

6,5-212  
kWPROCESS WATER  
CHILLERS

## What are process water chillers?

Process water chillers meet the needs of many applications by cooling the process liquid, with maximum quality and cleanliness, even under harsh operating conditions. Manufactured to the highest quality and safety standards, the new HCH Series chillers are reliable, compact and robust, suitable for a wide range of industrial applications. In addition to easy operation, HCH Series chillers provide accurate control of water temperature.



## Key Features

- Closed circuit
- Refrigerant control management
- EC fan motor, fan speed control
- Microchannel aluminium condenser
- Hermetic scroll compressor
- Thermostatic expansion valve
- R410a (R454b Optional) refrigerant
- High and low pressure gauge
- Process water pressure gauge
- Stainless steel water pump and brazed plate heat exchanger
- Storage tank
- Low ambient temperature option
- High corrosive environments option
- Heater for storage tank option



## Advantages of Closed Circuit

- Highly accurate water temperature control regardless of external conditions
- Maintain consistent operating conditions by responding immediately to sudden changes
- Continuous use of the same water
- Reduced maintenance and downtime costs
- High ambient temperature operating conditions



## Water Circuit - Main Components

- **Expansion Tank:** An expansion tank is used on the water storage tank so that the pressure does not increase.
- **Integrated Cold Storage Tank:** The cold water storage tank is heat insulated and made of carbon steel material.
- **Integrated Water Pump - 3 bar:** The high capacity centrifugal pump has a stainless steel housing.
- **Large Water Storage Tank:** The heat exchanger is located just behind the water outlet to limit temperature fluctuations during sudden load changes. The large dimensions of the tank ensure constant water temperatures.

Model	Nominal Cooling Capacity		Fan Airflow* (m <sup>3</sup> /min)	Pump Pressure* (bar)	Pump Input Power* (kW)	Voltage (V/ph/Hz)	Dimensions (mm)			Refrigerant Type
	kW	kcal/h					Length	Width	Height	
HCH 7	6,5	5615	40	3,19	0,5	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
HCH 9	8,5	7326	40	3,29	0,5	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
HCH 15	15	12898	77	3,6	0,75	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
HCH 20	19,6	16810	77	3,56	1,1	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
HCH 29	29	24936	133	3,19	1,1	400V / 3 Ph / 50 Hz	1719	887	1723	R410A or R454B
HCH 34	33,8	29063	133	3,66	1,5	400V / 3 Ph / 50 Hz	1719	887	1723	R410A or R454B
HCH 41	40,5	34824	150	3,45	1,5	400V / 3 Ph / 50 Hz	1469	887	1618	R410A or R454B
HCH 50	49,8	42820	247	3,14	1,5	400V / 3 Ph / 50 Hz	1719	887	1763	R410A or R454B
HCH 65	64,5	55460	247	3,49	2,2	400V / 3 Ph / 50 Hz	1719	887	1763	R410A or R454B
HCH 80	80,2	68960	333	3,21	2,2	400V / 3 Ph / 50 Hz	2045	977	1885	R410A or R454B
HCH 92	92,1	79192	333	3,02	2,2	400V / 3 Ph / 50 Hz	2045	977	1885	R410A or R454B
HCH 100	99,6	85641	383	3,4	3	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 114	114,3	98280	400	3,07	3	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 129	129	110920	533	3,28	4	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 145	144,7	124420	533	3,06	4	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 160	160,4	137919	600	2,92	4	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 186	186,2	160103	717	3,35	5,5	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
HCH 212	212	182287	800	3,05	5,5	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B

\*Evaporator water inlet/outlet temperature 20/15°C, external air temperature 25°C