

HPX™ HEAT PUMP

HPX 3
HPX 5



This product meets a stringent set of our company's internally defined sustainability standards

HIGH-EFFICIENCY MONOBLOC HEAT PUMP

Backed by IBC's industry-leading hydronic technology, the HPX™ Air-to-Water Heat Pump is the perfect eco-friendly solution for year-round comfort without the need for fossil fuels. Catering to residential and light commercial applications, the HPX™ offers exceptional performance in a variety of climates. The first to be produced by a boiler manufacturer, HPX™ boasts a self-contained, refrigerant-based, monobloc unit that is easy to install and service without the need for refrigeration licenses.

Whisper quiet operation can be compared to the hum of a residential refrigerator.

The perfect decarb solution for year-round comfort with zero CO₂ emissions.

Refrigerant stays outside the home for easy installation with no refrigerant license required.



BUILT-IN FEATURES

- Up to 400% efficiency (COP up to 4)
 - Advanced temperature control capability varies output and ensures a consistent indoor temperature with less fluctuations
 - Outdoor reset functionality
- Enhanced Vapor Injection (EVI) design increases efficiency, lowers ambient temperature operating range to as low as -22°F/-30°C, and increases maximum supply water temperature
 - 38-53 dB operational sound level
- Uses energy from the air to heat and cool
 - Contractor-friendly monobloc design
 - 24V AC interface for easy thermostat connection
 - Increased reliability with few moving parts
 - Flow-proving and high limit safeties built-in

IBC®



SPECIFICATIONS

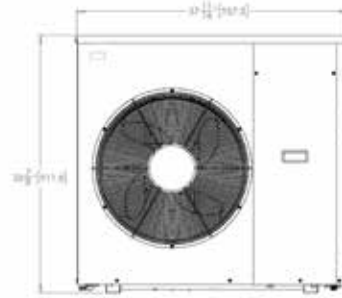
HPX 3 (3 Ton)

HPX 5 (5 Ton)

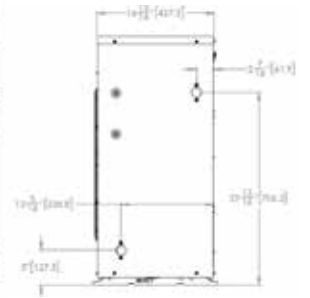
Rated Voltage / Frequency / Phase	208/230V 60Hz 1Ph	
Heating Capacity Range *	9.6 - 44.2 MBH	14.4 - 56.6 MBH
Heating Capacity Range *	2.8 - 12.9 kW	4.2 - 16.6 kW
Cooling Capacity Range **	15.5 - 34.5 MBH	21.4 - 47.6 MBH
Cooling Capacity Range **	4.55 - 10.1 kW	6.3 - 14.0 kW
Total Load (@240V)	20.3 A	26.6 A
Noise measured at 1 meter	38 - 52 dB (A)	42 - 53 dB (A)
Weight (empty)	220 lb / 100 kg	320 lb / 145 kg
Compressor Rating Load	19.5 A	25 A
Fan Motor Rating Load	0.8 A	2 x 0.8 A
Minimum Circuit Ampacity	25.2 A	33 A
Max Fuse Size	40 A	50 A
Rated Water Flow	6.6 gpm / 1.5 m ³ /h	7.5 gpm / 1.7 m ³ /h
Water Pressure Drop (Head Loss)	7 feet / 2.1 m	9 feet / 2.7 m
Maximum Outlet Water Temp. (electronic hi-limit)	140°F / 60°C	
Design Water Pressure	30 psig / 207 kPa	
Maximum Water Pressure	145 psig / 1,000 kPa	
Minimum Water Pressure	8 psig / 55 kPa	
Minimum Ambient Temperature	-22°F / -30°C	
Maximum Refrigerant Pressure (low side)	305 psig / 2.1 MPa	
Maximum Refrigerant Pressure (high side)	638 psig / 4.4 MPa	
Maximum Allowable Refrigerant Pressure	696 psig / 4.8 MPa	725 psig / 5.0 MPa
Refrigerant Type and Charge	R410a / 2.2 kg	R410a / 2.5 kg
Refrigerant Safety Group Classification	A1	
Moisture Resistance	IPX4	
Model Number	HPX 3, IHXXF1-003T	HPX 5, IHXXF1-005T
Part Number	016-101 A1	016-106 A1

*for conditions Ambient Temp = 45°F (7°C), Outlet Water Temp = 106°F (41°C)

**for conditions Ambient Temp = 95°F (35°C), Outlet Water Temp = 54°F (12°C)



HPX 3 - FRONT



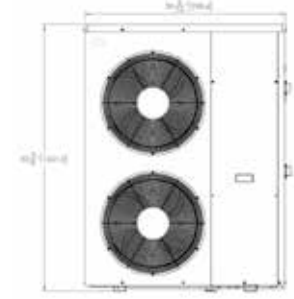
HPX 3 - SIDE



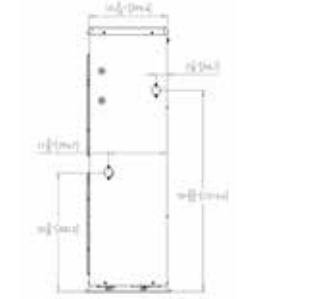
HPX 3 - TOP



HPX 5 - TOP



HPX 5 - FRONT



HPX 5 - SIDE

HEAT PUMP FLOW REQUIREMENT

	HPX 3	HPX 5
Rated Water Flow*	6.6 gpm (1.5 m ³ /h)	7.5 gpm (1.7 m ³ /h)
Water Pressure Drop (Head Loss)	7 ft. (2.1 m)	9 ft. (2.7 m)
Min. Heat Pump Flow Rate (Variable Speed Pump)	3.1 USgpm (0.7m ³ /h)	4.0 USgpm (0.9 m ³ /h)
Max. Heat Pump Flow Rate (Variable Speed Pump)	10.1 USgpm (2.3m ³ /h)	12.0 USgpm (2.7 m ³ /h)
Recommended Heat Pump Flow Rate	7.0 USgpm (1.6m ³ /h)	10.0 USgpm (2.3 m ³ /h)

* "Rated" indicated the flow rate at which the heat pump's heating output, pressure drop, and noise was measured.

PIPING CONNECTIONS

Description	HPX 3	HPX 5
Return Water Inlet	1" NPT-M	1 1/4" NPT-M
Supply Water Outlet	1" NPT-M	1 1/4" NPT-M
Supply Power Knock-Out	Dual 3/4" and 1"	
Control Wiring Knock-Out	1/2"	



Choosing this product instead of a minimum efficiency alternative offsets CO₂ emissions equivalent to planting this number of trees over the product's lifetime. The CO₂ Impact Score is internally calculated using a proprietary point system based on a typical product lifetime and does not denote a third party certification/seal. See website for further information.



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All information contained in this brochure is subject to change without notice. Due to clerical error, regulation change or product development please confirm all information with IBC.

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