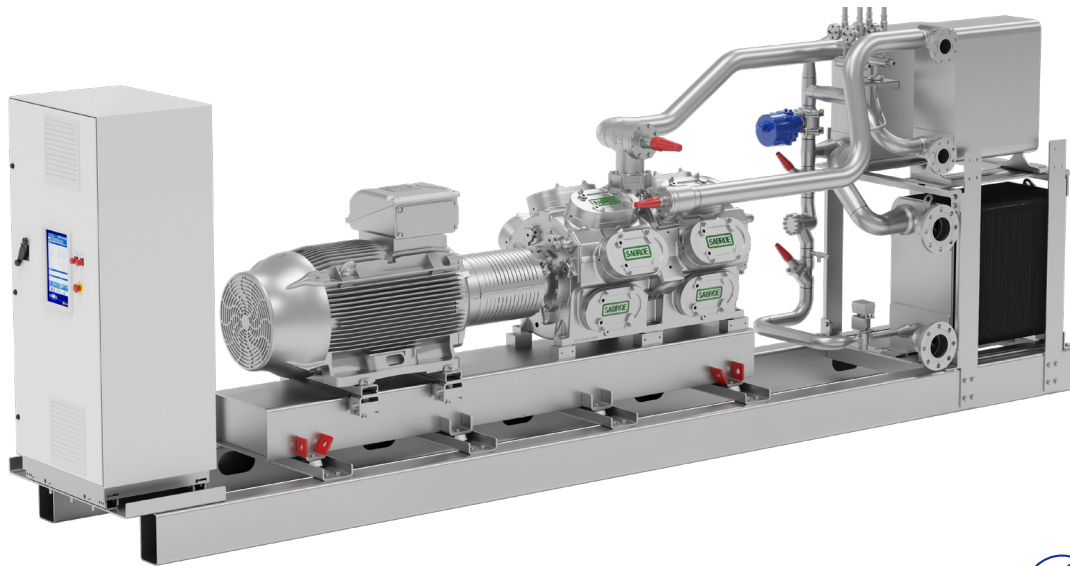




Johnson Controls Sabroe® HitemHP Heat Pumps

Hydrocarbon-based, low-pressure, compact heat pumps with a capacity range of 100 kW to 1,000 kW and temperatures up to 122°C

The Sabroe HitemHP heat pump series uses the excellent thermodynamic properties of hydrocarbon as refrigerant. You can replace traditional boilers with green refrigeration technology based on two natural refrigerants – iso-Butane and Butane – that will allow you to meet market temperature demands.

This series is suitable for indirect steam production and for industries such as food and beverage.

Based on Sabroe's renowned reciprocating compressor technology, the HitemHP Series reaches temperatures up to 122°C. You can select the right refrigerant for each application to secure the highest level of efficiency.

Each refrigerant has different maximum outlet temperatures; 107°C (isobutane) and 122°C (butane). With these refrigerants, the heat pump runs at a low-pressure configuration (below 28 barG).

Range

The HitemHP is available in an enclosure by first release. For future reference the HitemHP can be delivered as a standalone heat pump unit. The heat pump series will cover 10 standard models, with capacities ranging from 100 kW to 1,000 kW.

Features	Benefits
Factory-assembled, pre-tested package units based on Sabroe reciprocating compressors world renowned for their reliability	Easy pre-commissioning makes installation and running-in both faster and more cost-efficient
Compact single-stage configuration weighs less and takes up less space than bespoke or two-stage heat pump design	Easy to mount even in confined spaces
Based on solutions to reduce vibrations and supply a compact and flexible design	Increased reliability and uptime, resulting in low life cycle costs
Exceptional coefficient of performance (COP), outstanding part-load performance and large temperature lift	High energy-efficiency, low operating costs
Based on direct dry expansion system	Lower refrigerant charge for lower risk
Based on low-pressure refrigerant. Same platform for both refrigerants	The customer gets the lowest first cost no matter what their temperature requirements are

Water cooled condenser inlet 100°C, outlet 120°C and evaporator inlet 50°C, outlet 45°C

Type	Heating capacity	Cooling capacity	Power consumption line	Refrigerant charge	Dry weight	Unit dimensions in mm			Sound pressure level	COP line heating
	kW	kW	kW	kg	kg	L	W	H	dB(A)	
HitemHP 104 S	105	70	38	10	4820	5400	1300	2400	85.1	2.8
HitemHP 104 L	130	87	46	13	4840	5400	1300	2400	85.7	2.8
HitemHP 106 S	157	106	55	16	5005	5400	1300	2400	86.5	2.9
HitemHP 106 L	196	131	68	20	5025	5400	1300	2400	87.1	2.9
HitemHP 108 S	208	140	72	21	5220	5400	1300	2400	87.6	2.9
HitemHP 108 L	258	175	89	26	5255	5400	1300	2400	88.2	2.9
HitemHP 112 S	310	209	106	31	5880	6500	1300	2400	88.4	2.9
HitemHP 112 L	386	261	132	39	5905	6500	1300	2400	89.1	2.9
HitemHP 116 S	411	278	140	41	6130	6500	1300	2400	89.6	2.9
HitemHP 116 L	514	349	174	51	6130	6500	1300	2400	90.2	3.0

Water cooled condenser inlet 65°C, outlet 103°C and evaporator inlet 50°C, outlet 45°C

Type	Heating capacity	Cooling capacity	Power consumption line	Refrigerant charge	Dry weight	Unit dimensions in mm			Sound pressure level	COP line heating
	kW	kW	kW	kg	kg	L	W	H	dB(A)	
HitemHP 104 S	199	154	48	20	4820	5400	1300	2400	85.1	4.1
HitemHP 104 L	248	193	58	25	4840	5400	1300	2400	85.7	4.3
HitemHP 106 S	294	228	70	29	5005	5400	1300	2400	86.5	4.2
HitemHP 106 L	368	287	86	37	5025	5400	1300	2400	87.1	4.3
HitemHP 108 S	397	311	92	40	5220	5400	1300	2400	87.6	4.3
HitemHP 108 L	493	386	113	49	5255	5400	1300	2400	88.2	4.4
HitemHP 112 S	600	471	136	60	5880	6500	1300	2400	88.4	4.4
HitemHP 112 L	743	583	168	74	5905	6500	1300	2400	89.1	4.4
HitemHP 116 S	791	620	181	79	6130	6500	1300	2400	89.6	4.4
HitemHP 116 L	976	763	226	97	6130	6500	1300	2400	90.2	4.3

Capacities are nominal at 1,500 rpm

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

- Variable-speed drive (VSD)
- Control panel mounted separately
- Customer-witnessed factory acceptance test (FAT)

Type	Min./max. speed
SMC S	500-1,500 rpm
SMC L	500-1,500 rpm

All information is subject to change without notice.

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