

OFE-ECM

Energy Efficient
Nortron Electric Furnace



NORTRON

Features

Color

- Standard: grey.

Voltage

- 240V, 1-phase.

Construction

- Steel casing, all insulated for reduced heat loss and noise.
- One panel on casing provides access to internal parts.

Fan

- High quality precision balanced blower for quiet operation and optimal performance.

Motor

- Variable speed electronically commutated motor (ECM), permanently lubricated and rubber mounted for maximum vibration and noise reduction.
- Relay and printed circuit board (PCB) control automatic operation of motor and allow for the addition of air conditioning or heat pump.

Heating element

- Heavy duty, reliable Helical coil nickel-chromium alloy wire provide superior heat transfer with unrestricted air flow.
- Heating elements can be individually replaced.
- High-limit temperature control with automatic reset.
- Elements modulation is done by a low voltage printed circuit boards with rectifier/timers to prevent power surges.

Control

- Heavy duty 24VAC transformer provides power to relays and controls.
- Easy access built-in breakers with manual reset (except the 10kW models).
- "Speed Selection" switch: "Low" or "High".
- "Heat Activation" switch: "Slow" or "Fast".
- Compatible with 1 or 2-stage thermostat with or without external unit.

Installation

- Multi-position installation, sides, back, or bottom air returns.
- Approved for zero clearance installation against combustible surfaces.

Warranty

- 5-year warranty against defects.

Application

- For cottages, homes or offices, also approved for mobile homes use. May be installed in a basement, closet, crawl space or any unused area or alcove.

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Models with Variable Speed Motor (ECM)

| Product # | Volts (1 ph) 2 wires | kW (BTU/hr) | Amp. including motor | Motor HP | Static Pressure at 0.2" W.C. | | Weight | |
|-----------|-------------------------|--------------|-------------------------|-------------|------------------------------|------------------|--------|------|
| | | | | | Motor Speed ¹ | cfm ² | lb | kg |
| 21ECM10-A | 240 | 10.0 (34152) | 43.0 | 1/3 | Low | 740 | 108 | 50.0 |
| 21ECM15-A | 240 | 15.0 (51228) | 64.0 | 1/3 | Medium | 1040 | 108 | 50.0 |
| 21ECM18-A | 240 | 18.0 (61473) | 76.0 | 1/3 | Medium | 1040 | 110 | 49.9 |
| 21ECM20-A | 240 | 20.0 (68304) | 84.0 | 1/3 | Medium | 1040 | 110 | 49.9 |
| 21ECM23-A | 240 | 22.5 (76842) | 94.0 | 1/3 | Medium | 1040 | 115 | 49.9 |

Option

| Product # | Description |
|-------------------|-------------------|
| Kit | |
| FSB1 ³ | Downflow sub-base |

¹ Factory settings.

² Refer to the installation instructions and owner's manual for complete air flow tables.

³ Available with 10kW, 15kW, 18kW and 20kW models.

Standard color is grey.

Wall Controls

Compatible with any low voltage thermostat.

