

LENNOX®

**FORCED AIR ELECTRIC FURNACES
 EC8 SERIES — UP-FLO**

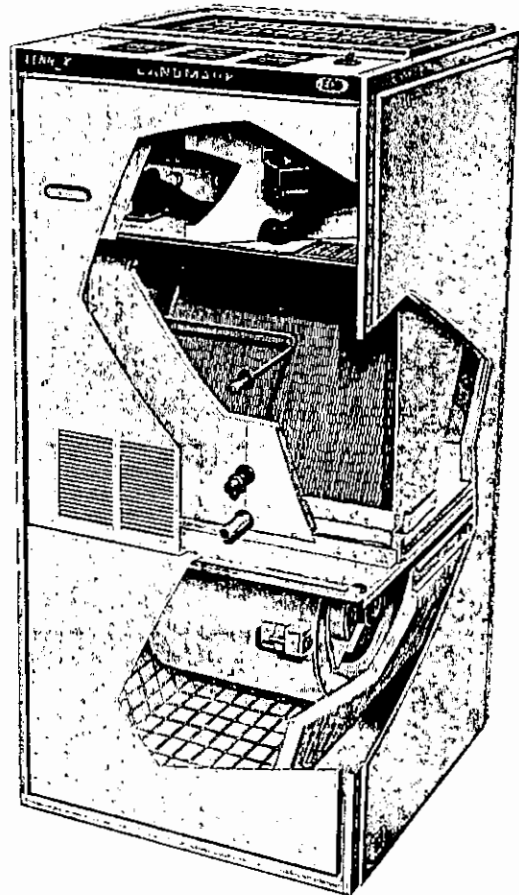
42,300 to 93,800 Btuh Output

***18,000 to 28,000 Btuh Optional Cooling Capacity**

***19,000 to 28,000 Btuh Optional Heat Pump Heating Capacity**

***ARI Standard Certified Ratings**

- Several Sizes Available
- Attractive Cabinet
- Blower Speed Choice
- Complete Service Access
- Power Supply Choice
- Optional Additive (Slide-In) Coil Section For Cooling or Heat Pump Operation
- Large Hammock Filter
- Return Air Choice
- C.S.A. Certified

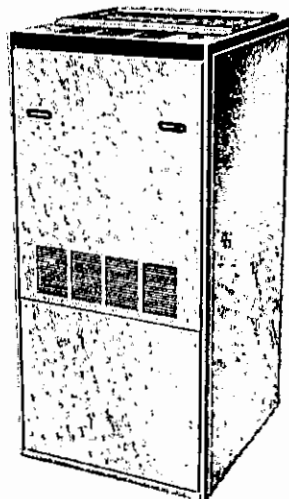


**EC8 Cutaway
 With Additive "Slide-In" Coil**

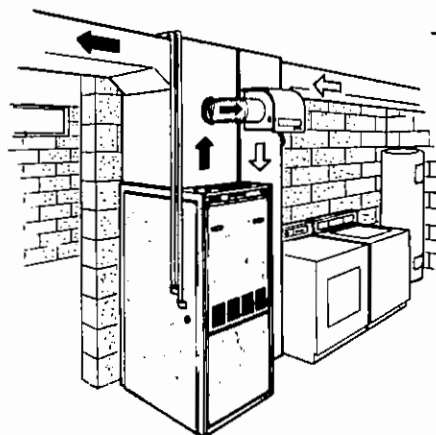
Trim Appearance, Maximum Efficiency and Application Flexibility Featured in Up-Flo Electric Furnaces

