

# OFF-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 <sup>1</sup>	cfm <sup>2</sup>	lb	kg
21ECM10-A	240	10.0 (34152)	43.0	1/3	Low	775	108	50.0
21ECM15-A	240	15.0 (51228)	64.0	1/3	Medium	1020	108	50.0
21ECM18-A	240	18.0 (61473)	76.0	1/3	Medium	1149	110	49.9
21ECM20-A	240	20.0 (68304)	84.0	1/3	Medium	1149	110	49.9
21ECM23-A	240	22.5 (76842)	94.0	1/3	Medium	1149	115	49.9

## Option

Product # Kit	Description
FSB1 <sup>3</sup>	Downflow sub-base

<sup>1</sup> Factory settings.

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

<sup>3</sup> Available with 10kW, 15kW, 18kW and 20kW models.

Standard color is grey.

## Wall Controls

Compatible with any low voltage thermostat.

