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ICE AIR HI-SPEC WSHP Water Source Heat Pumps

Durability.
Performance.
Flexibility.
Price.

The Total
Package.



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PRODUCT SPECIFICATIONS: CONSOLE WATER SOURCE HEAT PUMP (WHSPS)

Superior performance, quality manufacturing and customer value makes ICE AIR's Water Source Heat Pump (WSHP) units the best choice for volume users including residential buildings, hotels/motels, medical facilities and more. With state-of-the-art technology, ICE AIR delivers the full complement of performance excellence. ICE AIR Console Water Source Heat Pump Units feature:

- Universal, left or right condensate removal and piping connections
- Slide out removable evaporator section for easy maintenance
- State-of-the-art digital controls
- High pressure safety switch
- Low pressure safety switch
- Reliable performance and ease of operation
- Energy efficiency
- Low cost, easy installation
- Customization options

Equipment Manufacture: Console Water Source Heat Pump Units (WSHP) are heavy duty, commercial grade cooling and heating units, manufactured by Ice Air, LLC. They are designed to provide many years of efficient, trouble free and user-friendly operation. Chassis casings and room enclosure are manufactured of heavy gauge steel. The units are designed and manufactured to operate on 115 volt or 208 / 230 volt, single phase, 60 hertz circuits.

Product Components: Chassis Room Enclosure Controls Aluminum Filter

Chassis: Self-contained, cooling and heating assembly consisting of sealed refrigerant system, evaporator section and coaxial heat exchanger sections with PSC motor and digital unit mounted controls (with optional wall mount controls). Chassis base pan to be powder coated inside and out to prevent corrosion of sheet metal pan.

Refrigeration System: Sealed refrigerant system employs R410A "GREEN" refrigerant compressed by a high efficiency rotary compressor and routed through a copper tube / aluminum fin evaporator and tube within a tube heat exchanger (condenser). Refrigerant flow is controlled by a metering device ensuring safe and consistent refrigerant flow across the full range of operating temperature and pressures. The system is factory charged and sealed with R410A refrigerant which complies with United States Green Building Council (USGBC) "LEED" guidelines.

Chassis Evaporator Section: To assure quiet comfort, the evaporator motor and blower wheel system is mounted on vibration isolators, eliminating noise and excess movement. For ease of service, this assembly is mounted on a slide-out, easily-removable motor board. Blower wheels are metal double-inlet, forward curved centrifugal type, directly driven by a three-speed PSC motor with built-in automatic reset overload protector. Powder coated, stamped metal drain pan with dual condensate drain hoses ensures full condensate drainage under all conditions. This design eliminates mold and bacteria build up that can compromise indoor air quality (IAQ).

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ICE AIR HI-SPEC WSHP Water Source Heat Pumps

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Freeze Protection: ICE AIR WSHP units have dual freeze protection, including a low pressure switch to monitor the refrigerant pressures in cooling mode and an integral low-temperature sensor which initializes the heat function when the room air temperature falls below 45 degrees fahrenheit.

Controls: ICE AIR WSHP units are controlled by a state-of-the-art electronic package that is comprised of a Control Pad and internal Power Control Board (PCB).

Control Pad: is situated on top of the chassis and is accessed through an aluminum door. The large LED display panel includes clearly marked, backlit control buttons. The Control Pad is a programmable, user friendly device that enables the user to program desired temperature settings and operational modes. Built in timer allows night set back programming. Automatic or manual settings allow the user to select temperatures that are either self monitoring or manually controlled in both heating and cooling modes.

Enclosure (Cabinet): Flat top or (optional Slope top) Room Enclosures are fabricated of furniture grade galvalume steel and finished with designer grade baked powder coating. Antique White or Arctic White finishes are standard. Optional custom finishes are available. Enclosure front cover is removable without the use of tools.

Aluminum Filter: Permanent washable aluminum mesh filter is supplied with each unit.

Warranty and Code Compliance: Unit to be guaranteed free of defects in material and workmanship for one year from date of delivery. An optional 2nd through 5th year compressor warranty is available, as are various warranty and service extension plans. All Ice Air WSHP Units are ETL listed for safety in the United States and Canada, and have the required New York City MEA approvals. All Ice Air units meet Federal Energy Efficiency requirements and are tested in accordance with current ARI standards.



ICE AIR HI-SPEC WATER SOURCE HEAT PUMP HPW SEPCIFICATIONS

Series Model	5HPW09	5HPW13	8HPW13	8HPW16	8HPW19
Cooling Capacity	9300	12400	12500	15400	17600
Cooling EER	13.2	13	13.5	14	14
Heating Capacity	11800	16300	16300	17500	22300
Heating EER	14.8	16	16	16	17
Voltage	115	115	208/230	208/230	208/230
Amperage	7.9	9.8	4.6	5.4	7
Watts	703	980	930	1100	1253
Water Flow GPM	2.4	3.5	3.5	3.8	4.5
CFM-Room AC Hi	287	400	400	460	500
CFM Room AC Med	246	350	350	350	450
CFM Room AC Low	190	210	270	270	380
CFM Room Heat Hi	315	445	445	510	560
CFM Room Heat Low	270	390	390	390	490
dB(a) In High Cool	44	46	46	45	49
Cabinet Height	21.5"	21.5"	21.5"	21.5"	21.5"
Cabinet Depth	11"	11"	11"	11"	11"
Cabinet Length	46"	46"	46"	54"	54"
Weight - Net/Ship	140	146	160	175	185



Due to ICE AIR's ongoing research and development programs, product specifications are subject to change without notice.

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