



SabroeChill



Sabroe ChillPAC Air chillers

Air-cooled chillers for outdoor installation based on reciprocating compressors, with a capacity range between 300 and 1400 kW.

Sabroe ChillPAC Air uses ammonia as refrigerant and is a series of air-cooled chillers based on ultra-reliable Sabroe reciprocating compressors. It is a factory-assembled system for outdoor installation.

The chiller is made in a compact design, which is achieved by having an extra-compact shell-and-plate evaporator, an SMC compressor and double V-coil condensers to reduce the overall footprint. With the lowest possible refrigerant charge and superior efficiency, the chiller provides the customer with an attractive, economic and environmentally responsible air-cooled chiller product.

ChillPAC Air is available in a single or twin compressor design depending on customer requirements for capacity and/or redundancy.

ChillPAC Air offers flexible and simple on-site installation for remote or local cooling needs, without any supplementary water-cooling assembly required.

ChillPAC Air is based on the popular, proven and well-known ChillPAC family philosophy, and it shares many components and benefits with the Sabroe ChillPAC chillers.

ChillPAC Air - air-cooled ammonia chiller

Range

There are 15 different standard models in this range of air-cooled chillers, with capacities ranging from 300 to 1400 kW.

Features	Benefits
Factory-assembled, pre-tested packaged units based on Sabroe reciprocating compressors world-renowned for their reliability	Easy pre-commissioning makes installation and running-in both faster and cheaper. Factory acceptance test (FAT) available (optional)
Outdoor installation in weatherproof enclosure	Cooling capacity can be added without needing to build/rebuild a machine room
Easy to mount, install and connect	Low installation costs and rapid commissioning
Natural refrigerant R717	Future-safe refrigerant supporting sustainability and ensuring high efficiency
Exceptional COP and outstanding part-load performance	Greater cooling effect from a smaller refrigerant charge, and optimum load structure over the entire capacity range
Optional twin compressor design	Increases capacity in low temperature systems and ensures redundancy when needed



Water: inlet 12°, outlet 7°C

Type	Cooling capacity	E-motor	R717 charge	Dry weight	Unit dimensions in mm			Sound pressure level		COP shaft cooling
								Chiller	Condenser	
	kW	kW	kg	kg	L	W	H	dB(A)	dB(A)	
ChillPAC Air 104 S	264	72	43	6900*	10200	2300	3600	52	62**	4.42
ChillPAC Air 104 L	338	91	51	8200*	11500	2300	3600	53	62**	4.47
ChillPAC Air 104 E	344	91	51	8200*	11500	2300	3600	53	62**	4.35
ChillPAC Air 106 S	395	113	52	8500*	11500	2300	3600	53	62**	4.46
ChillPAC Air 106 L	508	136	62	9500*	13800	2300	3600	54	62**	4.52
ChillPAC Air 106 E	514	136	64	9700*	13800	2300	3600	55	62**	4.37
ChillPAC Air 108 S	521	136	60	9700*	13800	2300	3600	55	62**	4.45
ChillPAC Air 108 L	669	162	71	10300*	15000	2300	3600	55	62**	4.5
ChillPAC Air 108 E	681	200	76	10900*	16300	2300	3600	56	62**	4.36
ChillPAC Air 112 S	782	200	88	12400*	17500	2300	3600	56	62**	4.5
ChillPAC Air 112 L	1003	245	101	13600*	20000	2300	3600	57	62**	4.53
ChillPAC Air 112 E	1024	290	108	14600*	21000	2300	3600	57	62**	4.4
ChillPAC Air 116 S	1033	303	106	14800*	21000	2300	3600	57	62**	4.48
ChillPAC Air 116 L	1322	347	***	***	***	***	***	58	62**	4.5
ChillPAC Air 116 E	1339	350	***	***	***	***	***	58	62**	4.34

Dimensions, weight and sound pressure levels are guidelines only.

Options

- Single or twin compressor design
- Low-noise condenser
- Condenser with water spray system
- Condenser with adiabatic pad system
- Condenser base frame
- Variable-speed drive (VSD) for optimum COP
- Winter packages for low ambient temperature locations
- Customer-witnessed factory acceptance test (FAT)
- Special requirements on request

* Without condenser base frame

** 55 dB option is also available

*** On request, depending on condenser configuration

Sound pressure levels measured in free field. All sound measuring has been carried out according to ISO 9614-2 at a distance of 10 m.

Capacities are nominal and based on water temperature 12/7°C and ambient temperature 35°C

Capacities are nominal at 1800 rpm (E models: 1500 rpm)

Our products within the scope of eco-design, implemented according to regulation No 2015/1095 for low (-25°C) and medium (-8°C) temperatures and No 2016/2281 for high temperatures (+7°C), are in compliance. The harmonised standards EN 14511 series and EN 14825 have been used for testing and calculation. Value tolerances for selection tools comply with EN 12900.

All information is subject to change without notice.

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