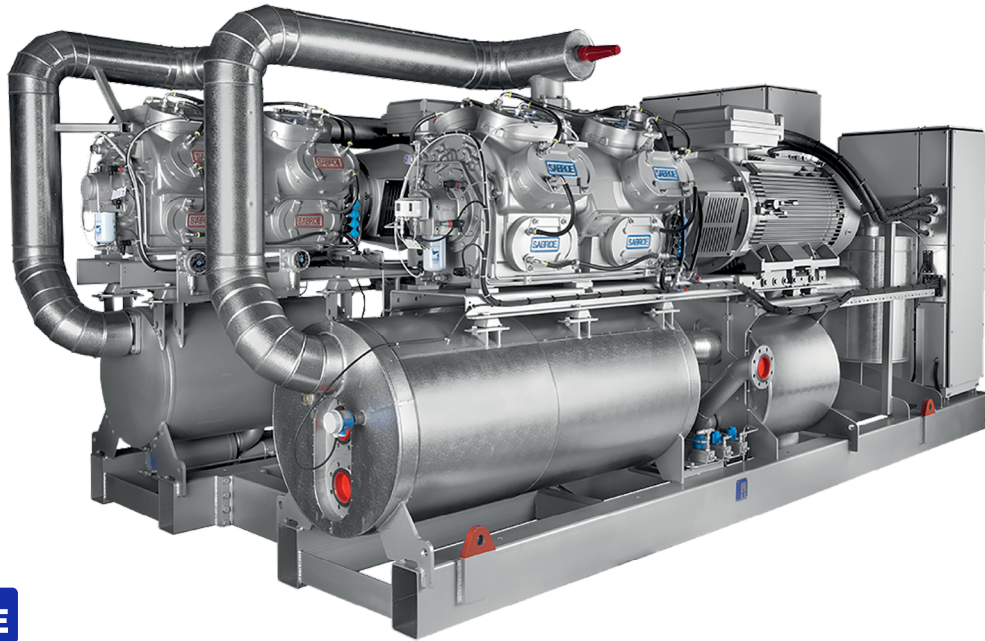




Johnson Controls Sabroe® DualPAC Heat Pumps

Two-stage ammonia-based heat pumps with capacities of up to 2,700 kW

Sabroe DualPAC heat pumps combine ChillPAC and HeatPAC units into one single heat pump, using an ingenious modular system. This makes it possible to achieve high temperature lifts, with the advantages of compact design and attractive operating economics. The DualPAC configuration is optimised for use in district heating and ground-source cooling.

The DualPAC is a two-stage high-temperature heat pump configuration that uses ammonia as refrigerant. It is designed with the aim of providing the best possible performance and versatile operating conditions. This unique setup ensures maximum flexibility in both configuration and capabilities because all standard ChillPAC and HeatPAC models can be used.

DualPAC is an exceptional heat pump for utilising low source temperatures and supplying high temperatures at high capacity. The unique heat exchangers and vessels ensure minimum refrigerant charge as well as the highest possible efficiency.

Range

There are seventeen different models in the range of DualPAC heat pumps, with capacities ranging from 400 kW to 2,700 kW.

Features	Benefits
Stepless, skip-free capacity control ensures that output always matches requirements	Lowest possible operating costs and maximum return on investment
Consistently high performance at both full and part load	Maximum part-load efficiency and low lifecycle costs
Unique two-stage solution featuring patented purpose-designed open inter-stage cooler	Ultra-low refrigerant charge and small footprint
Space-saving footprint, with fewer moving parts and very low vibration	Exceptional reliability and low maintenance costs
Service and maintenance based on load-based service schedules	Improved reliability, longer service intervals, minimal downtime, low cost of ownership

Water condenser inlet 50°C, outlet 70°C and evaporator inlet 16°C, outlet 10°C

Type	Heating capacity	Cooling capacity	Power consumption line	R-717 charge	Dry weight	Unit dimensions in mm			Sound pressure level	COP line heating
	kW	kW	kW	kg	kg	L	W	H	dB(A)	
DualPAC 24-W	412	312	109	52	7,450	4,500	2,450	2,150	76	3.8
DualPAC 26-W	621	472	163	60	8,300	4,600	2,450	2,200	78	3.8
DualPAC 28-W	821	626	213	71	9,700	4,900	2,450	2,200	79	3.9
DualPAC 104-W	989	749	263	78	10,350	5,760	2,450	2,200	82	3.8
DualPAC 106-W	1,484	1,123	393	103	13,200	6,470	2,450	2,350	83	3.8
DualPAC 108-W	1,971	1,487	527	119	14,300	6,570	2,550	2,350	84	3.7
DualPAC 112-W	2,041	1,545	540	132	15,850	6,750	2,600	2,350	85	3.8
DualPAC 116-W	2,213	1,661	591	140	16,750	6,750	2,600	2,350	85	3.7

Water condenser inlet 70°C, outlet 90°C and evaporator inlet 16°C, outlet 10°C

Type	Heating capacity	Cooling capacity	Power consumption line	R-717 charge	Dry weight	Unit dimensions in mm			Sound pressure level	COP line heating
	kW	kW	kW	kg	kg	L	W	H	dB(A)	
DualPAC 704-W	446	312	146	57	8,750	5,050	2,450	2,150	83	3.1
DualPAC 706-W	673	471	220	65	9,550	5,250	2,450	2,200	84	3.1
DualPAC 708-W	892	624	292	75	10,350	6,450	2,450	2,200	85	3.1
DualPAC 712-W	1,343	943	434	102	14,600	6,550	2,450	2,350	86	3.1
DualPAC 716-W	1,760	1,236	569	114	16,050	6,750	2,550	2,350	86	3.1

W = Heat pump unit water/water
Please contact your Sabroe representative for availability.

Dimensions, weight and sound pressure levels are guidelines only. Sound pressure levels measured in free field, over reflecting plane and one metre distance from the unit.

Options

- Desuperheater
- Subcooler
- Control panel mounted separately
- Shunt solution for high-temperature difference
- Customer-witnessed factory acceptance test (FAT)

All information is subject to change without notice.

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