

JOURNEY
OF
AIR

40-800
m³/min

6,5-212
kW



PROCESS 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 DCH Series chillers are reliable, compact and robust, suitable for a wide range of industrial applications. In addition to easy operation, DCH 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* (m³/min)	Pump Pressure* (bar)	Pump Input Power* (kW)	Voltage (V/ph/Hz)	Dimensions (mm)			Refrigerant Type
	kW	kcal/h					Length	Width	Height	
DCH 7	6,5	5615	40	3,19	0,5	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
DCH 9	8,5	7326	40	3,29	0,5	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
DCH 15	15	12898	77	3,6	0,75	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
DCH 20	19,6	16810	77	3,56	1,1	230 V / 1 Ph / 50 Hz	908	806	1578	R410A or R454B
DCH 29	29	24936	133	3,19	1,1	400V / 3 Ph / 50 Hz	1719	887	1723	R410A or R454B
DCH 34	33,8	29063	133	3,66	1,5	400V / 3 Ph / 50 Hz	1719	887	1723	R410A or R454B
DCH 41	40,5	34824	150	3,45	1,5	400V / 3 Ph / 50 Hz	1469	887	1618	R410A or R454B
DCH 50	49,8	42820	247	3,14	1,5	400V / 3 Ph / 50 Hz	1719	887	1763	R410A or R454B
DCH 65	64,5	55460	247	3,49	2,2	400V / 3 Ph / 50 Hz	1719	887	1763	R410A or R454B
DCH 80	80,2	68960	333	3,21	2,2	400V / 3 Ph / 50 Hz	2045	977	1885	R410A or R454B
DCH 92	92,1	79192	333	3,02	2,2	400V / 3 Ph / 50 Hz	2045	977	1885	R410A or R454B
DCH 100	99,6	85641	383	3,4	3	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
DCH 114	114,3	98280	400	3,07	3	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
DCH 129	129	110920	533	3,28	4	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
DCH 145	144,7	124420	533	3,06	4	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
DCH 160	160,4	137919	600	2,92	4	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
DCH 186	186,2	160103	717	3,35	5,5	400V / 3 Ph / 50 Hz	2507	1301	2392	R410A or R454B
DCH 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