

Specifications

VSCS Series • 13EER



PSC Motors

Model	Flow Rate (USGPM)	Air Flow (SCFM)	Water Loop Conditions ¹				Ground Water Conditions ²				Ground Loop Conditions ³			
			Cooling		Heating		Cooling		Heating		Cooling		Heating	
			Capacity (Btuh) ⁴	EER	Capacity (Btuh) ⁵	COP	Capacity (Btuh) ⁴	EER	Capacity (Btuh) ⁵	COP	Capacity (Btuh) ⁴	EER	Capacity (Btuh) ⁵	COP
09	2.6	340	8,900	13.0	11,800	4.5	10,100	19.5	9,300	3.8	9,300	14.2	7,000	3.2
12	3.2	430	12,200	13.0	14,900	4.4	14,400	19.8	12,200	3.7	12,600	14.3	9,700	3.2
15	4.0	550	14,500	13.5	17,200	4.7	16,500	21.8	13,900	4.0	14,500	16.0	10,900	3.3
18	4.8	685	18,100	13.2	22,300	4.6	20,800	20.6	18,000	3.9	18,800	14.5	14,000	3.2
24	6.2	850	24,400	13.4	30,200	4.5	28,100	21.5	23,800	3.9	26,000	15.7	18,500	3.2
30	7.8	1075	30,000	13.5	34,900	4.6	33,500	20.0	27,500	3.7	31,800	15.2	20,500	3.2
36	9.5	1220	34,900	13.0	43,000	4.3	39,200	19.4	29,100	3.7	36,400	14.1	22,900	3.2

EC Motors (ECM)

Model	Flow Rate (USGPM)	Air Flow (SCFM)	Water Loop Conditions ¹				Ground Water Conditions ²				Ground Loop Conditions ³			
			Cooling		Heating		Cooling		Heating		Cooling		Heating	
			Capacity (Btuh) ⁴	EER	Capacity (Btuh) ⁵	COP	Capacity (Btuh) ⁴	EER	Capacity (Btuh) ⁵	COP	Capacity (Btuh) ⁴	EER	Capacity (Btuh) ⁵	COP
09	2.6	340	9,100	14.0	11,600	4.6	10,200	20.0	9,100	4.0	9,400	14.4	6,800	3.3
12	3.2	430	12,300	13.4	14,700	4.5	14,600	20.2	12,000	3.8	12,800	14.5	9,400	3.3
15	4.0	550	14,600	14.0	17,100	4.8	16,600	22.0	13,800	4.1	14,800	16.2	10,600	3.4
18	4.8	685	18,400	13.6	22,000	4.7	20,900	21.0	18,100	4.0	19,100	15.1	13,700	3.3
24	6.2	850	24,600	13.7	30,000	4.6	28,200	21.7	24,000	4.0	26,100	16.1	17,900	3.3
30	7.8	1075	30,100	13.8	34,400	4.7	33,900	20.6	27,100	3.9	32,200	15.6	20,100	3.3
36	9.5	1220	35,500	13.3	42,700	4.5	39,800	19.8	28,100	3.9	37,000	14.5	21,900	3.3

NOTES:

1. Water Loop capacities are rated at 86°F EWT Cooling, 68°F EWT Heating.
2. Ground Water capacities are rated at 59°F EWT Cooling, 50°F EWT Heating.
3. Ground Loop capacities are rated at 77°F EFT Cooling, 32°F EFT Heating.
4. All Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature.
5. All Heating capacities based upon 68°F DB, 59°F WB entering air temperature.

The Vertical Stacked Water Source Heat Pump Family



Available Thermostat Options

- Color Display Thermostat**
 Customizable background display. Fast, easy programming with 7-day programmable scheduler. Wi-Fi access available.
- TEC 3000 Thermostat**
 Programmable thermostat specifically designed for heat pump heating and cooling equipment. Available occupancy sensor improves energy savings.
- T701 Thermostat**
 Programmable and non-programmable thermostat designed for three speed and multi-staging fan control.

Johnson Controls and the Johnson Controls logo are registered trademarks of Johnson Controls or its affiliates, in the United States of America and/or other countries.

