

YORK[®] YVAG Air-Cooled DC Inverter Reversible Heat Pumps





The power behind your mission



Cooling capacities from 11.2 kW to 40 kW Heating capacities from 12.6 kW to 42 kW



Please note:

1. YVAG012-018 cooling operation range from 5°C to 48°C, heating operation range from -20°C to 25°C.

2. YVAG020/022R cooling operation range from -5°C to 48°C, heating operation range from -20°C to 43°C.

3. YVAG020-040 cooling operation range from -5°C to 48°C, heating operation range from -27°C to 43°C.

High efficiency

Providing the lowest possible operating costs

Our new YORK YVAG is designed for real-world efficiency. Part-load performances meet the highest efficiency values and deliver performance beyond typical heat pump efficiency levels in cooling and heating.

YORK YVAG uses a high-efficiency DC inverter compressor together with advanced variable frequency drive technology. This ensures stable operation across the entire operating range. Compressor frequency range goes from 15-120 percent to quickly and efficiently meet the needs of residential load changes. YORK YVAG units not only use a high-efficiency DC inverter compressor but also dual fans equipped a with high-efficiency, low-noise DC inverter motor which adjusts the airflow to exactly match the capacity in a more accurate and efficient way.

Easy installation and operation

Modular concept

The small packaged YORK YVAG heat pump comes as standard with a hydronic loop circulating pump, expansion tank, water flow switch, safety valve, fill valve, and wye strainer, saving space in the room and making installations fast and easy. The pump's external head can provide pressure up to 22m.

The units are designed for modular installations (up to four module combinations among all the models) to meet the needs of different residential and light commercial buildings. This permits installed capacities from 11.2–160kW.

Perfect comfort in a wide operating range

Broad operating envelope with lower sound levels

With its wide operating range, the YORK YVAG is perfect for all climates. It does not matter if the ambient temperature in summer is 48°C or if in winter it is -27°C, as the unit will maintain efficient, stable operation, to provide users with the most comfortable air conditioning experience. With heating outlet water temperatures up to 58°C, the unit is perfect for radiant panels.

Optimized for low sound

Thanks to the YORK YVAG component design, the unit's sound emissions are as low as 51 dB(A) sound pressure at full load, reducing to as low as 40 dB(A) at part-load operation. YORK YVAG also has Silent Mode, which reduces the sound level emissions by 5 dB(A) below full-load levels.





Take SMART control of your spaces

Get SMART control of your environment with the YORK YVAG system. Our fully customizable intelligent controls automatically adjust the temperature and humidity of your home, optimizing comfort, efficiency, and performance.

Sensitive

The highly sensitive T8610 intelligent thermostat closely monitors the actual and target temperatures of every room, instantly communicating requirements and load changes to the system and gathering data on usage requirements over time.

Manageable

Our YORK YVAG system makes everything easy for you to manage. Fan coil cooling and heating as well as underfloor heating can be controlled directly through the thermostat, while a single switch allows instant activation of the air conditioning system. In addition, indoor and outdoor units can be controlled as one using our Building Automation System (BAS), giving you convenient management of your smart home.

Adaptable

The YORK YVAG system adaptively adjusts the water temperature, compressor, and water pump running state in accordance with indoor and outdoor load changes. The results? More comfortable temperatures and humidity levels as well as annual operating costs that can be reduced by up to 18 percent.

Reliable

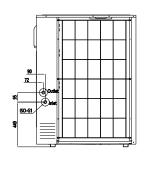
Enjoy peace of mind with our proven reliability. The YORK YVAG system offers an automatic exhaust system as well as a debugging mode, which uses operational data to detect, diagnose, and manage faults. This minimizes downtime and increases the stability of your system's operation.

Transformative

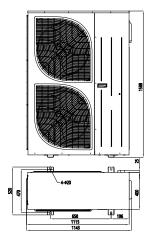
The design of the YORK YVAG intelligent platform accommodates future enhancements. The system can be expanded with other components and features, including variable frequency water pumps and remote app control. This leaves the power to transform your environment firmly in your hands.

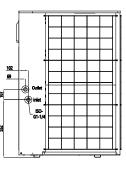
Dimensions

YVAG012-022(RNE)



YVAG020-033

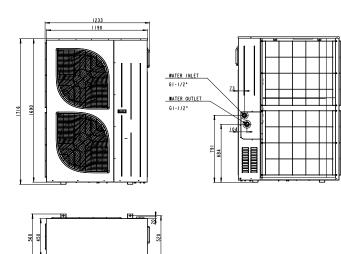




YVAG040RNE

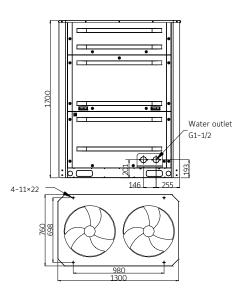
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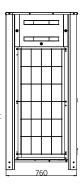
YVAG040RSE

