



**Introducing  
VRF PTHP and SPHP  
Breakthrough Cold  
Climate Technology**

World's First  
Cold Climate  
PTAC!

*Meet the Newest  
Members of our Family*



# PTHP-XC Family

## Packaged Terminal Heat Pumps

Since the 1950s, Packaged Terminal Air Conditioners (PTACs) have been used as a cost-effective means of conditioning hotels, apartments, dormitories and similar properties. Heat pump technology allowed more efficient heating, but was limited by poor low ambient temperature performance. Until now...

Ice Air's **Breakthrough Cold Climate Technology** has changed all that – allowing Packaged Terminal Heat Pumps (PTHPs) and Single Packaged Heat Pumps (SPHPs) units to function efficiently down to -5°F. And our advanced VRF technology ensures that your unit is pinpointing the exact amount of high-efficiency heating or cooling required for the desired room conditions.

### PTHP-XC Cold Climate (Packaged Terminal Heat Pumps)

Ice Air's cold climate PTHPs combine energy efficiency with VRF technology to maximize comfort control benefits. The unit modulates frequency and refrigerant volume through sophisticated control technology utilizing electronically commutated (EC) motors, electronic expansion valve (EEV) and variable speed compressors.

#### Utilizes enhanced vapor injection (EVI) compressors – allows the unit to operate to extreme low temperatures

- Chassis capable of operating down to -5°F in heating mode
- Capable of operating down to 38°F in cooling mode
- R410A Refrigerant
- Wall Sleeve Opening is standard size: 42"W x 16"H



SERIES MODEL #	RSVF-S-XC	RSVF-M-XC	RSVF-L-XC
<b>COOLING CAPACITY (RATED)*</b>	9,300	12,900	16,400
<b>EER (RATED)</b>	12	11.2	10.0
<b>COOLING CAPACITY RANGE*</b>	5,500 - 11,300	6,500 - 14,900	7,300 - 18,000
<b>COOLING WATTS</b>	775	1,158	1,635
<b>COOLING AMPERAGE</b>	3.7	5.9	8.1
<b>HEATING CAPACITY (RATED)**</b>	8,700	12,200	17,400
<b>COP (RATED)</b>	3.3	3.16	3.03
<b>HSPF (RATED)</b>	9.6	9.5	9.0
<b>HEATING WATTS</b>	773	1,125	1,683
<b>HEATING AMPERAGE</b>	3.7	5.7	8.3
<b>HEATING CAPACITY RANGE**</b>	5,000 - 11,000	5,600 - 14,200	9,500 - 17,000
<b>HEATING CAPACITY @ 10~F</b>	6,100	7,700	11,600
<b>HEATING CAPACITY @ -5~F</b>	4,500	5,300	7,160
<b>VOLTAGE</b>	208	208	208
<b>MCA</b>	5.9	8.5	10.4
<b>MOP</b>	15	15	15



#### SPECIFICATION NOTES:

- \* = BTUH @ 80°F DB/67 °F WB INDOORS; 95 °F DB/75 °F WB OUTDOORS.
- \*\* = BTUH @ 70°F DB/60°F WB INDOORS; 47°F DB/43°F WB OUTDOORS.
- UNIT USES ENHANCED VAPOR INJECTION VARIABLE SPEED COMPRESSOR.
- HEATING @ 10°F IS FOR NEW YORK STATED DESIGN CONDITION.

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



# SPHP-XC Family

## Single Packaged Heat Pumps

### SPHP-XC Cold Climate (Single Packaged Heat Pumps)

Ice Air's cold climate SPHPs heat pumps use relatively little energy to transfer heat and condition your environment. The unit modulates frequency and refrigerant volume through sophisticated control technology utilizing electronically commutated (EC) motors, electronic expansion valves (EEV) and variable speed compressors.

#### Utilizes enhanced vapor injection (EVI) compressors – allows the unit to operate to extreme low temperatures

- EERs meet new 11.0 EER requirements
- Chassis capable of operating down to -5°F in heating mode
- Capable of operating down to 38°F in cooling mode
- Wall Plenum exterior dimensions comply with US DOE new construction requirements: 32-5/8"H x 23-5/8"W



SERIES MODEL #	8SPHP12-XC	8SPHP18-XC	8SPHP24-XC
<b>COOLING CAPACITY (RATED)*</b>	11,200	17,600	22,000
<b>EER (RATED)</b>	11	11	11
<b>COOLING OPERATING RANGE</b>	38°~F TO 115°~F	38°~F TO 115°~F	38°~F TO 115°~F
<b>COOLING WATTS</b>	1018	1,600	2,000
<b>COOLING AMPERAGE</b>	4.9	7.7	9.6
<b>HEATING CAPACITY (RATED)**</b>	10,700	16,800	19,000
<b>COP (RATED)</b>	3.3	3.3	3.3
<b>HEATING OPERATING RANGE</b>	-4°~F TO 50~F	-4°~F TO 50~F	-4°~F TO 50~F
<b>HEATING WATTS</b>	950	1,491	1,686
<b>HEATING AMPERAGE</b>	4.6	7.2	8.1
<b>INDOOR CFM</b>	400	600	800
<b>ESP (MAX)</b>	0.3"	0.3"	0.3"
<b>VOLTAGE</b>	208	208	208
<b>MCA</b>	6.2	9.7	12.5
<b>MOP</b>	15	20	20

#### SPECIFICATION NOTES:

\* = BTUH @ 80°F DB/67 °F WB INDOORS; 95 °F DB/75 °F WB OUTDOORS.

\*\* = BTUH @ 70°F DB/60°F WB INDOORS; 47°F DB/43°F WB OUTDOORS





# Ice Air's Commitment to Advanced VRF Technology Continues to Grow...

H Series



W Series

G Series



S Series

To learn more, go to: [www.iceairvrf.com](http://www.iceairvrf.com)



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