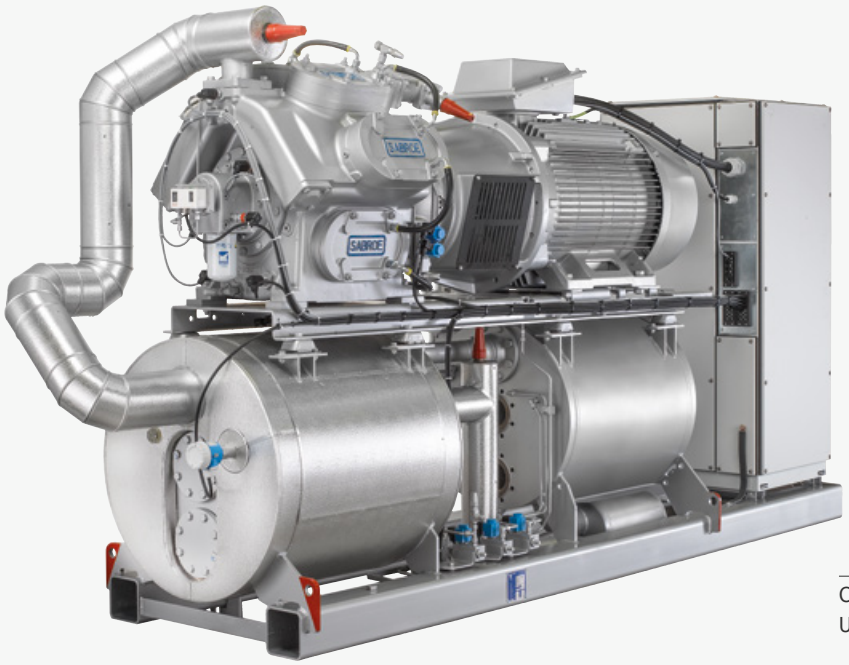
SabroeChill



ChillPAC 108 with VSD panel and UniSAB as standard

Sabroe ChillPAC chillers

Extremely compact packaged ammonia chillers based on reciprocating compressors, with a 60–1,400 kW capacity range

ChillPAC ammonia-based chillers feature an ultra-compact format so narrow that they can even pass through a normal doorway. This is achieved by having an extra-compact shell-and-plate evaporator/condenser, oil separator, and control system all built in and fully integrated into a unique vibration-resistant design.

This means ChillPAC units provide exceptional refrigeration capacity – taking full advantage of the many different models of ultra-reliable Sabroe reciprocating compressors – while only taking up a minimum of space. This makes ChillPAC units ideal in installations where space is limited, and where there are restrictions on the refrigerant charge used.

ChillPAC chillers are most cost-effective when fitted with a variable-speed drive (VSD) that makes it easy to deal with changing circumstances and different operating requirements.

Range

There are 21 different models in the standard ChillPAC range, with capacities ranging from 60 kW to 1,400 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)
Exceptionally compact design and fully integrated configuration result in less than half the footprint of bespoke chiller designs	Major savings on both weight and space, resulting in lower installation costs. Much less need for expensive separate machinery rooms
Indirect cooling and uncomplicated flooded evaporating system, using ammonia (R717) only	Greater safety and outstanding reliability
Exceptional COP and outstanding part-load performance	Greater cooling effect from a smaller refrigerant charge, and optimum load structure over the entire capacity range
Refrigerant charge 50% smaller than conventional chillers, because of special condenser/evaporator design	Higher output per unit kW/kg refrigerant, lower unit cost and lower installation costs

Options

- Variable-speed drive (VSD)
- Soft-starter or Y/D starter
- Desuperheater
- Subcooler
- External condenser
- Control panel mounted separately
- S and L models: 1800 rpm at 60 Hz or VSD
- Customer-witnessed factory acceptance test (FAT)
- Heater package for low-temperature heat pump operation
- Shunt solution for high-temperature difference
- Enclosure for outdoor installation

