**D-VAC** Commercial Corp.
HVAC Manufacturer's Representative

AIR **ZOE** ™

AZPL-CHL-M
Chiller Control Panel

The **AZPL-CHL-M** effectively controls ALL components of a light commercial chiller system. Whether it be multiple chiller stages, pumps and their variable frequency drives, pump status and sensors, it all connects to a single controller! Everything connects to a single controller and every input and output is preset out of the box, allowing true plug-and-play operation. The AZPL-CHLXX controller is capable of managing both Air Cooled Chillers or Water Cooled Chillers. No matter the type of chilled water installation in your building, this versatile controller can easily adapt to the most common installations, each configuration type with their own set of specific sequences, interlocks and safeties.
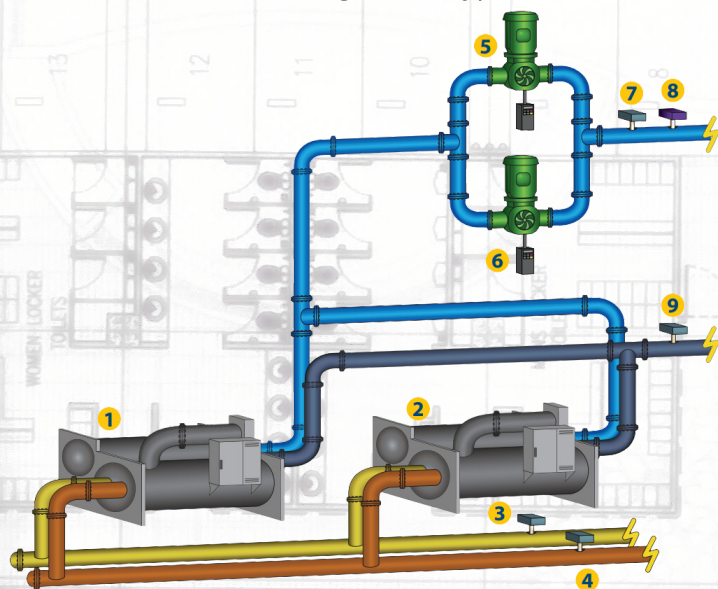
Controlled /Monitor with a AZPL-CHL-M

1. Chiller #1
2. Chiller #2
3. Entering Condenser Water Temperature Sensor
4. Leaving Condenser Water Temperature Sensor
5. Pumps
6. Variable Frequency Drive for pumps
7. Chilled Water Supply Temperature Sensor
8. Pressure transmitter
9. Chiller Water Return Temperature Sensor

Features:

• Pump activity based on outside temperature and/or schedule
• Configurable pump exercise sequence for extended periods of inactivity
• Supply water setpoint reset based on outside temperature, return temperature or demand • Control up to 4 chiller stages
• Various lead-lag sequences for the pumps and chillers
• Chiller lockout or stage down based on entering or leaving condenser water temperature limits • Can modulate a VFD for each pump to maintain a fixed water pressure setpoint
• Internal clock with configurable schedules and calendars
• A manual/off/auto switch for each of the eight outputs
• Remote monitoring and configuration options
• Standalone or networked (up to 127 nodes) • 5 digital outputs and 3 analog outputs equipped with resettable fuses
• Built-in protection sequences with configurable temperature limits and minimum delays
• Dedicated input that can deactivate the pumps upon contact closure

Technical Specifications:

• Supply: 24 VAC ±10%, 50/60 Hz, Class 2
• Power: 5 VA (consumption), 40 VA (input)
• Inputs: 9 analog inputs (outside temp / supply water temp / return water temp / dry contacts for proof of pumps, entering condenser water temp, leaving condenser water temp, water pressure and alarm).
• Analog Outputs: 3 x 0-10 VDC outputs, 40 mA max (resettable fuse)
• Indication lights (LED): State of each output / Communication / Power / State of microprocessor
• Microprocessor: PIC18F6722, 8 bits, 40 MHz, 128Ko FLASH memory
• Communication: Modbus RTU (RS485), up to 127 nodes. Baud Rates: 9600, 19200, 38400, 57600, 76800, 115200
• Connection: Removable screw-type terminal blocks (16 AWG max) and RJ45 modular jacks.
• Environment: -4 to 122 °F (-20 to 50 °C) Non-Condensing
• Certification: UL916 Energy Management Equipment, CAN/CSA-C22.2, RoHS, FCC part 15: 2012 class B