



## PC series.

Cooling capacities 50 kW up to 230 kW.

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**Solid.** Safe operation is guaranteed by the right selection and the use of components from renowned manufacturers.

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**Reliable.** All models comply with the currently valid EC directives, standards and regulations: ISO 9001, EN 378, VDE and BGV.

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**Energy-saving.** The optional energy-saving system (ESS module) provides additional energy and cost savings at low ambient temperatures.

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**Durable.** Riedel Cooling service does not end with the delivery and commissioning of your system. Through adapted maintenance, your system will continue to perform its task reliably and trouble-free for years to come.

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## PC series. Technical Data.

Platform-based standard models for precise, reliable cooling. All cooling block systems are compact, factory-assembled liquid cooling units suitable for a wide range of industrial applications.

Riedel Cooling chiller type	PC502	PC802	PC1122	PC1602
Net cooling capacity <sup>1</sup>	51.0 kW (50 Hz) 50.4 kW (60 Hz)	76.0 kW (50 Hz) 75.6 kW (60 Hz)	105.0 kW (50 Hz) 107.7 kW (60 Hz)	155.0 kW (50 Hz) 155.9 kW (60 Hz)
max. power consumption with 3 bar pump	20.5 kW (50 Hz) 23.0 kW (60 Hz)	31.8 kW (50 Hz) 35.5 kW (60 Hz)	44.0 kW (50 Hz) 48.0 kW (60 Hz)	53.8 kW (50 Hz) 63.0 kW (60 Hz)
Refrigerant	R410A			
Ambient temperature <sup>2</sup>	- 20 to + 45 °C		- 20 to + 43 °C	- 20 to + 43 °C
Refrigerant outlet temperature <sup>3</sup>	+ 5 to + 25 °C			
Setpoint tolerance	± 1 K / 0,5 K <sup>4</sup>			
Weight (net)	515 kg	650 kg	830 kg	1,330 kg
Tank capacity	150 l	200 l	300 l	400 l
Free pump pressure <sup>5</sup>	3 bar			
Nominal volume flow	8.0 m <sup>3</sup> /h	12 m <sup>3</sup> /h	16.8 m <sup>3</sup> /h	25.0 m <sup>3</sup> /h
Minimum volume flow	4.8 m <sup>3</sup> /h	7.2 m <sup>3</sup> /h	10.1 m <sup>3</sup> /h	15.0 m <sup>3</sup> /h
Air volume flow	15,000 m <sup>3</sup> /h	17,000 m <sup>3</sup> /h	25,000 m <sup>3</sup> /h	34,000 m <sup>3</sup> /h
Sound pressure level <sup>6</sup>	61 dB(A)	62 dB(A)	63 dB(A)	65 dB(A)
Power supply <sup>7</sup>	3x400 V / 50 Hz or 3x460 V / 60 Hz			
Refrigerant carrier connections	1 1/2" Rp	2" Rp		DN65
Housing	G2	G3	G4	G5
Dimensions (width x height x depth in mm)	874 x 1,755 x 1,541	874 x 2,005 x 1,874	874 x 2,005 x 2,200	1.285 x 2,070 x 2,930

<sup>1</sup> Net cooling capacity without considering the pump capacity at the design point (refrigerant outlet temperature 20 °C / ambient temperature 32 °C);

