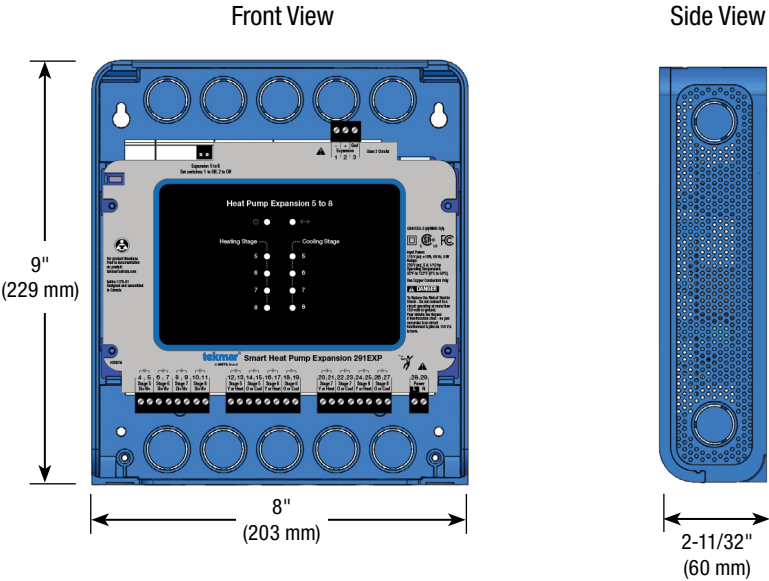


Submittal

Job _____ Designer _____ Contact _____

Smart Heat Pump Expansion 291EXP

The Smart Heat Pump Expansion 291EXP expands the Smart Heat Pump Control 291 in groups of four heat pumps up to a maximum of sixteen heat pumps. The 291EXP connects to the Smart Heat Pump Control 291 through a three-wire communication cable.



Features

- Expansion for 4 heat pumps
- LED status indicators
- 3-wire communication

Specifications

Smart Heat Pump Expansion 291EXP

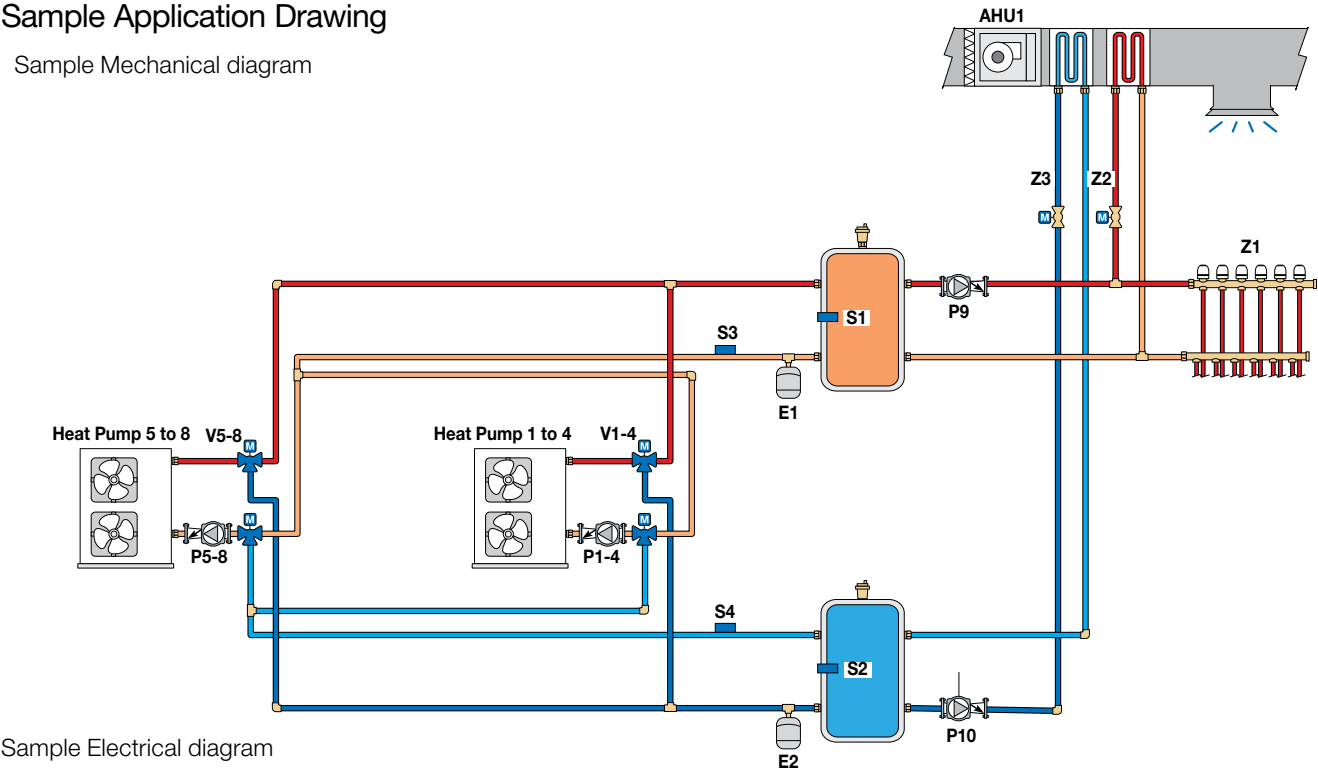
Call customer support if you need assistance with technical details.

