



Chillers for Water and Oil

- ▶ Water Recirculating Chillers
- ▶ Oil Recirculating Chillers
- ▶ Water-to-Water Heat Exchanger Systems
- ▶ Air-to-Water Heat Exchanger Systems
- ▶ Laboratory Recirculating Chillers
- ▶ Accessories

2019

www.NationalLab.eu

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Chillers for Water and Oil

6A

Recirculating Chillers

Models: ProfiCool *Genius*, ProfiCool *Genius Zero*,
ProfiCool *Novus*, ProfiCool *Primus*, ProfiCool *Modulus*,
ProfiCool *Exactus*.

Cooling capacity: 400 W to 351 kW

6B

Small Capacity Recirculating Chillers

Models: ProfiCool *Minimus*, ProfiCool *Filius*.

Cooling capacity: 300 W to 2,5 kW

6C

Oil Recirculating Chillers

Model: OilCool *Genius*.

Cooling capacity: 3,7 kW to 14 kW

6D

Water-to-Water Heat Exchanger System

Model: FlowCool *Unicus*.

Cooling capacity: 1,3 kW to 150 kW

6E

Air-to-Water Heat Exchanger System

Model: AirCool *Ventus*.

Cooling capacity: 800 W to 696 kW

6F

Accessories

adaptor, tubing made of polyamide, insulation,
flow regulator, telephone dialler ProfiCaller

ProfiCool Genius

Recirculating Chillers



Compact quality

in series

ProfiCool is a range of ready-to-install, compact units with integrated refrigerant and cooling water circuits and electrical systems.

The ProfiCool Genius model range has a modular design so that it can also be produced cost-effectively in series production. High-tech series production guarantees the highest possible quality standard while also maintaining competitive prices.

Quality –

made in Germany

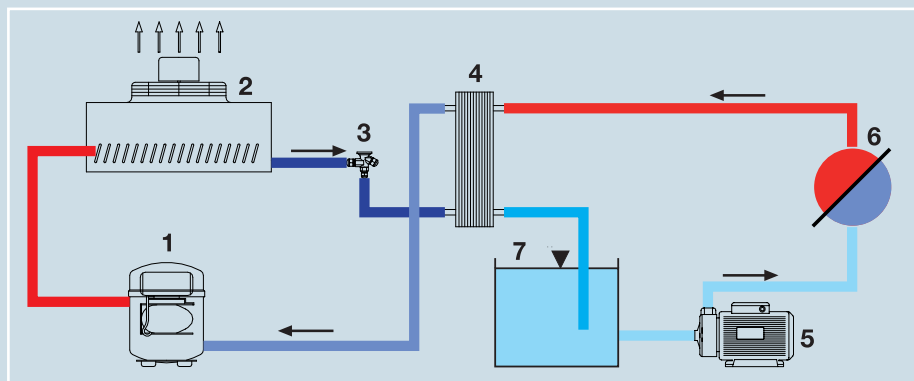
Every ProfiCool unit is made exclusively with components from well-known quality manufacturers. This avoids expensive experiments and guarantees a high level of operating safety, even during continuous operation over many years.

We are convinced that quality prevails in the long run. In this respect, we feel ourselves committed to the image of outstanding quality associated with German products on the domestic and international markets. The large number of regular customers who have been with us for many years confirms this approach.



Individual colour preferences from machinery and plant manufacturers are also implemented for small production quantities.

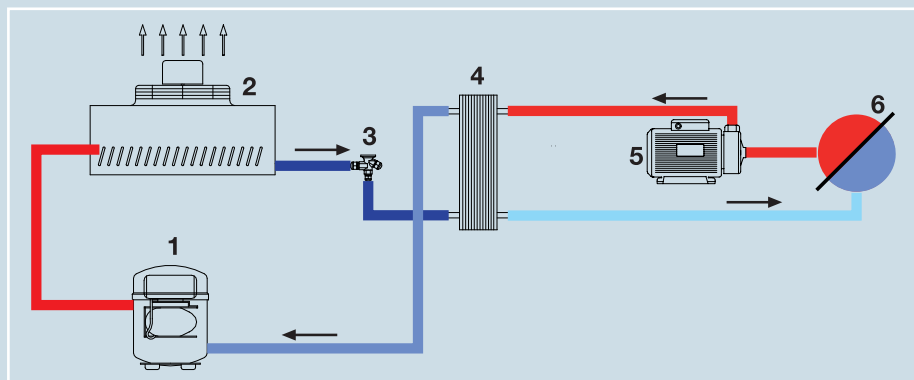
Two different systems



Single – circuit system

With various pump and tank options gives an accuracy of up to ± 0.5 K.

- | | |
|---------------------|-----------------|
| 1 = compressor | 2 = condenser |
| 3 = expansion valve | 4 = evaporator |
| 5 = pump | 6 = application |
| 7 = tank | |



Continuous flow system

Without built-in tank for cooling an existing external water supply. The customers existing pump may also be used.

- | | |
|---------------------|-----------------|
| 1 = compressor | 2 = condenser |
| 3 = expansion valve | 4 = evaporator |
| 5 = pump | 6 = application |

Recirculating Chillers ProfiCool Genius

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- Remote control
- On/off switch
- Manometer displaying coolant outlet pressure
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7043 (traffic grey B)



ProfiCool Genius
(with option castors)

Model ProfiCool Genius	PCGE 11	PCGE 21	PCGE 25	PCGE 28
Net cooling capacity at +20/+15°C	kW : 1.1 / 1.0	2.0 / 1.9	2.5 / 2.3	3.5 / 3.2
Eff. cooling capacity at +20/+15°C	kW : 0.7 / 0.6	1.6 / 1.5	2.1 / 1.9	3.1 / 2.8
Operating range *	°C : +5 / +25	+5 / +25	+5 / +25	+5 / +25
Temperature constancy	K : ±1.5	±1.5	±1.5	±1.5
Rated coolant flow	m³/h : 0.6	0.6	0.6	0.7
Pump	type : P3-BR11A	P3-BR11A	P3-BR11A	P3-BR11x
Pump pressure **	bar : 2.9	2.9	2.9	2.8
Tank capacity	litres : 10	10	10	10
Water connection	Inch : G ½" Female	G ½" Female	G ½" Female	G ½" Female
Required flow of cooling air	m³/h : 910	825	990	1,310
Starting current 230V/400V	Amps : 17 / —	29 / —	35 / —	32 / 16
Power input max. 230V/400V	kW : 1.0 / —	1.2 / —	1.4 / —	1.5 / 1.6
Operating voltage	Models -NEA : 230/50/1	230/50/1	230/50/1	230/50/1
volt/Hz/phase	Models -NEB : —	—	—	400/50/3+N
Weight	kgs : 52	55	58	77
Dimensions WxDxH	mm : 445x575x540	445x575x540	445x575x540	445x575x640
Refrigerant	CFC-free : R134a	R134a	R134a	R134a

* Set temperatures <+5°C and >+25°C on request.

** Pressure at rated coolant flow.

Alternative units: PCGE 31, ProfiCool Novus series

ProfiCool Genius + options / accessories:

Cat. No.

ProfiCool Genius PCGE 11.02-NEA
ProfiCool Genius PCGE 21.02-NEA
ProfiCool Genius PCGE 25.02-NEA
ProfiCool Genius PCGE 28.02-NEA
ProfiCool Genius PCGE 28.02-NEB

GUPCGE0011.02-NEA
GUPCGE0021.02-NEA
GUPCGE0025.02-NEA
GUPCGE0028.02-NEA
GUPCGE0028.02-NEB

Pump P6-BR12 instead of P3-BR11

MPCGE6-P6-BR12x-0028

Pump P7-BR17 instead of P3-BR11

MPCGE6-P7-BR17x-0028

Continuous-flow system without tank and/or without pump

on request

Overflow by-pass valve

ZPCGE6-041-0028

4 swivel castors, 2 with brakes

ZPCGE5-021-0028

Temperature constancy up to ±0.5 K

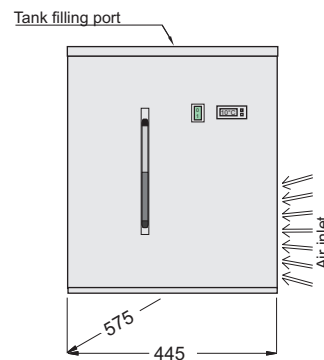
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Export version with special voltages / frequencies

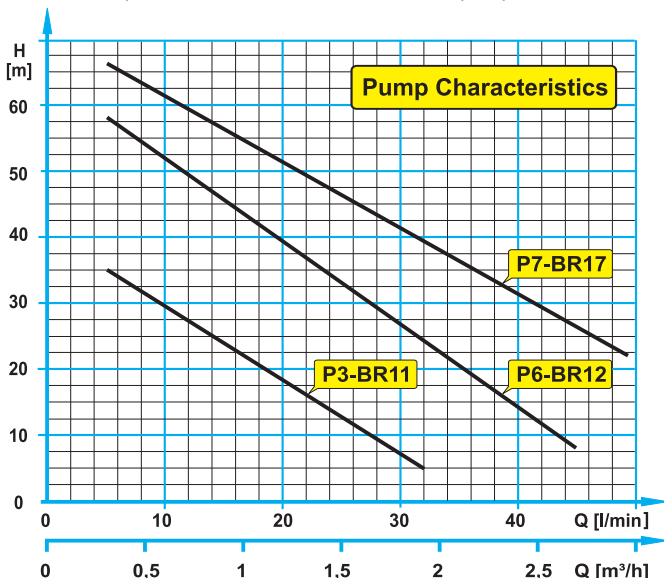
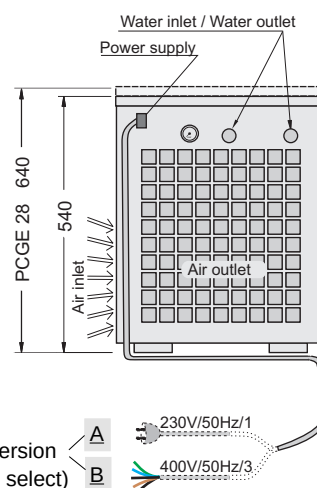
on request

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

Front



Reverse



x = Version
(Please select)

A 230V/50Hz/1
B 400V/50Hz/3

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 switch
- Fan controlled by static pressure
- Manometer displaying coolant outlet pressure
- Housing powder-coated, colour RAL 7043 (traffic grey B)



ProfiCool Genius
(with option castors)

Model ProfiCool Genius	PCGE 31	PCGE 41	PCGE 61	PCGE 71
Net cooling capacity at +20/+15°C	kW : 2.8 / 2.6	3.7 / 3.5	5.3 / 5.0	6.4 / 6.0
Eff. cooling capacity at +20/+15°C	kW : 2.4 / 2.2	3.3 / 3.1	4.9 / 4.6	6.0 / 5.6
Operating range *	°C : +5 / +25	+5 / +25	+5 / +25	+5 / +25
Temperature constancy	K : ±1.5	±1.5	±1.5	±1.5
Rated coolant flow	m³/h : 0.6	0.7	1.0	1.1
Pump	type : P3-BR11x	P3-BR11x	P3-BR11B	P3-BR11B
Pump pressure **	bar : 2.9	2.8	2.2	2.1
Tank capacity	litres : 30	30	30	30
Water connection	Inch : G ¾" Female	G ¾" Female	G ¾" Female	G ¾" Female
Required flow of cooling air	m³/h : 2,600	2,300	2,100	2,100
Starting current 230V/400V	Amps : 35 / 14	32 / 14	— / 25	— / 46
Power input max. 230V/400V	kW : 1.4 / 1.4	1.6 / 1.6	— / 2.2	— / 1.8
Operating voltage	Models -NEA : 230/50/1	230/50/1	—	—
volt/Hz/phase	Models -NEB : 400/50/3	400/50/3	400/50/3	400/50/3
Weight	kgs : 99	110	123	125
Dimensions WxDxH	mm : 580x650x920	580x650x920	580x650x920	580x650x920
Refrigerant	CFC-free : R134a	R134a	R134a	R134a

* Set temperatures <+5°C and >+25°C on request.

** Pressure at rated coolant flow.

Alternative units: PCGE 25, PCGE 28, PCGE 101, PCNO 30, PCPR 025 to PCPR 055

ProfiCool Genius + options / accessories:

Cat. No.

ProfiCool Genius PCGE 31.02-NEA

GUPCGE0031.02-NEA

ProfiCool Genius PCGE 41.02-NEA

GUPCGE0041.02-NEA

ProfiCool Genius PCGE 61.02-NEB

GUPCGE0061.02-NEB

ProfiCool Genius PCGE 71.02-NEB

GUPCGE0071.02-NEB

All models also in -NEB (400V/50Hz/3Ph) available.

Pump P6-BR12 instead of P3-BR11

MPCGE6-P6-BR12x-0071

Pump P7-BR17 instead of P3-BR11

MPCGE6-P7-BR17x-0071

Continuous-flow system without tank and/or without pump

on request

Overflow by-pass valve

ZPCGE6-041-0071

4 swivel castors, 2 with brakes

ZPCGE5-021-0071

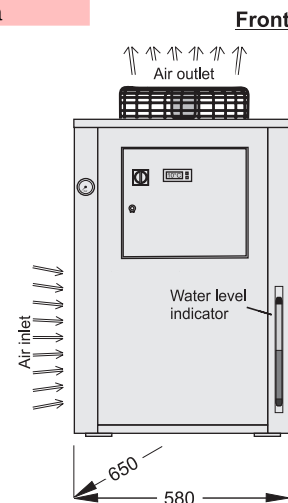
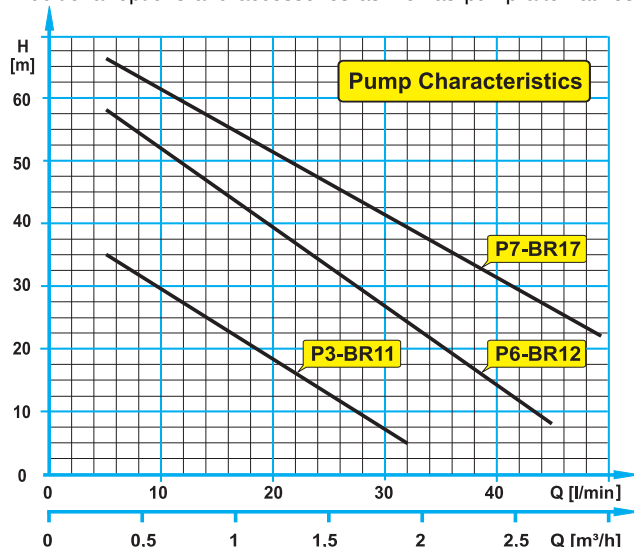
Temperature constancy up to ±0.5 K

on request

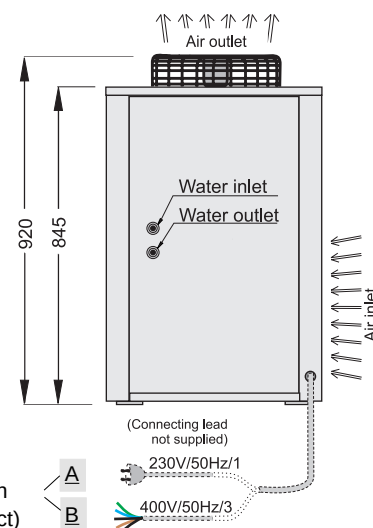
Export version with special voltages / frequencies

on request

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



Reverse



x = Version
(Please select)

A 230V/50Hz/1
B 400V/50Hz/3

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 switch
- Fan controlled by static pressure
- Manometer displaying coolant outlet pressure
- Housing powder-coated, colour RAL 7035 (light grey)

Model ProfiCool Genius	PCGE 101	PCGE 131	PCGE 151
Net cooling capacity at +20/+15°C	kW : 9.3 / 8.7	12.5 / 11.7	14.3 / 13.4
Eff. cooling capacity at +20/+15°C	kW : 8.8 / 8.2	12.0 / 11.2	13.8 / 12.9
Operating range *	°C : +5 / +25	+5 / +25	+5 / +25
Temperature constancy	K : ±1.5	±1.5	±1.5
Rated coolant flow	m³/h : 1.5	2.0	2.3
Pump	type : P6-BR12B	P6-BR12B	P3-AR02B
Pump pressure **	bar : 3.3	2.4	2.9
Tank capacity	litres : 60	60	60
Water connection	Inch : G ¾" Female	G ¾" Female	G ¾" Female
Required flow of cooling air	m³/h : 4,600	4,200	6,000
Starting current	Amps : 48	53	62
Power input max.	kW : 2.7	3.3	4.2
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3	400/50/3
Weight	kgs : 140	150	170
Dimensions WxDxH	mm : 760x760x1335	760x760x1335	760x760x1385
Refrigerant	CFC-free : R407C	R407C	R407C

* Set temperatures <+5°C and >+25°C on request.

