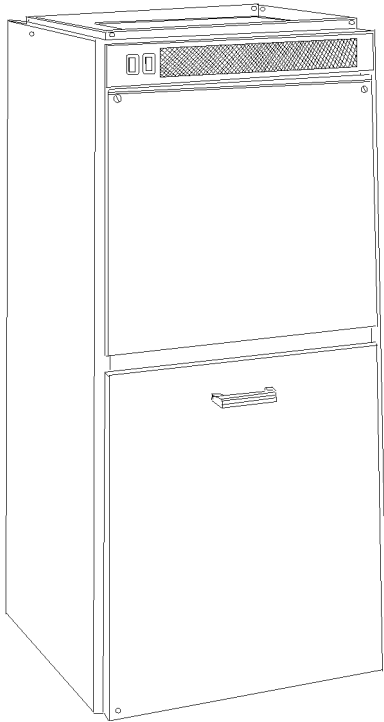


# ELECTRIC FURNACE



Representative photo only, some models may vary in appearance.

## EF / EG ELECTRIC FURNACE

### FEATURES

#### ENERGY SAVERS

- Electric heaters are 100% efficient at converting electricity into heat
- Large diameter blowers move air efficiently
- Heat switch on 18, 20, 25 kW models reduces heat capacity in half, this saves energy during spring and fall
- Direct drive blower models save extra energy as there are no belt losses

#### QUIET OPERATION AND COMFORT

- Heater controls silently sequence on the electric heaters
- Large diameter blowers run very quietly
- Two speed blower models start up on low speed which reduces noise
- Direct drive blower models have no belt noise
- Fan switch permits constant low speed blower operation for better circulation, filtration and heating of the air
- Heat switch usage during spring and fall will give more uniform heating of the air
- Deluxe models automatically switch from low to high blower speeds when the air temperature reaches 50°C (125°F), this eliminates cold drafts

#### VERSATILITY

- Five heat capacities permit correct heat choices
- Models are available for upflow, horizontal or downflow installations
- Blowers and motors are sized for proper air conditioning
- Terminals are provided for 2 stage thermostat heat control
- Two speed blower models have 3 or 4 speed choices
- Direct drive, 2 speed models are standard however belt drive and single speed models are available

#### EASY INSTALLATION AND SERVICING

- Lightweight, compact cabinets
- Two large access doors permit easy servicing of controls and blower
- Externally mounted filter and frame are supplied for easier owner filter replacement
- Easy blower adjustment
- Socket provided for quick addition of a cooling relay
- Control transformer is sized for addition of air conditioner

#### SAFETY AND WARRANTY

- Thermal protection on each heater and the blower motor
- 5 year heater warranty
- 1 year mechanical warranty
- All warranties are subject to the terms on the detailed warranty certificate



