ICE AIR®
All Climate Comfort™

SPXC Series

Cold Climate Single Packaged Heat Pumps

SPXC

SPXC Series

All Climate Comfort beats 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 up to 25% more efficient.

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:

- **Sustainable R32 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 [1] (BTU/h)	12,900	18,000	28,300
Sensible Capacity [1] (BTU/h)	10,000	15,000	21,900
Cooling Capacity Range (BTU/h)	9,700 - 16,700	10,500 - 19,500	13,900 - 25,600
EER2[2]	11.1	10.6	10.4
SEER2	14.7	13.4	13.7
Cooling Operating Range	38°F TO 115°F		
Cooling Mode Power (Watts)	1,162	1,698	2,721
Cooling Mode Current (A)	5.6	8.2	13.1
Heating Capacity [2] (BTU/h)	11,800	16,500	22,600
Heating Capacity Range (BTU/h)	8,600 - 14,200	11,500 - 19,200	15,100 - 25,900
COP2[3]	3.5	3.5	3.2
HSPF[2]	7.6	7.5	7.4
Heating Outdoor Operating Range	-5°F TO 70°F		
Heating Mode Power (Watts)	988	1,382	2,070
Heating Mode Current (A)	4.8	6.6	10.0
Voltage	208	208	208
MCA	9.8	14.8	18.8
MOP	15	20	25
Airflow (CFM)	580	760	1000
Max External Static Pressure - ESP (in.wg.)	0.3	0.3	0.3
Weights (lbs)	220	280	360
LOW AMBIENT PERFORMANCE			
Heating Capacity @ 10°F	7,100	10,700	17,400
COP @ 10°F	2.04	1.99	2.18
Heating Capacity @ 5°F	6,800	10,300	16,200
COP @ 5°F	1.86	1.82	1.99
Heating Capacity @ -5°F	5,100	8,000	15,800
COP @ -5°F	1.52	1.5	1.72

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. If the electric heat option is selected, the heat pump operation is disabled and electric heat enabled below -5°F (+/- 3 °F).
4. Units without electric heat will operate below -5°F with derated performance. Performance below -5°F has not been certified.

* Smart app module must be purchased separately.

Due to Ice Air's ongoing product development programs, the information in this document is subject to change without notice.

ICE AIR®
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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.

iCool XC*

iCool XC heat pumps are compact, with advanced, two-stage dual heating capabilities (partial cold climate operation down to 23°F then supplemental electric heal 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.

VSHPGE 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.

Habitat Smart Technologies

The Habitat Thermostat's unique wireless mesh technology allows smart temperature control over the space it is monitoring. Transform a Fan Coil Unit into a state-of-the-art heating and cooling unit without opening walls to run wires.

Compatible with Nexus Home Automation Products neXus Equipment Management System

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 **iceairceu.com**

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