

NORTRON
by Broan


ELECTRIC FURNACES


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

Quality and Style. Home Ventilation  *clears up foggy windows*

and steamy mirrors. Range Hoods  *complement your decor*


while ventilating your kitchen. Central Vacuums  *provide quiet*

performance with optimum cleaning. Door Chimes  *announce all*



your visitors with style. Electric Furnaces  *distribute heat throughout*

your home. Intercoms  *let you communicate with a push of a*

button. Speakers  *create a home theatre room. Ironing Centres*  *simplify pressing with fold-away convenience.*

Attic Fans  *control*

temperatures in non-vented areas. Heaters  *add warmth in drafty*

areas. Trash Compactors  *minimize waste. Thermostats*  *maintain heat at desired settings.*

Throughout our Full Line of Products.

BROAN-NUTONE
CANADA INC.

Customer Service:
1 888 882-7626 (905) 670-2500
www.Broan.ca

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Advantages of an electric furnace

Installs Almost Anywhere...

In a basement, closet, crawl space or any unused area or alcove. CSA approved for zero clearance.

Efficiency...

No chimney is required, so 100% of the heat produced stays inside.

Simple Installation...

No complex controls to attach. Just connect the power and thermostat wires.

Cleanliness...

Produces no soot or smoke.

Versatility...

For complete comfort, add air conditioner, power humidifier or electronic air cleaner as desired.

Quiet Operation...

The blower – the only moving part – is specially mounted and balanced for an optimal quiet operation.

Multi-Speed Motor...

Standard equipment for versatility and convenience.



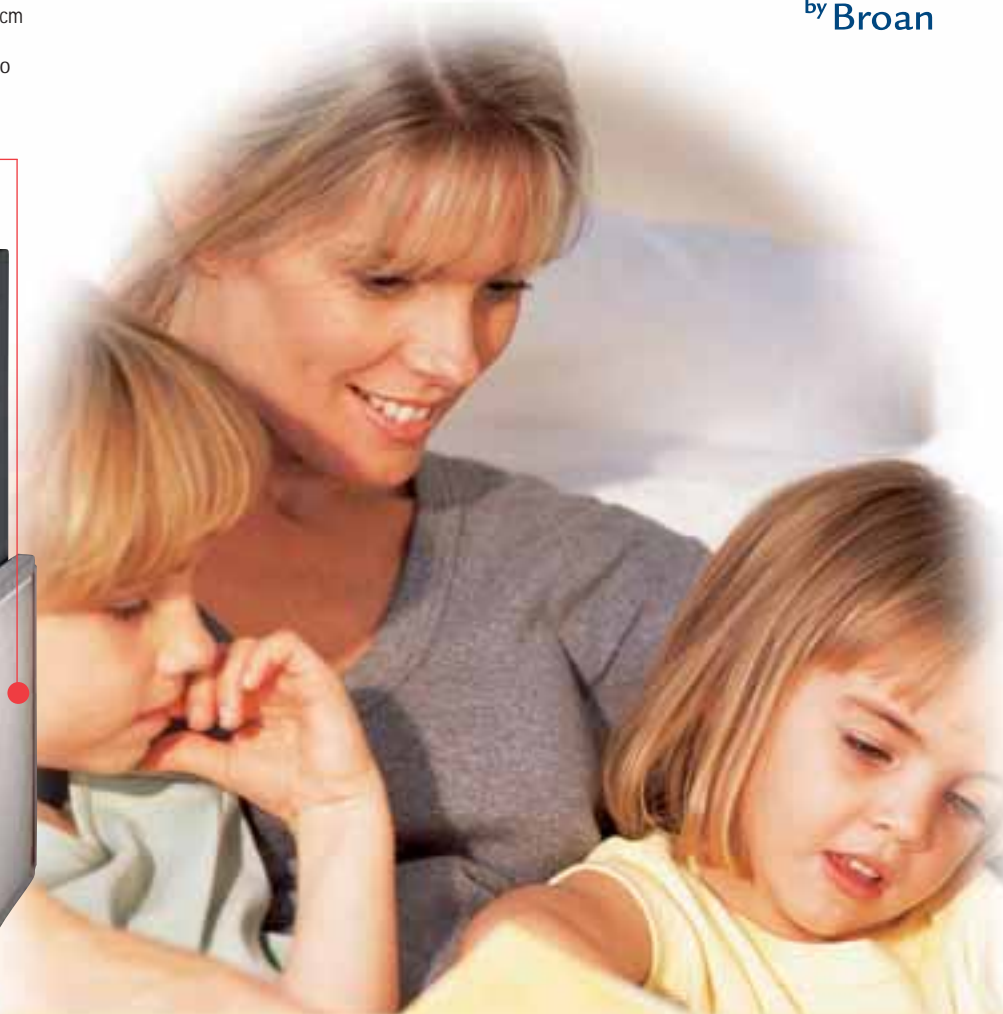
CSA Approved...