Literature	IOM-T-291EXP, ES-T-291EXP
Packaged weight	2.4 lbs (1.10 kg)
Dimensions	9" H x 8" W x 211/16" D (229 x 203 x 60 mm)
Enclosure	Blue ABS plastic, NEMA type 1
Approvals	CSA C US, FCC Part 15B, CAN ICES-3 (B)/NMB-3(B)
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C), < 90% RH non-condensing, Installation Category II, Pollution Degree 2
Power supply	115 V (ac) ±10%, 60 Hz, 6 W
Staging Relays	230 V (ac), 5 A, 1/10 hp
Calls	24 V (ac) or Short
Warranty	Limited 3 Year (See IOM for full warranty)

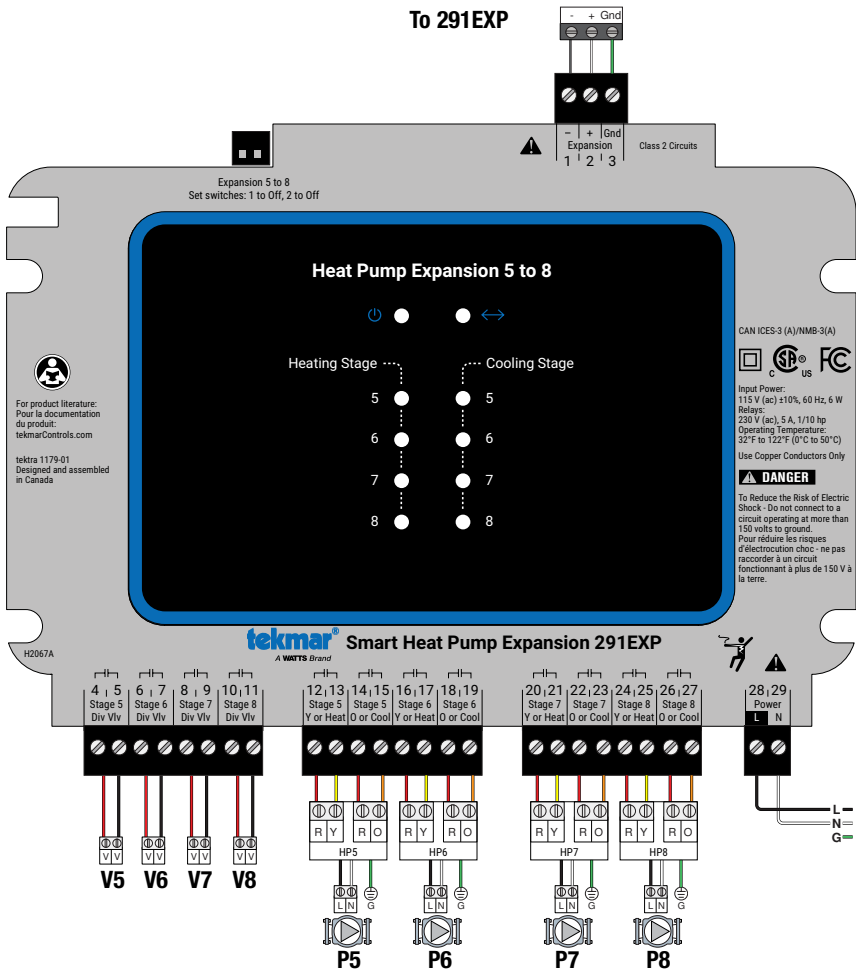
tekmar product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact tekmar Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on tekmar products previously or subsequently sold.

Sample Application Drawing

Sample Mechanical diagram



Sample Electrical diagram



LEGEND

- AHU1 = Air Handling Unit 1
- HP1-HP8 = Heat Pumps 1-8
- V1-V8 = 6-Way Diverting Valve Panel 731 or 732
- P2-P3 = Heat Pump Pumps 2-3
- E1-E2 = Expansion Tanks
- P1-4 = Heat Pumps 1-4 Pumps
- P5-8 = Heat Pumps 5-8 Pumps
- P9 = Hot Loop Pump
- P10 = Cold Loop Pump
- S1 = Hot Tank Sensor 082
- S2 = Cold Tank Sensor 082
- S3 = Hot Tank Return Sensor 082
- S4 = Cold Tank Return Sensor 082
- Z1 = Radiant Heating Zone Manifold
- Z2 = Air Heating Zone Valve
- Z3 = Air Cooling Zone Valve
- T1 = Optional Thermostat Heating Call
- T2 = Optional Thermostat Cooling Call
- tN4-1 = Optional tekmarNet(R) Call

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.



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