SINGLE
Cooling systems with integrated cooling circuit

Chill Advanced

Cooling systems of the Chill Advanced product family are suitable for industrial applications that require liquid cooling. Equipped with their own cooling circuit and a medium-level cooling capacity range from 6 kW up to 70 kW, they are suitable for all purposes and numerous applications across all industries. Maximum quality and process reliability distinguish the open-circuit, contamination-free systems which can be adapted for special requirements and operating conditions with numerous hydraulic, electric and control options.

Standard equipment

General

- Rugged, powder-coated sheet steel housing
- High-quality materials and components
- Suitable for indoor operation
- Air-cooled or water-cooled condensers

Hydraulics

- Nominal capacity at 10 °C water temperature and ambient temperature of 32 °C
- Refrigerant R134a or R404A, optional R507 for low fluid-temperature applications

Electrical and control equipment

- Micro-processor controller with control accuracy of up to ±1K
- Switch box to IP54
- Capacity control

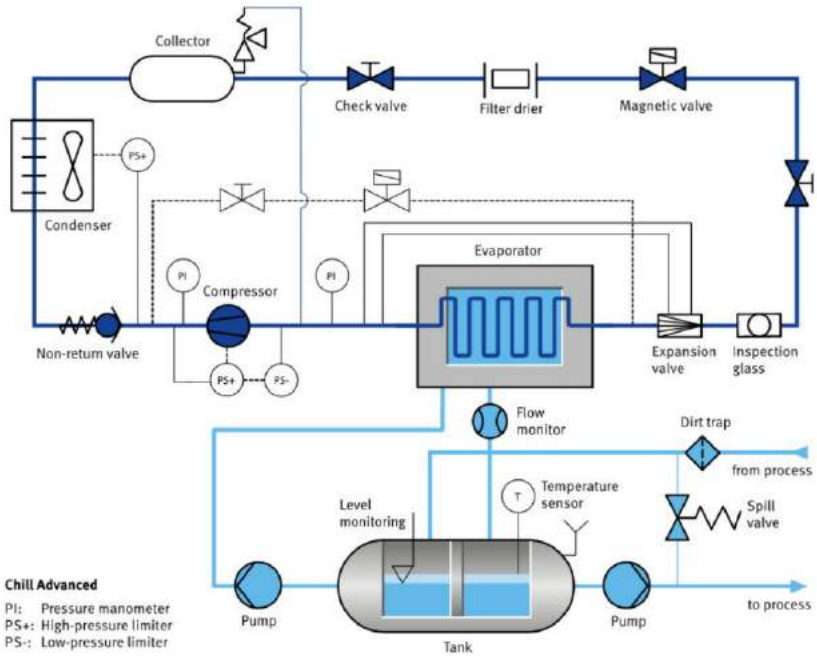
Options

- SCT controller with 7" touch screen
- Equipment for extreme ambient temperatures
- Equipment for extreme fluid temperatures of -50 °C
- Split construction with external condenser
- Pressure gauging
- Frequency control of installed cold compressors for optimum capacity and energy optimization
- Flow rate metering by means of differential pressure or without moving components
- Volume-flow control
- Additional heater for extended temperature range
- High-pressure pumps
- Tank pump units with free cooling systems with or without glycol separation
- Connection for various analogue and digital electric interfaces
- Virtually unlimited hydraulic and electric options

Chill Advanced Plus

- Heater for maximum fluid temperatures of up to 180 °C
- Optional flow and pressure metering and SPS control

Optional SCT controller with 7" touch screen



Chill Advanced

PI: Pressure manometer
PS+: High-pressure limiter
PS-: Low-pressure limiter

Chill Advanced										
Structural units		**Chill Advanced 6**	**Chill Advanced 9**	**Chill Advanced 14**	**Chill , Advanced 20**	**Chill Advanced 25**	**Chill Advanced 30**	**Chill Advanced 40**	**Chill Advanced 60**	**Chill Advanced 70**
Refrigerant		R 134a	R 134a	R 404A	R 404A	R 404A	R 404A	R 404A	R 404A	R 404A
Cooling capacity *(10 °C water temperature)*	kW	6	9	14	20	25	30	40	60	70
Max. flow rate	l/min	65/75*	65/75*	150	150	150	240	240	400	400
Max. pressure *(max. values of the characteristic)*	bar	4.7/5.9*	4.7/5.9*	4/7.5*	4/7.5*	4/7.5*	4.4/6.7*	4.4/6.2*	4.1/7.3*	4.1/7.3*
Connections circulating media		G 3/4"FPT	G 3/4"FPT	G 1_1/4"	G 1_1/4"	G 1_1/4"	G 1_1/2"	G 1_1/2"	G 2"	G 2"
Air flow-rate *(with air-cooled condenser)*	m³/h	3600	4000	5800	7500	8000	13000	16500	26900	42000
Cooling water flow-rate *(with water-cooled condenser)*	l/min	25	32	45	50	67	110	167	200	250
Connections cooling water	FPT	G 3/4"	G 3/4"	G 1"	G 1"	G 1"	G 1_1/2"	G 1_1/2"	G 1_1/2"	G 1_1/2"
Temperature range	°C	-5...+30	-5...+30	-10...+20	-10...+20	-10...+20	-10...+20	-10...+20	-10...+20	-10...+20
Dimensions *(without connections)* L	mm	820	1020	1450	1450	1450	2015	2015	2415/2040	2415/2150
W	mm	640	640	750	750	750	850	850	1300/1210	1300
air-cooled H	mm	1260	1460	1680	1680	1680	1920	2015	2050	2050
water-cooled H	mm	1260	1460	1550	1550	1550	1565	1565	1765	1800
Approximate weight	kg	195	270	400	470	480	750/600	850/750	1400/850	1400/1050

** Special pump*

Subject to technical changes