** Pressure at rated coolant flow.

Alternative units: PCGE 71, PCGE 160, PCPR 085 and PCPR 105

ProfiCool Genius + options / accessories:

Cat. No.

ProfiCool Genius PCGE 101.01-NEB

GUPCGE0101.01-NEB

ProfiCool Genius PCGE 131.01-NEB

GUPCGE0131.01-NEB

ProfiCool Genius PCGE 151.01-NEB

GUPCGE0151.01-NEB

Pump P7-BR17B instead of P6-BR12B

MPCGE6-P7-BR17B-0101

Pump P7-AM23B instead of P6-BR12B

MPCGE6-P7-AM23B-0101

Pump P7-BR17B instead of P6-BR12B

MPCGE6-P7-BR17B-0131

Pump P9-AM26B instead of P6-BR12B

MPCGE6-P9-AM26B-0131

Pump P5-AS13B instead of P3-AR02B

MPCGE6-P5-AS13B-0151

Pump P7-AM46B instead of P3-AR02B

MPCGE6-P7-AM46B-0151

Continuous-flow system without tank and/or without pump

on request

Overflow by-pass valve

ZPCGE6-041-0151

4 swivel castors, 2 with brakes

ZPCGE5-021-0151

Temperature constancy up to ±0.5 K

on request

Export version with special voltages / frequencies

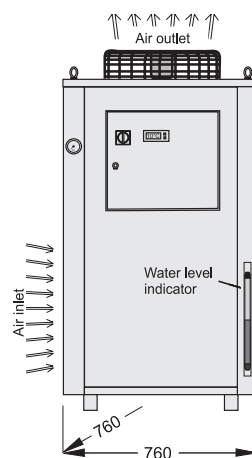
on request

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

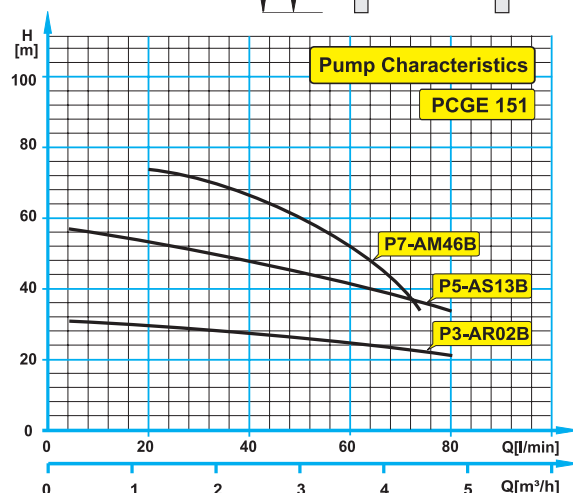
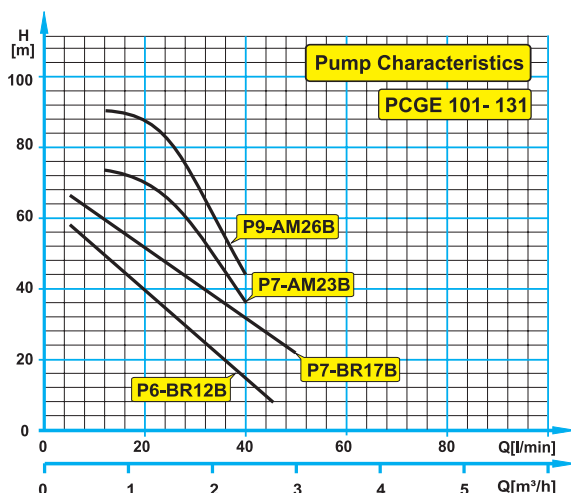
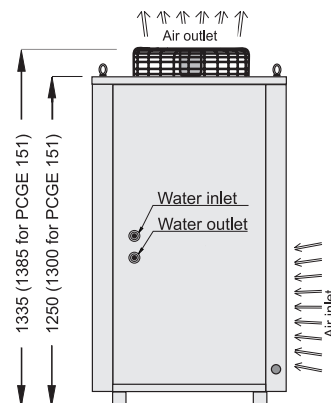


ProfiCool Genius
(with option colour RAL 7043, traffic grey B)

Front



Reverse



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)

Model ProfiCool Genius	PCGE 160	PCGE 190
Net cooling capacity at +20/+15°C	kW : 15.8 / 14.9	18.2 / 17.1
Eff. cooling capacity at +20/+15°C	kW : 15.3 / 14.4	17.7 / 16.6
Operating range *	°C : +5 / +25	+5 / +25
Temperature constancy	K : ±1.5	±1.5
Rated coolant flow	m³/h : 2.6	2.9
Pump	type : P3-AR02B	P3-AR02B
Pump pressure **	bar : 2.7	2.6
Tank capacity	litres : 100	100
Water connection	Inch : G 1" Female	G 1" Female
Required flow of cooling air	m³/h : 7,600	7,600
Starting current	Amps : 62	72
Power input max.	kW : 4.4	5.1
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3
Weight	kgs : 220	230
Dimensions WxDxH	mm : 760x1325x1525	760x1325x1525
Refrigerant	CFC-free : R407C	R407C

* Set temperatures <+5°C and >+25°C on request.

** Pressure at rated coolant flow.

Alternative units: PCGE 151 and PCGE 250

ProfiCool Genius + options / accessories:

Cat. No.

ProfiCool Genius PCGE 160.01-NEB

GUPCGE0160.01-NEB

ProfiCool Genius PCGE 190.01-NEB

GUPCGE0190.01-NEB

Pump P5-AS13B instead of P3-AR02B

MPCGE6-P5-AS13B-0160

Pump P7-AM46B instead of P3-AR02B

MPCGE6-P7-AM46B-0160

Pump P5-AS13B instead of P3-AR02B

MPCGE6-P5-AS13B-0190

Pump P8-AM47B instead of P3-AR02B

MPCGE6-P8-AM47B-0190

Continuous-flow system without tank and/or without pump

on request

Overflow by-pass valve

ZPCGE6-041-0190

4 swivel castors, 2 with brakes

ZPCGE5-021-0190

Temperature constancy up to ±0.5 K

on request

Low ambient temperature kit

MPCGE7-001-0190

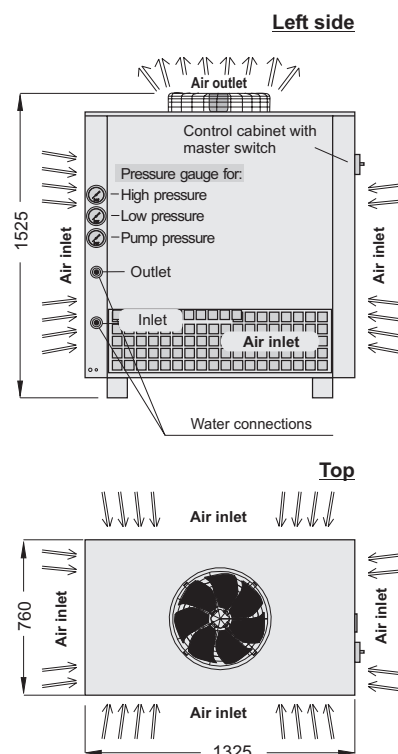
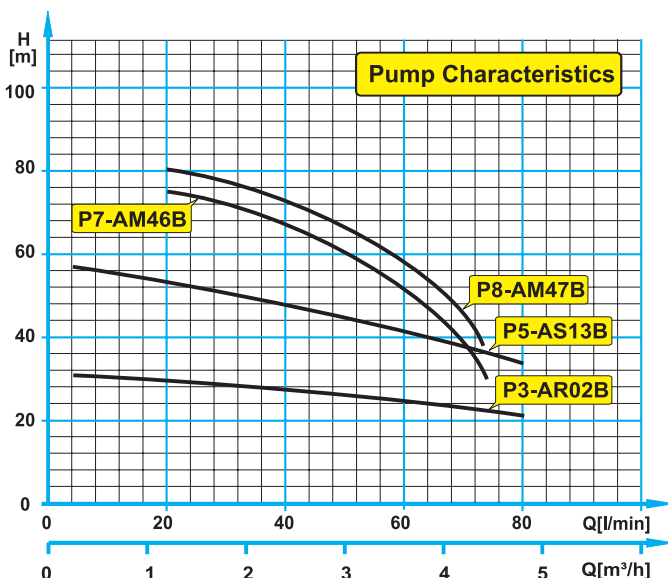
Export version with special voltages / frequencies

on request

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



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



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)

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

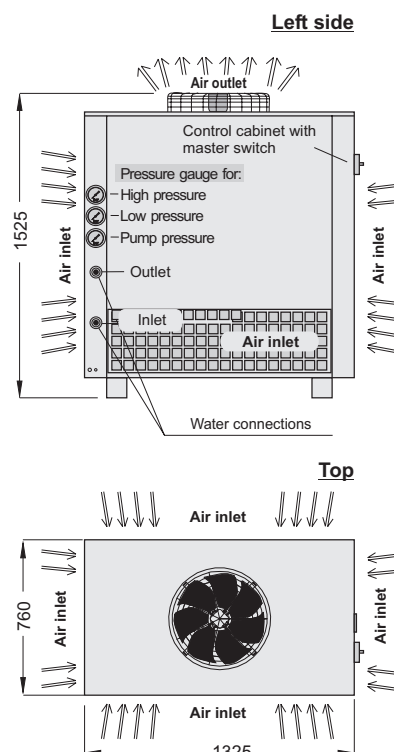
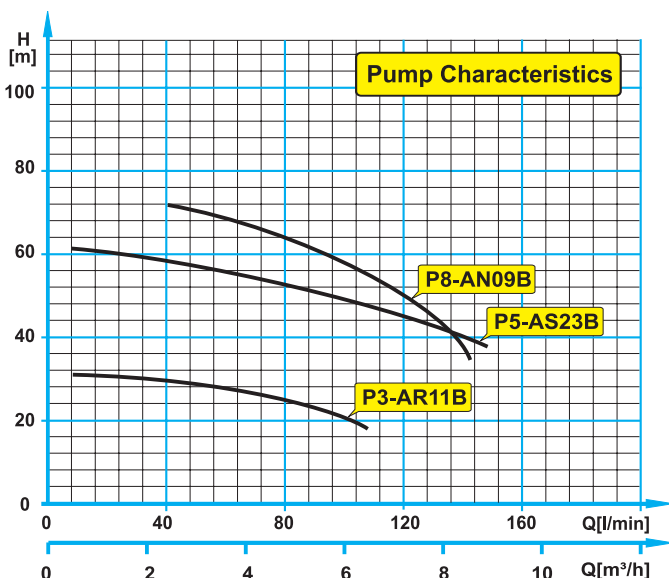
Low ambient temperature kit MPCGE7-001-0350

Export version with special voltages / frequencies on request

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



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



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

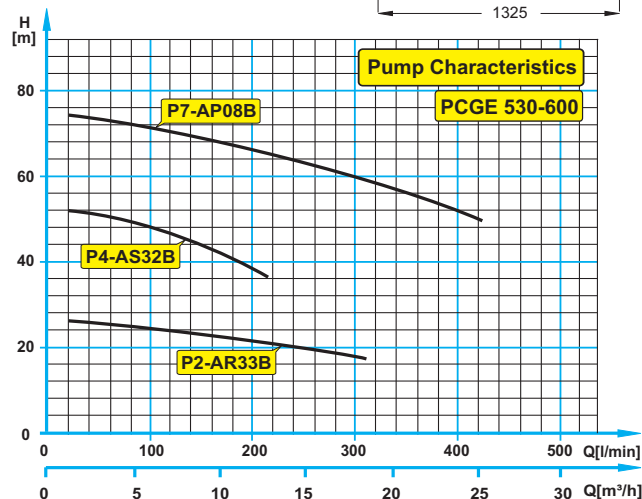
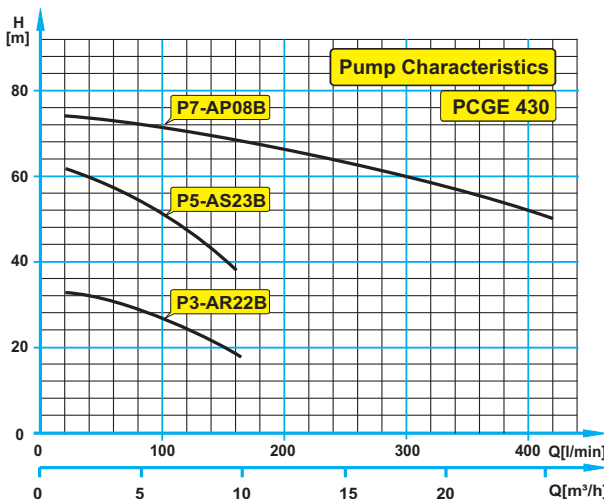
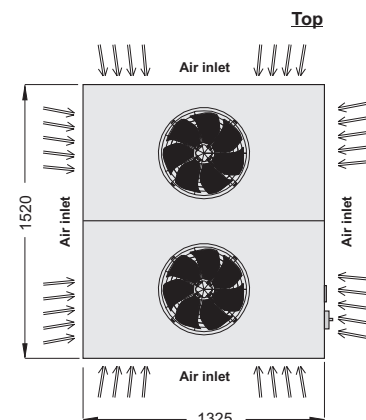
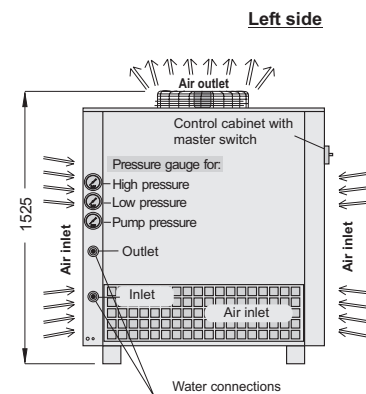
Low ambient temperature kit

MPCGE7-001-0600

Export version with special voltages / frequencies

on request

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



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 680	PCGE 770
Net cooling capacity at +20/+15°C	kW : 65.3 / 61.2	71.0 / 66.6
Eff. cooling capacity at +20/+15°C	kW : 63.5 / 59.4	69.2 / 64.8
Operating range *	°C : +5 / +25	+5 / +25
Temperature constancy	K : ±1.5	±1.5
Rated coolant flow	m³/h : 10.5	11.5
Pump	type : P3-AR34B	P3-AR34B
Pump pressure **	bar : 2.6	2.5
Tank capacity	litres : 200	200
Water connection	Inch : G 1½" Female	G 1½" Female
Required flow of cooling air	m³/h : 15,800	15,800
Starting current	Amps : 156	148
Power input max.	kW : 17.8	20.3
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3
Weight	kgs : 480	510
Dimensions WxDxH	mm : 1520x1325x1525	1520x1325x1525
Refrigerant	CFC-free : R407C	R407C

* Set temperatures <+5°C and >+25°C on request.