The attractive cabinet design, low height and quiet operation of the Lennox EC8 series electric furnaces permits installation in a recreation or family room, basement, utility room, alcove or closet. Several models and sizes are available with a wide range of heating capacities and air volumes. The furnace cabinet is trim and sheer looking with a finish of baked-on enamel. Die formed panels and doors have a durability and appearance unequalled. Complete service access and a choice of return air entry are provided in cabinet. A Lennox direct expansion coil unit with remote condensing unit or heat pump, electronic air cleaner and automatic humidifier can be added to the electric furnace for a Total Comfort installation. Nichrome heating elements give long service life and efficient heating operation. Quiet operating blowers have sufficient capacity to handle add-on cooling air volume requirements. Units have been developed and thoroughly tested in the Lennox Research Laboratory. Furnaces are C.S.A. listed as certified. The blower data is from actual unit tests conducted in a Laboratory air test chamber. Each unit is test operated at the factory and shipped assembled with all controls mounted and prewired. Installer has only to mount thermostat, make duct and electrical connections to complete the job.

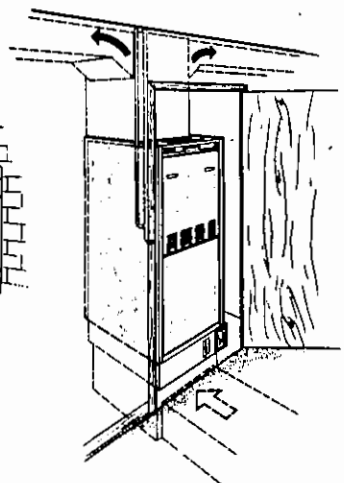
NOTE: See Lennox Data Book for complete specifications and ratings.



Typical Applications



**Basement Installation
 With additive coil
 and automatic humidifier.**

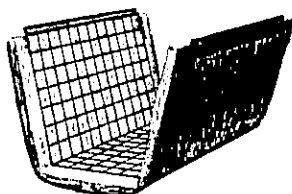
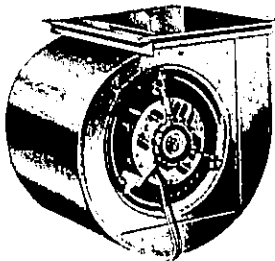


**Closet Installation
 With additive coil and
 electronic air cleaner.**

FEATURES

Rugged Trim Cabinet — Constructed of heavy gauge cold rolled steel with a durable finish of baked-on enamel. Metal liner encases heating elements keeping outer cabinet surface temperatures low. Leveling bolts and nuts are furnished and holes are provided in base to level unit. Complete service access is accomplished by removing front panel, coil access panels, element and control access panel and blower door. Front panel and blower door are easily removed and replaced without the use of tools. Blower assembly and filter assembly may be slid completely out of unit for service. Electrical inlet knockouts are provided in left side panel and cabinet cap. In addition, knockouts are provided on both sides of unit for refrigerant lines and condensate drain when additive coil is used.

Powerful Variable Speed Blower — Equipped with Lennox designed and built direct drive blowers. Each blower is statically and dynamically balanced as an assembly before it is installed in the unit. This special attention to design details and assembly balancing provides an extremely quiet and efficient direct drive blower. Motor is resiliently mounted. Four speeds are available. Change of blower speeds is easily accomplished by a simple change in wiring.



Large Air Filter — Units are equipped with hammock wrap around type filter. Media is one inch thick oil impregnated fiberglass. Filter mounting rack design provides quick and simple replacement of media.

CAC (Continuous Air Circulation) Switch — Furnaces are equipped with a manual (ON-OFF) blower switch to give continuous blower operation. The switch is conveniently located on cabinet top near right front corner of the unit.

Nichrome Heaters — The helix wound nichrome bare wire heating elements are exposed directly in the air stream resulting in instant heat transfer, lower element temperatures and long service life. Element support frame is constructed of heavy gauge steel. Porcelain insulators are accurately located for proper element support and best heater operation. Elements may easily be removed from unit individually for service.

Thermal Time Delay Relay — Factory installed and wired on element and control vestibule panel. A relay is provided for each heating element. Relays bring the heating elements on and off the line, in sequence and equal increments, with a time delay between each element. In addition, relay initiates and stops blower operation simultaneous with element operation.

