



# ENVISION<sup>2</sup>

NXW Series 10 to 50 Ton  
Water Source/Geothermal Reversible Chiller

## NXW SERIES

Envision<sup>2</sup> 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<sup>2</sup> 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 a standard doorway 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<sup>2</sup> NXW is controlled using HydroLink2 Aurora Controls either standalone or in conjunction with Building Automation Systems with BACnet or LonWorks protocols. The HydroLink2 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 HydroLink2 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 standard doorways
- 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

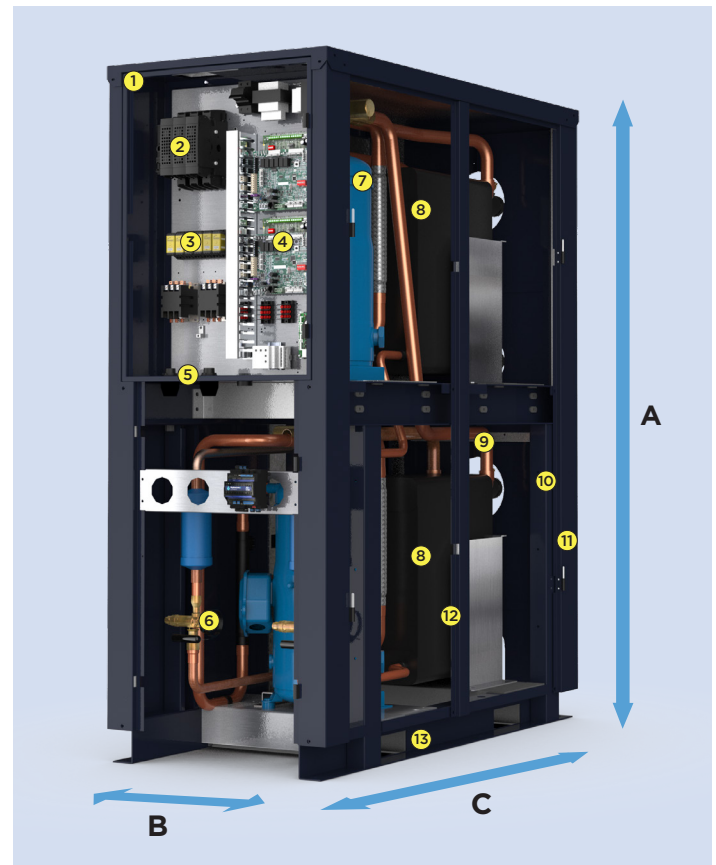
- Factory-installed electrical disconnects are standard with an option for fused electrical disconnect
- Large control panel with serviceability in mind
- Factory-installed Class J fuses for short circuit current rating (SCCR) up to 100 kA
- Phase guard

### 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

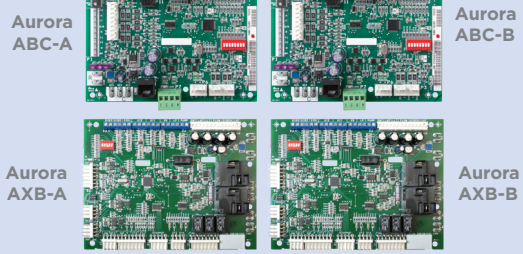
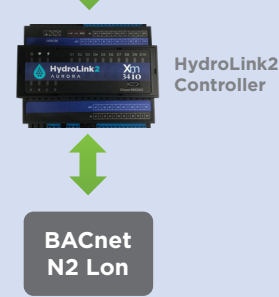
# NXW SERIES 10 to 50 Ton

- 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 HydroLink2 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



Model	A	B	C
120-180	57.3"	24.1"	42.5"
240-360	64.2"	24.1"	50.5"
600	71.1"	24.1"	58.5"

## Color Touchscreen Tablet



## HydroLink2 Aurora Controls

HydroLink2 Aurora Controls accurately control fluid temperatures while providing technical system information in a simple, readable format via a large color touchscreen tablet. The Aurora compressor management control system communicates using ModBus protocols and quickly passes detailed information from sensors to the HydroLink2 controller. The HydroLink2 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 HydroLink2 controller and displayed on the factory-mounted touchscreen tablet.

# AHRI/ISO 13256-2 PERFORMANCE RATINGS

English (IP) Units

Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling EST 86°F ELT 53.6°F		Heating EST 68°F ELT 104°F		Cooling EST 59°F ELT 53.6°F		Heating EST 50°F ELT 104°F		Cooling Full EST 77°F Part EST 68°F ELT 53.6°F		Heating Full EST 32°F Part ELT 41°F ELT 104°F	
		Sgpm	Lgpm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
120	Full	40	40	145,400	16.0	189,000	4.5	161,400	22.5	157,200	3.8	147,700	17.3	118,800	3.0
	Part	40	40	79,300	17.4	101,500	5.1	84,400	24.1	84,600	4.4	82,900	22.2	69,800	3.3
180	Full	60	60	201,300	15.9	263,700	4.6	225,100	21.5	217,000	3.9	208,300	17.2	173,400	3.2
	Part	60	60	105,500	17.0	138,700	5.0	177,700	23.0	112,600	4.2	115,400	20.5	100,900	3.5
240	Full	80	80	265,700	16.0	347,500	4.7	306,900	23.4	280,600	3.9	275,300	17.9	219,400	3.3
	Part	80	80	140,100	16.7	182,100	5.0	163,600	24.6	141,400	4.2	150,000	21.6	115,800	3.5
360	Full	120	120	394,700	16.0	487,600	4.3	452,300	22.1	420,300	4.0	410,200	17.5	339,300	3.3
	Part	120	120	206,000	16.9	256,000	4.6	241,100	23.2	214,400	4.3	223,200	21.2	183,500	3.7
600	Full	200	200	602,000	15.2	798,000	4.3	756,000	19.9	622,000	4.0	633,000	16.5	533,100	3.4
	Part	200	200	313,300	16.1	419,000	4.6	407,000	20.9	318,000	4.3	376,000	19.6	303,900	3.7

3/5/14

## Voltage Availability

Voltage	Model				
	120	180	240	360	600
208-230/60/3	•	•	•	•	•
460/60/3	••	••	••	•	•
575/60/3	•	•	•	•	•
380/60/3	••	■	■	•	•

1/30/14

Legend:

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

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