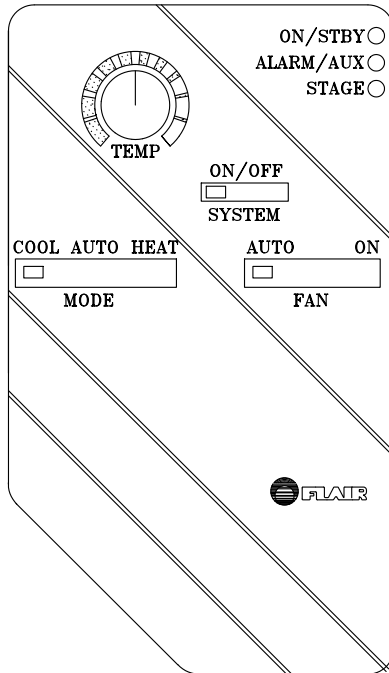


ELECTRONIC HEAT PUMP

THERMOSTAT *series TE31*

For central (main) or zoned control of heating and cooling heat pump systems.



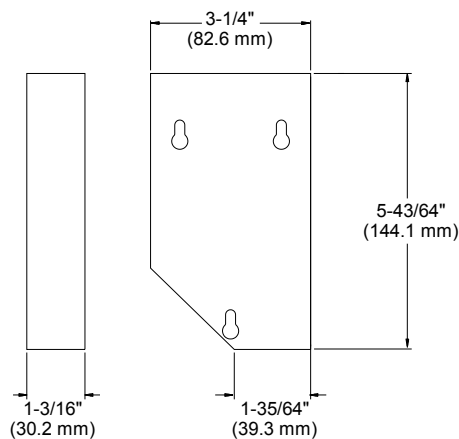
BENEFITS & SPECIAL FEATURES

- 4 minute time delay for compressor protection.
- No batteries required.
- Remote temperature sensor (optional).
- Return air temperature sensor (optional).
- Automatic heating/cooling changeover.
- Manual on/off override.
- Electronic temperature limiting and locking.
- Low and high limit temperature alarms can activate a dry contact to switch an external control.
- Continuous (on) or intermittent (auto) fan control.
- System status indicators.
- Available in up to 3 stages of heating, 2 stages of cooling heat pump control.

APPLICATIONS

- Central (main) heating or cooling.
- Zone heating or cooling.
- Residential (Single or multi-family, Apartments, Condominiums, Co-ops).
- Commercial (Stores, Restaurants, Offices).
- Industrial
- Institutional (Hospitals, Hotels, Motels).

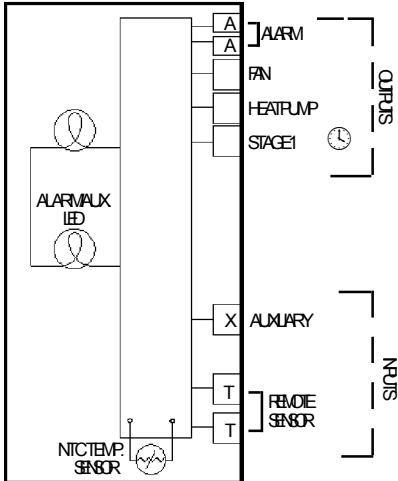
DIMENSIONS



SPECIFICATIONS

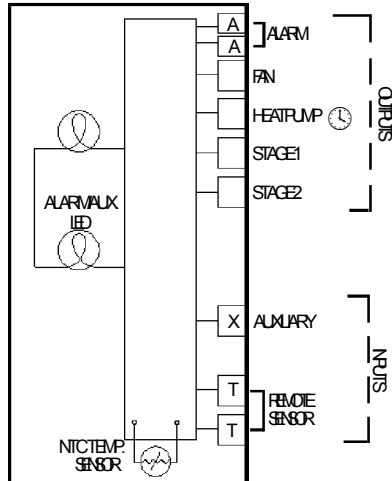
Operating Voltage:	24 vac (-15%, +10%, 50-60 Hz)
Temperature Range:	50°F - 90°F (10°C - 32°C)
Temperature Differential:	
Heating:	approximately ±0.8°F (.4°C)
Cooling:	approximately ±0.8°F (.4°C)
Between stages:	2° F (1.1° C)
Dead Band:	4°F (2.2° C)
Sensor System:	Negative Temperature Coefficient (NTC)
Standard:	internal
Optional:	remote temperature
Optional:	return air temperature
Compressor Protection:	4 minute time delay
Switches:	
Slide:	SYSTEM: ON/OFF
Slide:	FAN: AUTO/ON
Slide:	MODE: COOL/AUTO/HEAT
Rotating:	Set TEMPERATURE
Indicator LED's:	ON (Steady Green) / STBY (Flashing Green)
	ALARM (Flashing Red) / AUX (Steady Red)
Staging (orange):	Stage One (Off); Stage Two (On); Stage Three (Flashing)
Security:	Electronic temperature limiting and locking
Dimensions:	5 ⁴³ / ₆₄ x 3 ¹ / ₄ x 1 ³ / ₁₆ Inches (144.1 x 82.6 x 30.2 mm)

