



THERMOLEC

ELECTRIC PLENUM HEATER

The Latest In Technology for

DUAL-ENERGY HEATING

**An Easy Conversion to Clean, Convenient
and Affordable Electric Heat**



Model TU Electric Heaters Offer

Lower air flow requirements

- 40 CFM per kW

Easy to baffle for various size plenums

- Baffles are included with heater

Automatic switching to fossil fuel backup

- Dual fuel control included

Built in circuit breaker for easy isolation

- Ensure additional safety for service contractor

Center coil baffle included

- Allows for easy installation over "A" coil

Modulating units available

- Ideal for heat pumps

Thermolec Plenum Heater Features

Center coil baffle

- Easy installation over A coil

High-grade nickel-chrome open coil elements

- Only 40 cfm per kW minimum air flow

Includes baffles that attach to coil frame

- Easier to baffle for larger plenums

Automatic and manual high-limit protection

- Prevents unit from overheating

Isolation and operating relays

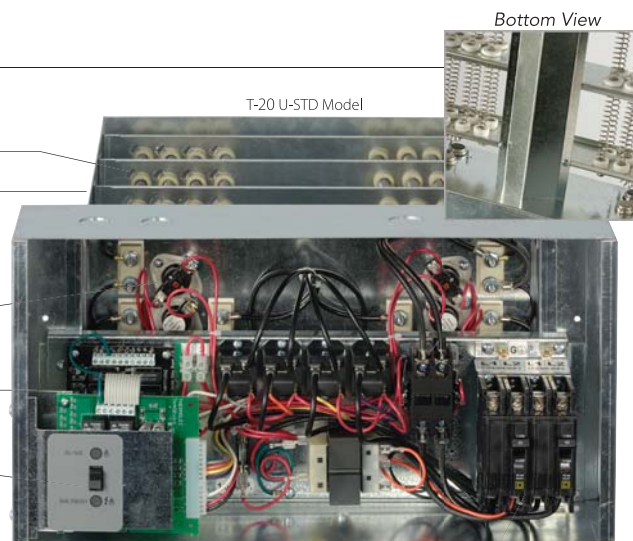
- A/C-ready, built-in interface control module

Built-in dual fuel control

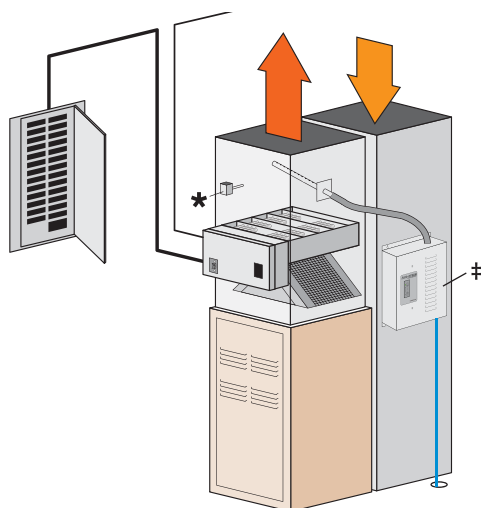
- Automatically switches to fossil fuel back-up with utility load control or can be switched manually

Circuit breakers included

- Provides safe electrical isolation for maintenance



Typical Installation



Applications

Standard Plenum Heater:

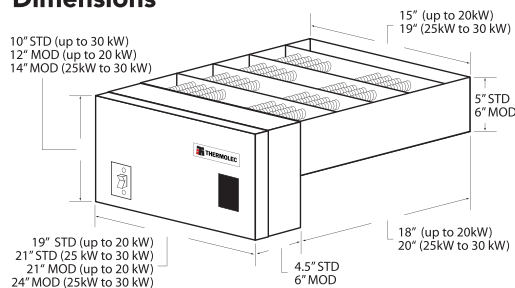
Fossil fuel furnace with or without A/C

Modulating Plenum Heater:

Fossil fuel furnace with heat pump or zoned system

For homes with 100 amp service panels, ask about our Retro models

Dimensions



Modulating Plenum Heater - Additional Features

* Plenum-mounted sensor and adjustable temperature setting on board

- Full modulation of elements to maintain plenum temperature – saves energy

All elements switched with solid state electronic relays

- Silent operation and long life

Built-in multi-purpose control module

- No additional interface or fossil fuel kit required



MODELS		KW @ 240V	BTU OUTPUT	HEATING SEQUENCES	TOTAL AMPERAGE	BREAKER (A)	
STANDARD	MODULATING					STD	MOD
T-5 U-STD	T-5 U-MOD	5	17,060	1	20.8	30	30
T-10 U-STD	T-10 U-MOD	10	34,120	2	41.6	60	60
T-15 U-STD	T-15 U-MOD	15	51,180	4 STD / 3 MOD	62.5	2 x 40	1 x 60 1 x 30
T-18 U-STD	T-18 U-MOD	18	61,416	4	75.0	2 x 50	2 x 50
T-20 U-STD	T-20 U-MOD	20	68,240	4	83.3	2 x 60	2 x 60
T-25 U-STD**	T-25 U-MOD**	25	85,300	4 STD / 5 MOD	104.0	3 x 50	2 x 60 1 x 30
T-30 U-STD**	T-30 U-MOD**	30	102,360	4 STD / 5 MOD	124.0	3 x 60	2 x 60 1 x 40

** Larger frame size required for 25/30 kW

‡ For optimum comfort, THERMOLEC recommends Acu-Steam Humidifiers.