© 2016 Johnson Controls, P.O. Box 423, Milwaukee, WI 53201 Printed in USA PUBL-7673 (Rev. 12/16) www.johnsoncontrols.com

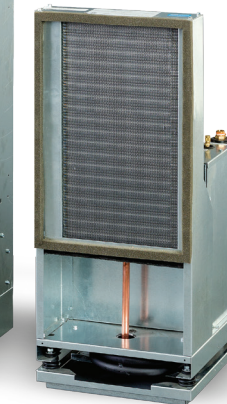


Vertical Stacked Water Source Heat Pumps

High Efficiency VSCS Series • 13EER



Get flexibility without giving up efficiency.



New levels in efficiency and performance.

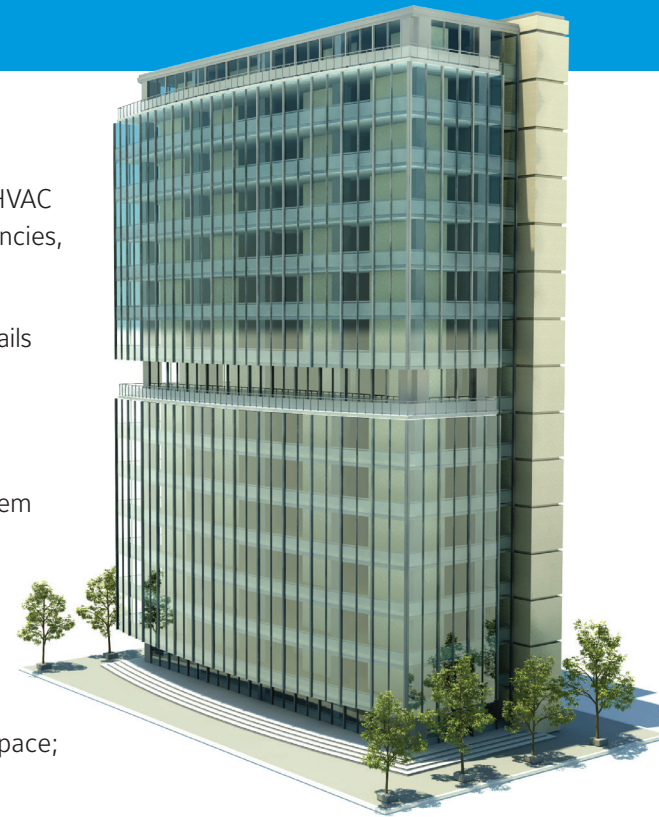
The little things add up.

High-rise construction, whether two stories or twenty stories, presents unique HVAC challenges. You want to maximize floor space for occupants and still create efficiencies, during and after construction.

Our Vertical Stacked Water Source Heat Pumps feature design and construction details that provide the flexibility you need.

- Concealed design with compact footprint
- Total comfort for single zone or multiple rooms
- Flexibility and comfort of a four-pipe fan coil system at the cost of a two-pipe system
- Adaptable for individual tenant metering
- Easy service access
- Ideal for water loop and geothermal applications

The VSCS Series is designed for buildings with a repeating floor pattern such as hotels; high-rise apartments and condominiums; dormitories; renovated office space; and assisted living communities.



Top to bottom performance.

All units are tested and certified by AHRI / ISO 13256-1 and ETL for the United States and Canada. The Johnson Controls stacked heat pump design with EC motors exceeds ASHRAE 90.1 requirements at all rating conditions, making the VSCS series an excellent choice for water-loop and geothermal applications.

Our Vertical Stacked Water Source Heat Pumps deliver industry-leading performance. These units combine a wide range of features to meet your long-term performance, efficiency and comfort needs. For higher energy efficiency requirements, consider the VPCS Series of Vertical Stacked Water Source Heat Pumps. A Johnson Controls representative can explain the unique differences between high efficiency and premium products.