<sup>2</sup> Standard version: Ambient temperature range + 5°C to + 43°C

<sup>3</sup> Deviating flow temperatures on request

<sup>4</sup> Special specification required

<sup>5</sup> Available pump pressure at nominal flow rate

<sup>6</sup> At 5 m distance

<sup>7</sup> Voltage difference +/-10 %

Riedel Kooling chiller type	PC1801	PC2001	PC2241
Net cooling capacity <sup>1</sup>	183.0 kW (50 Hz) 192.0 kW (60 Hz)	207.0 kW (50 Hz) 222.0 kW (60 Hz)	226.0 kW (50 Hz) 243.0 kW (60 Hz)
max. power consumption with 3 bar pump	68.2 kW (50 Hz) 78.8 kW (60 Hz)	79.4 kW (50 Hz) 85.7 kW (60 Hz)	86.9 kW (50 Hz) 93.8 kW (60 Hz)
Refrigerant	R407C		
Ambient temperature <sup>2</sup>	- 20 to + 36 °C		
Refrigerant outlet temperature <sup>3</sup>	+ 12 to + 20 °C		
Setpoint tolerance	±2 K / ± 1 K / 0,5 K <sup>4</sup>		
Weight (net)	1,780 kg	1,910 kg	2,400 kg
Tank capacity	600 l / 800 l		
Free pump pressure <sup>5</sup>	3 bar		
Nominal volume flow	28.0 m <sup>3</sup> /h	32 m <sup>3</sup> /h	35 m <sup>3</sup> /h
Minimum volume flow	16.8 m <sup>3</sup> /h	19.2 m <sup>3</sup> /h	21.0 m <sup>3</sup> /h
Air volume flow	46,800 m <sup>3</sup> /h (50 Hz) 54,600 m <sup>3</sup> /h (60 Hz)	45,300 m <sup>3</sup> /h (50 Hz) 53,000 m <sup>3</sup> /h (60 Hz)	51,200 m <sup>3</sup> /h (50 Hz) 58,900 m <sup>3</sup> /h (60 Hz)
Sound pressure level <sup>6</sup>	67 dB(A) (50 Hz) 70 dB(A) (60 Hz)		68 dB(A) (50 Hz) 71 dB(A) (60 Hz)
Power supply <sup>7</sup>	3x400 V / 50 Hz or 3x460 V / 60 Hz		
Refrigerant carrier connections	DN80		
Housing	G7		G8
Dimensions (width x height x depth in mm)	1,285 x 2,070 x 4,330		1,285 x 2,070 x 5,042

## Exemplary equipment options at a glance.

- + Outdoor installation
- + Continuously variable speed control for fans  
(Standard: PC502 – PC1602)
- + Dirt filter
- + Isolation valves (check valves / solenoid valves)
- + Tank heating for temperature control
- + Stainless steel water circuit, or PVC for deionised water
- + Water-cooled design
- + Liquefier protection screen, air filter mat
- + Air filter mat monitoring
- + Reduced noise design
- + Overflow valve
- + Fixed bypass
- + Flow monitors
- + Automatic water refill
- + Pump switch-off
- + Flow rate monitoring
- + Guide value monitoring
- + Two-circuit system
- + Special voltages and frequencies
- + Digital thermometer
- + Limit value monitoring
- + Differential temperature regulation
- + Control cabinet fan
- + Bus connection
- + Individual fault display

<sup>1</sup> Net cooling capacity without considering the pump capacity at the design point (refrigerant outlet temperature 20 °C / ambient temperature 32 °C);

<sup>2</sup> Standard version: Ambient temperature range + 5°C to + 43°C

<sup>3</sup> Deviating flow temperatures on request

<sup>4</sup> Special specification required

<sup>5</sup> Available pump pressure at nominal flow rate

<sup>6</sup> At 5 m distance

<sup>7</sup> Voltage difference +/-10 %

**Simply the best on the market.**  
And that's true of our service too.



The Riedel Cooling Service leaves nothing to be desired and guarantees you, the operator, optimum chiller performance. The Riedel Cooling service team is available around the clock via the 24/7 hotline and offers you individual support in all phases of the product life cycle.



**Start-Up.**  
Commissioning and instruction on site by competent service technicians.



**Preventive maintenance.**  
Regular maintenance with statutory leakage test. Increased operational reliability via preventative performance checks on your system.



**Highly qualified service team.**  
Dedicated factory after-sales service with short response times and extremely high first fix rate.



**Spare parts management.**  
Original spare parts with manufacturer quality and high stock availability.



**24/7 service hotline.**  
Service competence center with experienced refrigeration specialists for fast help with questions or problems - at any time.



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