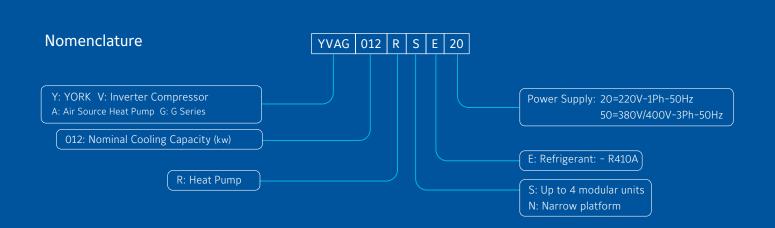


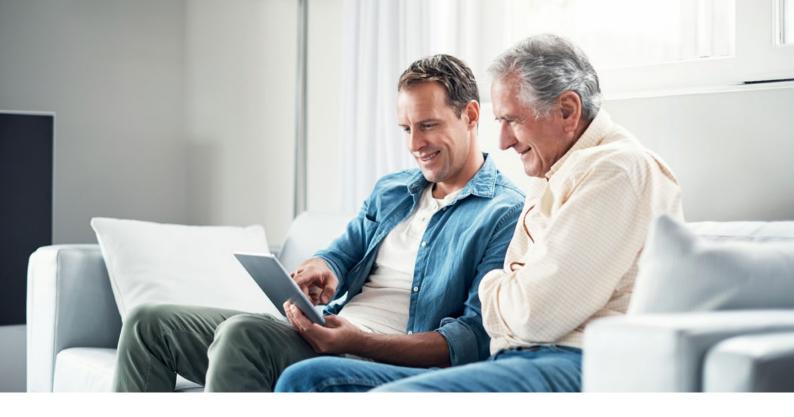
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Technical features

Model			YVAG 012 RSE	YVAG 014 RSE	YVAG 016 RSE	YVAG 018 RSE	YVAG 020 RNE	YVAG 022 RNE	YVAG 020 RSE	YVAG 022 RSE	YVAG 025 RSE	YVAG 028 RSE	YVAG 033 RSE	YVAG 040 RNE	YVAG 040 RSE	
Performance	Nominal Cooling Capacity	kW	11.2	14	15.5	18	20	22	20	22	25	28	32	40	40	
	Cooling Power Input	kW	3.8	4.7	5.2	6.5	6.4	7.5	5.5	6.4	7.8	8.4	10.6	13.3	13.3	
	EER		2.95	2.98	2.98	2.77	2.77	3.12	3.63	3.43	3.2	3.33	3.01	3.00	3.00	
	IPLV C		4.3	4.3	4.3	4.21	4.68	4.6	5	4.93	4.62	4.94	4.6	4.70	4.60	
	Nominal Heating Capacity	kW	12.6	16.1	18	19.5	19.5	22	22	24	27	30	34	42	42	
	Heating Power Input	kW	3.8	4.9	5.4	6.5	6.5	7.2	5.9	6.5	7.6	8.5	10.3	12.7	12.7	
	СОР		3.32	3.29	3.33	3.00	3.00	3.05	3.73	3.69	3.55	3.53	3.30	3.30	3.3	
	Sound Pressure Level	dB(A)	54	55	55	57	57	57.5	56	56.5	57	57	59	61	62	
Compressor	Туре		Rotary DC Inverter						EVI DC Inverter							
	Quantity		1	1	1	1	1	1	1	1	1	1	1	1	1	
Air side Heat Exchanger	Fan Motor Type		Brushless DC Fan Motor													
	Fans Quantity		2	2	2	2	2	2	2	2	2	2	2	2	2	
	Airflow	m³/h	2500~6600	2500~6600	2500~6600	2500~6600	2500~7500	2500~7500	2500~10500	2500~10500	2500~10500	2500~10500	2500~10500	2500~12000	2500~15000	
Water Side Heat Exchanger	Туре		Brazed Plate Heat Exchanger													
	Pump Type		Multiple-stage centrifugal pump													
	Nominal water flow	m³/h	1.93	2.41	2.67	3.10	3.44	3.78	3.44	3.78	4.30	4.82	5.50	6.88	6.88	
	Unit External Head	m	15	13	12	11	14	13	22	21	19	18	14	14	14	
	Expansion tank volume	L	2	2	2	2	2	2	5	5	5	5	5	5	8	
Dimensions & Weight	Height	mm			1588							1700				
	Width	mm			99	95	1100							1190	1300	
	Depth	mm	360						400				450	760		
	Operating Weight	kg	126	128	141	141	151	151	210	210	210	215	215	280	350	
Electrical	Nominal current (Cooling/ Heating)	A	18/19.5	21/24	24/27	30/30	12/13.5	14/14.5	11.7/12.3	13.2/13.3	15.3/15	16.2/16.8	20.4/21.0	25/24.5	25/24.5	
	Power Supply	V/ph/ Hz		220V-1F	h-50Hz		380V/400V-3Ph-50Hz									

Nominal conditions: Cooling capacities in kW given for 12/7°C water leaving temperature and 35°C ambient temperature Heating capacities in kW given for 40/45°C water leaving temperature and 7°C ambient temperature IPLV C follow China GB IPLV C test condition



About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers and manufacturing. With a global team of 100,000 experts in more than 150 countries and over 135 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco[®], YORK[®], Metasys[®], Ruskin[®], Titus[®], Frick[®], Penn[®], Sabroe[®], Simplex[®], Ansul[®] and Grinnell[®].

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