** Pressure at rated coolant flow.

Alternative units: PCGE 600 and PCGE 1090

ProfiCool Genius + options / accessories:

Cat. No.

ProfiCool Genius PCGE 680.01-NEB
ProfiCool Genius PCGE 770.01-NEB

GUPCGE0680.01-NEB
GUPCGE0770.01-NEB

Pump P5-AP06B instead of P3-AR34B

MPCGE6-P5-AP06B-0770

Pump P7-AP08B instead of P3-AR34B

MPCGE6-P7-AP08B-0770

Continuous-flow system without tank and/or without pump

on request

Overflow by-pass valve

ZPCGE6-041-0770

4 swivel castors, 2 with brakes

ZPCGE5-021-0770

Temperature constancy up to ±0.5 K

on request

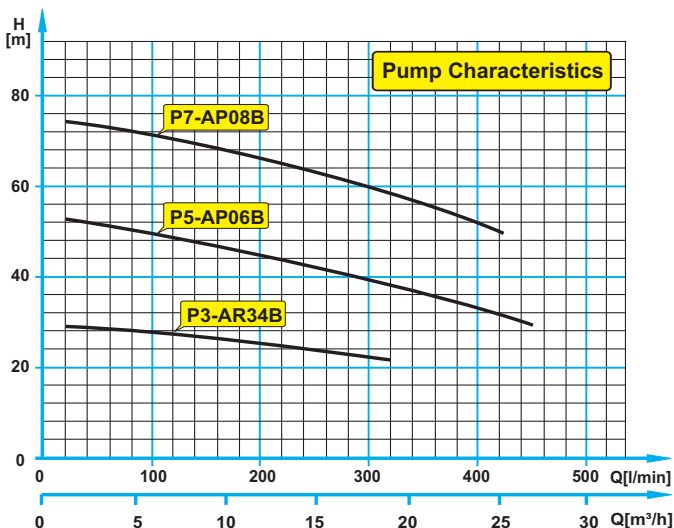
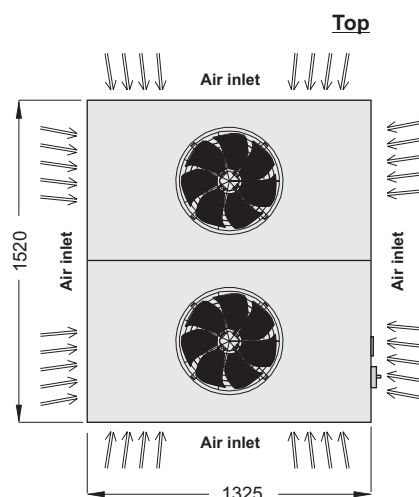
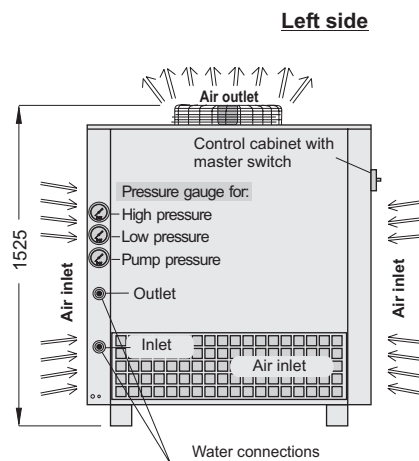
Low ambient temperature kit

MPCGE7-001-0770

Export version with special voltages / frequencies

on request

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



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 1090
Net cooling capacity at +20/+15°C kW :	96.0 / 90.0
Eff. cooling capacity at +20/+15°C kW :	93.8 / 87.8
Operating range * °C :	+5 / +25
Temperature constancy K :	±1.5
Rated coolant flow m³/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 m³/h :	23,700
Starting current Amps :	181
Power input max. kW :	25.8
Operating voltage volt/Hz/phase :	400/50/3
Weight kgs :	690
Dimensions WxDxH mm :	2280x1325x1525
Refrigerant CFC-free :	R407C

* Set temperatures <+5°C and >+25°C on request.

** Pressure at rated coolant flow.

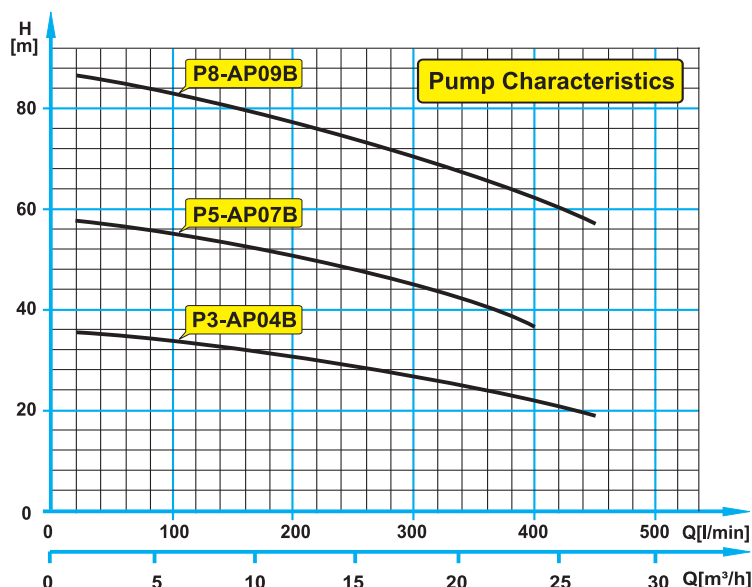
Alternative units: PCGE 770 and PCGE 1200

ProfiCool Genius + options / accessories:

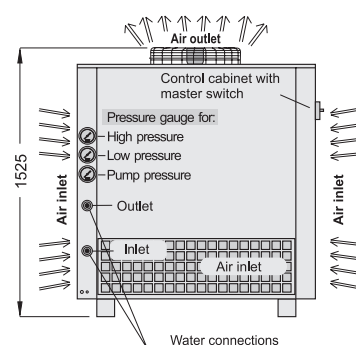
Cat. No.

ProfiCool Genius PCGE 1090.01-NEB	GUPCGE1090.01-NEB
Pump P5-AP07B instead of P3-AP04B	MPCGE6-P5-AP07B-1090
Pump P8-AP09B instead of P3-AP04B	MPCGE6-P8-AP09B-1090
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGE6-041-1090
Temperature constancy up to ±0.5 K	on request
Low ambient temperature kit	MPCGE7-001-1090
Export version with special voltages / frequencies	on request

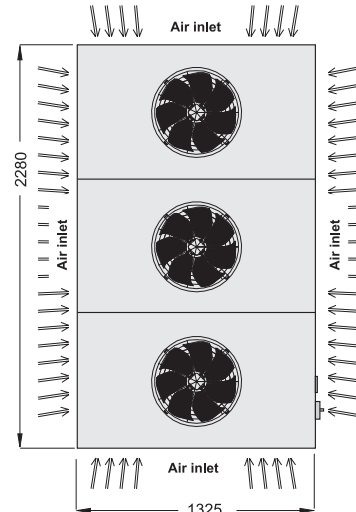
Additional options and accessories as well as pump alternatives on request.



Left side



Top



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)



PCGE 1090
(with option colour RAL 7043, traffic grey B)

Model ProfiCool Genius	PCGE 1200
Net cooling capacity at +20/+15°C	kW : 115.2 / 108.0
Eff. cooling capacity at +20/+15°C	kW : 113.2 / 105.8
Operating range *	°C : +5 / +25
Temperature constancy	K : ±1.5
Rated coolant flow	m³/h : 18.6
Pump	type : P3-AP04B
Pump pressure **	bar : 2.5
Tank capacity	litres : 300
Water connection	Inch : G 2" Female
Required flow of cooling air	m³/h : 26,800
Starting current	Amps : 216
Power input max.	kW : 28.2
Operating voltage	volt/Hz/phase : 400/50/3
Weight	kgs : 800
Dimensions WxDxH	mm : 3040x1325x1525
Refrigerant	CFC-free : R407C

* Set temperatures <+5°C and >+25°C on request.

** Pressure at rated coolant flow.

Alternative units: PCGE 1090 and PCGE 1450

ProfiCool Genius + options / accessories: Cat. No.

ProfiCool Genius PCGE 1250.01-NEB GUPCGE1200.01-NEB

Pump P5-AP07B instead of P3-AP04B MPCGE6-P5-AP07B-1200

Pump P8-AP09B instead of P3-AP04B MPCGE6-P8-AP09B-1200

Continuous-flow system without tank and/or without pump on request

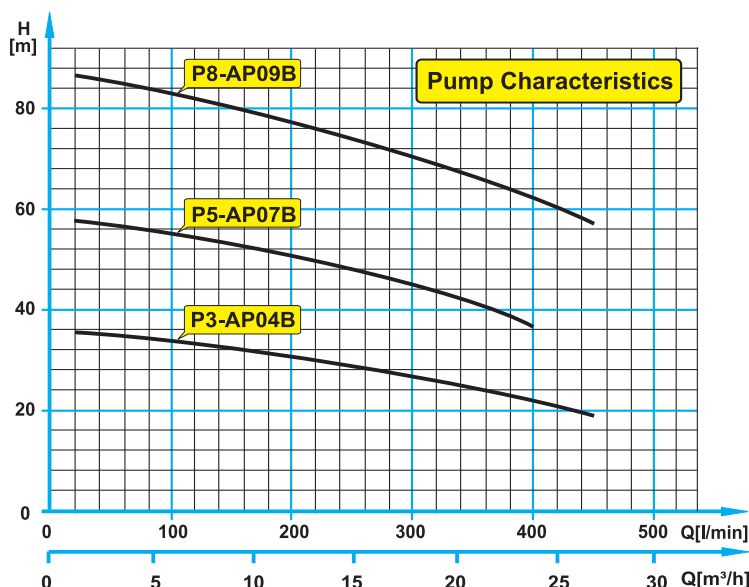
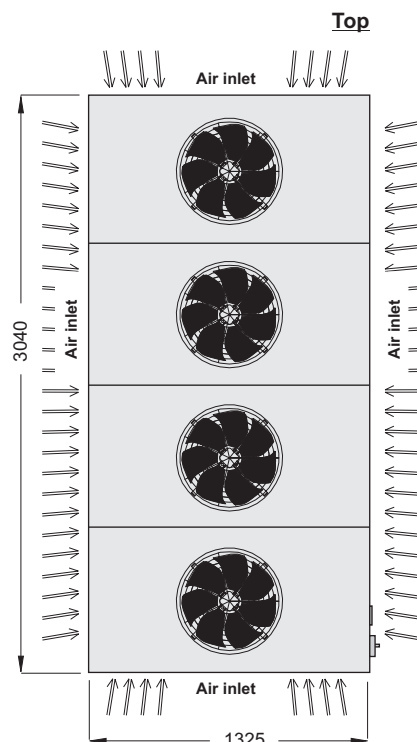
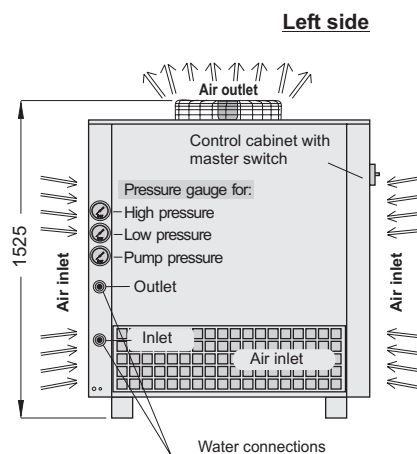
Overflow by-pass valve ZPCGE6-041-1200

Temperature constancy up to ±0.5 K on request

Low ambient temperature kit MPCGE7-001-1200

Export version with special voltages / frequencies on request

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



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)



PCGE 1090
(with option colour RAL 7043, traffic grey B)
PCGE 1450, 1800, 2100 with two and PCGE 2600 with three fans)

Model ProfiCool Genius	PCGE 1450	PCGE 1800	PCGE 2100	PCGE 2600
Net cooling capacity at +20/+15°C	kW : 139.2 / 130.5	172.8 / 162.0	196.8 / 184.5	244.8 / 229.5
Eff. cooling capacity at +20/+15°C	kW : 135.2 / 126.5	168.8 / 158.0	191.3 / 179.0	239.3 / 224.0
Operating range *	°C : +5 / +25	+5 / +25	+5 / +25	+5 / +25
Temperature constancy	K : ±1.5	±1.5	±1.5	±1.5
Rated coolant flow	m³/h : 22.4	27.9	31.7	39.5
Pump	type : P3-AP15B	P3-AP15B	P3-AP34B	P3-AP34B
Pump pressure **	bar : 3.3	3.1	3.1	2.9
Tank capacity	litres : 500	500	500	500
Water connection	Inch : G 3" Female	G 3" Female	G 3" Female	G 3" Female
Required flow of cooling air	m³/h : 43,000	44,000	48,000	69,000
Starting current	Amps : 213	251	339	403
Power input max.	kW : 37.6	46.4	52.1	59.0
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3	400/50/3	400/50/3
Weight	kgs : 1780	1880	1840	1930
Dimensions WxDxH	mm : < 3990x1525x2170 >			
Refrigerant	CFC-free : R407C	R407C	R407C	R407C

* Set temperatures <+5°C and >+25°C on request.

