

### 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 430                 | PCGE 530     | PCGE 600     |
|------------------------------------|--------------------------|--------------|--------------|
| Net cooling capacity at +20/+15°C  | kW : 41.3 / 38.7         | 50.9 / 47.7  | 57.6 / 54.0  |
| Eff. cooling capacity at +20/+15°C | kW : 40.4 / 37.8         | 49.4 / 46.2  | 56.1 / 52.5  |
| Operating range *                  | °C : +5 / +25            | +5 / +25     | +5 / +25     |
| Temperature constancy              | K : ±1.5                 | ±1.5         | ±1.5         |
| Rated coolant flow                 | m³/h : 6.7               | 8.2          | 9.3          |
| Pump                               | type : P3-AR22B          | P2-AR33B     | P2-AR33B     |
| Pump pressure **                   | bar : 2.5                | 2.4          | 2.3          |
| Tank capacity                      | litres : 200             | 200          | 200          |
| Water connection                   | Inch : G 1½" Female      | G 1½" Female | G 1½" Female |
| Required flow of cooling air       | m³/h : 15,200            | 13,400       | 13,400       |
| Starting current                   | Amps : 123               | 149          | 179          |
| Power input max.                   | kW : 10.6                | 13.1         | 15.3         |
| Operating voltage                  | volt/Hz/phase : 400/50/3 | 400/50/3     | 400/50/3     |
| Weight                             | kgs : 380                | 400          | 430          |
| Dimensions WxDxH                   | mm : < 1520x1325x1525 >  |              |              |
| Refrigerant                        | CFC-free : R407C         | R407C        | R407C        |

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

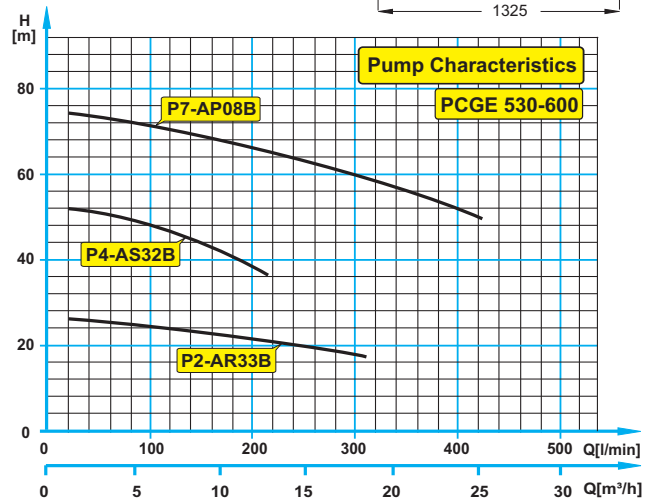
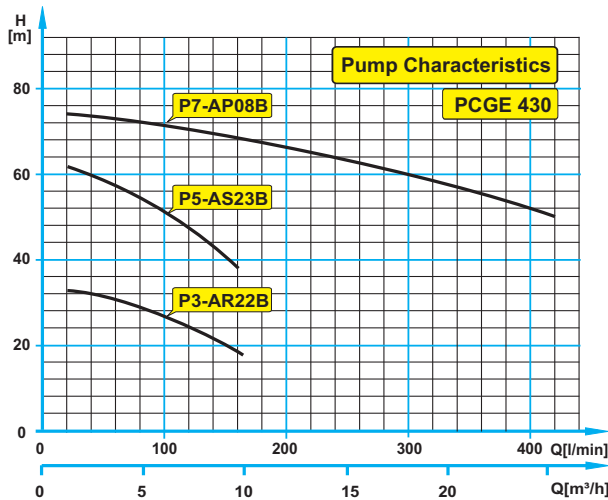
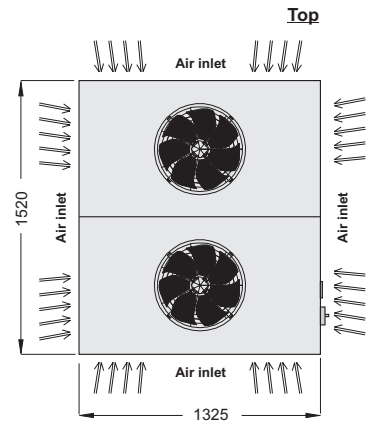
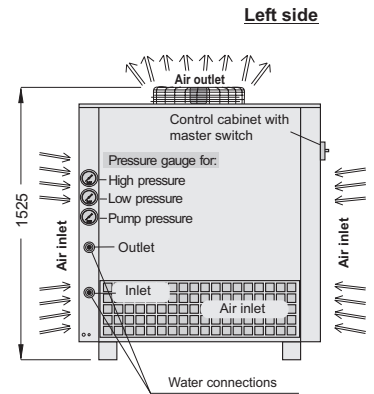
**Alternative units:** PCGE 350 and PCGE 680

### ProfiCool Genius + options / accessories:

### Cat. No.

|   |                      |
|---|----------------------|
| ProfiCool Genius PCGE 430.01-NEB                        | GUPCGE0430.01-NEB    |
| ProfiCool Genius PCGE 530.01-NEB                        | GUPCGE0530.01-NEB    |
| ProfiCool Genius PCGE 600.01-NEB                        | GUPCGE0600.01-NEB    |
| Pump P5-AS23B instead of P3-AR22B                       | MPCGE6-P5-AS23B-0430 |
| Pump P7-AP08B instead of P3-AR22B                       | MPCGE6-P7-AP08B-0430 |
| Pump P4-AS32B instead of P2-AR33B                       | MPCGE6-P4-AS32B-0600 |
| Pump P7-AP08B instead of P2-AR33B                       | MPCGE6-P7-AP08B-0600 |
| Continuous-flow system without tank and/or without pump | on request           |
| Overflow by-pass valve                                  | ZPCGE6-041-0600      |
| 4 swivel castors, 2 with brakes                         | ZPCGE5-021-0600      |
| Temperature constancy up to ±0.5 K                      | on request           |
| Low ambient temperature kit                             | MPCGE7-001-0600      |
| Export version with special voltages / frequencies      | on request           |

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



Http://www.NationalLab.eu



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