



SPXC Series

Cold Climate Single Packaged Heat Pumps

SPXC Series

Heat Pumps Beat the Cold

A perception persists that heat pumps can't hold up in extreme cold climates such as an Upper Midwest or New England winter. With the introduction of Ice Air's breakthrough cold climate technology, our line of SPXCs would allow for efficient heat pump operation on the coldest days.

Ice Air SPXC Series Cold Climate Single Packaged Heat Pumps (SPHPs) are efficient, sustainable, heat pumps designed for cold climate. Ice Air provides **the best of both worlds** – giving you the performance of a Variable Refrigerant Flow (VRF) system with the convenience of a packaged heat pump, while providing the benefits of a ducted system. SPHPs can be hidden in a closet or behind a wall and serve multiple spaces via concealed ductwork.

SPXC models include a variable speed compressor for optimal comfort. Heating performance is lab tested and certified down to -5°F, with a theoretical lower limit of -25°F for heating.



The SPXC Series complies with the NEEP Cold Climate Air Source Heat Pump (ccASHP) efficiency requirements. The Northeast Energy Efficiency Partnerships (NEEP) product listing identifies products best suited to electrify heating in cold climates.



The SPXC Series produce superior energy savings, which is especially important to satisfy the NYC Law 97 and other laws throughout the U.S., as well as helping projects comply with green building rating systems such as LEED®.



Rebates, incentives, and tax credits may be available through state, federal, and local utility programs.

For additional information scan the code →
or visit: www.ice-air.com/rebates/



With Ice Air technology, cost-effective electrification for residential new build is possible even in cold climates.

SPECIFICATION NOTES:

1. Rated performances in cooling mode @ 80°F/67°F DB WB Indoors and 95°F/75°F DB/WB Ambient
2. Rated performances in heating mode @ 70°F/60°F DB/WB Indoors and 47°F/43°F DB/WB Ambient
3. Emergency backup electric heater is offered as a factory option.

SPXC Series use advanced VRF technology to ensure the unit is pinpointing the exact amount of heating or cooling required for desired room conditions. The use of enhanced vapor injection (EVI) compressors allow Ice Air's SPXC units to operate to extreme low temperatures.

Eco-friendly: The system operates in heat pump mode during the winter months without the need for electric heat, reducing emissions and energy consumption.

On-demand Operation: Variable speed compressors modulate output based on room demand.

Fresh Air: Outside air options are available for room conditioning.

Space-saving Design: Unit concealed in mechanical closet saving valuable floor space.

Enhanced Control Options: Each SPXC unit comes standard with Habitat Wireless Thermostat with smart control capabilities.*

Features:

- R410A "green" refrigerant
- Highest levels of energy efficiency in the market
- Supply air can be ducted for conditioning multiple rooms
- Heating performance laboratory tested and certified to -5°F
- The theoretical lower limit for heating operation is -25°F ambient
- Fully packaged chassis for self-contained conditioning

SERIES MODEL #	8SPXC12	8SPXC18	8SPXC24
Cooling Capacity (Btu/h)¹	11,200	16,800	24,000
Sensible Capacity (Btu/h)¹	9,900	12,900	18,500
Cooling Capacity Range (Btu/h)	9,700 - 15,700	10,500 - 19,500	13,900 - 25,600
EER¹	13.0	11.0	11.0
Cooling Operating Range	38°F TO 115°F		
Cooling Input (Watts)	862	1,527	2,182
Cooling Input (Amps)	4.1	7.3	10.4
Heating Capacity (Btu/h)²	11,400	15,200	21,000
Heating Capacity Range (Btu/h)	7,600 - 14,500	11,500 - 19,200	15,100 - 25,900
COP²	3.5	3.3	3.3
HSPF²	9.0	9.0	9.0
Heating Outdoor Operating Range	-5°F TO 70°F		
Heating Input (Watts)	955	1,350	1,865
Heating Input (Amps)	4.6	6.5	9.0
Electric Heat (kW)	3.5 5.0	5.0 7.5	5.0 7.5
Voltage	208	208	208
MCA (without Electric Heat)	9.8	14.8	18.8
MOP (without Electric Heat)	15	20	25
MCA (with Electric Heat)	22.5 27.8	28.7 47.4	28.9 47.8
MOP (with Electric Heat)	25 30	30 50	30 50
Airflow (CFM)	400	600	800
Weights (lbs.)	220	260	360

* Smart app module must be purchased separately.



Electrified Product Family



* By making energy-saving upgrades today, you can give your building a head start on upcoming changes to city regulations such as NYC Law 97.

RSXC Series*

Cold Climate PTHPs give you the performance of a VRF system with the convenience of a PTAC. Using breakthrough cold climate technology allows Ice Air PTHPs to efficiently provide space heating down to -5°F and below.



RSXC-S Series*

Ice Air's RSXC-S Series Cold Climate heat pumps offer a slim, sleek design and efficiently provide space heating to -5°F and below.



RSXC-DH Series*

RSXC-DH air source heat pumps are compact, with advanced, two-stage dual heating capabilities (partial cold climate operation down to 23°F then supplemental electric heat resistance for increased output).



SPXC Series*

Cold Climate SPHPs are self-contained, concealed, ducted systems. This line of vertical packaged heat pumps serves multiple spaces through concealed ductwork to efficiently provide space heating to -5°F and below.



HPWH Series*

Air-Source Cold Climate Heat Pump Water Heaters capture the free energy in the environment and convert it to hot water. These units are certified to operate down to -13°F.



HPWH-SC Series*

Air-Source Cold Climate heat pump chiller heaters capture free energy in the environment to provide both hot and chilled water. These units are certified to operate down to -13°F.



VSHP GE Geothermal*

Ice Air's Geothermal WSHP is a versatile geothermal heat pump that is available in a range of sizes and configurations for convenient installation. Fully compatible with geothermal conditions, it provides an ideal solution for whisper quiet cooling and heating within a tight footprint.



New technologies like Variable Refrigerant Flow (VRF) are on the move. There is no denying the benefits of VRF any longer, and with Ice Air VRF, these benefits are delivered simply and effectively.



Other Products

FCU

Fan Coil Units



This simple and easy cooling and heating solution provides reliable performance, high efficiency, ease of operation, low cost, easy installation, quiet comfort and a variety of solution-based options.

HWCAC

Hybrid Water-Cooled Air Conditioners



HWCACs provide hydronic heat without using the unit's compressor through an innovative system that combines high-efficiency cooling with a hot water coil.

WSHP

Water Source Heat Pumps



WSHPs provide efficient room-by-room comfort. Units function independently and are piped to a central water loop.

PTAC

Packaged Terminal Air Conditioners

PTACs are designed for ultra-high efficiency and comply with LEED® criteria in a durable, user-friendly package. Available for new construction, retrofit and ExactFit™ replacement applications.



NEW! Ice Air CEU Webinar

Learn more about the role HVAC electrification plays in building decarbonization today at www.iceairceu.com.



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