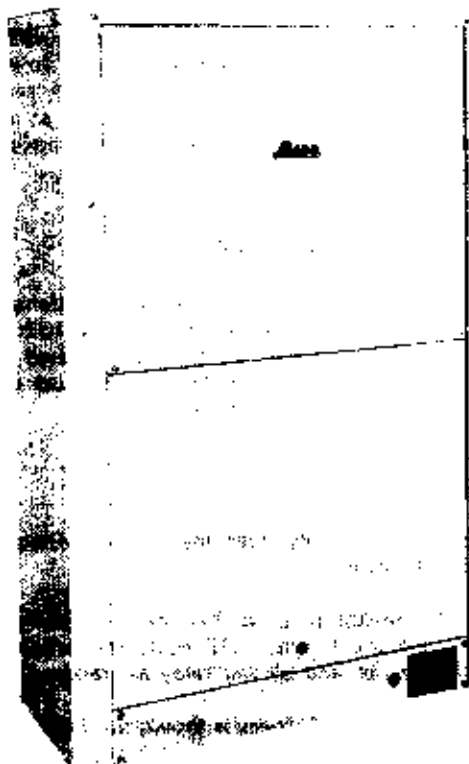




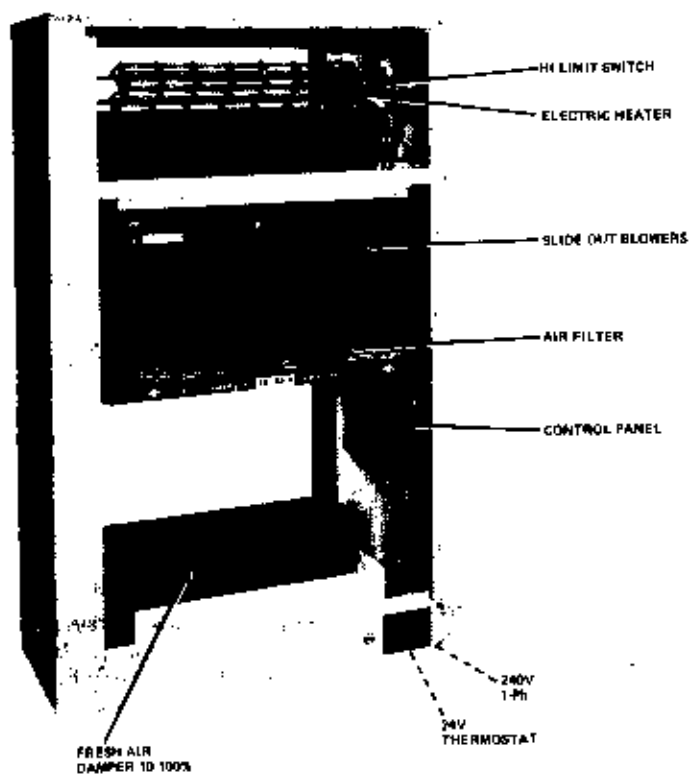
INSTALLATION INSTRUCTIONS

WALL MOUNTED ELECTRIC FURNACE



MODELS

- WEF5
- WEF8
- WEF10
- WEF12
- WEF15
- WEF9-3
- WEF12-3
- WEF15-3



BARD MANUFACTURING COMPANY, BRYAN, OHIO 43506

WALL MOUNTED-ELECTRIC FURNACE INSTALLATION AND SERVICE INSTRUCTIONS

GENERAL

Units are shipped completely assembled and internally wired, requiring only duct connections, thermostat wiring and external 230-240V power supply.

The unit is designed for use with or without duct work. Flanges are provided for attaching the supply and return ducts.

Sufficient mounting hardware is shipped with the unit. (2-side brackets)

Size of unit for a proposed installation should be based on heat loss calculation made according to methods of National Warm Air Heating and Air Conditioning Association. Units must be installed in accordance with Regulations of the National Fire Protection Association and applicable local codes. Where local regulations are at a variance with instructions, installer should adhere to local codes.

When received, carton should be checked for external signs of damage. If damage is found, request for inspection by carrier's agent should be made in writing immediately.

WALL MOUNTING

1. Two holes, the size of the supply and return air openings, must be cut through the wall.
2. On wood-frame walls, the wall construction must be strong and rigid enough to carry the weight of the unit without transmitting any unit vibration.
3. Concrete block walls must be thoroughly inspected to insure that they are capable of carrying the weight of the installing unit.
4. Ducts through the walls must be insulated and all joints taped or sealed to prevent air or moisture entering the wall cavity.
5. Some installations may not require any return air duct. It is recommended that on this type of installation that a filter grille be located in the wall. Filters must be of sufficient size to allow a maximum velocity of 400 FPM.

LOCATION AND CLEARANCES

At least 24 inch service access clearance from access panels should be provided. Furnace casing suitable for 0 inch clearance from combustible material. This unit is designed for upflow installation.

FILTER

1. A 1" throw-away filter is supplied with each unit. The filter slides into position making it easy to service. The filter can be serviced from the outside by removing the service door. Filters should be replaced at least once a year with the same size and type as removed from the unit.

