

# ECM SERIES ELECTRIC FURNACES

Clean, quiet and efficient units provide electrically controlled comfort throughout your cottage, home or office.

## FEATURES

- Units do not produce any soot or smoke
- May be installed in a basement, closet, crawl space or any unused area or alcove
- Space saving design allows for zero clearance installation between the furnace and combustible surfaces
- Installation only requires the connection of power to the unit and the connection of the thermostat wires
- Quiet performance is assured through the special mounting and balancing of the blower wheel
- Standard Broan components assure versatility and convenience
- Thermal efficiency is assured through the use of nickel-chrome heaters which are oversized to ensure rapid heat transfer. Plug-in modules to ease servicing
- Units require a 20" x 20" x 1" (510 mm x 510 mm x 25 mm) disposable type filter. Filter installation and removal does not require the use of tools. Filter units are specifically designed to trap dust and lint
- Connection components are equipped with high temperature limits, restricting the operation of the unit at high temperatures
- Time delay sequencers are built into the units, this prevents power surges resulting in lights dimming or blown fuses
- Fan relay and PCB electronic controller control automatic operation of blower and allows for the addition of air conditioning
- Housing constructed of steel and finished with a baked epoxy (powder paint) finish
- Transformer is of a heavy duty 24 V type
- Supply wiring block enables copper conductors
- Thermostat "on" light facilitates locating malfunctions
- The elements come on-line faster during the coldest winter months (when setting Heat Activation switch to Fast)
- Electric furnace control manages all furnace components to run quietly during continuous or regular cycle modes
- Energy efficiency is assured through the use of Electronically Commutated Motor (ECM™)
- Equipped with breakers, located on the front panel of the unit, to protect the heating elements from overcurrent.

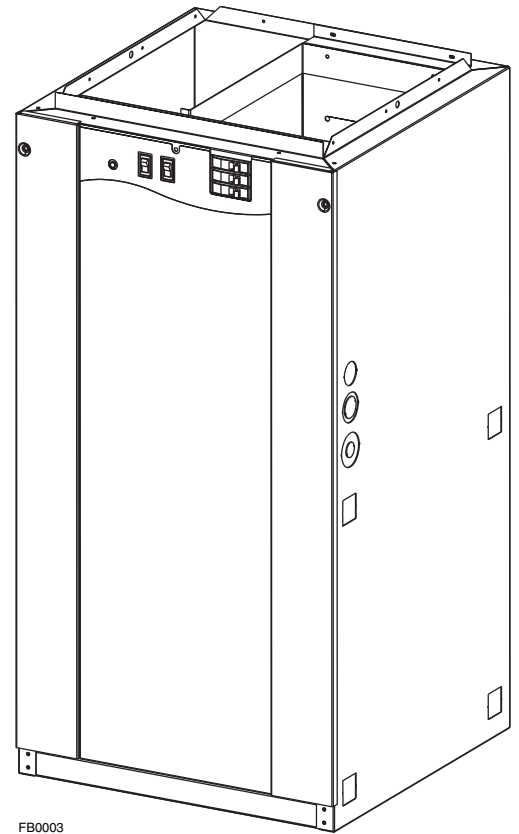
## TYPICAL SPECIFICATION

Furnace shall be Nortron by Broan model 21ECM10, 21ECM15, 21ECM18, 21ECM20 or 21ECM23.

Unit housing shall be 40" H x 20" W x 20" D (1016 mm H x 510 mm W x 510 mm D). Filter is installed outside of unit housing.

Blower assembly shall have a centrifugal-type blower wheel and a permanently lubricated motor.

Unit shall be CSA certified.



FB0003

Broan-NuTone Canada; Mississauga, Ontario [www.broan.ca](http://www.broan.ca) 877-896-1119

REFERENCE	QTY.	REMARKS	Project
			Location
			Architect
			Engineer
			Contractor
			Submitted by
			Date

## SPECIFICATIONS

MODEL	VOLTS	PHASE	AMPS INCL. MOTOR	kW	BTU/HR. (kJ/HR.)	AIR FLOW RATE - FACTORY SET				TEMP. RISE		MOTOR H.P.	BLOWER SIZE (MM)
						HEATING		COOLING		°C	°F		
						MAX CFM @ 0.2" w.g. (MAX. L/s @ 5.1 MM W.G.)	MAX CFM @ 0.5" w.g. (MAX. L/s @ 12.7 MM W.G.)	MAX CFM @ 0.2" w.g. (MAX. L/s @ 5.1 MM W.G.)	MAX CFM @ 0.5" w.g. (MAX. L/s @ 12.7 MM W.G.)				
21ECM10	240	1	43	10	34152 (36000)	775 (366)	685 (323)	1238 (584)	1139 (538)	22	40	1/3	10" x 8" (254 x 203)
21ECM15			64	15	51228 (54000)	1020 (481)	902 (426)			22	40		
21ECM18			76	18	61473 (64800)	1149 (542)	1016 (479)			26	47		
21ECM20			84	20	68304 (72000)					29	52		
21ECM23			94	22.5	76842 (81000)					36	65		

## DIMENSIONS