Limit Controls — Each heating element is equipped with a limit control with a fixed setting. Accurately located to give protection against abnormal operating conditions.

Transformer — 24 volt transformer is furnished as standard equipment and factory installed on the element and control vestibule panel.

Thermostat (Not Furnished) — Thermostat is optional equipment and must be ordered extra.

Blower Cooling Relay (Furnished) — Relay is furnished as standard equipment and factory installed on element and control vestibule panel. Relay activates blower for cooling or heat pump operation.

Additive Coil (Optional) — Additive "slide-in" coil is available for cooling or heat pump operation. Addition of coil to furnace requires no costly, time consuming plenum or duct changes. Simply remove coil access panels and air resistance baffle and slide coil in place. For complete data on coils see bulletin in section Cooling Units — Matched Remote Systems page 25 or Heat Pumps — Matched Remote Systems page 15.

Fresh Air Inlet (Optional) — Fresh air inlet provides entry of outdoor air into return system of installation. Equipped with internal mesh screen. Connects to 6 inch round pipe. Order number BM-3632.

Lennox Total Comfort System — Consists of central furnace with the air mover, central air conditioning system, air filter and humidifier. Air is circulated through these units (also the proper amount of outdoor fresh air, if desired) where it is heated or cooled, cleaned by the air filter and humidity added (in summer humidity is removed). The air mover (blower) operates constantly, gently and quietly 24 hours a day. This constant air circulation keeps even room temperature and lowers operating costs by continually mixing and recirculating the air.

SPECIFICATIONS

Model No.	EC8-15	EC8-20	EC8-25
Blower wheel nominal diameter x width (in.)	10 x 8	10 x 8	10 x 8
Blower motor horsepower	1/3	1/3	1/3
Factory wired blower speed	Low	Med-Low	Med-High
No. & size of filters (in.)	(1) 46 x 28 x 1	(1) 46 x 28 x 1	(1) 46 x 28 x 1
*Recommended tons of cooling	1-1/2 or 2	2	2 or 2-1/2
Net weight (lbs.) (1 package)	128	128	128
Electrical characteristics	208 or 240v/60hz/1ph	208 or 240v/60hz/1ph	208 or 240v/60hz/1ph
Optional Additive Coils — Model No.	*C8-21FF, *C8-26FF & *C8-31FF		

BLOWER PERFORMANCE

EC8 SERIES WITH C8-21FF OR C8-31FF COIL

External Static Pressure (in. wg)	Air Volume (cfm) @ Various Speeds			
	High	Med-High	Med-Low	Low
0	1440	1270	920	720
.05	1420	1250	915	720
.10	1395	1225	910	715
.15	1365	1200	905	715
.20	1330	1175	900	710
.25	1300	1150	890	705
.30	1280	1125	875	700
.40	1240	1075	840	685
.50	1170	1030	805	660
.60	1100	950	760	635
.70	1025	890	730	605

NOTE — All cfm data is measured external to the unit with the air filter and coil in place.

EC8 SERIES WITH C8-26FF COIL

External Static Pressure (in. wg)	Air Volume (cfm) @ Various Speeds			
	High	Med-High	Med-Low	Low
0	1330	1170	910	735
.05	1315	1160	910	730
.10	1295	1140	905	725
.15	1270	1120	900	715
.20	1250	1100	895	705
.25	1225	1075	880	695
.30	1200	1050	870	685
.40	1135	995	830	660
.50	1070	935	785	630
.60	990	865	735	600
.70	910	800	675	570

NOTE — All cfm data is measured external to the unit with the air filter and coil in place.