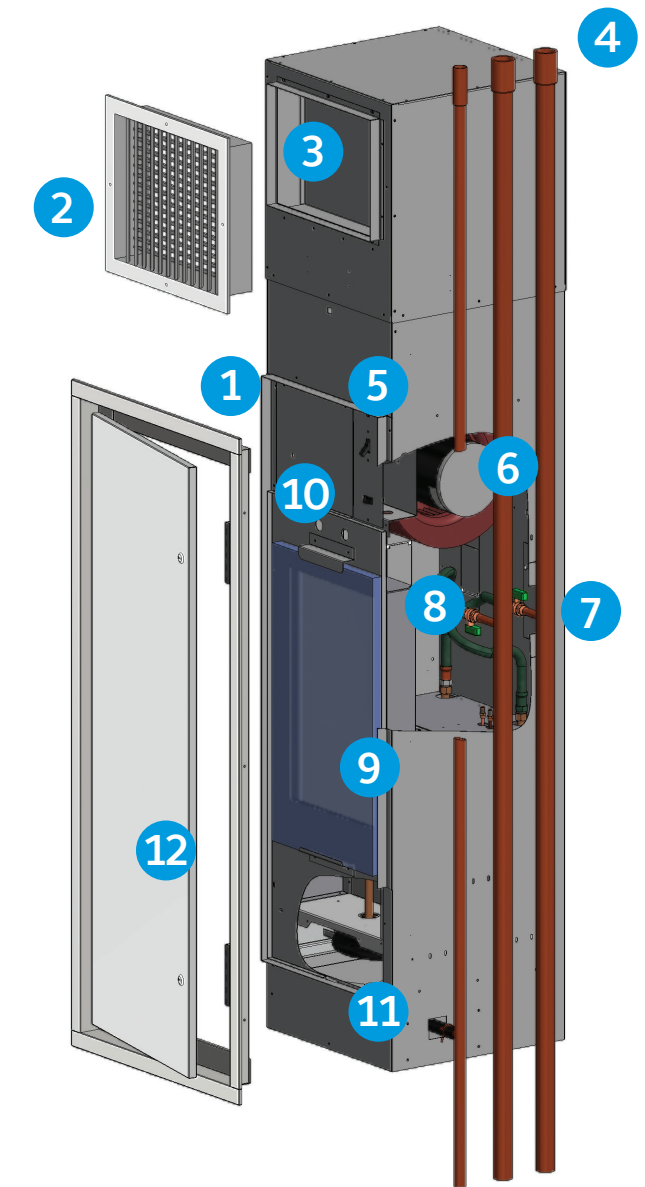


High Efficiency VSCS Series

13EER

Features:

1. Terminal box
2. Double-deflection discharge grille (optional: opposed blade damper)
3. Sight/sound discharge baffles on all horizontal openings
4. Type M copper risers (optional: Type L)
5. Non-fused electrical disconnect
6. EC motor
7. Stainless steel braided hoses
8. Copper tube aluminum fin refrigerant-to-air coil (optional: dipped electrofin coated coil)
9. MERV 4 throw-away filter (optional: MERV 8)
10. Microprocessor control box
11. ASHRAE 62.1 compliant removable double-sloped drain pan (optional: stainless steel)
12. Acoustic perimeter return air intake door (locking options available)



What's that noise?

It's not the heat pump. Our heat pumps are engineered and manufactured to minimize noise. The cabinets are isolated from the wall structure to prevent vibration and noise transmission. Plus, the optional isolated chassis further dampens noise and vibration. This all helps contribute to a more comfortable environment for occupants, and a more marketable building for you.

High rise flexibility.

Low operating costs are critical in high-rise facilities. And reducing energy use and carbon footprint are must-haves. The space saving, energy-saving design of the high efficiency VSCS Series is a two-part system featuring a self-supporting, pre-piped cabinet, and a removable heat pump chassis. It delivers instant access to heating and cooling all year round.

The cabinet, complete with supply/return/drain copper risers, is installed during the intermediate phase of building construction. The cabinet is framed-in and covered with drywall, as part of the interior wall structure. When construction is complete, access to the mechanical and electrical components of the unit can be made entirely through the front return air panel. The ease of removal and replacement of the heat pump chassis through the front return air panel enhances ease of service.

For greater design flexibility and cost savings, one strategically located unit with up to three supply air outlets can minimize ductwork and serve up to three rooms.

