National Lab

Recirculating Chillers ProfiCool *Genius*
Cooling Capacity 21 kW to 36 kW

Recirculating Chillers ProfiCool *Genius*

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- Plate heat exchanger as evaporator
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
  - Error messages displayed as individual codes by controller
  - Remote control
- Control cabinet with main switch
- Built-in pump (see pump characteristics)
- High and low pressure manometer
- High and low pressure switch
- Fan controlled by static pressure
- Manometer displaying coolant outlet pressure
- Housing powder-coated, colour RAL 7035 (light grey)

ProfiCool *Genius*
(with option colour RAL 7043, traffic grey B)

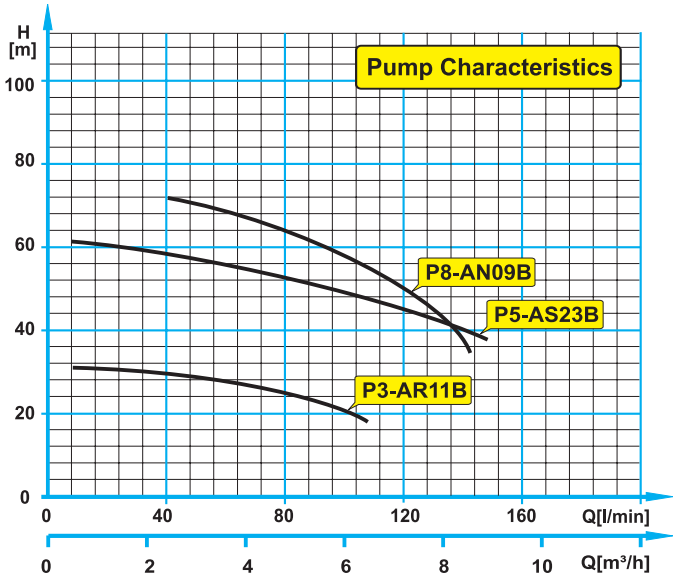
Model ProfiCool *Genius*		PCGE 250	PCGE 300	PCGE 350
Net cooling capacity at +20/+15°C	kW	22.8 / 21.3	27.8 / 26.1	35.7 / 33.3
Eff. cooling capacity at +20/+15°C	kW	22.1 / 20.6	27.1 / 25.4	35.0 / 32.7
Operating range *	°C	+5 / +25	+5 / +25	+5 / +25
Temperature constancy	K	±1.5	±1.5	±1.5
Rated coolant flow	m³/h	3.7	4.5	4.7
Pump	type	P3-AR11B	P3-AR11B	P3-AR11B
Pump pressure **	bar	2.7	2.6	2.6
Tank capacity	litres	100	100	100
Water connection	Inch	G 1" Female	G 1" Female	G 1" Female
Required flow of cooling air	m³/h	6,700	7,900	8,300
Starting current	Amps	90	133	145
Power input max.	kW	6.1	8.1	8.9
Operating voltage	volt/Hz/phase	400/50/3	400/50/3	400/50/3
Weight	kgs	240	280	295
Dimensions WxDxH	mm	760x1325x1525	760x1325x1525	760x1325x1525
Refrigerant	CFC-free	R407C	R407C	R407C

* Set temperatures <+5°C and >+25°C on request.
** Pressure at rated coolant flow.

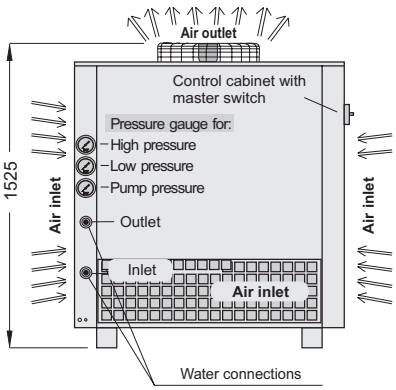
Alternative units: PCGE 190 and PCGE 430

ProfiCool *Genius* + options / accessories:	Cat. No.
ProfiCool Genius PCGE 250.01-NEB	GUPCGE0250.01-NEB
ProfiCool Genius PCGE 300.01-NEB	GUPCGE0300.01-NEB
ProfiCool Genius PCGE 350.01-NEB	GUPCGE0350.01-NEB
Pump P5-AS23B instead of P3-AR11B	MPCGE6-P5-AS23B-0350
Pump P8-AN09B instead of P3-AR11B	MPCGE6-P8-AN09B-0350
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGE6-041-0350
4 swivel castors, 2 with brakes	ZPCGE5-021-0350
Temperature constancy up to ±0.5 K	on request
Low ambient temperature kit	MPCGE7-001-0350
Export version with special voltages / frequencies	on request

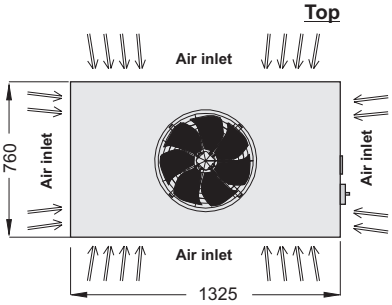
Additional options and accessories as well as pump alternatives on request.



Left side



Top



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Reg. PCGE250-350-DB-EN-1200601

Performance figures at an ambient temperature of + 32°C.

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