Water: inlet 12 °C, outlet 7 °C

Type	Cooling capacity	E-motor	R717 charge	Dry weight	Unit dimensions in mm			Sound pressure level	COP shaft cooling
	kW	kW	kg	kg	L	W	H	dB(A)	
ChillPAC 24 A	116	24	10	2000	2900	1000	2000	72	5.6
ChillPAC 34 A	137	30	10	2000	2900	1000	2000	72	5.6
ChillPAC 26 A	172	37	12	2050	2900	1000	2000	72	5.4
ChillPAC 36 A	200	45	13	2100	2900	1000	2000	73	5.3
ChillPAC 28 A	228	47	14	2150	2900	1000	2000	73	5.3
ChillPAC 38 A	268	61	16	2900	2900	1000	2000	74	5.3
ChillPAC 104 S-A	273	72	15	2300	2900	1000	2000	80	5.4
ChillPAC 104 L-A	353	74	21	2410	2900	1000	2000	83	5.5
ChillPAC 104 E-A *	359	73	19	2652	2900	1000	2000	80	5.2
ChillPAC 106 S-A	421	90	20	2727	2900	1000	2000	83	5.5
ChillPAC 106 L-A	534	108	27	2950	2900	1000	2000	79	5.6
ChillPAC 106 E-A *	540	110	27	3225	3100	1000	2000	81	5.3
ChillPAC 108 S-A	555	108	28	3060	2900	1000	2000	84	5.5
ChillPAC 108 L-A	706	142	31	3526	3100	1000	2000	85	5.5
ChillPAC 108 E-A *	719	164	34	2880	3300	1000	2000	84	5.3
ChillPAC 112 S-A	835	163	40	4315	4000	1000	2200	86	5.6
ChillPAC 112 L-A	1056	204	46	4738	4500	1000	2200	86	5.6
ChillPAC 112 E-A *	1074	222	50	5196	4600	1000	2200	84	5.3
ChillPAC 116 S-A	1109	222	51	5044	4500	1000	2200	86	5.6
ChillPAC 116 L-A	1405	303	53	5556	4700	1000	2200	87	5.6
ChillPAC 116 E-A *	1422	290	53	5878	5000	1000	2200	85	5.3

Ethylene glycol 30%: inlet -2 °C, outlet -8 °C

Type	Cooling capacity	E-motor	R717 charge	Dry weight	Unit dimensions in mm			Sound pressure level	COP shaft cooling
	kW	kW	kg	kg	L	W	H	dB(A)	
ChillPAC 24 C	59	19	10	2000	2900	1000	2000	73	3.4
ChillPAC 34 C	69	24	10	2000	2900	1000	2000	73	3.3
ChillPAC 26 C	86	30	10	2000	2900	1000	2000	73	3.3
ChillPAC 36 C	100	37	10	2050	2900	1000	2000	73	3.2
ChillPAC 28 C	113	39	11	2100	2900	1000	2000	74	3.2
ChillPAC 38 C	131	45	12	2250	2900	1000	2000	74	3.2
ChillPAC 104 S-C	139	45	13	2253	2900	1000	2000	78	3.3
ChillPAC 104 L-C	179	61	15	2378	2900	1000	2000	79	3.3
ChillPAC 104 E-C *	183	61	15	2586	2900	1000	2000	79	3.3
ChillPAC 106 S-C	205	66	16	2505	2900	1000	2000	80	3.3
ChillPAC 106 L-C	264	90	20	2701	2900	1000	2000	80	3.3
ChillPAC 106 E-C *	274	90	22	2866	2900	1000	2000	80	3.3
ChillPAC 108 S-C	272	90	22	2766	2900	1000	2000	82	3.3
ChillPAC 108 L-C	355	117	26	3091	3100	1000	2000	82	3.3
ChillPAC 108 E-C *	363	117	26	3523	3300	1000	2000	82	3.3
ChillPAC 112 S-C	406	131	32	3696	3800	1000	2200	83	3.3
ChillPAC 112 L-C	527	177	37	4290	4200	1000	2200	83	3.3
ChillPAC 112 E-C *	545	174	38	4733	4300	1000	2200	83	3.3
ChillPAC 116 S-C	537	177	38	4390	4200	1000	2200	83	3.3
ChillPAC 116 L-C	702	222	47	4898	4300	1000	2200	83	3.4
ChillPAC 116 E-C *	729	264	46	5322	4300	1000	2200	83	3.3

Condenser: water inlet 30°C, outlet 35°C.
The above data are only valid for the stated temperatures and operating conditions.

Capacities are nominal at 1800 rpm.
*Capacities are nominal at 1500 rpm.

CMO and SMC S and L models,
60 Hz or VSD operation possible.

Sound pressure levels measured in free field, over reflecting plane and one metre distance from the unit.

Dimensions, weight and sound pressure levels are guidelines only.

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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PUBL-5645 02.2022

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