

### Low Temperature Recirculating Chillers ProfiCool Genius Zero

- 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 Zero with option colour RAL 7043, traffic grey B)

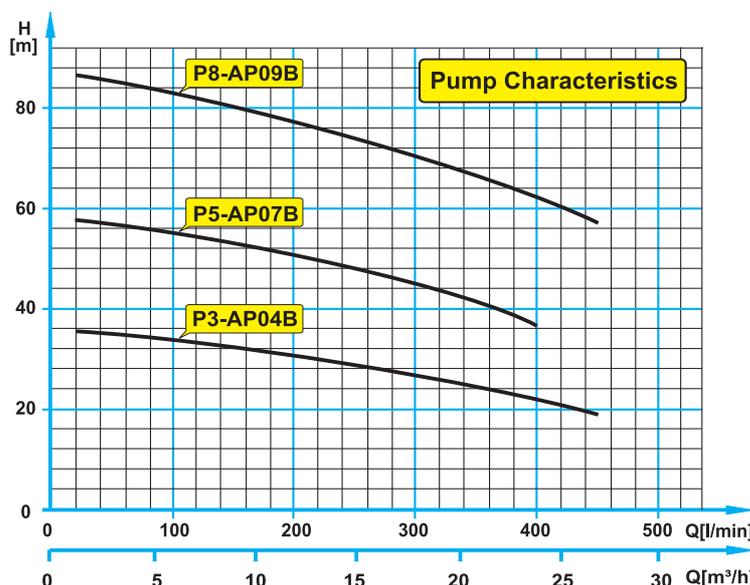
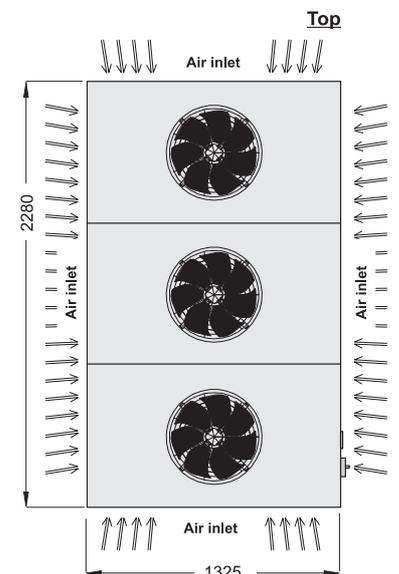
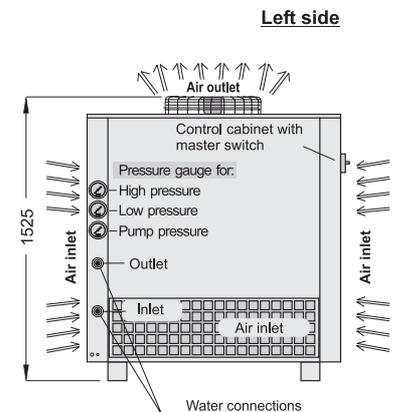
Model ProfiCool Genius Zero	PCGEZ 670
Net cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$	kW : 72.1 / 48.4
Eff. cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$	kW : 71.4 / 47.7
Operating range	$^{\circ}\text{C}$ : -15 / $\pm 0$
Temperature constancy	K : $\pm 1.5$
Rated coolant flow	$\text{m}^3/\text{h}$ : 15.5
Pump	type : P3-AP04B
Pump pressure *	bar : 2.8
Tank capacity	litres : 300
Water connection	Inch : G 1½" Female
Required flow of cooling air	$\text{m}^3/\text{h}$ : 23,700
Starting current	Amps : 181
Power input max.	kW : 29,5
Operating voltage	Volts/Hz/Phase : 400/50/3
Weight	kgs : 690
Dimensions WxDxH	mm : 2280x1325x1525
Refrigerant	CFC-free : R404A

\* Pressure at rated coolant flow.

**Alternative units:** PCGEZ 480 and PCGEZ 820

ProfiCool Genius Zero + options / accessories:	Cat. No.
ProfiCool Genius PCGEZ 670.03-NEB	GUPCGEZ670.03-NEB
Pump P5-AP07B instead of P3-AP04B	MPCGEZ6-P5-AP07B-670
Pump P8-AP09B instead of P3-AP04B	MPCGEZ6-P8-AP09B-670
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGEZ6-041-670
Temperature constancy up to $\pm 0.5$ K	on request
Low ambient temperature kit	MPCGEZ7-001-670
Export version with special voltages / frequencies	on request

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



Http://www.NationalLab.eu

National Lab GmbH  
 Grambeker Weg 157  
 D-23879 Moelln  
 Tel.: +49 45 42 / 84 91 - 10  
 Fax: +49 45 42 / 84 91 - 11  
 e-Mail: ProfiCool@NationalLab.com