** Pressure at rated coolant flow.

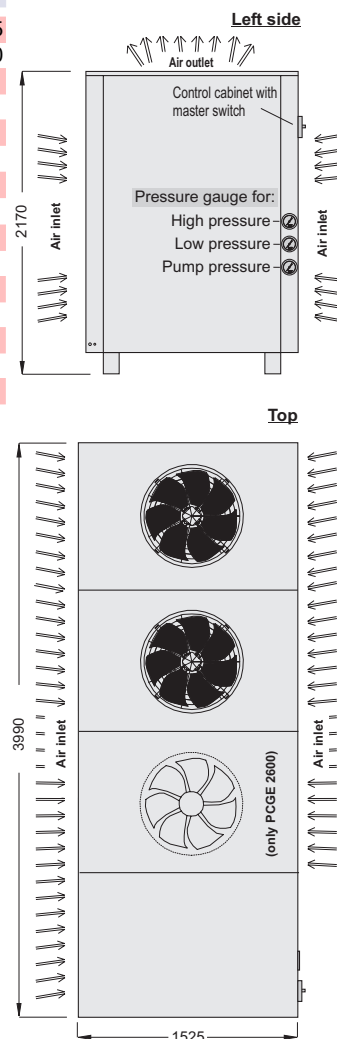
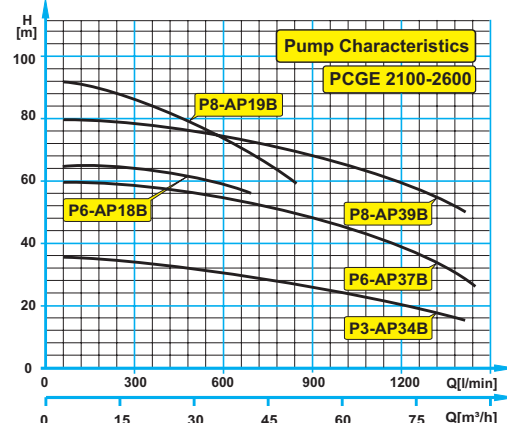
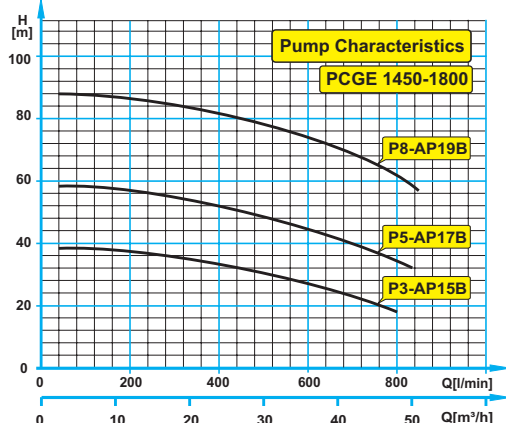
Alternative units: PCGE 1250 and PCGE 3150

ProfiCool Genius + options / accessories:

Cat. No.

ProfiCool Genius PCGE 1450.01-NEB	GUPCGE1450.01-NEB
ProfiCool Genius PCGE 1800.01-NEB	GUPCGE1800.01-NEB
ProfiCool Genius PCGE 2100.01-NEB	GUPCGE2100.01-NEB
ProfiCool Genius PCGE 2600.01-NEB	GUPCGE2600.01-NEB
Pump P5-AP17B instead of P3-AP15B	MPCGE6-P5-AP17B-1800
Pump P8-AP19B instead of P3-AP15B	MPCGE6-P8-AP19B-1800
Pump P6-AP18B instead of P3-AP34B	MPCGE6-P6-AP18B-2100
Pump P8-AP19B instead of P3-AP34B	MPCGE6-P8-AP19B-2100
Pump P6-AP37B instead of P3-AP34B	MPCGE6-P6-AP37B-2600
Pump P8-AP39B instead of P3-AP34B	MPCGE6-P8-AP39B-2600
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGE6-041-2600
Temperature constancy up to ±0.5 K	on request
Low ambient temperature kit	MPCGE7-001-2600
Export version with special voltages / frequencies	on request
Flange connection	on request

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



Recirculating Chillers ProfiCool Genius

Cooling Capacity 276 kW to 350 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)



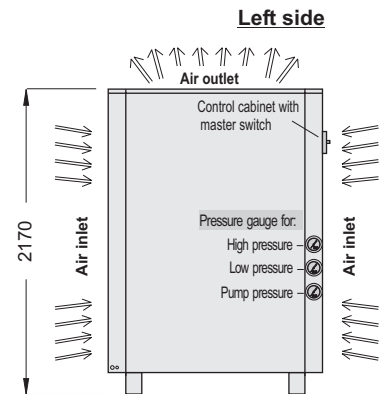
PCGE 1090
(with option colour RAL 7043, traffic grey B
PCGE 3150 with three and PCGE 3650 with four fans)

Model ProfiCool Genius	PCGE 3150	PCGE 3650
Net cooling capacity at +20/+15°C	kW : 302.4 / 283.5	350.4 / 328.5
Eff. cooling capacity at +20/+15°C	kW : 294.9 / 276.0	342.9 / 321.0
Operating range *	°C : +5 / +25	+5 / +25
Temperature constancy	K : ±1.5	±1.5
Rated coolant flow	m³/h : 48.8	56.5
Pump	type : P4-AP35B	P4-AP35B
Pump pressure **	bar : 3.5	3.3
Tank capacity	litres : 500	500
Water connection	Inch : G 3" Female	G 3" Female
Required flow of cooling air	m³/h : 71,400	92,000
Starting current	Amps : 394	468
Power input max.	kW : 78.0	89.9
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3
Weight	kgs : 2380	2510
Dimensions WxDxH	mm : 4990x1525x2170	4990x1525x2170
Refrigerant	CFC-free : R407C	R407C

* Set temperatures <+5°C and >+25°C on request.

** Pressure at rated coolant flow.

Alternative units: PCGE 2600

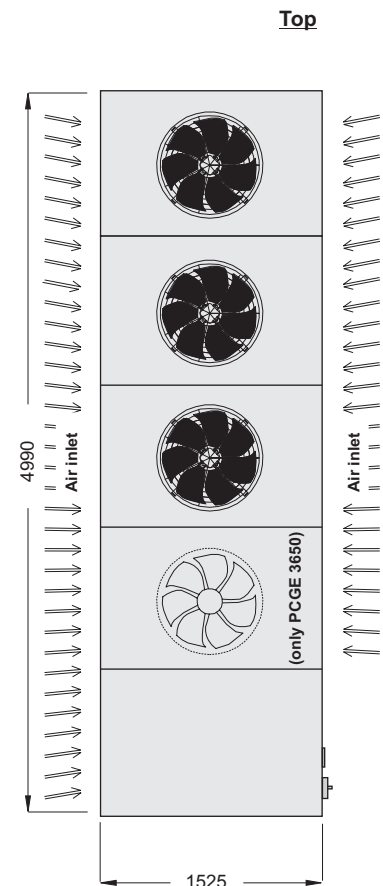
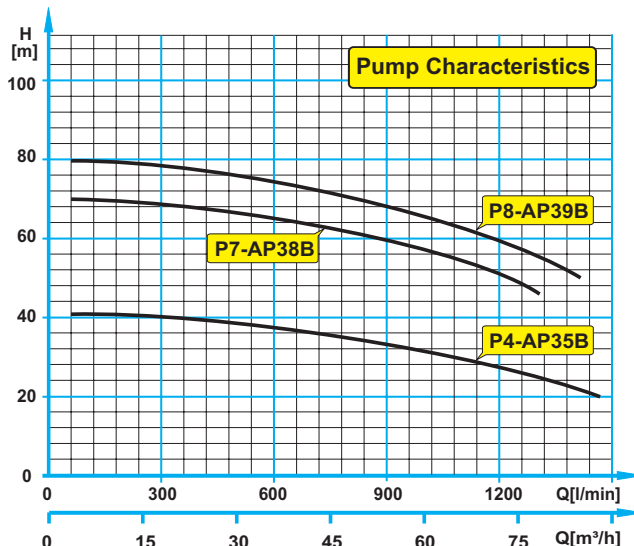


ProfiCool Genius + options / accessories:

Cat. No.

ProfiCool Genius PCGE 3150.01-NEB	GUPCGE3150.01-NEB
ProfiCool Genius PCGE 3650.01-NEB	GUPCGE3650.01-NEB
Pump P7-AP38B instead of P4-AP35B	MPCGE6-P7-AP38B-3650
Pump P8-AP39B instead of P4-AP35B	MPCGE6-P8-AP39B-3650
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGE6-041-3650
Temperature constancy up to ±0.5 K	on request
Low ambient temperature kit	MPCGE7-001-3650
Export version with special voltages / frequencies	on request
Flange connection	on request

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



Low Temperature Recirculating Chillers ProfiCool Genius Zero

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
 - Error messages displayed as individual codes by controller
- On/off switch
- Manometer displaying coolant outlet pressure
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7043 (traffic grey B)



ProfiCool Genius Zero
(with option castors)

Model ProfiCool Genius Zero	PCGEZ 12
Net cooling capacity at $\pm 0^\circ\text{C}/-10^\circ\text{C}$	kW : 1.0 / 0.7
Eff. cooling capacity at $\pm 0^\circ\text{C}/-10^\circ\text{C}$	kW : 0.8 / 0.5
Operating range	$^\circ\text{C}$: $-15 / \pm 0$
Temperature constancy	K : ± 1.5
Rated coolant flow	m^3/h : 0.6
Pump	type : P3-BR11A
Pump pressure *	bar : 2.9
Tank capacity	litres : 10
Water connection	Inch : G $\frac{1}{2}$ " Female
Required flow of cooling air	m^3/h : 825
Starting current	Amps : 30
Power input max.	kW : 1.9
Operating voltage	Volts/Hz/Phase : 230/50/1
Weight	kgs : 52
Dimensions WxDxH	mm : 445x575x540
Refrigerant	CFC-free : R404A

* Pressure at rated coolant flow.

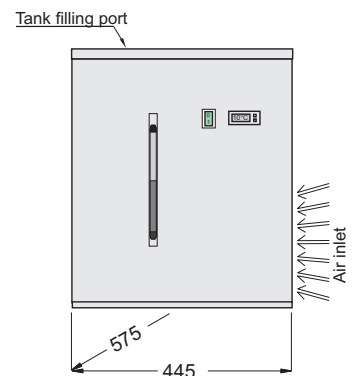
Alternative units: PCGEZ 37

ProfiCool Genius Zero + options / accessories: Cat. No.

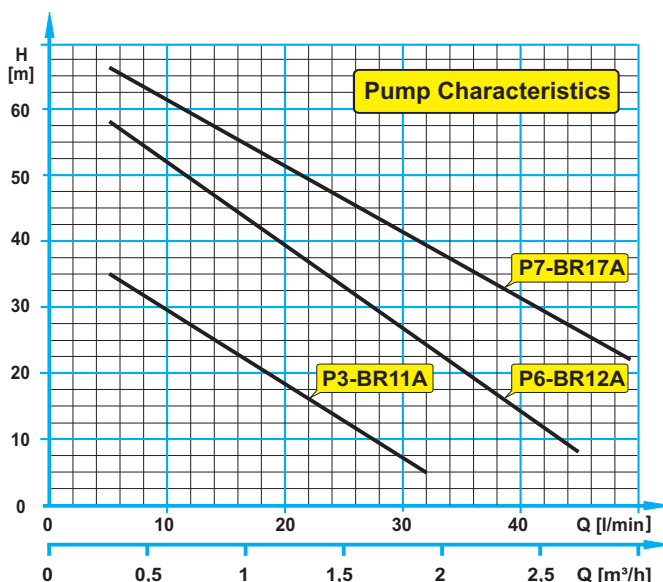
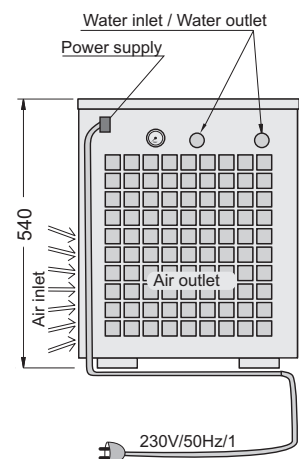
ProfiCool Genius PCGEZ 12.02-NEA	GUPCGEZ012.02-NEA
Pump P6-BR12A instead of P3-BR11A	MPCGEZ6-P6-BR12A-012
Pump P7-BR17A instead of P3-BR11A	MPCGEZ6-P7-BR17A-012
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGEZ6-041-012
4 swivel castors, 2 with brakes	ZPCGEZ5-021-012
Temperature constancy up to ± 0.5 K	on request
Export version with special voltages / frequencies	on request

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

Front



Reverse



Low Temperature Recirculating Chillers ProfiCool Genius Zero

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- 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 switch
- Fan controlled by static pressure
- Manometer displaying coolant outlet pressure
- Housing powder-coated, colour RAL 7043 (traffic grey B)



ProfiCool Genius Zero
(with option castors)

Model ProfiCool Genius Zero	PCGEZ 37	PCGEZ 50	PCGEZ 70
Net cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$	kW : 2.9 / 1.9	3.9 / 2.7	5.5 / 3.7
Eff. cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$	kW : 2.7 / 1.7	3.7 / 2.4	5.2 / 3.4
Operating range	$^{\circ}\text{C}$: -15 / ± 0	-15 / ± 0	-15 / ± 0
Temperature constancy	K : ± 1.5	± 1.5	± 1.5
Rated coolant flow	m^3/h : 0.6	0.6	0.6
Pump	type : P3-BR11B	P3-BR11B	P3-BR11B
Pump pressure *	bar : 2.9	2.9	2.9
Tank capacity	litres : 30	30	30
Water connection	Inch : G 3/4" Female	G 3/4" Female	G 3/4" Female
Required flow of cooling air	m^3/h : 2,600	2,300	2,100
Starting current	Amps : 23.0	28.0	41.0
Power input max.	kW : 1.9	2.4	3.1
Operating voltage	Volts/Hz/Phase : 400/50/3	400/50/3	400/50/3
Weight	kgs : 99	110	123
Dimensions WxDxH	mm : 580x650x920	580x650x920	580x650x920
Refrigerant	CFC-free : R404A	R404A	R404A

* Pressure at rated coolant flow.

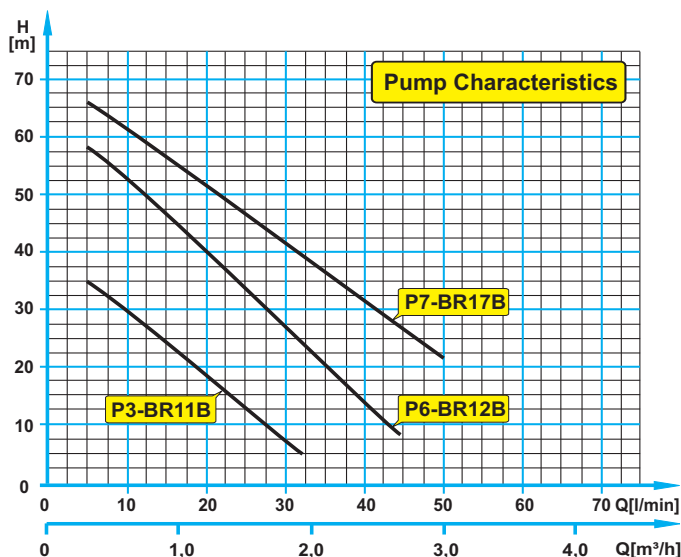
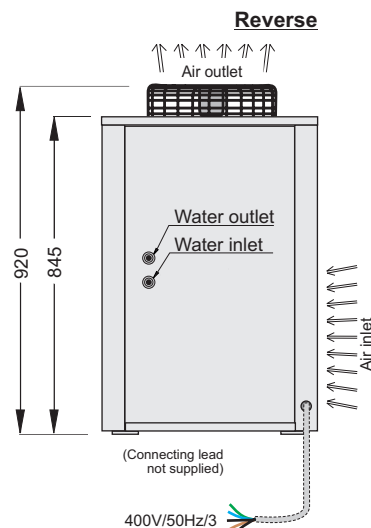
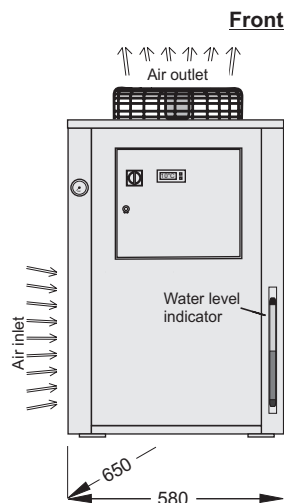
Alternative units: PCGEZ 12 und 100

ProfiCool Genius Zero + options / accessories:

Cat. No.

