

# Overview

Immersion-type controllers that combine high limit protection with switching relay control of burner and circulator motors.

## Features

- High limit opens burner circuit only.
- Select models include transformer and accessory terminals for adding a remote low limit controller.
- Case available for horizontal or vertical mounting.
- Requires a 24 Vac thermostat with heat anticipator set at 0.2A.
- TRADELINE models include well adapter, tube of heat conductive compound and range stops..

## Product Specifications

### Hazmat Information

UN1294 Toluene

### Application

High Limit

### Dimensions (in.)

6 1/8 in. high x 4 5/16 in. wide x 3 1/8 in. deep

### Dimensions (mm)

156 mm high x 110 mm wide x 79 mm deep

### Maximum Safe Operating Pressure (psi)

Immersion Well: 255 psi

### Maximum Safe Operating Pressure (kPa)

Immersion Well: 1757 kPa

### Temperature Range (F)

Maximum--150 F with 1.2 A 24 V load; 77 F with 1.4 A 24 V load

### Temperature Range (C)

Maximum--66 C with 1.2 A 24 V load; 25 C with 1.4 A 24 V load

### Includes

Molex® plug for use with vent damper, includes heat-conductive compound.; Molex(r) plug for use with vent damper, includes heat-conductive compound.

### Mounting

Vertical Mount

### Electrical Ratings

Low Voltage: 0.8 A max. @ 24 Vac; 0.25 A @ 0.25 to 12 Vdc; At Locked Rotor-- 44.4A @ 120 Vac: 22.2A @ 240 Vac

### Frequency

60 Hz

### Approvals, Underwriters Laboratories Inc.

UL Listed: File No. MP466, Vol. 13, Sec. 2, Guide No. MBPR2.

### Approvals, Canadian Standards Association

Certified: File No. LR95329-1

### Tradeline Value

Tradeline

Electrical Connections

Quick-Connect / Screw

Operating Humidity Range (% RH)

0 to 95% RH, non-condensing

Voltage

120 Vac

Operating Temperature Range (F)

High Limit-- 180 F to 240 F

Operating Temperature Range (C)

High Limit-- 82 C to 116 C

Differential Temperature (F)

15 F fixed

Switching Action

SPST: High Limit & Circulator

Anticipator Setting

0.2 A

Capillary Length (in.)

4 1/2 in.

Insulation Depth (in.)

1 1/2 in. to 3 in. less well

Insulation Depth (mm)

38 mm to 76 mm less well

Capillary Length (mm)

114 mm

Electrical Ratings, Burner

At Full Load-- Low Voltage: 0.8 A max. @ 24 Vac: Line Voltage: 7.4 A @ 120 Vac: 3.7 A @ 240 Vac; At Locked Rotor-- Line Voltage: 44.4 A @ 120 Vac: 22.7 A @ 240 Vac; Millivolt--0.25 A @ 1/4 to 12 Vdc

Electrical Ratings, Circulator

At Full Load-- 7.4 A @ 120 Vac: 3.7 A @ 240 Vac; At Locked Rotor-- 44.4 A @ 120 Vac: 22.2 A @ 240 Vac