

Specifications VPCS Series - 16EER



EC Motors (ECM)

Model	Flow Rate (USGPM)	Cooling		Heating		Water Loop Conditions ¹				Ground Water Conditions ²				Ground Loop Conditions ³			
		Air Flow (SCFM)	Air Flow (SCFM)	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	2.4	375	400	9,700	15.6	12,800	5.2	11,400	25.0	10,300	4.4	10,000	17.5	7,900	3.5		
12	2.8	450	500	11,900	15.5	15,000	5.0	13,900	22.5	12,200	4.3	12,400	17.5	9,600	3.5		
15	3.75	520	580	14,800	16.4	16,900	5.1	17,100	23.5	14,000	4.6	15,500	18.5	10,600	3.6		
18	5	700	750	18,400	16.0	21,400	5.6	21,600	24.4	17,800	4.7	19,000	18.0	13,700	3.7		
24	6.2	850	950	24,300	16.0	28,900	5.7	27,000	24.8	23,800	4.9	25,300	18.5	18,600	4.0		
30	7.5	1075	1075	30,100	16.6	34,000	5.6	34,200	24.4	27,900	4.8	31,300	18.5	21,800	3.8		
36	9	1100	1250	36,300	15.3	44,000	5.1	40,800	23.2	35,900	4.4	37,400	17.0	27,800	3.6		

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.



Vertical Stacked Water Source Heat Pumps Premium Efficiency VPCS Series - 16EER

The Vertical Stacked Water Source Heat Pump Family

Available Thermostat Options

High Efficiency VSCS

Premium Efficiency VPCS



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.

Built for a higher standard of efficiency. And living.



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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 VPCS 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.

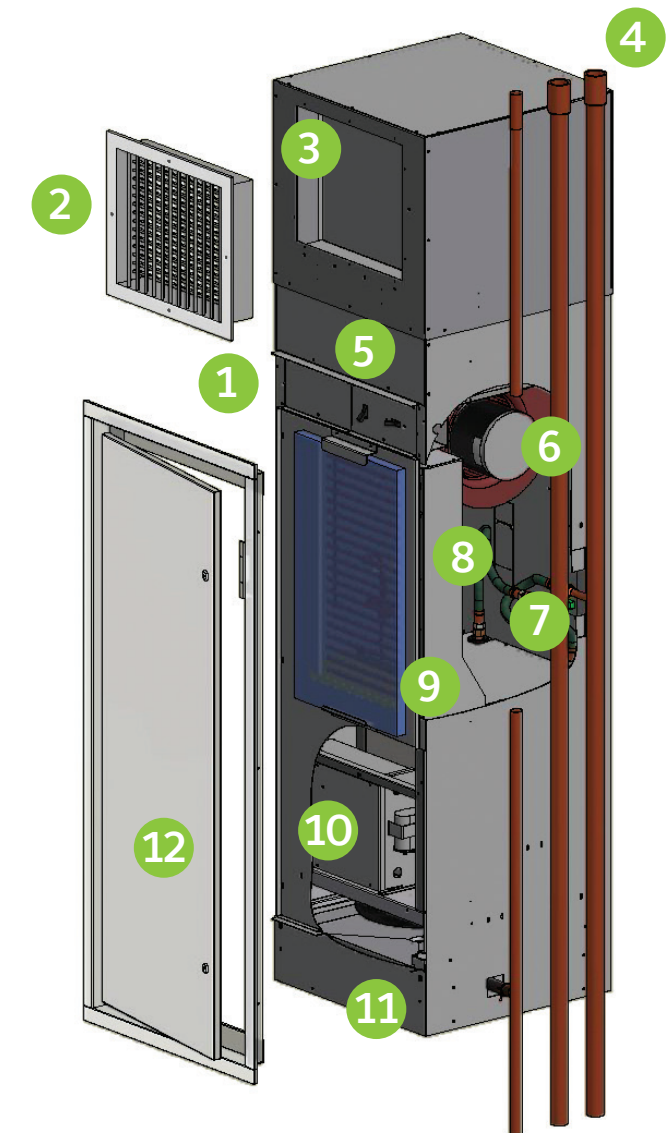
All units are tested and certified by AHRI / ISO 13256-1 and ETL for the United States and Canada. The Johnson Controls stacked heat pump design exceeds ASHRAE 90.1 requirements at all rating conditions, making the VPCS series an excellent choice for water-loop and geothermal applications.

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 tighter budgets and projects with slightly lower efficiency requirements, Johnson Controls also offers the VSCS Series of Vertical Stacked Water Source Heat Pumps. A Johnson Controls representative can explain the unique differences between premium and high efficiency products.

Premium Efficiency VPCS Series 16EER

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.

Improve efficiency one story at a time.

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 premium efficiency VPCS 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.