MODEL NUMBERS AND DESCRIPTIONS FOR VARIOUS APPLICATIONS



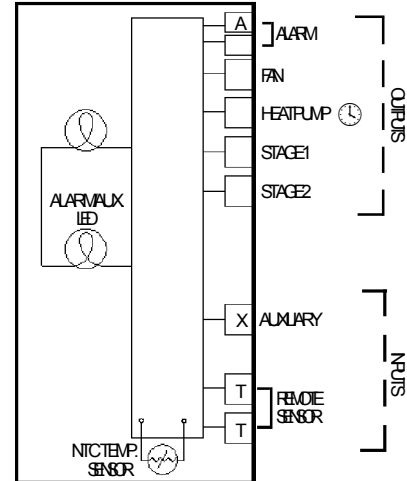
Model Number: TE311120
Description: 1 stage heat, 1 stage cool

Switching Current at 24 VAC:
Heat Pump: 1 Amp
Stage 1: 1 Amp
Fan: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: .4 lbs. (880 g)



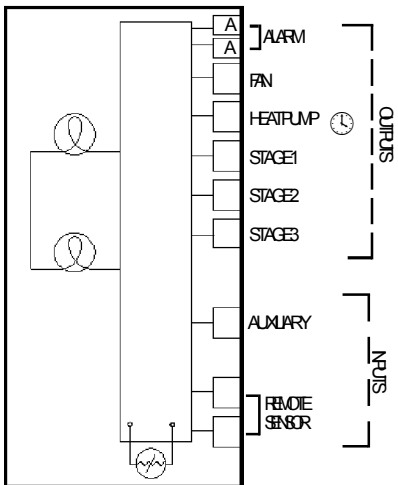
Model Number: TE312120
Description: 2 stage heat, 1 stage cool

Switching Current at 24 VAC:
Heat Pump: 1 Amp
Stage 1: 1 Amp
Stage 2: 1 Amp
Fan: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: .4 lbs. (880 g)



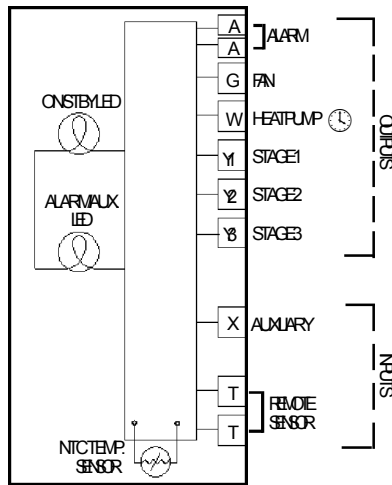
Model Number: TE312220
Description: 2 stage heat, 2 stage cool

Switching Current at 24 VAC:
Heat Pump: 1 Amp
Stage 1: 1 Amp
Stage 2: 1 Amp
Stage 3: 1 Amp
Fan: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: .4 lbs. (880 g)



Model Number: TE313120
Description: 3 stage heat, 1 stage cool

Switching Current at 24 VAC:
Heat Pump: 1 Amp
Stage 1: 1 Amp
Stage 2: 1 Amp
Stage 3: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: .4 lbs. (880 g)



Model Number: TE313220
Description: 3 stage heat, 2 stage cool

Switching Current at 24 VAC:
Heat Pump: 1 Amp
Stage 1: 1 Amp
Stage 2: 1 Amp
Stage 3: 1 Amp
Fan: 1 Amp
Alarm: 1 Amp
Auxiliary: 1 Amp
Weight: .4 lbs. (880 g)

ACCESSORIES

Remote Temperature Sensor	TX101001
Return Air Temperature Sensor	TX101011

REFERENCES

For More Information On:	See:
Remote Model	TF31 data sheet
Wiring, jumper, potentiometer settings and applications	Instruction sheet
Other thermostats	This section
Zone Actuators	Star Actuator section
Zone Valves	Star Valve section
Wiring Panels	Control Panels section
Warranty & pricing	Pricing & Terms section
Backplates	Accessories sheet

Indicates this output is protected by a 4 minute time delay.



Flair pursues a policy of constant improvement. For this reason, all specifications are subject to change without notice.

FLAIR

FLAIR INTERNATIONAL CORPORATION

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