ProfiCool Genius PCGEZ 37.03-NEB	GUPCCEZ037.03-NEB
ProfiCool Genius PCGEZ 50.03-NEB	GUPCCEZ050.03-NEB
ProfiCool Genius PCGEZ 70.03-NEB	GUPCCEZ070.03-NEB
Pump P6-BR12B instead of P3-BR11B	MPCGEZ6-P6-BR12B-070
Pump P7-BR17B instead of P3-BR11B	MPCGEZ6-P7-BR17B-070
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGEZ6-041-070
4 swivel castors, 2 with brakes	ZPCGEZ5-021-070
Temperature constancy up to $\pm 0.5^{\circ}\text{C}$	on request
Export version with special voltages / frequencies	on request

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



Low Temperature Recirculating Chillers ProfiCool Genius Zero

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- 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 switch
- Fan controlled by static pressure
- Manometer displaying coolant outlet pressure
- Housing powder-coated, colour RAL 7035 (light grey)

Model ProfiCool Genius Zero PCGEZ 100

Net cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$	kW	: 8.6 / 5.8
Eff. cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$	kW	: 8.2 / 5.3
Operating range	$^{\circ}\text{C}$	: $-15 / \pm 0$
Temperature constancy	K	: ± 1.5
Rated coolant flow	m^3/h	: 1.2
Pump	type	: P6-BR12B
Pump pressure *	bar	: 3.9
Tank capacity	litres	: 60
Water connection	Inch	: G $\frac{3}{4}$ " Female
Required flow of cooling air	m^3/h	: 4,600
Starting current	Amps	: 57.0
Power input max.	kW	: 4.4
Operating voltage	Volts/Hz/Phase	: 400/50/3
Weight	kgs	: 140
Dimensions WxDxH	mm	: 760x760x1335
Refrigerant	CFC-free	: R404A

* Pressure at rated coolant flow.

Alternative units: PCGEZ 70 und 160

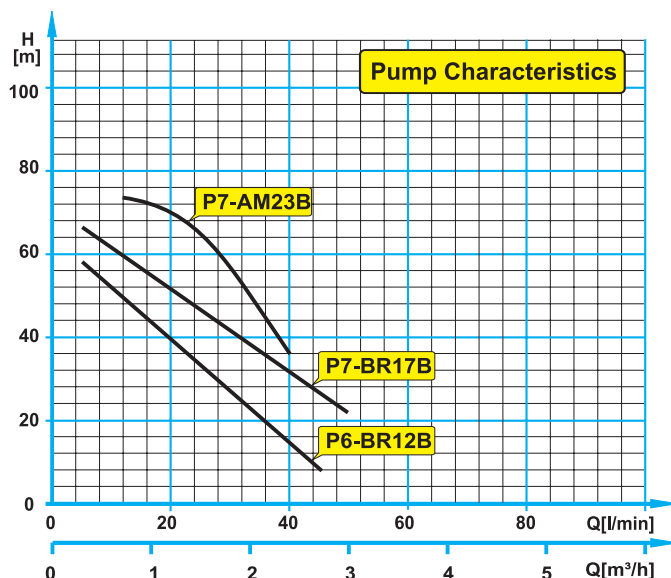
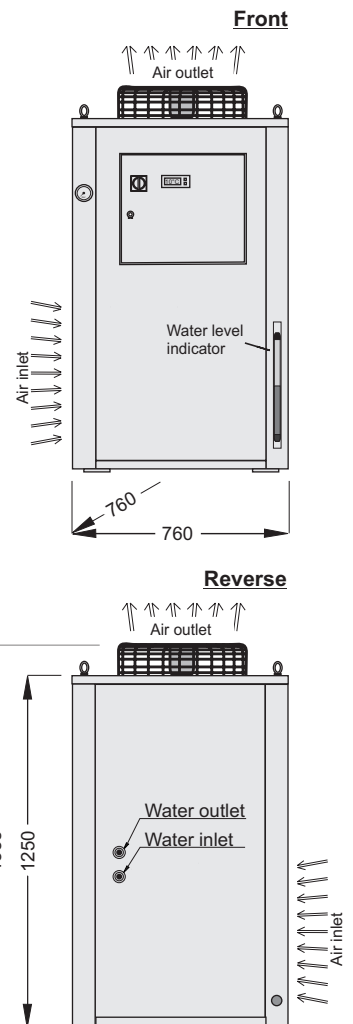
ProfiCool Genius Zero + options / accessories:

	Cat. No.
ProfiCool Genius PCGEZ 100.03-NEB	GUPCGEZ100.03-NEB
Pump P7-BR17B instead of P6-BR12B	MPCGEZ6-P7-BR17B-100
Pump P7-AM23B instead of P6-BR12B	MPCGEZ6-P7-AM23B-100
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGEZ6-041-100
4 swivel castors, 2 with brakes	ZPCGEZ5-021-100
Temperature constancy up to ± 0.5 K	on request
Export version with special voltages / frequencies	on request

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



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



Low Temperature Recirculating Chillers ProfiCool Genius Zero

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- 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 switch
- Fan controlled by static pressure
- Manometer displaying coolant outlet pressure
- Housing powder-coated, colour RAL 7035 (light grey)

Model ProfiCool Genius Zero PCGEZ 160

Net cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$	kW	: 13.0 / 8.7
Eff. cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$	kW	: 12.6 / 8.3
Operating range	$^{\circ}\text{C}$	: $-15 / \pm 0$
Temperature constancy	K	: ± 1.5
Rated coolant flow	m^3/h	: 1.7
Pump	type	: P6-BR12B
Pump pressure *	bar	: 3.0
Tank capacity	litres	: 60
Water connection	Inch	: G $\frac{3}{4}$ " Female
Required flow of cooling air	m^3/h	: 6,000
Starting current	Amps	: 83.0
Power input max.	kW	: 4.4
Operating voltage	Volts/Hz/Phase	: 400/50/3
Weight	kgs	: 170
Dimensions WxDxH	mm	: 760x760x1380
Refrigerant	CFC-free	: R404A

* Pressure at rated coolant flow.



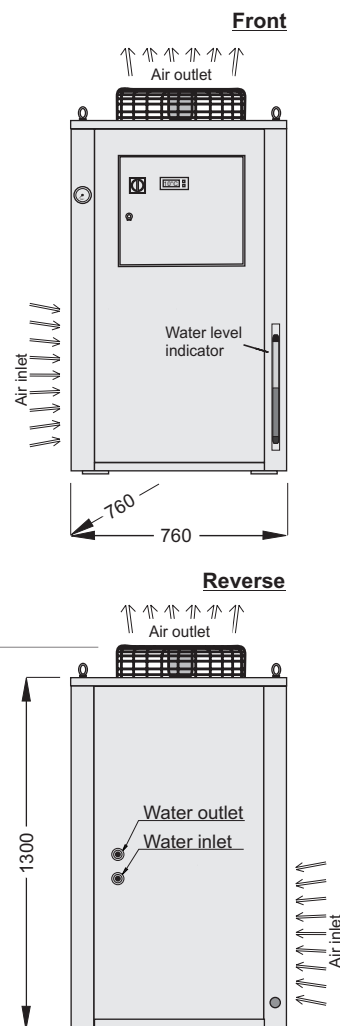
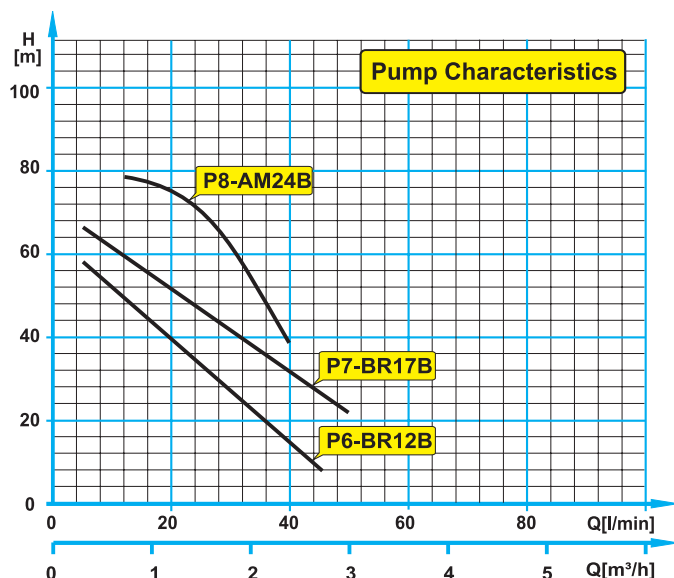
ProfiCool Genius Zero
(with option colour RAL 7043, traffic grey B)

Alternative units: PCGEZ 100 und 180

ProfiCool Genius Zero + options / accessories:

	Cat. No.
ProfiCool Genius PCGEZ 160.03-NEB	GUPCGEZ160.03-NEB
Pump P7-BR17B instead of P6-BR12B	MPCGEZ6-P7-BR17B-160
Pump P8-AM24B instead of P6-BR12B	MPCGEZ6-P8-AM24B-160
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGEZ6-041-160
4 swivel castors, 2 with brakes	ZPCGEZ5-021-160
Temperature constancy up to $\pm 0.5^{\circ}\text{C}$	on request
Export version with special voltages / frequencies	on request

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



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 180	PCGEZ 240
Net cooling capacity at $\pm 0^\circ\text{C}/-10^\circ\text{C}$	kW : 17.8 / 11.9	23.3 / 15.6
Eff. cooling capacity at $\pm 0^\circ\text{C}/-10^\circ\text{C}$	kW : 17.3 / 11.5	22.8 / 15.2
Operating range	$^\circ\text{C}$: -15 / ± 0	-15 / ± 0
Temperature constancy	K : ± 1.5	± 1.5
Rated coolant flow	m^3/h : 2.0	2.7
Pump	type : P3-AR02B	P3-AR02B
Pump pressure *	bar : 2.8	2.7
Tank capacity	litres : 100	100
Water connection	Inch : G 1" Female	G 1" Female
Required flow of cooling air	m^3/h : 7,700	6,800
Starting current	Amps : 107.0	132.0
Power input max.	kW : 8.8	11.0
Operating voltage	Volts/Hz/Phase : 400/50/3	400/50/3
Weight	kgs : 260	270
Dimensions WxDxH	mm : < 760x1325x1525 >	
Refrigerant	CFC-free : R404A	R404A

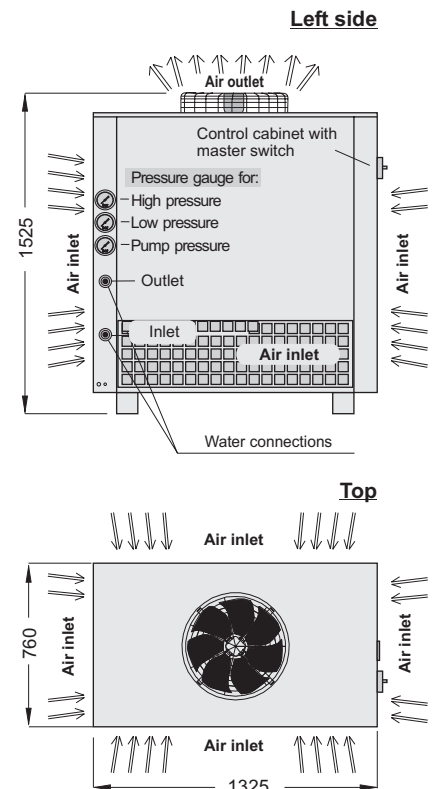
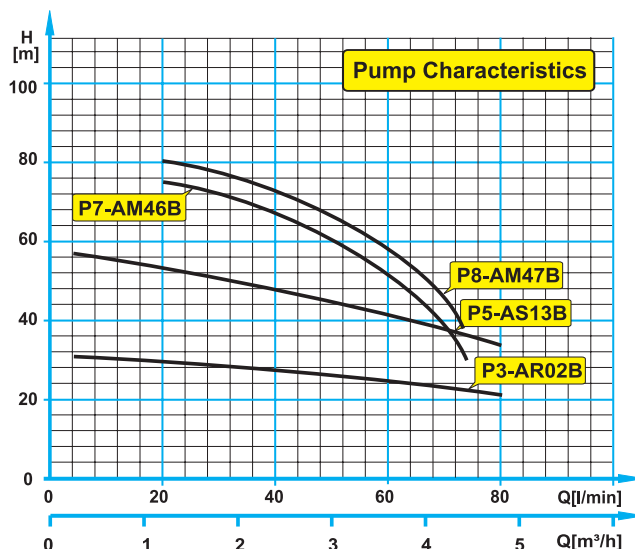
* Pressure at rated coolant flow.

Alternative units: PCGEZ 160 und 300

ProfiCool Genius Zero + options / accessories: Cat. No.

