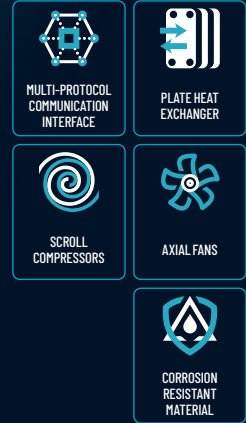


PCC

AIR-CONDENSED CHILLERS FOR INDUSTRIAL PROCESSES

8.8–141.3 kW



PCC is the HiRef range of air condensed liquid chillers designed for process applications that require **precision temperature control of the chilled water delivered to the system**. The PCC units use Scroll type compressors and braze welded plate evaporators; the hydraulic circuit can be equipped with an open or closed circuit tank, it can be supplemented with high head pumps and with a by-pass valve to meet the requirements of several industrial applications.

- Refrigerant R410A
- Electronically controlled expansion valve supplied as standard
- Up to 5 bar pump set
- Dual day/night noise emission set-point
- Optional EC electronic switching fans
- Programmable on-board microprocessor control with dedicated software
- Equipment for production of water and glycol mixtures available



Maximum efficiency at partial loads

Multi-Scroll solutions, electronically controlled expansion valves, generously-sized plate heat exchangers, software-managed integrated control of fans and circulation pumps: these key characteristics make the PCC range suitable for numerous industrial applications that require **precise control of delivered power and chilled water temperature**.



Solution designed for process applications

The PCC range also allows for the installation, directly on-board the machine, of dual impeller pumps, the special configuration of which ensures the achievement of the **highest heads to meet a broad range of process requirements**. Pumping modules with pressures up to 5 bar are available.



Accurate regulation of the outlet temperature

For applications where accurate control of the cooling capacity delivered is required, the use of a water bypass valve **ensures fine adjustment of the temperature of the chilled liquid flowing out of the unit.**



Perfect adaptability to any type of process

A water tank can be installed inside all units of the PCC range. The tanks come in two configurations:

- **with an open circuit** that allows for continuous topping up of water to make up for losses in the utility circuit.
- **with a traditional closed circuit** with expansion tank and safety valve.



Easy installation and maintenance

The choice and layout of components make for a constructively straightforward unit, **with installation and maintenance tasks made easier.**



PCC		010	015	020	025	030	035	040	045	050	055	062	072	082	092	102	120	140	160	180	210	
Cooling: User water values 12/7°C, 35°C outside air, 40% U.R.																						
Cooling capacity	kW	8.8	13	14.6	18.8	22	26	28.9	31.9	35.9	39.1	43.1	48.9	56.2	63.7	74.3	81.6	101.1	111.9	125.2	141.3	
Total absorbed power	kW	2.6	4.1	4.8	6.4	6.8	8	9.1	10.3	12.1	13.9	13.2	15.9	18.1	20.8	23.7	27	32.6	37.2	42.2	48.6	
EER		3.37	3.14	3.04	2.95	3.24	3.25	3.16	3.09	2.96	2.81	3.28	3.08	3.11	3.07	3.14	3.02	3.1	3	2.96	2.91	
SEPR		5.71	5.51	5.6	5.05	5.84	6	5.89	5.56	5.37	5.05	6.95	6.59	5.57	6.35	6.27	6.04	5.39	5.29	5.12	5.01	
Sound power	dB(A)	69	74	73	73	75	76	76	76	77	80	74	75	83	77	78	82	79	80	80	81	
Sound power [Low noise]	dB(A)	66	71	70	70	72	73	73	73	74	77	71	72	80	74	75	79	76	77	77	78	
Number of circuits		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	
Number of compressors		1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	4	4	4	4	
Dimensions [LxHxD]	mm	1500x1370x650					1661x1468x914					2090x1730x1170				2440x1730x1170			3530x1730x1140			

Also available with 60 Hz power supply