## FURNACE SPECIFICATIONS <sup>1</sup>

MODEL NUMBER <sup>2</sup>	E_10		E_15		E_18		E_20		E_25	
Capacity - kw @ 240 volt <sup>3</sup> - BTUH	10		15		18		20		25	
	34, 130		51, 190		64, 430		68, 260		85, 320	
Air - blower size mm (in)	254 x 254 (10 x 10)		254 x 254 (10 x 10)		254 x 254 (10 x 10)		254 x 254 (10 x 10)		254 x 254 (10 x 10)	
- external static pressure PA ("WC)	50 - 125 (.2 - .5)		50 - 125 (.2 - .5)		50 - 125 (.2 - .5)		50 - 125 (.2 - .5)		50 - 125 (.2 - .5)	
- max. outlet temperature °C (°F)	93 (200)		93 (200)		93 (200)		93 (200)		93 (200)	
- volume range @ 50 Pa (.2"WC) L/S (CFM)	355 - 565 (750 - 1200)		355 - 565 (750 - 1200)		355 - 565 (750 - 1200)		365 - 700 (775 - 1485)		365 - 700 (775 - 1485)	
Belt Drive - motor sheave mm (in.)	83 (3 1/4)		83 (3 1/4)		83 (3 1/4)		90 (3 1/2)		90 (3 1/2)	
- blower sheave mm (in.)	229 (9)		203 (8)		203 (8)		178 (7)		152 (6)	
- belt size mm (in.) 2 spd.	1143 (45)		1118 (44)		1118 (44)		1092 (43)		1016 (40)	
1 spd.	1143 (45)		1092 (43)		1092 (43)		1041 (41)		1016 (40)	
Filter - size mm (in.)	50 x 50 (20 x 20)		50 x 50 (20 x 20)		50 x 50 (20 x 20)		50 x 50 (20 x 20)		50 x 50 (20 x 20)	
- type	disposable		disposable		disposable		disposable		disposable	
Electrical - series	F	G	F	G	F	G	F	G	F	G
- volts/phase	120-240/1	240/1	120-240/1	240/1	120-240/1	240/1	120-240/1	240/1	120-240/1	240/1
- transformer VA	40	40	40	40	40	40	40	40	40	40
- Minimum Circuit Ampacity direct/belt drive	66.2/60	57.3	87.5/83.7	84.8	98.7/95	96.0	113.7/110	110.9	137.5	134.7
Total amperage direct/belt drive	48/45	42.3	70/67	67.3	79/76	76.3	91/88	88.2	110	107.2
- Maximum fuse/breaker amps	60	100	100	100	100	100	125	125	150	150
- Wire size 75°C. Cu AWG <sup>4</sup>	4	4	3	3	3	3	2	2	0	0
- Motor size @ 125 Pa (.5"WC)	1/4	1/4	1/4	1/4	1/4	1/4	1/3	1/3	1/3	1/3
- Heaters	2	2	3	3	4	4	4	4	5	5
- Blower motor voltage	120	230	120	230	120	230	120	230	120	230
Weight kg (lbs.)	59 (130)		59 (130)		59 (130)		59 (130)		59 (130)	

<sup>1</sup> "D" downflow models have the same specifications

<sup>2</sup> "DT" direct drive, two speed models are standard; single speed, belt driven and downflow models are available on request

<sup>3</sup> For 230 V multiply kW by .92

<sup>4</sup> 3 conductor wire (EF models) or 2 conductor wire (EG models)

## DIRECT DRIVE BLOWER PERFORMANCE

ESP Pa	Motor Speed	Air Delivery <sup>*</sup>				Motor Speed	ESP in. wc.
		L/S		CFM			
		10, 15 & 18 kW	20 & 25 kW	20 & 25 kW	10, 15 & 18 kW		
50	LO	236	365	775	500	LO MLO MHI HI	.20
	MLO	-	430	910	-		
	MHI	445	555	1180	940		
	HI	565	700	1485	1200		
75	LO	224	340	725	475	LO MLO MHI HI	.30
	MLO	-	420	890	-		
	MHI	425	520	1100	905		
	HI	540	685	1450	1140		
100	LO	212	330	695	450	LO MLO MHI HI	.40
	MLO	-	415	875	-		
	MHI	405	485	1025	855		
	HI	515	640	1355	1090		
125	LO	200	320	675	425	LO MLO MHI HI	.50
	MLO	-	400	845	-		
	MHI	385	475	1005	815		
	HI	490	615	1300	1040		

\* Performance data based on right side panel return air connections.