ProfiCool Genius PCGEZ 180.03-NEB	GUPCGEZ180.03-NEB
ProfiCool Genius PCGEZ 240.03-NEB	GUPCGEZ240.03-NEB
Pump P5-AS13B instead of P3-AR02B	MPCGEZ6-P5-AS13B-240
Pump P8-AM47B instead of P3-AR02B	MPCGEZ6-P8-AM47B-240
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGEZ6-041-240
4 swivel castors, 2 with brakes	ZPCGEZ5-021-240
Temperature constancy up to ± 0.5 K	on request
Low ambient temperature kit	MPCGEZ7-001-240
Export version with special voltages / frequencies	on request

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



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 300	PCGEZ 360	PCGEZ 480
Net cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$ kW	29.0 / 19.4	35.6 / 23.9	46.6 / 31.2
Eff. cooling capacity at $\pm 0^{\circ}\text{C}/-10^{\circ}\text{C}$ kW	28.4 / 18.8	35.0 / 23.3	45.9 / 30.5
Operating range $^{\circ}\text{C}$	-15 / ± 0	-15 / ± 0	-15 / ± 0
Temperature constancy K	± 1.5	± 1.5	± 1.5
Rated coolant flow m^3/h	3.3	4.1	5.4
Pump type	P3-AR11B	P3-AR11B	P3-AR22B
Pump pressure * bar	2.7	2.6	2.6
Tank capacity litres	100	100	100
Water connection Inch	G 1½" Female	G 1½" Female	G 1½" Female
Required flow of cooling air m^3/h	15,400	15,400	13,600
Starting current Amps	113.0	131.0	163.0
Power input max. kW	14.0	17.3	21.7
Operating voltage Volts/Hz/Phase	400/50/3	400/50/3	400/50/3
Weight kgs	440	440	470
Dimensions WxDxH mm	< 1520x1325x1525 >		
Refrigerant CFC-free	R404A	R404A	R404A

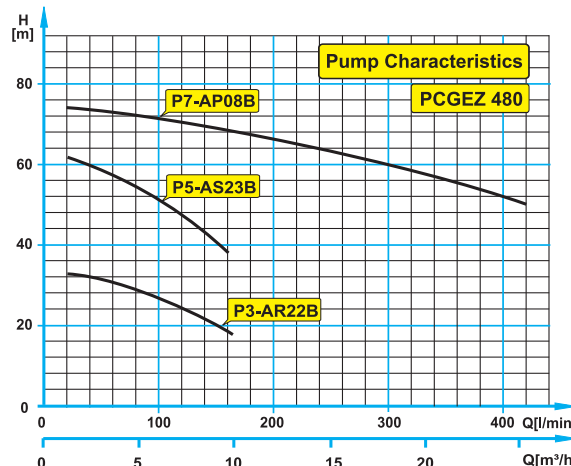
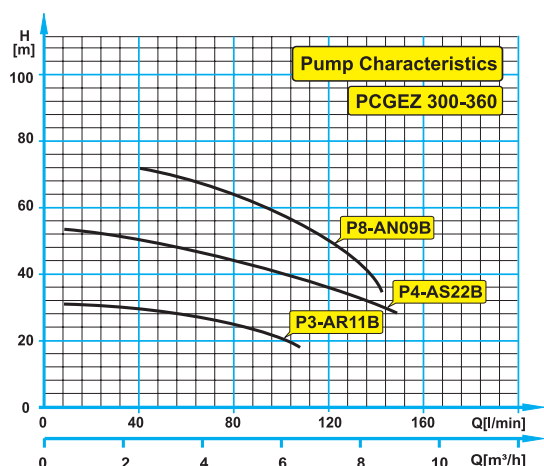
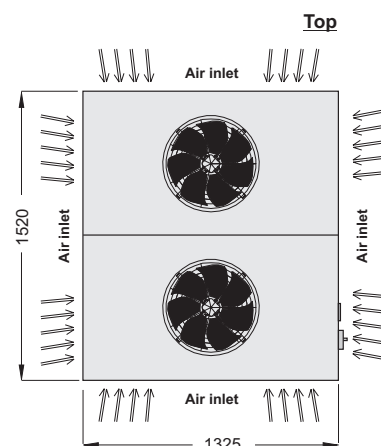
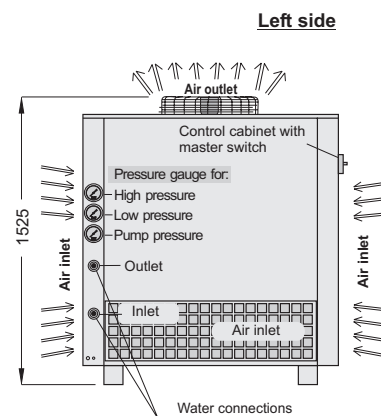
* Pressure at rated coolant flow.

Alternative units: PCGEZ 240 and PCGEZ 670

ProfiCool Genius Zero + options / accessories:

	Cat. No.
ProfiCool Genius PCGEZ 300.03-NEB	GUPCCEZ300.03-NEB
ProfiCool Genius PCGEZ 360.03-NEB	GUPCCEZ360.03-NEB
ProfiCool Genius PCGEZ 480.03-NEB	GUPCCEZ480.03-NEB
Pump P4-AS22B instead of P3-AR11B	MPCGEZ6-P4-AS22B-360
Pump P8-AN09B instead of P3-AR11B	MPCGEZ6-P8-AN09B-360
Pump P5-AS23B instead of P3-AR22B	MPCGEZ6-P5-AS23B-480
Pump P7-AP08B instead of P3-AR22B	MPCGEZ6-P7-AP08B-480
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGEZ6-041-480
4 swivel castors, 2 with brakes	ZPCGEZ5-021-480
Temperature constancy up to ± 0.5 K	on request
Low ambient temperature kit	MPCGEZ7-001-480
Export version with special voltages / frequencies	on request

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



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 / ± 0
Temperature constancy	K : ± 1.5
Rated coolant flow	m^3/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	m^3/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

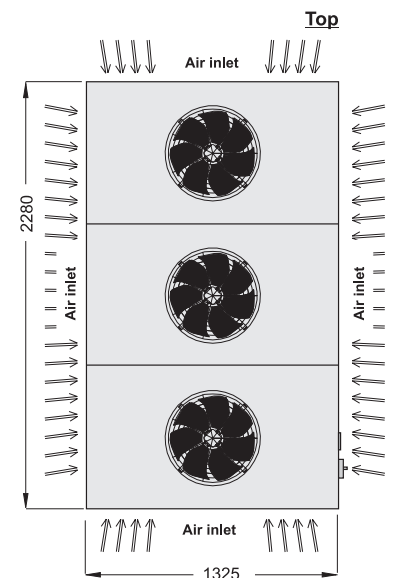
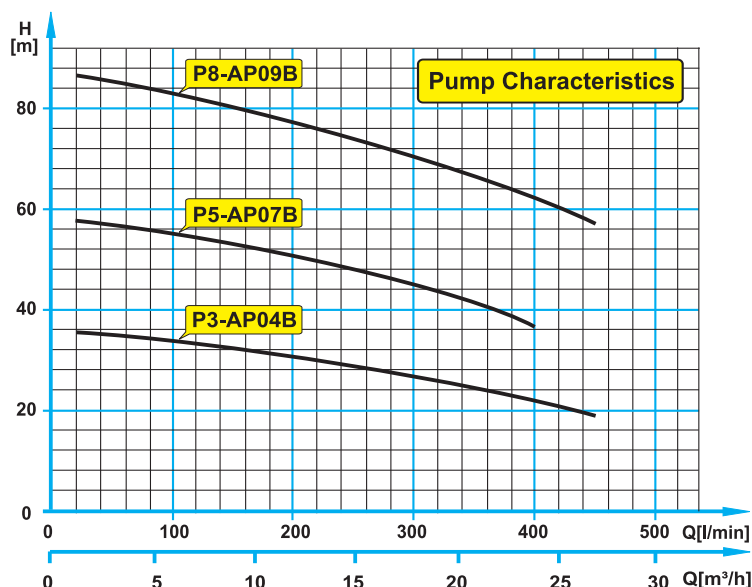
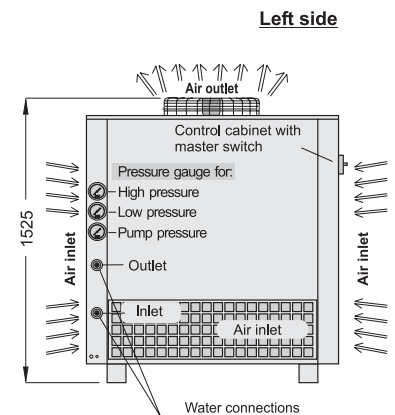
* Pressure at rated coolant flow.

Alternative units: PCGEZ 480 and PCGEZ 820

ProfiCool Genius Zero + options / accessories: Cat. No.

ProfiCool Genius PCGEZ 670.03-NEB	GUPCCEZ670.03-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 ± 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.



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 PCGEZ 670 with option colour RAL 7043, traffic grey B)

Model ProfiCool <i>Genius</i> Zero	PCGEZ 820
Net cooling capacity at $\pm 0^\circ\text{C}/-10^\circ\text{C}$	kW : 83.9 / 56.3
Eff. cooling capacity at $\pm 0^\circ\text{C}/-10^\circ\text{C}$	kW : 83.2 / 55.6
Operating range	$^\circ\text{C}$: -15 / ± 0
Temperature constancy	K : ± 1.5
Rated coolant flow	m^3/h : 18.6
Pump	type : P3-AP04B
Pump pressure *	bar : 2.5
Tank capacity	litres : 300
Water connection	Inch : G 2" Female
Required flow of cooling air	m^3/h : 26,800
Starting current	Amps : 216
Power input max.	kW : 38.3
Operating voltage	Volts/Hz/Phase : 400/50/3
Weight	kgs : 800
Dimensions WxDxH	mm : 3040x1325x1525
Refrigerant	CFC-free : R404A

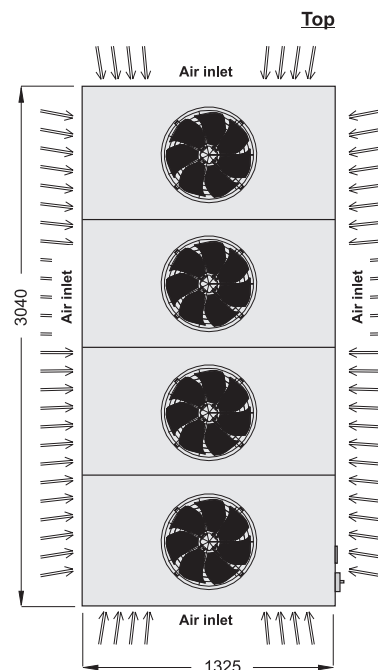
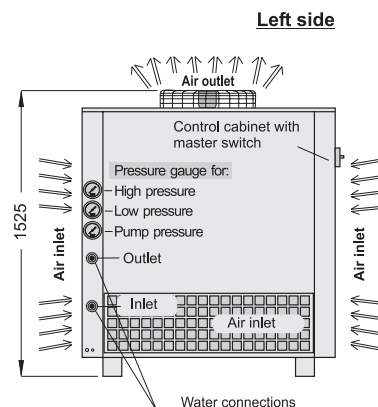
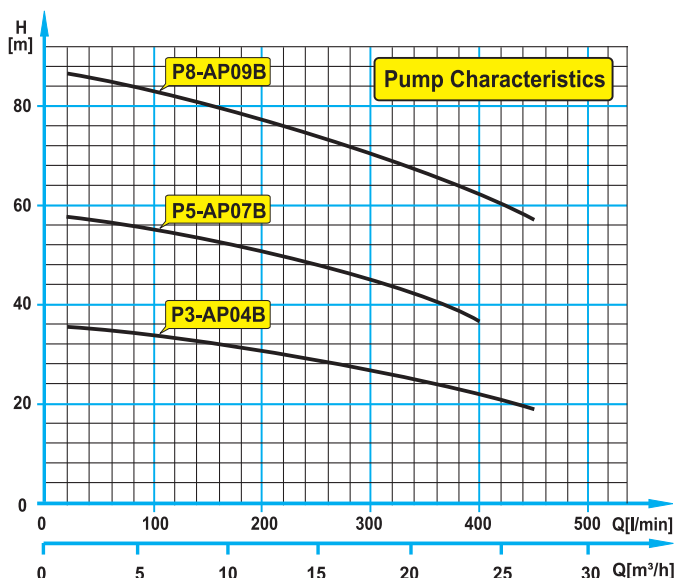
* Pressure at rated coolant flow.

Alternative units: PCGEZ 670 and PCGEZ 1700

ProfiCool *Genius* Zero + options / accessories:

	Cat. No.
ProfiCool <i>Genius</i> PCGEZ 820.03-NEB	GUPCGEZ820.03-NEB
Pump P5-AP07B instead of P3-AP04B	MPCGEZ6-P5-AP07B-820
Pump P8-AP09B instead of P3-AP04B	MPCGEZ6-P8-AP09B-820
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGEZ6-041-820
Temperature constancy up to ± 0.5 K	on request
Low ambient temperature kit	MPCGEZ7-001-820
Export version with special voltages / frequencies	on request

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



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 PCGEZ 670 with option colour RAL 7043, traffic grey B)

Model ProfiCool Genius Zero	PCGEZ 1700
Net cooling capacity at $\pm 0^\circ\text{C}/-10^\circ\text{C}$	kW : 190.0 / 127.6
Eff. cooling capacity at $\pm 0^\circ\text{C}/-10^\circ\text{C}$	kW : 186.1 / 123.6
Operating range	$^\circ\text{C}$: -15 / ± 0
Temperature constancy	K : ± 1.5
Rated coolant flow	m^3/h : 22.4
Pump	type : P3-AP15B
Pump pressure *	bar : 3.3
Tank capacity	litres : 500
Water connection	Inch : G 3" Female
Required flow of cooling air	m^3/h : 43,000
Starting current	Amps : 213
Power input max.	kW : 87.9
Operating voltage	Volts/Hz/Phase : 400/50/3
Weight	kgs : 2120
Dimensions WxDxH	mm : 3990x1525x2170
Refrigerant	CFC-free : R404A

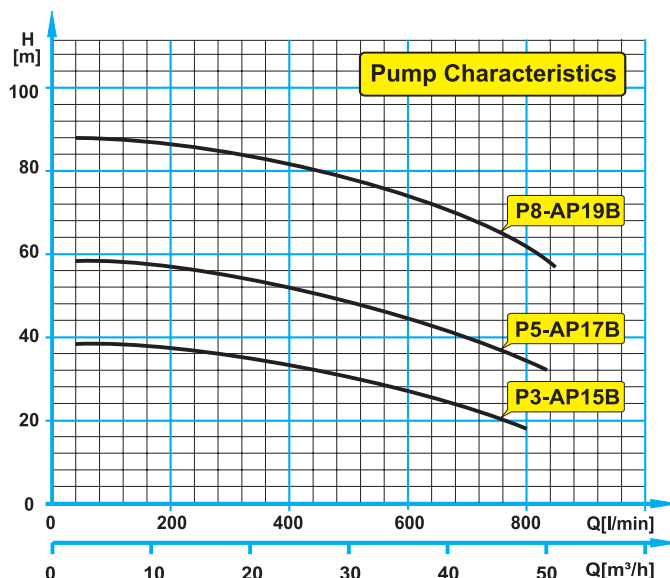
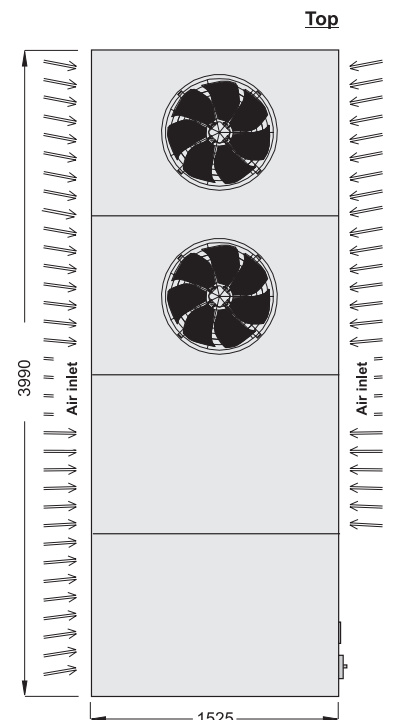
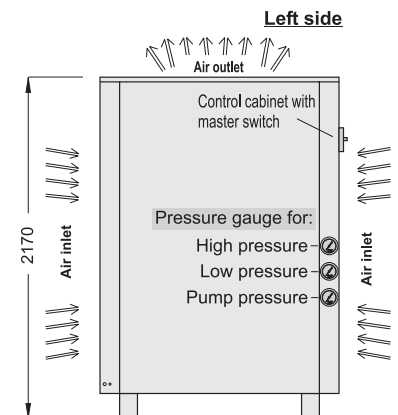
* Pressure at rated coolant flow.

