

iWorx[®]
by Taco Electronic Solutions

LHP2

Controller



**Web-based building
management made easy**

LHP2 CONTROLLER

Feature	Benefit
<p>Powerful supervisory central liquid source heat pump central control. Handles one cooling tower and one or two single stage boilers.</p>	<p>Provides integrated control of a central plant with all inputs and outputs on one universal control module.</p> <p>Simplifies installations and assures proper loop temperature under all operating conditions for both heat addition and heat subtraction to the loop.</p>
<p>Multiple pump outputs</p>	<p>Water pumps can be configured for lead/lag or continuous operation.</p> <p>Provides application flexibility and loop flow under all conditions.</p>
<p>Multiple analog and digital inputs</p>	<p>Allows monitoring of boiler supply and cooling tower return temperatures as well as heat pump supply and return water temperatures.</p> <p>Digital inputs monitor pump, fan and boiler flow proof as well as tower basin levels.</p> <p>Provides full system diagnostics for maximum system performance, easy troubleshooting and longer equipment life.</p>
<p>Multiple digital and analog outputs</p>	<p>Provides integrated control of boilers, circulation pumps, tower spray pump, tower fan, tower damper and tower sump/make-up water valve.</p> <p>Analog outputs can control a tower bypass valve and a variable speed tower fan.</p> <p>Reduces complexity of control operations by integrating all functions.</p>
<p>System data and historical data logging</p>	<p>Provides runtime accumulation for boilers, pumps, and tower fans.</p> <p>Allows service schedules to be based on actual run time operation.</p> <p>Extends equipment life and eliminates needless service calls.</p>

LHP2 CONTROLLER

Feature	Benefit
<p>Minimum on/off cycle timers for pumps and boilers</p>	<p>Eliminates short cycling and extends equipment life.</p>
<p>Handles up to 60 zones of heating/cooling demand</p>	<p>Integrates seamlessly with HPU2 controller for precise space temperature control.</p> <p>Provides accurate loop temperature supply to multiple water source heat pump units.</p> <p>Building can be in heating and cooling modes simultaneously when integrated with HPU2 controller.</p>
<p>Provides lead/lag operation of both circulation pumps and boilers</p>	<p>Automatically provides lead/lag operation of pumps and boilers to assure equal run time, and ensure that flow and boiler operation are provided if a pump or boiler should fail.</p> <p>Provides occupant comfort under all conditions and prolongs equipment life.</p>
<p>Proportional and integral algorithms to control modulated bypass valve and variable speed tower fan</p>	<p>Provides accurate control of loop supply temperatures and cooling tower operation.</p>
<p>Cooling tower consists of 3 stages of cooling with built in outside air temp tower low limit setpoint</p>	<p>The dampers, Spray pump and tower fan cycle in sequence to maintain loop water temperature.</p> <p>All temperatures are adjustable. Provides energy efficient operation of a cooling tower.</p> <p>Lowers energy costs and improves system comfort levels.</p>



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

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