All models are CSA listed. 10 kW and 15 kW models meet additional CSA requirements for use in mobile homes with FSB1 Sub-base.



Proven value, functionality and reliability

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Element Bank

Nickel-chrome elements create extremely high thermal efficiency. Greater heating surface offers rapid heat transfer. Each module slides out if service is required.

Safety Limits

For safety, each element is equipped with a high temperature limit. The resetting type prevents operation at unsafe air temperatures due to blocked or dirty filters.

Filter

20" x 20" x 1" (51 cm x 51 cm x 2.5 cm) disposable type. Traps dust and lint. Since no smoke or soot is produced, filter life is longer. Easily replaced without tools.

Time Delay Sequencers

Silently turn on elements at staged intervals to prevent power surges that might dim lights or blow fuses.

Fan Relays

Control automatic operation of blower and allow for the addition of air conditioning.

Cabinet

Steel with baked epoxy (powder paint) finish. Approved for zero clearance; installs against combustible surfaces with complete safety.

Transformer

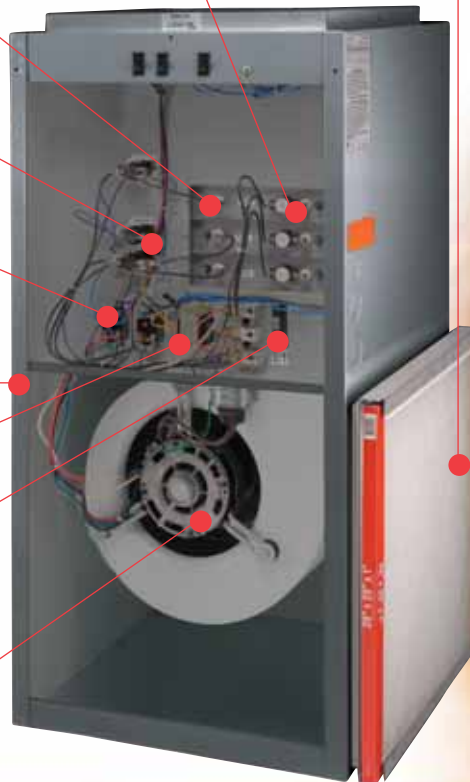
Heavy duty 24-volt output, standard in every furnace.

Supply Wiring Block

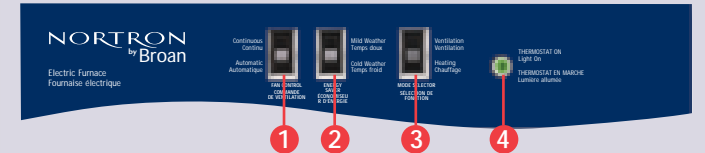
Use 75 C supply wire of appropriate size. Cu-Al.

Motor and Blower

Multi-speed motor is standard equipment. Permanently lubricated. Blower is rubber mounted and precision balanced for quiet operation.



Built-in user convenient control



1) Energy Saver

Continuous Low – Motor runs continuously on low to help equalize room temperature.

Automatic – Motor will start on low speed when thermostat energizes first element and will stop when thermostat opens.

In both switch positions the blower will automatically change to a higher speed after additional elements are energized by the sequencers and plenum temperature rises.* This minimizes cold drafts that might occur before the furnace reaches full output.

2) Energy Saver

Mild Weather – Disconnects approximately half of the elements so entire furnace is not energized during milder fall and spring months.

Cold Weather – All element banks are available for heat.

