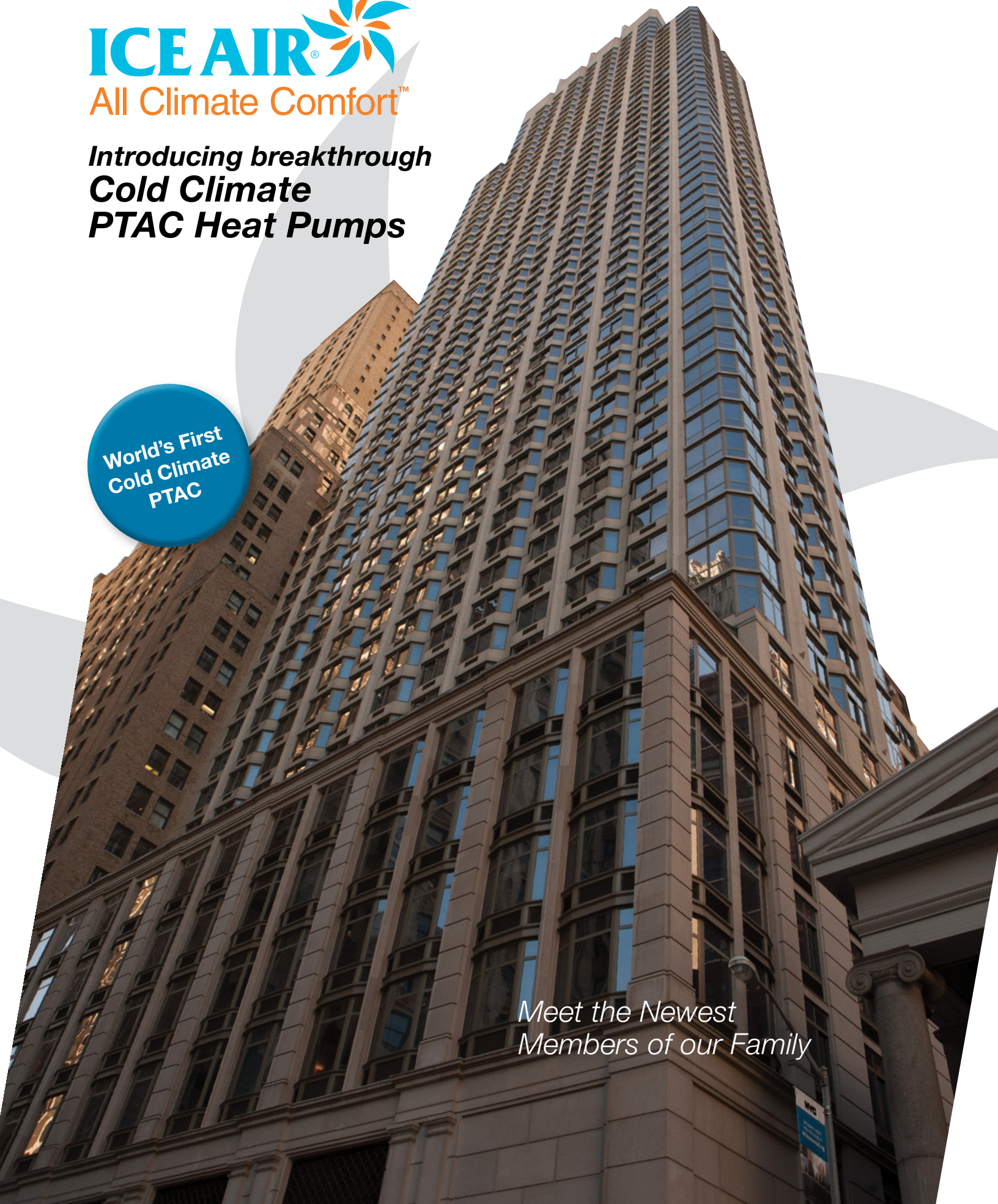
ICE AIR®
All Climate Comfort™

Introducing breakthrough
Cold Climate PTAC Heat Pumps

World's First Cold Climate PTAC



Meet the Newest Members of our Family

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Packaged Terminal Air Conditioners (PTACs) have been used as cost effective cooling and heating of apartments, hotels, and dormitories since the 1950's. PTACs are convenient. If a unit goes down, a new unit can be replaced quickly. Old units can be repaired and placed back into service at a later date. The ease of service is what makes PTACs so popular.

