-type burner equipped with a stainless steel, die-stamped flame-retention head that can increase combustion efficiency by as much as 20 to 30 percent over non-flame retention-type burners.
- Honeywell microprocessor based ignition controller providing superior combustion and safety monitoring.
- Onboard diagnostics with LED output for simplifying the lives of service personnel.
- Interrupted-duty ignition that disables the spark once ignition is proven. Older technology uses a continuous spark that is noisy, prone to shorter lifespan, and not energy efficient.
- Electronic oil igniter module with superior spark voltage (20kV) replaces traditional bulky ignition transformers.
- Beckett CleanCut burner pump that uses a solenoid valve to instantly cut oil flow on shutdown, eliminating soot formation from coasting stops.
- Two stage pump with PSC motor provides maximum fuel pressure delivery, even in high lift applications.
- Finger-proof fan guard.
- The unit casing is treated for protection against corrosion prior to the application of the attractive gray-green, baked-on polyester powder coat paint finish.
- Accessory Outside Combustion Air Kit converts the burner to accept outside combustion air piping for tight building applications.

Performance Data

Model	Input Btu/Hr	Input GPH	Output Btu/Hr	CFM @ 70°F	Delivery FPM	Temp. Rise (°F)	Max Height ①	Heat Throw
POR100	119,000	0.85	100,000	1890	460	49	12'	39'
POR145	175,000	1.25	145,000	2400	580	56	13.5'	50'
POR185	231,000	1.65	185,000	3200	740	54	12'	51'

① Deflector blades pitched 45° toward the floor. Mounting height is measured from floor to bottom of unit.

Fan Motor Specifications

Model	HP	Voltage	Hz	Phase	Fan Motor Amps ②	RPM	Type	Fan Diameter
POR100	1/6	115	60	1	2.1	1100	PSC	18"
POR145	1/3	115	60	1	5.4	1100	PSC	18"
POR185	1/3	115	60	1	5.4	1100	PSC	22"

② Total AMPS equals fan motor AMPS plus burner motor and ignition transformer load of 2.2 AMPS.



Request Catalog 4-112 For Complete Technical Information and Specifications.