Alternative units: PCGEZ 820

ProfiCool Genius Zero + options / accessories: Cat. No.

ProfiCool Genius PCGEZ 1700.03-NEB	GUPCGEZ1700.03-NEB
Pump P5-AP17B instead of P3-AP15B	MPCGEZ6-P5-AP17B-1700
Pump P8-AP19B instead of P3-AP15B	MPCGEZ6-P8-AP19B-1700
Continuous-flow system without tank and/or without pump	on request
Overflow by-pass valve	ZPCGEZ6-041-1700
Temperature constancy up to ± 0.5 K	on request
Low ambient temperature kit	MPCGEZ7-001-1700
Export version with special voltages / frequencies	on request

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



Recirculating Chiller ProfiCool Novus

- Single-circuit system including tank open to atmosphere
- Maintenance-free air-cooled refrigeration machine
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
- Built-in pump with integrated by-pass (see pump characteristics)
- Pressure gauge
- Housing powder-coated, RAL 7035 (light grey)
- Construction using evaporator coils provides effective protection against freezing



ProfiCool Novus

Model ProfiCool Novus	PCNO 10	PCNO 15	PCNO 20	PCNO 30
Net cooling capacity at +20°C	kW : 0.9	1.8	2.5	3.6
Operating range *	°C : +10 / +25	+10 / +25	+10 / +25	+10 / +25
Temperature constancy	K : ±2	±2	±2	±2
Pump	type : P16-YA62D	P16-YA62D	P16-YA62D	P16-YA62D
Pump capacity	l/min : 5.0	5.0	5.0	5.0
Pump pressure	bar : 3.0	3.0	3.0	3.0
Tank capacity	litres : 13	13	13	13
Water connection	inch : ½" female	½" female	½" female	½" female
Starting current	Amps : 20 / -	25 / -	40 / -	48 / 25
Power input max.	kW : 0.7	1.2	1.6	2.2
Operating Voltage	Models-NED : 230/50-60/1	230/50-60/1	230/50-60/1	230/50-60/1
Volts/Hz/Phase	Models-NEM : -	-	-	400/50/3
	-	-	-	460/60/3
Weight	kgs : 32	35	35	47
Dimensions (WxDxH)	mm : 480x580x430	480x580x430	480x745x445	480x745x445
Refrigerant	CFC-free : R134a	R404A	R404A	R404A

* Set Temperatures <+10°C and >+25°C on request.

ProfiCool Novus + options / accessories:

Cat. No.

ProfiCool Novus PCNO 10.02-NED
ProfiCool Novus PCNO 15.03-NED
ProfiCool Novus PCNO 20.03-NED
ProfiCool Novus PCNO 30.03-NED
ProfiCool Novus PCNO 30.03-NEM

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GUPCNO015.03-NED
GUPCNO020.03-NED
GUPCNO030.03-NED
GUPCNO030.03-NEM

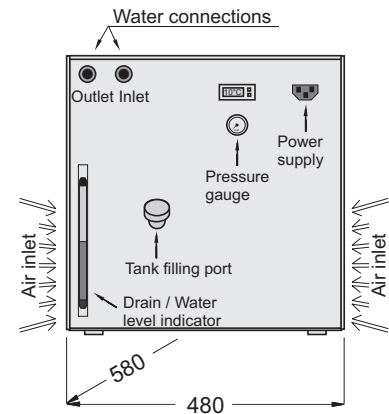
Pump P16-YA91D instead of P16-YA62D
Pump P16-YA97D instead of P16-YA62D
4 swivel castors, 2 with brakes
External housing made of stainless steel
Water connections made of stainless steel

MPCNO6-P16-YA91D-030
MPCNO6-P16-YA97D-030
YPCNO5-021-030
MPCNO5-041-030
MPCNO6-092-030

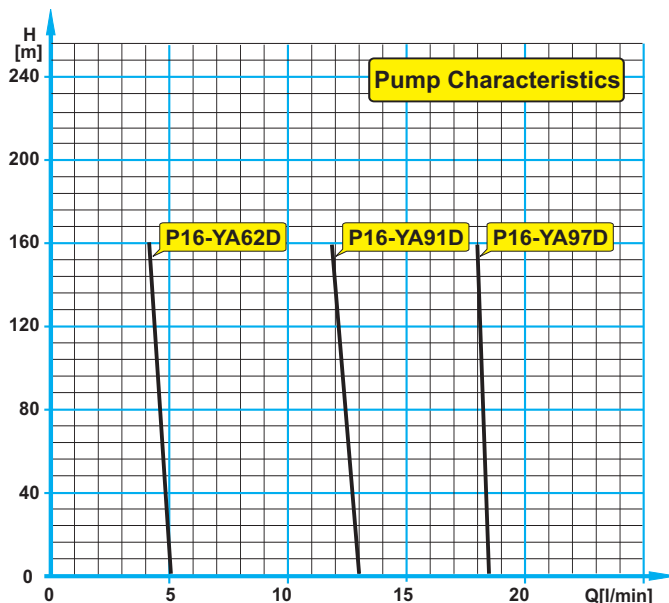
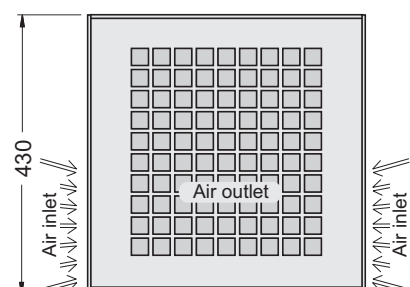
Additional accessories as well as pump alternatives on request.

PCNO 10, PCNO 15

Front



Reverse



Recirculating Chillers ProfiCool *Primus*

- Single-circuit system including tank open to atmosphere
- Air-cooled cooling machine
- Plastic tank with water level indicator
- Coil evaporator made of stainless steel
- Electronic microprocessor-controlled thermostat with digital display (LED)
- Automatic by-pass valve
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy ± 0.5 K
- Housing powder-coated, colour RAL7035 (light grey)
- Air filter mat
- Plastic feet



ProfiCool *Primus* PCPR 020

Model ProfiCool <i>Primus</i>	PCPR 009	PCPR 013	PCPR 020
Net cooling capacity at +20/+15°C	kW : 0.9 / 0.7	1.3 / 1.1	2.0 / 1.7
Eff. cooling capacity at +20/+15°C	kW : 0.6 / 0.4	1.0 / 0.8	1.7 / 1.4
Operating range *	°C : +5 / +30	+5 / +30	+5 / +30
Temperature constancy	K : ± 0.5	± 0.5	± 0.5
Rated coolant flow	m ³ /h : 0.35	0.35	0.35
Pump	type : P16-YA62D	P16-YA62D	P16-YA62D
Pump pressure **	bar : 5.0	5.0	5.0
Tank capacity	litres : 4	4	4
Water connection	< CPC quick connection couples for hose 12 mm outside Ø >		
Required flow of cooling air	m ³ /h : 500	800	1,100
Starting current	Amps : 14	19	29
Power input max.	kW : 0.7	1.0	1.4
Operating voltage	Volts/Hz/Phase : 230/50-60/1	230/50-60/1	230/50-60/1
Weight	kgs : 35	42	48
Dimensions WxDxH	mm : 235x520x625	235x520x625	235x520x625
Refrigerant	CFC-free : R134a	R134a	R404A

* Set temperatures $< +5^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

** Pressure at rated coolant flow.

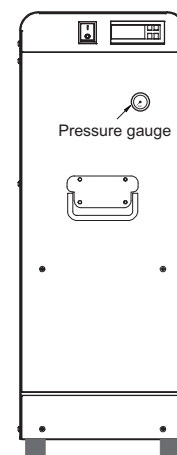
ProfiCool *Primus* + options / accessories:

Cat. No.

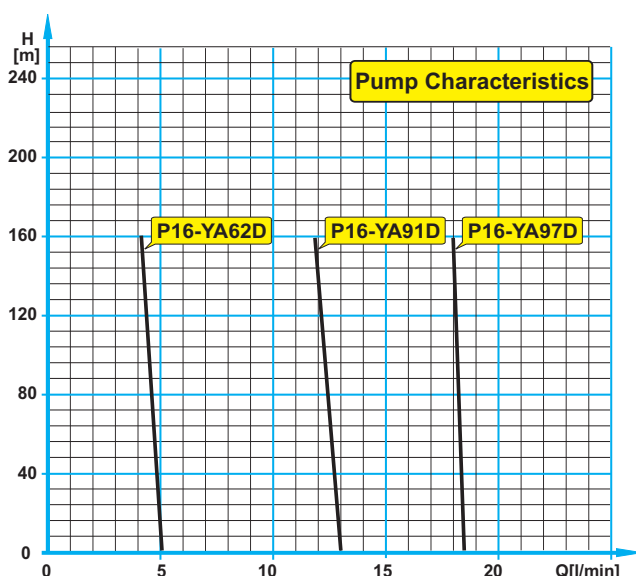
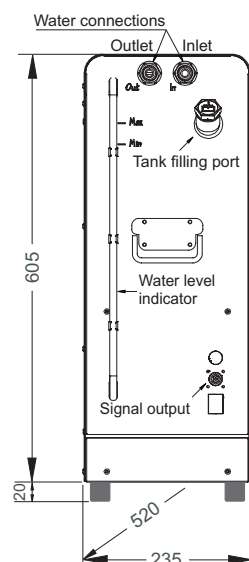
ProfiCool Primus PCPR 009.02-NED	GUPCPR009.02-NED
ProfiCool Primus PCPR 013.02-NED	GUPCPR013.02-NED
ProfiCool Primus PCPR 020.03-NED	GUPCPR020.03-NED
Pump P16-YA91D instead of P16-YA62D	MPCPR6-P16-YA91D-020
Pump P16-YA97D instead of P16-YA62D	MPCPR6-P16-YA97D-020
RS 485 interface	YPCPR2-019-020
Continuous-flow system without tank and/or without pump	on request
External housing contains stainless steel CNS	MPCPR5-041-020
4 swivel castors, 2 with brakes	YPCPR5-021-020
Enhancement working range to $\pm 0^{\circ}\text{C}$	MPCPR7-007-020
Temperature constancy up to ± 0.1 K	ZPCPR9-067-020
Export version with special voltages / frequencies	on request

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

Front



Reverse



Recirculating Chillers ProfiCool *Primus*

- Single-circuit system including tank open to atmosphere
- Air-cooled cooling machine
- Plastic tank with water level indicator
- Coil evaporator made of stainless steel
- Electronic microprocessor-controlled thermostat with digital display (LED)
- Automatic by-pass valve
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy ± 0.5 K
- Housing powder-coated, colour RAL7035 (light grey)
- Air filter mat
- Plastic feet



ProfiCool *Primus* PCPR 035 (with option castors)

Model ProfiCool <i>Primus</i>	PCPR 030	PCPR 035
Net cooling capacity at +20/+15°C kW :	3.0 / 2.5	3.5 / 2.9
Eff. cooling capacity at +20/+15°C kW :	2.7 / 2.2	3.2 / 2.6
Operating range * °C :	+5 / +30	+5 / +30
Temperature constancy K :	± 0.5	± 0.5
Rated coolant flow m ³ /h :	0.6	0.6
Pump type :	P16-YA91x	P16-YA91x
Pump pressure ** bar :	3.0	3.0
Tank capacity litres :	6.5	6.5
Water connection :	< CPC quick connection couples for hose 12 mm outside Ø >	
Required flow of cooling air m ³ /h :	2,500	2,500
Starting current 230V/400V Amps :	28 / 14	32 / 16
Power input max. 230V/400V kW :	1.7 / 1.6	1.9 / 1.9
Operating voltage Models-NED :	230/50-60/1	230/50-60/1
Volts/Hz/Phase Models-NEM :	400/50/3	400/50/3
	460/60/3	460/60/3
Weight kgs :	71	75
Dimensions WxDxH mm :	440x608x740	440x608x740
Refrigerant CFC-free :	R404A	R404A

* Set temperatures $< +5^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

** Pressure at rated coolant flow.

ProfiCool *Primus* + options / accessories:

Cat. No.

ProfiCool Primus PCPR 030.03-NED

GUPCPR030.03-NED

ProfiCool Primus PCPR 030.03-NEM

GUPCPR030.03-NEM

ProfiCool Primus PCPR 035.03-NED

GUPCPR035.03-NED

ProfiCool Primus PCPR 035.03-NEM

GUPCPR035.03-NEM

Pump P16-YA97 instead of P16-YA91

MPCPR6-P16-YA97x-035*

Pump P4-GR12 instead of P16-YA91

MPCPR6-P4-GR12x-035*

RS 485 interface

YPCPR2-019-035

Continuous-flow system without tank and/or without pump

on request

External housing contains stainless steel CNS

MPCPR5-041-035

4 swivel castors, 2 with brakes

YPCPR5-021-035

Enhancement working range to $\pm 0^{\circ}\text{C}$

MPCPR7-007-035

Temperature constancy up to ± 0.1 K

ZPCPR9-067-035

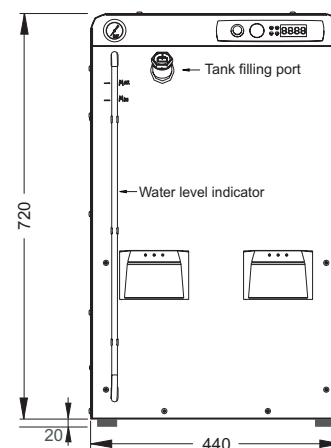
Export version with special voltages / frequencies

on request

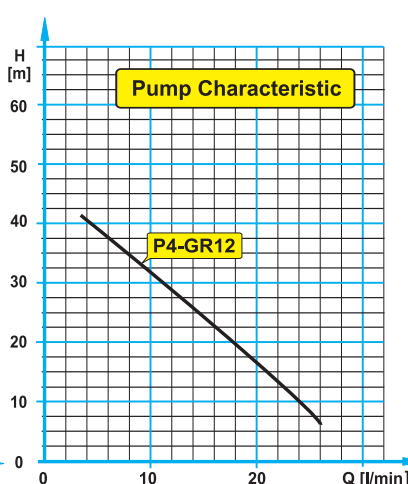
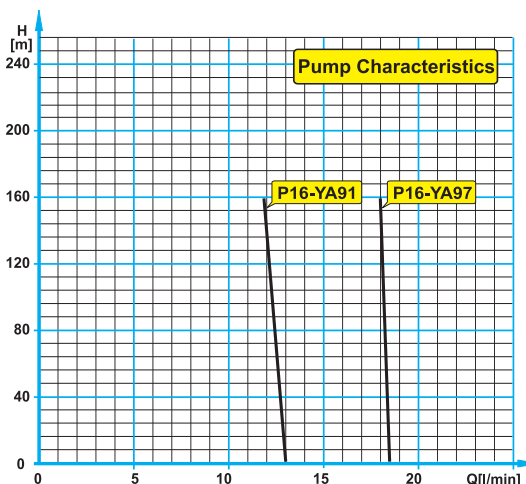
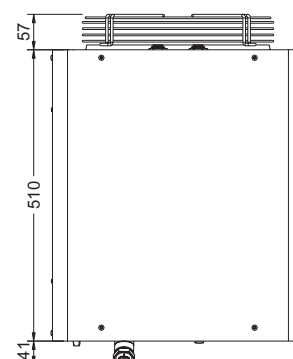
Additional options and accessories as well as pump alternatives on request.