The performance of a VRF system with the convenience of a PTAC

RSXC-Series Cold Climate Packaged Terminal Heat Pump (PTHP)

Ice Air's breakthrough cold climate technology is a paradigm shift. It allows PTHPs to efficiently provide space heating down to -5°F and below. And our advanced Variable Refrigerant Flow (VRF) technology ensures that your unit is pinpointing the exact amount of heating or cooling required for the desired room conditions. Efficient, sustainable, heat pumps designed for cold climates are finally a reality.

Lab tested to -5°F

Defining *Cold Climate*

- Heating performance laboratory tested and certified to -5°F
- The theoretical lower limit for heating operation is -25°F ambient
- Provides cooling operation down to 38°F

What You Would Expect

- Industry leading efficiency
- Sustainable R32 Green Refrigerant
- Fits within a standard size wall sleeve (42" W x 16")

SERIES MODEL #	8RSXC09	8RSXC13	8RSXC18
Cooling Capacity [1] (BTU/h)	9,200	12,500	16,300
Cooling Capacity Range (BTU/h)	6,300 - 11,800	6,500 - 14,900	7,300 - 18,000
EER[1]	12.1	11.1	10.0
Heating Capacity [2] (BTU/h)	10,300	13,700	17,900
Heating Capacity Range (BTU/h)	8,700 - 12,600	9,000 - 14,700	10,900 - 19,300
COP[2]	4.1	3.7	3.0
HSPF[2]	9.6	9.5	9.0
Voltage	208	208	208
Electric Heater Power [3] (kW)	3.0 I 3.5	3.0 I 3.5 I 4.3	3.0 I 3.5 I 4.3
Electric Heater Current [3] (A)	14.4 I 16.8	14.4 I 16.8 I 20.7	14.4 I 16.8 I 20.7
Cooling Mode Current (A)	3.7	5.4	7.8
Cooling Mode Power (W)	760	1,126	1,630
Heating Mode Current (A)	3.5	5.2	8.4
Heating Mode Power (W)	737	1,086	1,750
MCA (without Electric Heat)	7.9	9.9	12.9
MOCP (without Electric Heat)	15	15	15
MCA (with Electric Heat)	18.4 I 21.5	18.4 I 21.5 I 26.4	18.4 I 21.5 I 26.4
MOCP (with Electric Heat)	20 I 25	20 I 25 I 30	20 I 25 I 30
Evaporator Motor Nominal HP	1/25	1/25	1/25
Airflow (CFM)	380	400	480
Airflow Outside (CFM)	60	60	60
Weights (lbs)	127	134	151
	Low Ambient Performance		
Heating Capacity @ 10°F	6,600	7,700	11,600
COP @ 10°F	2.20	2.14	2.02
Heating Capacity @ 5°F	6,100	6,900	10,600
COP @ 5°F	1.98	1.91	1.93
Heating Capacity @ -5°F	5,500	6,400	8,100
COP @ -5°F	1.74	1.62	1.60

SPECIFICATION NOTES:

1. Cooling mode performance ratings are in compliance with AHRI Standard 310/380 and CSA Standard 744.
2. Heating mode performance ratings are in compliance with AHRI Standard 310/380 and CSA Standard 744.
3. (OPTIONAL) If back-up electric heat is required, customer has choice of manual trigger switch OR automatic changeover at -5°F (±3°F) with manual switch override.
4. Units without electric heat will operate below -5°F with derated performance. Performance below -5°F has not been certified.
5. Electric heat is recommended in markets that may experience ambient temperatures below -5°F
6. Performance data based on R32 green refrigerant.

IMPORTANT: Additional voltages and alternate electric heat and heat pump options are available. For performance data and other available options please consult factory.

