



HPM1

Controller



**Web-based building
management made easy**

HPM1 CONTROLLER

| Feature | Benefit |
|---|---|
| Multiple Output Configuration: Two Stage: (4 or 2 pipe systems with 2 tanks) or Three Stage: (2 pipe with 1 tank) or Modulated Heat Pump | Configurable system allows for complete system application flexibility. |
| Associates with GHP controller | Efficiently allows delivery of ground temperature liquid to system. |
| Associates with DXU, FCU, and BZU series controllers. | Integrates with up to 32 HVAC controllers of diverse types of cooling and heating controllers for additional flexibility. |
| Reversing valve control | Automatically positions the reversing valve to switch from heating to cooling positions based on space temperature demand. |
| Heat/Cool changeover | Automatically changes between heating and cooling when demand for current mode is satisfied. |
| Energy monitoring capability | Monitors power consumption and provides watt hours of energy to the GHP which in turn calculates efficiency and COP of the heat pump. |
| Supplementary Heating Mode | Allows the HPM to control an electric or fossil fuel boiler in addition to heat pump stages. This allows the system to operate continuously during times of extreme cold. |
| Emergency Heating Mode with Automatic Recovery | Prevents Heat Pump operation at times when the Ground Loop Freezes. Tank Temperature is still maintained by Electric or Fossil Fuel Boiler. Ground Loop temperature is checked periodically to resume normal operation without user intervention. |

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| Feature | Benefit |
|---|---|
| Outdoor Air Temperature Mode Override | Prevents HPM heating operation during hot weather, cooling operation during cold weather. |
| Outdoor Air Temperature Tank Setpoint Reset Curve | Allows the HPM to compensate for extreme outdoor temperature by maintaining higher or lower water temperatures. Also allows the HPM save energy by maintain more moderate tank temperatures during comfortable weather. |
| High Pressure, Low Pressure and Plant Synchronization Alarms | Prevents potentially costly damage to capital equipment damage during emergencies |
| Accessible network inputs | Allows Supervisor to overwrite physical outputs |
| Data Logging | <p>Provides runtime accumulations for the heating, cooling equipment.</p> <p>Allows service schedules to be based on actual runtime operation.</p> <p>Extends equipment life and eliminates needless service</p> |
| Automatic Configuration | <p>One touch commissioning automatically places controller on the network.</p> <p>Ensures that controller has been properly installed and wired correctly.</p> |
| Commissioning Mode | Facilitates troubleshooting and saves valuable service time and labor expense. |
| Networks to higher level devices | Flow and energy data can be downloaded in xml format compatible with a number of analytical and reporting tools. |



Visit **www.taco-hvac.com** for more information about the iWorx® product line.

iWorx®
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