EC8 SERIES WITH AIR RESISTANCE BAFFLE

External Static Pressure (in. wg)	Air Volume (cfm) @ Various Speeds			
	High	Med-High	Med-Low	Low
0	1440	1270	920	720
.05	1420	1250	915	720
.10	1395	1225	910	715
.15	1365	1200	905	715
.20	1330	1175	900	710
.25	1300	1150	890	705
.30	1280	1125	875	700
.40	1240	1075	840	685
.50	1170	1030	805	660
.60	1100	950	760	635
.70	1025	890	730	605

NOTE — All cfm data is measured external to the unit with the air filter and air resistance baffle in place.

ELECTRICAL DATA

Model Number	No. of Steps	No. of Elements (1 phase)	Volts Input	KW Input	Btuh Output	†*Minimum Circuit Ampacity
EC8-15	3	3	208	12.4	42,300	67.1
			220	13.8	47,100	70.2
			230	15.2	51,900	73.6
			240	16.5	56,300	76.3
EC8-20	4	4	208	16.6	56,600	87.3
			220	18.4	62,800	91.1
			230	20.2	68,800	95.3
			240	22.0	75,000	99.2
EC8-25	5	5	208	20.7	70,600	107.0
			220	23.0	78,500	112.0
			230	25.3	86,300	117.5
			240	27.5	93,800	122.1

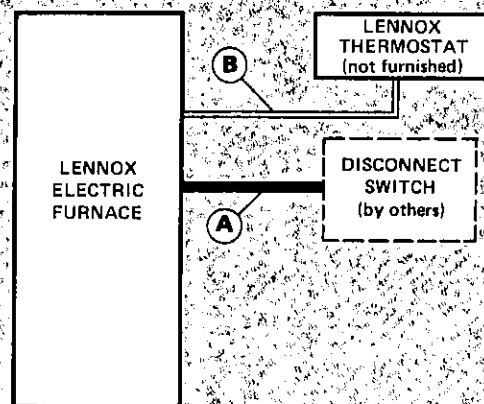
*Refer to Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
†Includes maximum horsepower blower motor for high static.

FIELD WIRING

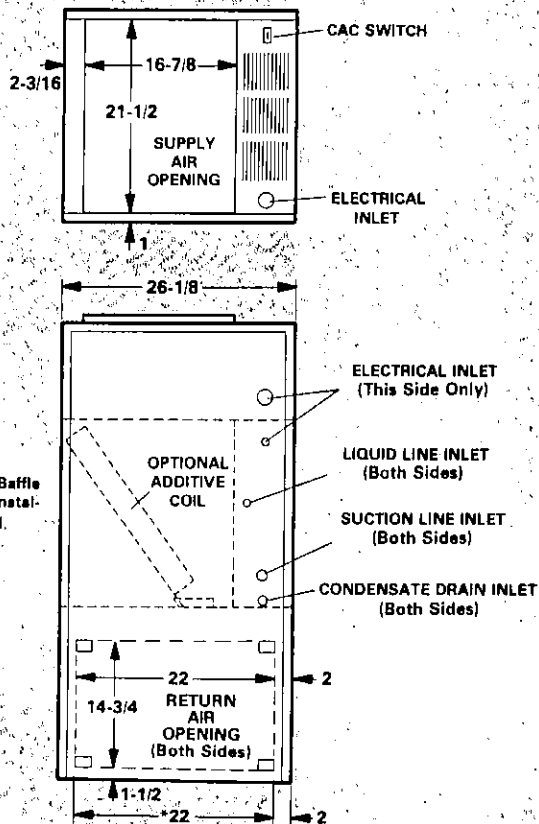
A — Two wire power supply (not furnished)
See Electrical Data table for size.

B — Two wire low voltage (not furnished) — 18 ga. minimum.

NOTE — All wiring must conform to CEC and local electrical codes.



DIMENSIONS (inches)



NOTE — Air Resistance Baffle must be removed when installing Optional Additive Coil.

C.S.A. INSTALLATION CLEARANCES

Sides, Rear, Top & Front of Cabinet	0 inches
Floor	Combustible
Plenum & warm air duct within 4' of cabinet	1 inch

*Bottom Return Air Opening.