

tekmar® Submittal

Mixing Expansion Module 440



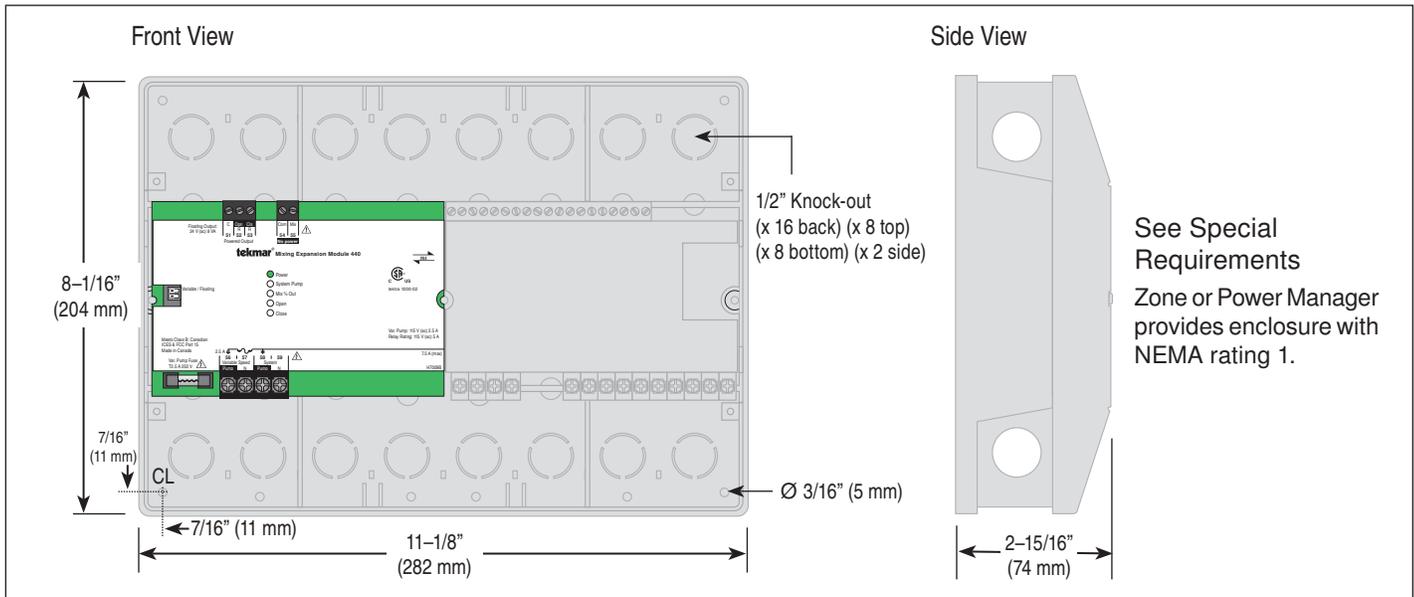
C 440

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HVAC Systems Replaces: New

Job _____ Designer _____ Contact _____

The Mixing Expansion Module 440 is designed to operate a mixing device within a hydronic heating system as part of a tekmarNet® control system. It is capable of controlling a mixed system pump and a 24 V floating action mixing valve or a wet rotor circulator in variable speed for injection.



Specifications

Mixing Expansion Module 440 Variable Speed / Floating Action	
Literature	D440, W440, J440, D070
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	1.2 lb. (540 g)
Dimensions	3-5/8" H x 5-3/8" W x 9/16" D (92 x 137 x 14 mm)
Approvals	CSA C US, meets Class B: ICES & FCC Part 15
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C), RH ≤80% to 88°F (31°C), down to 50% above 104°F (40°C), Altitude <6560 ft. (2000 m), Installation Category II, Pollution Degree 2
Power supply	Provided by interconnected Zone Manager
System P1 pump relay	115 V (ac) 5 A
Variable speed pump	115 V (ac) 2.5 A
Combined load	7.5 A max (System and Variable Speed Pump)
Floating action output	24 V (ac) 8 VA max
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
-Included	Universal Sensor 082
Warranty	Limited 3 Year (See D440 for full warranty)

Features

- tekmarNet® 4 compatible
- Powered variable speed output
- Powered 24 V (ac) floating action output
- Powered system pump
- CSA C US certified for use in USA and Canada

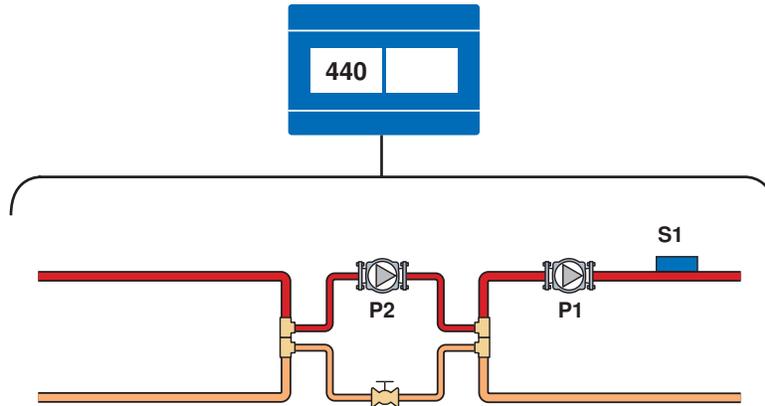
SPECIAL REQUIREMENTS

Enclosure not included! Must be installed with a tekmarNet® Zone Manager or Power Manager for mounting and power. Requires tekmarNet® system control (422 or 423). Designed for use with tekmarNet® thermostats.

Sample Application Drawing

Below is a sample application drawing for this product. This application may include other tekmar products that are required for installation. More sample applications can be found at www.tekmarcontrols.com.

Sample Mechanical diagram



Sample Electrical diagram

Legend

- P1 = Mix System Pump**
- P2 = Variable Speed Injection Pump**
- S1 = Mix Supply Sensor**