3) Mode Selector

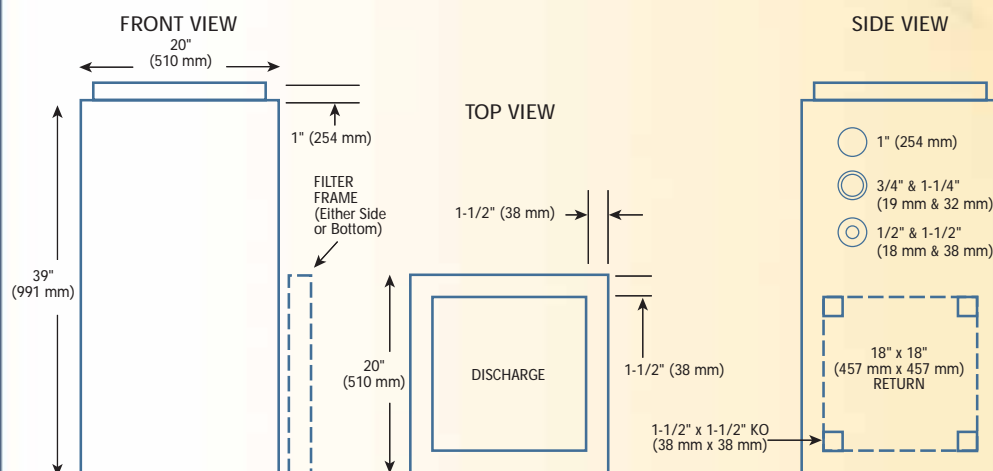
Continuous High (Thermostat Bi-pass) – Motor runs continuously on high for constant air circulation during warm weather months.

Automatic – Blower controlled by thermostat.

4) Pilot Light

"On" Light – Assists in locating source of any malfunction.

* Not available on 10 kW and 13.5 kW models.



ACCESSORIES

MODEL NO.	DESCRIPTION
FK120	120-volt Furnace Kit – mounts inside furnace for the supply of electronic air cleaners and furnace humidifiers.
FSB1	Sub-base – for use with 10 kW and 15 kW furnaces in downflow position for CSA listed mobile home installation.

DELUXE B SERIES - MODERNIZED

240 VOLTS - SINGLE PHASE						TEMP RISE @ 0.20" W.C			
MODEL NO.	KW	BTU/H	AMPS incl motor	H.P.	BLOWER	°C	°F	Speed	RPM
21B10M	10	34120	44	1/3	10" x 8" (25.4 X 20.3 cm)	21	38	Low	638
21B15M	15	51180	65	1/3	10" x 8" (25.4 X 20.3 cm)	24	43	Med-Low	814
21B18M	18	51416	86	1/3	10" x 8" (25.4 X 20.3 cm)	27	49	Med-Low	814
21B20M	20	68240	87	1/3	10" x 8" (25.4 X 20.3 cm)	33	59	Med-Low	814
21B25M	25	85300	106	1/3	10" x 8" (25.4 X 20.3 cm)	37	67	Med-Low	814
21B27MS*	27	92124	118	3/4	12" x 8" (30.4 X 20.3 cm)	36	65	Med-High	707
208 VOLTS - THREE PHASE									
83B13	13.5	46062	42	1/3	10" x 8" (25.4 X 20.3 cm)	21	38	Med	960
83B24	24	81880	70	1/3	10" x 8" (25.4 X 20.3 cm)	35	63	Med	960
83B27	27	92124	78	1/3	10" x 8" (25.4 X 20.3 cm)	39	70	Med	960

*21B27MS has built-in noise absorption components to run quietly during continuous or regular cycle modes.

BLOWERS

10" x 8"	0.20" W.C.		0.50" W.C.		12" x 8"	0.20" W.C.		0.50" W.C.		
	SPEEDS	RPM	CFM	RPM		CFM	SPEEDS	RPM	CFM	RPM
LOW	663	756		872	729	LOW	499	727	657	636
MED-LOW	814	1035		958	971	MED-LOW	576	912	714	853
MED-HIGH	887	1177		999	1063	MED-HIGH	707	1216	808	1157
HIGH	948	1301		1090	1207	HIGH	891	1640	947	1513

ADDITIONAL FEATURES

- Built-in fan relays for easy add-on of air conditioner.
- Provision for two-stage or outdoor thermostat (available on all models except 10 kW).