Distributed By:



2060 Lucien-Thimens
Montreal, Quebec, Canada
H4R 1L1

Tel.: 514-336-9130 Fax.: 514-336-3270

Web Site: www.thermolec.com

PLENUM HEATER



**New
Design**

- *For conversions to Electricity or Dual-Energy*
- *Designed to fit over Heat Pump/Air Conditioner Coil*
- *Available capacities from 5 to 30 KW*

www.thermolec.com

THERMOLEC

THERMOLEC Plenum Heater Features

QUALITY

Thermolec Plenum Heaters are the result of several years of research and development and their components have been carefully selected to guarantee a product of highest quality, durability and performance. The heating elements have a 10 year limited warranty. Thermolec's constant attention to detail and quality control provide you with the most reliable plenum heater available.

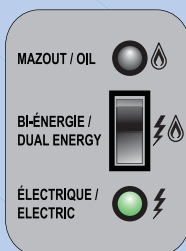
SAFETY

Automatic and manual-reset high temperature cut-outs prevent overheating caused by inadequate air flow. Magnetic relays provide instantaneous switching and an exceptionally long service life. The electronic controller allows either heating modes and a green pilot light confirms the selected mode.

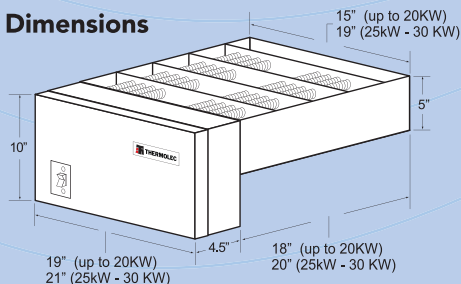
FLEXIBILITY

Three Position Selector Switch

This switch allows electric heating, fossil fuel heating or automatic selection according to the reading of the outdoor sensor or a signal from utility companies offering preferential dual energy rates.



Dimensions



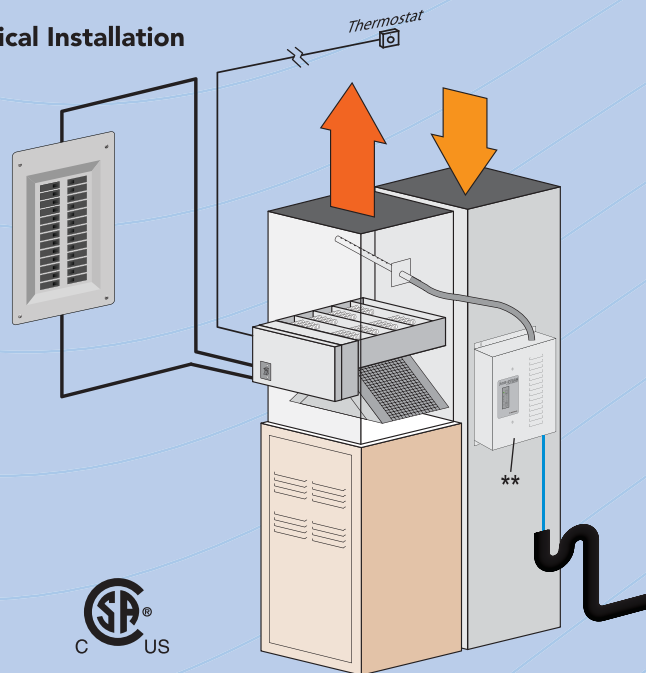
Designed to fit over 'A coil'

'RETRO'

Easy and cost effective way to add electric heat to fossil fuel furnaces with or without air conditioning.

Can be safely installed with most 100 amp service entrances* thanks to a Current Sensor which monitors the use of a large electrical appliance such as a water heater or dryer. If the appliance is in use the plenum heater is automatically put into standby mode as long as the appliance is in use. If heat is required and the plenum heater is in standby or if it cannot satisfy the heating demand, it will automatically switch to the fossil fuel furnace for auxiliary heat.

Typical Installation



Optional Relay Kit for A/C



'RETRO' model includes current sensor which may be installed in panel*

Model	KW @ 240V	Heating Sequences	Current (Amps)			Wire gauge AWG
			Plenum Heater	Fuses	Breaker	
T-5	5	1	20.8	30	30	10
T-10	10	2	41.7	60	60	8
T-10 Retro	10	2	41.7	60	60	8
T-15	15	3	62.5	80	100	4
T-18	18	4	75.0	100	100	3
T-20	20	4	83.3	110	125	3
T-25	25	4	104.0	150	150	1
T-30	30	4	124.0	175	175	0

Modulating models are available for maximum efficiency with heat pumps.

Distributed By:

* Check with local codes before installing.

** For optimum comfort, THERMOLEC recommends Acu-Steam Humidifiers.



THERMOLEC

2060 Lucien-Thimens, Montreal, Quebec, Canada H4R 1L1
Tel.: 514-336-9130 Fax: 514-336-3270 www.thermolec.com