FRESH AIR DAMPER (10-100%)

1. All units are provided with a fresh air damper, located in the bottom panel. A minimum of 10% fresh air is constantly supplied to the conditioned area. The amount of fresh air can be increased up to 100% by adjusting the manual damper.

WIRING

All wiring must comply with the National Electrical Code and local ordinances.

Connect thermostat wires to the marked terminals located inside the electrical panel. All units are provided with a 40VA transformer and blower relay as standard equipment.

Internal wiring of the furnace is shown on the wiring diagram on the inside of the control panel.

THERMOSTAT HEAT ANTICIPATOR SETTING

WEF10	.60	WEF9-3	.60
WEF12	1.10	WEF12-3	1.10
WEF15	1.10	WEF15-3	1.10

WEF12-15

This unit is connected to more than one branch circuit. Disconnect all branch circuits before servicing.

ELECTRIC HEATING ELEMENT

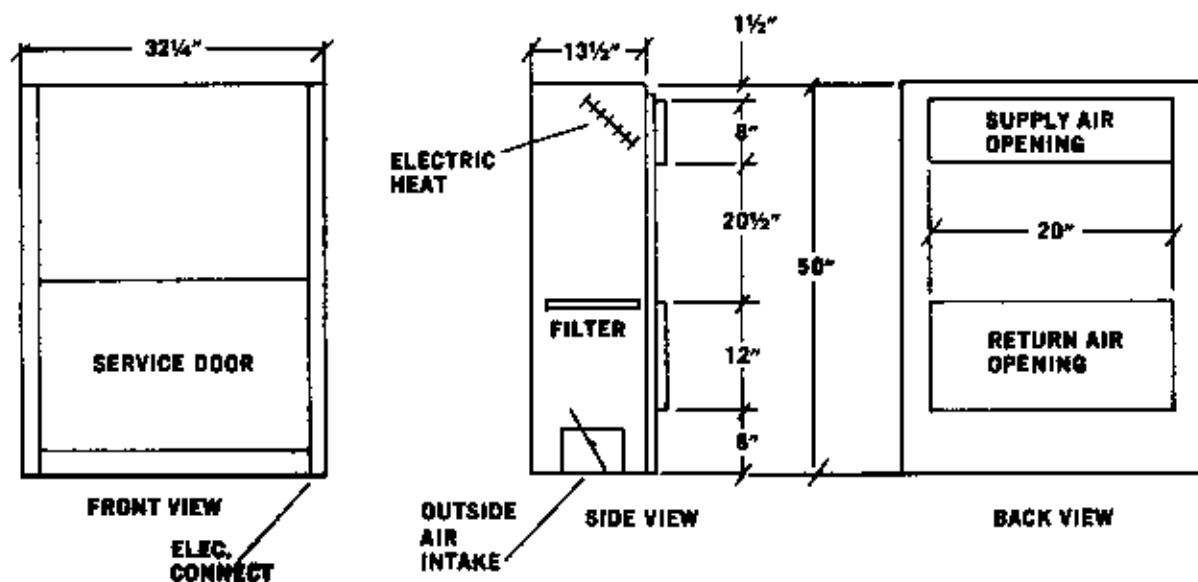
The electric heat strip is mounted in the supply air side. To gain access to the heater, remove the service access panel. The heater has an overheat thermostat and fuse link for safety control.

BLOWER MOTOR

A built-in blower relay provides separate blower operation. The blower motor can be serviced by removing four screws and sliding out. 1/8 H.P. 240V, 1.3 Amps, 607 CFM @ .20" H₂O.

DIMENSIONS

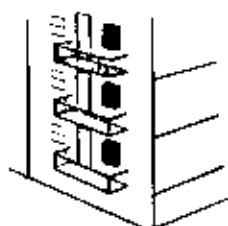
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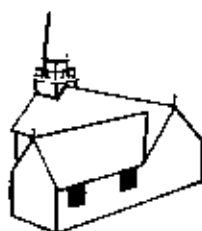
SPECIFICATIONS

UNIT	RYU OUTPUT	KILO-WATTS	VOLTS	PHASE	CIRCUIT CODE	FIELD WIRE	AMPS PER CIRCUIT	FIELD CONDUIT SIZE	DELAY FUSE OR BREAKER REQ'D.
WEF10	34,130	10	240	1	A	2 #6	43.0	1"	60
WEF12	40,980	12	240	1	A	2 #6	34.7	1 1/4"	45
					B	2 #10	16.7		25
WEF15	51,190	15	240	1	A	2 #6	43.0	1 1/4"	60
					B	2 #10	20.8		30
WEF9-3	30,600	9	240	3	A	3 #10	23.2	3/4"	30
WEF12-3	40,980	12	240	3	A	3 #8	30.3	3/4"	40
WEF15-3	51,195	15	240	3	A	3 #6	37.5	1"	50

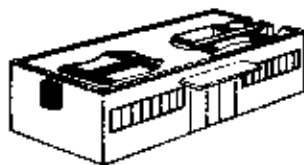
APPLICATIONS



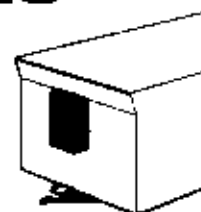
Multiple dwelling installation



Churches (zoned)



Small Business installations



Offices/Homes on wheels



Modular Structures

