



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.

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.

* 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.

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

All information is subject to change without notice.

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PUBL-5996 12.2021