NXW SERIES

Envision™ NXW Reversible Chiller is an excellent choice to provide water heating and cooling for a wide range of applications. Whether it’s used for radiant floor heating, chilled water applications, industrial process water, or to provide precisely heated or cooled water for fan coils, the Envision™ NXW is designed to perform to the highest standards in the industry.

With a wide range of capacity in a compact cabinet, these units will fit through most doors and feature external fork truck lifting points for ease of installation. All NXW’s feature independent dual refrigeration circuits with high efficiency scroll compressors. The unit’s brazed plate heat exchangers are constructed with 316 stainless steel for long life. Environmentally responsible R-410A refrigerant is used. The Envision™ NXW is controlled using HydroLink Aurora Controls either standalone or in conjunction with Building Automation Systems with BACnet or LonWorks protocols. The HydroLink Supervisory Controls are also available to consolidate all mechanical room chillers and hydronic components under one controller for a turn-key solution.

Efficient and precise water heating and cooling for any commercial application.

KEY FEATURES

Control
• All unit functions controlled by HydroLink Aurora Controls
• Optional communications with BACnet or LonWorks
• User interface to aid in unit setup and diagnostics
• Optional temperature setpoint control software to control leaving load temperature

Flexibility
• Heated and chilled water from the same machine
• Modularized design for optimum capacity matching and staging
• Compact size allows passage through most doors
• Used for tempering of air, process heating and cooling operations
• Wide range of applications and operating conditions

Plumbing
• Suction and discharge vibration absorbers to dampen compressor vibration
• Field-installed piping accessories available

Performance
• Several model sizes available to cover a broad range from 10 to 50 tons
• Efficiency up to 16 EER at water loop cooling conditions

Enclosure
• Heavy-duty removable hinged access doors with latches for ease of service
• Heavy-duty 10 gauge steel frame doors with 16 gauge reinforced steel access panels
• Forklift cutouts in base of frame accessible without removing an access panel
• Optional factory-installed pressure gauges aid service and diagnostics without removing a panel

Electrical
• Factory-installed electrical disconnects are standard with an option for fused electrical disconnect
• Large control panel with serviceability in mind
• Factory-installed Class J fuses for short circuit current rating (SCCR) up to 100 kA
• Phase guard

Quality
• Oversized copper-brazed 316 stainless steel heat exchangers for high efficiency and low water side pressure drop
• Durable hermetically sealed scroll compressors
• Bidirectional stainless steel thermostatic expansion valves
• Bidirectional liquid line filter driers to maximum system cleanliness
• Environmentally friendly R-410A
NXW SERIES 10 to 50 Ton

1. Heavy gauge insulated sheet metal cabinet to reduce noise
2. Factory-installed fused or non-fused disconnect to isolate electrical supply
3. Internal class J/CC fusing for protection of electrical components
4. Field-proven Aurora compressor management communicates with the HydroLink NiagaraAX-based system level controller to manage setpoint, control, and staging. The 10-inch color touchscreen HMI tablet display then communicates over 200 points to the BAS network via BACnet, LonWorks, or through the NiagaraAX bus
5. Digital refrigerant pressure and temperature monitoring is standard
6. Stainless steel bi-directional TXV for precise superheat control
7. Dual scroll compressors for efficiency and reliability
8. High efficiency brazed plate heat exchangers for efficiency and compact size
9. Fully insulated heat exchanger, refrigerant piping, and water lines to prevent condensation at reduced fluid operating temperatures
10. Heavy gauge steel welded frame to reduce vibration
11. Compact cabinet design for application flexibility
12. Vibration absorbers and isolation loops to mitigate refrigerant leaks due to vibration
13. Fork truck pockets for maneuverability

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
<tr>
<td>120-180</td>
<td>57.3&quot;</td>
<td>24.1&quot;</td>
<td>42.5&quot;</td>
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<tr>
<td>240-360</td>
<td>64.2&quot;</td>
<td>24.1&quot;</td>
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<td>600</td>
<td>71.1&quot;</td>
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HydroLink Aurora Controls

HydroLink Aurora Controls accurately control fluid temperatures while providing technical system information in a simple, readable format via a large 10-inch color touchscreen tablet. The Aurora compressor management control system communicates using ModBus protocols and quickly passes detailed information from sensors to the HydroLink controller. The HydroLink controller is a powerful system controller that manages compressor staging and the HMI display while communicating over 200 points to the network via BACnet, LonWorks, or through the NiagaraAX bus. High-end graphic images are hosted on the HydroLink controller and displayed on the factory-mounted touchscreen tablet. Each chiller is equipped with a small WiFi router or a hardwire Ethernet connection that offers additional connectivity options without tapping into the BAS network.
<table>
<thead>
<tr>
<th>Voltage Availability</th>
<th>Model</th>
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<tbody>
<tr>
<td>Voltage</td>
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<tr>
<td>208-230/60/3</td>
<td>•</td>
</tr>
<tr>
<td>460/60/3</td>
<td>•</td>
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<tr>
<td>575/60/3</td>
<td>•</td>
</tr>
<tr>
<td>380/60/3</td>
<td>•</td>
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</tbody>
</table>

Legend:
- • = Not Available
- • = Voltage available in this size
- •• = Voltage and soft start available in this size