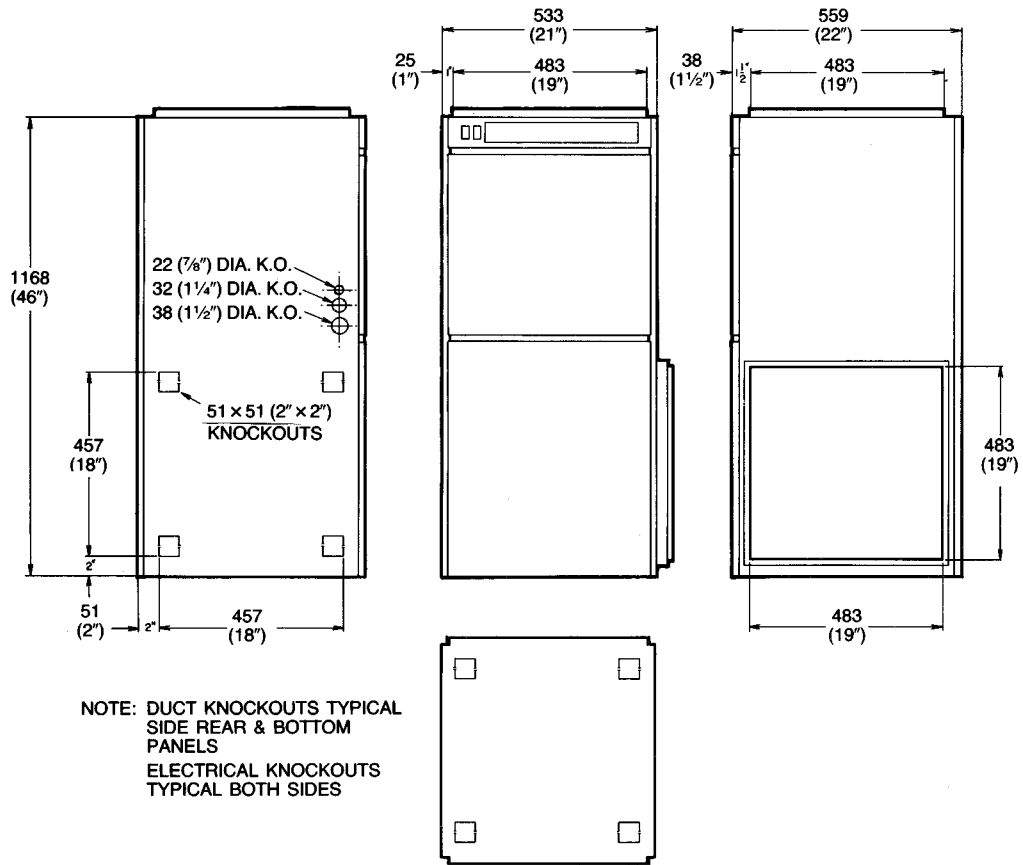
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

## MODEL NUMBER NOMENCLATURE

E	F	10	D	T	D
Electric Furnace F = 120 - 240/1 G = 240/1 10 kW capacity				D = downflow model nothing = horizontal or upflow model T = two (2) speed S = single (1) speed D = direct drive blower	

EF\_\_DT\_\_ models are standard. All other models are available on request

## DIMENSIONAL DATA



### Clearances to Combustibles

Cabinet .....	25 mm (1 in.)
Warm Air Duct [first 1.2 m (4 ft.)] .....	25 mm (1 in.)

## ACCESSORIES AND OPTIONS

Central Air Conditioning or Add-On Heat Pump systems may be added to this furnace. Follow the instructions supplied with this type of equipment for proper installation and connection to the electric furnace. Note that refrigerant and drain piping should not hinder removal of the furnace access panels.

An electronic air cleaner can be used in place of the filter supplied with the furnace to provide better air filtration. Choose the size which best matches the air cleaner size to furnace return air duct size and design air flow. Follow the electronic air cleaner manufacturer's installation instructions.

A central system power humidifier may also be installed with this heating system. Some homes require air humidification during the winter season. Follow the humidifier manufacturer's installation instructions.

### Optional Blower Relay For Air Conditioning or Heat Pump Addition:

Blower relay model #BR2: plug into socket supplied.

### Accessory For Downflow Models:

Subbase model #SB1: For mounting unit on combustible material flooring.

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