Cold Climate
Package Terminal Heat Pumps

SPXC-Series Cold Climate Single Packaged Heat Pumps (SPHP)

Single Packaged Air Conditioners (SPACs) are as convenient to service as a PTAC while providing the benefits of concealed ducted systems. SPACs can be hidden in a closet or behind a wall and serve multiple spaces via concealed ductwork. With the introduction of ***Ice Air's breakthrough cold climate technology*** our line of SPHPs would allow for efficient heat pump operation on the coldest days.

The performance of a VRF system with the convenience of a SPAC

SERIES MODEL #	8SPXC12	8SPXC18	8SPXC24
Cooling Capacity [2] (BTU/h)	12,900	18,100	28,400
Sensible Capacity [2] (BTU/h)	10,000	15,000	21,900
Cooling Capacity Range (BTU/h)	8,900 - 14,500	12,400 - 20,300	18,900 - 32,600
EER2 [2]	11.1	10.7	10.5
SEER2	14.7	13.8	14.0
Cooling Operating Range	38°F TO 115°F		
Cooling Mode Power (Watts)	1,162	1,692	2,705
Cooling Mode Current (A)	5.6	8.1	13.0
Heating Capacity [3] (BTU/h)	11,800	16,500	23,100
Heating Capacity Range (BTU/h)	8,100 - 13,300	11,700 - 18,200	16,400 - 25,400
COP2[3]	3.5	3.5	3.2
HSPF[2]	7.6	7.4	7.4
Heating Outdoor Operating Range	-5°F TO 70°F		
Heating Mode Power (Watts)	988	1,382	2,116
Heating Mode Current (A)	4.8	6.6	10.2
Voltage	208	208	208
Total Unit FLA (without Electric Heat)	9.8	13.7	22.2
MCA (without Electric Heat)	11.5	16.0	26.2
MOP (without Electric Heat)	15	25	40
Electric Heat [4] (kW)	3.5 I 5	5 I 7.5	5 I 7.5
Electric Heat (A)	16.8 I 24	24 I 36.1	24 I 36.1
Total Unit FLA (with Electric Heat)	18.8 I 26	26 I 38.1	27.6 I 39.7
MCA (with Electric Heat)	23 I 32	32 I 47.1	33.6 I 48.7
MOP (with Electric Heat)	25 I 35	35 I 50	40 I 50
Airflow (CFM)	450	720	1,000
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	8,500	13,000	19,800
COP @ 10°F	1.85	1.95	1.9
Heating Capacity @ 5°F	7,700	12,300	19,400
COP @ 5°F	1.7	1.85	1.85
Heating Capacity @ -5°F	6,100	10,900	18,400
COP @ -5°F	1.4	1.7	1.75

Defining *Cold Climate*

- Heating performance laboratory tested and certified to -5°F
- The theoretical lower limit for heating operation is -25°F ambient
- Provides cooling operation down to 38°F

What You Would Expect

- Industry leading efficiency
- Sustainable R32 Green Refrigerant
- Standard dimension wall plenum, compliant with US DOE requirements (23-5/8" W x 32-5/8" H)

SPECIFICATION NOTES:

1. Performance data according to CAC/HP AHRI 210/240 standard.
2. Rated performances in cooling mode @ 80°F/67°F DB/WB Indoors and 95°F/75°F DB/WB Ambient
3. Rated performances in heating mode @ 70°F/60°F DB/WB Indoors and 47°F/43°F DB/WB Ambient
4. If the electric heat option is selected, the heat pump operation is disabled and electric heat enabled below -5°F (+/- 3°F)
5. Units without electric heat will operate below -5°F with derated performance. Performance below -5°F has not been certified.
6. Performance data based on R32

Ice Air heat pumps keep you warm when it is cold outside!

What if there was a way to efficiently "electrify" a building's domestic hot water plant?

Ice Air's CCHPD-series ***Cold Climate*** *Heat Pump DHW heaters do just that. They capture the free energy in the environment and convert it to hot water.*

Create hot water even when it is cold outside!

To learn more, go to: www.Ice-Air.com

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