



VSHPGE Series

Vertical Stack Geothermal
Water Source Heat Pumps



WSHP

VSHPGE Series

Go Green. Go Geothermal.

Geothermal heating and cooling systems are one of the most environmentally-friendly ways to heat and cool your building. They don't produce any carbon dioxide or any other greenhouse gasses that contribute both to your increased carbon footprint and air pollution.

Ice Air's VSHPGE Vertical Stack Geothermal WSHPs have a low electricity demand, which in the course of a year could result in meaningful savings. The VSHPGE is a versatile geothermal heat pump available in a range of sizes and configurations for convenient installation. Fully compatible with geothermal conditions, Ice Air's Vertical Stack Geothermal WSHP offer high efficiencies — up to 21 EER in cooling on select models — and provide an ideal solution for whisper quiet cooling and heating within a tight footprint.



Ice Air's VSHPGE units are AHRI certified, meet all UL standards and conform to ASHRAE 90.1, local building codes and energy standards. Ice Air's AHRI Performance Certified VSHPGE models meet AHRI tier 1 efficiencies.

Rebates

Ice Air's VSHPGE Vertical Stack Geothermal Heat Pumps qualify for rebates through the New York State Clean Heat Program. Households and businesses can receive substantial rebates of up to \$2000 per unit through Con Edison electrical utilities.*

Rebates are also available through various other utilities and incentive programs. Consult with your local government and utility companies for details.



The RSXC 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®.

* Con Edison rebate amounts vary on the specifics of each project. See the NYC Con Edison Program for more information.



Ice Air's full Water Source Heat Pump line includes Console WSHPs, Horizontal WSHPs, Vertical Closet WSHPs & Vertical Stack WSHPs.



Because the system works with the relative temperature of the earth instead of the variable temperatures above ground, geothermal heating and cooling systems use 40-60% less energy than conventional systems. In addition to offering energy cost savings, Ice Air geothermal systems provide many other benefits, such as:

Eco-friendly: The system uses ground heat, which is renewable and pollution-free.

Quieter operation: Designed to provide quiet operation.

Improved air quality: Geothermal systems offer fewer threats to indoor air quality – a benefit for everyone, especially those with asthma or allergies.

Longevity: A geothermal system can run for decades.

Features:

- R410A “green” refrigerant
- Highest efficiency in market
- 17+ EER
- 3.6+ COP
- Advanced controls on every unit
- Industry best sound levels

Model	8VSHPE09	8VSHPE12	8VSHPE15	8VSHPE18	8VSHPE24	8VSHPE30
Cooling Capacity (BTUH)	11,000	13,800	15,000	19,500	24,800	30,000
Sensible Capacity (BTUH)	9,500	10,800	12,100	15,400	18,600	24,000
EER	21.3	20.1	17.5	18.7	18.4	17.3
Heating Capacity (BTUH)	6,500	9,000	10,500	13,400	17,000	21,900
COP	3.64	3.7	3.7	3.63	3.66	3.6
Flow Rate (GPM)	2.3	3.0	3.8	4.5	6.0	7.5
Air Flow (CFM)	460	500	560	620	800	1000
Voltage/Ph/Hz	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Compressor RLA	3.25	4.10	5.50	6.10	9.15	11.25
Compressor LRA	20.0	27.0	28.5	35.6	43.0	62.0
Fan Motor FLA	2.0	2.0	2.0	2.0	2.00	3.98
MCA	6.6	7.6	9.4	10.1	13.9	19.0
MOP	9.3	11.2	14.4	15.7	22.6	29.3
Fuse Size	15	15	15	15	20	25

Cooling Capacity BTUH Rated at @ 80.6°F DB, 66.2°F WB EAT 77°F EWT @ 3 GPM/TON

Heating Capacity BTUH Rated at @ 68°F DB, 59°F WB EAT, 32°F EWT @ 3 GPM/TON

The performance data shown above is based on standard equipment under the provided design conditions. Performance may vary depending on equipment configuration and project site conditions.

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.



HPWH Series*

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



SPXC Series*

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



ICE AIR VRF



W Series



S Series



H Series

OUTDOOR UNITS

Ice Air VRF Systems include air-cooled heat pump, air-cooled heat recovery, and water-cooled heat pump condensing units.



INDOOR UNITS

Ice Air VRF Indoor Units are offered in a variety of different configurations to meet every application need.

VSHPGA

Geothermal



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

Other Products

FCU

Fan Coil Units



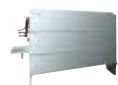
Horizontal Concealed



Horizontal Ultra Thin



Vertical Exposed



Vertical Concealed



Hi Rise

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



Vertical Closet



Horizontal



Console



Vertical Stack

The HWCAC is an innovative system that combines high-efficiency cooling with a hot water coil that provides hydronic heat without using the unit's compressor.

WSHP

Water Source Heat Pumps



Vertical Closet



Horizontal



Console



Vertical Stack

WSHPs heating and cooling units provide efficient room-by-room comfort. Units function independently and are piped to a central water loop. These state-of-the-art units come with user friendly digital controls designed to optimize user comfort and ease of operation.

SPAC/SPHP

Single Packaged AC/Heat Pumps



As a unique air-to-air system, SPAC/SPHPs provide versatility with ultra-quiet operation. The SPAC/SPHP is designed to

cool and heat single or multiple spaces within multi-family, lodging, dormitory or light commercial buildings.

PTAC

Packaged Terminal Air Conditioners



new construction, retrofit and ExactFit™ replacement applications.

PTACs are designed for ultra-high efficiency and comply with LEED® criteria in a durable, user-friendly package. Available for