* $\underline{x}$ = version $\underline{D}$ (230V) or $\underline{M}$ (400V / 460V) (please select).

Front



Top



Recirculating Chillers ProfiCool *Primus*

- Single-circuit system including tank open to atmosphere
- Air-cooled cooling machine
- Plastic tank with water level indicator
- Coil evaporator made of stainless steel
- Electronic microprocessor-controlled thermostat with digital display (LED)
- Automatic by-pass valve
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy ± 0.5 K
- Housing powder-coated, colour RAL7035 (light grey)
- Air filter mat
- Plastic feet



ProfiCool *Primus* PCPR 055
(with option castors)

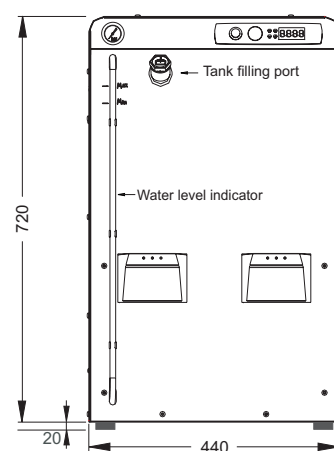
Model ProfiCool <i>Primus</i>	PCPR 045	PCPR 055
Net cooling capacity at +20/+15°C kW :	4.6 / 3.9	5.7 / 4.8
Eff. cooling capacity at +20/+15°C kW :	4.3 / 3.6	5.0 / 4.4
Operating range * °C :	+5 / +30	+5 / +30
Temperature constancy K :	± 0.5	± 0.5
Rated coolant flow m³/h :	0.6	0.6
Pump type :	P16-YA91M	P16-YA91M
Pump pressure ** bar :	3.0	3.0
Tank capacity litres :	6.5	15
Water connection :	< CPC quick conn. couples for hose 12 mm outside Ø >	
Power input max. kW :	3.1	3.9
Operating voltage Volts/Hz/Phase :	400/50/3	400/50/3
	460/60/3	460/60/3
Weight kgs :	82	107
Dimensions WxDxH mm :	440x608x740	540x608x840
Refrigerant CFC-free :	R404A	R404A

* Set temperatures $< +5^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

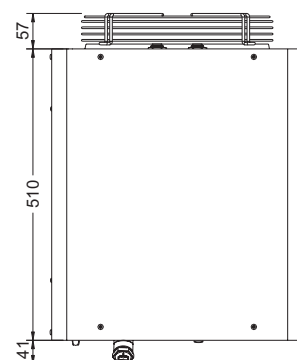
** Pressure at rated coolant flow.

PCPR 045

Front



Top

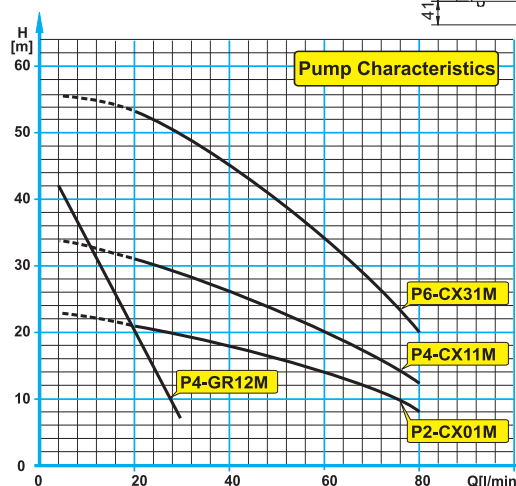
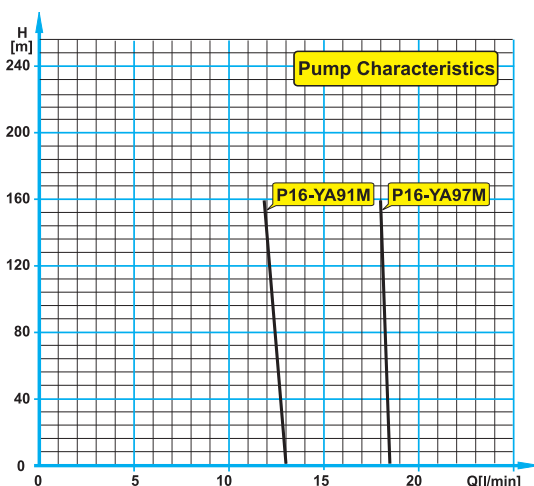


ProfiCool *Primus* + options / accessories:

Cat. No.

ProfiCool Primus PCPR 045.03-NEM	GUPCPR045.03-NEM
ProfiCool Primus PCPR 055.03-NEM	GUPCPR055.03-NEM
Pump P16-YA97M instead of P16-YA91M	MPCPR6-P16-YA97M-055
Pump P4-GR12M instead of P16-YA91M	MPCPR6-P4-GR12M-055
Pump P2-CX01M instead of P16-YA91M	MPCPR6-P2-CX01M-055
Pump P4-CX11M instead of P16-YA91M	MPCPR6-P4-CX11M-055
Pump P6-CX31M instead of P16-YA91M	MPCPR6-P6-CX31M-055
RS 485 interface	YPCPR2-019-055
Continuous-flow system without tank and/or without pump	on request
External housing contains stainless steel CNS	MPCPR5-041-055
4 swivel castors, 2 with brakes	YPCPR5-021-055
Enhancement working range to $\pm 0^{\circ}\text{C}$	MPCPR7-007-055
Temperature constancy up to ± 0.1 K	ZPCPR9-067-055
Export version with special voltages / frequencies	on request

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



Recirculating Chillers ProfiCool *Primus*

- Single-circuit system including tank open to atmosphere
- Air-cooled cooling machine
- Plastic tank with water level indicator
- Coil evaporator made of stainless steel
- Electronic microprocessor-controlled thermostat with digital display (LED)
- Automatic by-pass valve
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy ± 0.5 K
- Housing powder-coated, colour RAL7035 (light grey)
- Air filter mat
- Plastic feet



ProfiCool *Primus* PCPR 055
(with option castors)

Model ProfiCool <i>Primus</i>	PCPR 085	PCPR 105
Net cooling capacity at +20/+15°C kW :	8.5 / 7.2	10.0 / 8.6
Eff. cooling capacity at +20/+15°C kW :	8.0 / 6.9	9.4 / 8.0
Operating range * °C :	+5 / +30	+5 / +30
Temperature constancy K :	± 0.5	± 0.5
Rated coolant flow m ³ /h :	1.9	1.9
Pump type :	P4-GM15M	P4-GM16M
Pump pressure ** bar :	3.7	4.5
Tank capacity litres :	17	17
Water connection :	< CPC quick connection couples for hose 12 mm outside Ø >	
Power input max. kW :	4.1	6.8
Operating voltage Volts/Hz/Phase :	400/50/3	400/50/3
	460/60/3	460/60/3
Weight kgs :	130	150
Dimensions WxDxH mm :	600x600x950	600x600x950
Refrigerant CFC-free :	R404A	R404A

* Set temperatures $< +5^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

** Pressure at rated coolant flow.

Front

ProfiCool *Primus* + options / accessories:

Cat. No.

ProfiCool Primus PCPR 085.03-NEM

GUPCPR085.03-NEM

ProfiCool Primus PCPR 105.03-NEM

GUPCPR105.03-NEM

RS 485 interface

YPCPR2-019-105

Continuous-flow system without tank and/or without pump

on request

5 swivel castors, 2 with brakes

YPCPR5-021-105

Enhancement working range to $\pm 0^{\circ}\text{C}$

MPCPR7-007-105

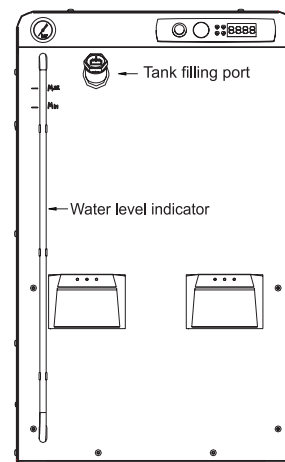
Temperature constancy up to ± 0.1 K

ZPCPR9-067-105

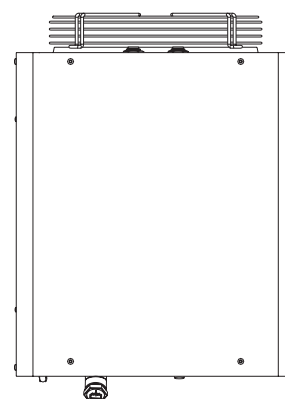
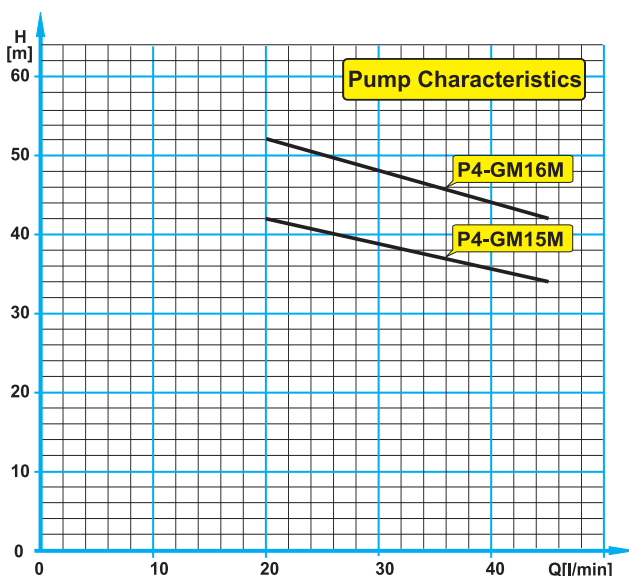
Export version with special voltages / frequencies

on request

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



Top



Recirculating Chillers ProfiCool *Modulus*

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- Tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- Automatic by-pass valve
- Hotgas-bypass
- Harting plug
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy $\pm 0,5$ K
- Housing powder-coated, colour RAL 7032 (pebble grey)
- Water flow switch
- Air filter copper/aluminium

Model ProfiCool <i>Modulus</i>	PCMO 40	PCMO 50
Net cooling capacity at +20/+15°C	kW : 4.0 / 3.5	5.0 / 4.4
Eff. cooling capacity at +20/+15°C	kW : 3.7 / 3.2	4.7 / 4.1
Operating range *	°C : +15 / +30	+15 / +30
Temperature constancy	K : ± 0.5	± 0.5
Rated coolant flow	m ³ /h : 0.9	1.2
Pump	type : P4-GA14M	P4-GA14M
Pump pressure **	bar : 2.5	3.0
Tank capacity	litres : 20	20
Water connection	Inch : G 1/2" Female	G 3/4" Female
Required flow of cooling air	m ³ /h : 1,100	2,000
Power input max.	kW : 2.1	2.5
Operating voltage	Volts/Hz/Phase : 380-415/50/3	380-415/50/3
	440-460/60/3	440-460/60/3
Weight	kgs : 95	100
Dimensions WxDxH	mm : 510x600x1200	510x600x1200
Refrigerant	CFC-free : R404A	R404A

* Set temperatures $< +15^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

** Pressure at rated coolant flow.



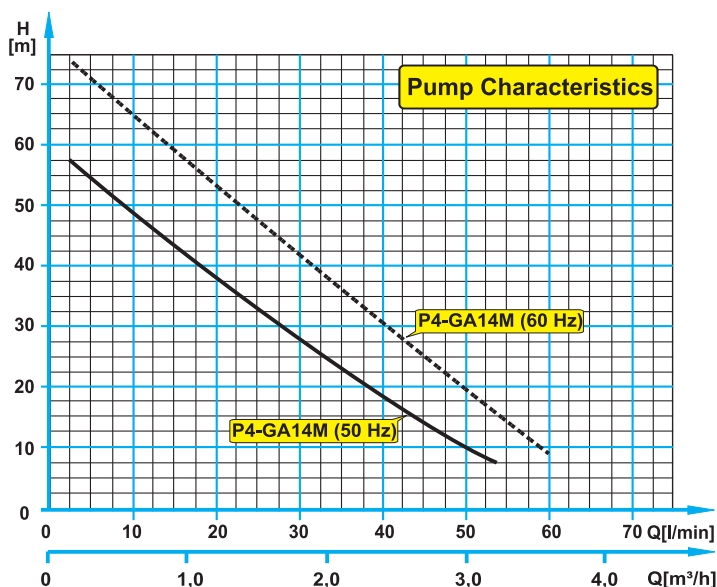
ProfiCool *Modulus* PCMO 65

ProfiCool *Modulus* + Accessories:

Cat. No.

ProfiCool Modulus PCMO 40.03-NEM	GUPCMO0040.03-NEM
ProfiCool Modulus PCMO 50.03-NEM	GUPCMO0050.03-NEM
RS 485 interface	YPCMO2-019-0050
Continuous-flow system without tank and/or without pump	on request
Enhancement working range to +5°C	MPCMO7-006-0050
Temperature constancy up to $\pm 0,1$ K	ZPCMO9-067-0050
Export version with special voltages / frequencies	on request

Additional options and accessories as well as pump alternatives on request



Recirculating Chillers ProfiCool Modulus

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- Tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- Automatic by-pass valve
- Hotgas-bypass
- Harting plug
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy $\pm 0,5$ K
- Housing powder-coated, colour RAL 7032 (pebble grey)
- Water flow switch
- Air filter copper/aluminium

Model ProfiCool Modulus	PCMO 65	PCMO 80
Net cooling capacity at +20/+15°C	kW : 6.5 / 5.7	8.0 / 6.9
Eff. cooling capacity at +20/+15°C	kW : 6.1 / 5.3	7.5 / 6.5
Operating range *	°C : +15 / +30	+15 / +30
Temperature constancy	K : ± 0.5	± 0.5
Rated coolant flow	m ³ /h : 1.5	1.8
Pump	type : P4-GA14M	P4-GA14M
Pump pressure **	bar : 3.0	6.0
Tank capacity	litres : 40	40
Water connection	Inch : G ¾" Female	G ¾" Female
Required flow of cooling air	m ³ /h : 2,500	2,500
Power input max.	kW : 3.2	4.2
Operating voltage	Volts/Hz/Phase : 380-415/50/3	380-415/50/3
	440-460/60/3	440-460/60/3
Weight	kgs : 110	145
Dimensions WxDxH	mm : 510x630x1400	560x800x1400
Refrigerant	CFC-free : R404A	R404A

* Set temperatures $< +15^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

** Pressure at rated coolant flow.



ProfiCool Modulus PCMO 65

ProfiCool Modulus + Accessories:

Cat. No.

ProfiCool Modulus PCMO 65.03-NEM

GUPCMO0065.03-NEM

ProfiCool Modulus PCMO 80.03-NEM

GUPCMO0080.03-NEM

RS 485 interface

YPCMO2-019-0080

Continuous-flow system without tank and/or without pump

on request

Enhancement working range to $+5^{\circ}\text{C}$

MPCMO7-006-0080

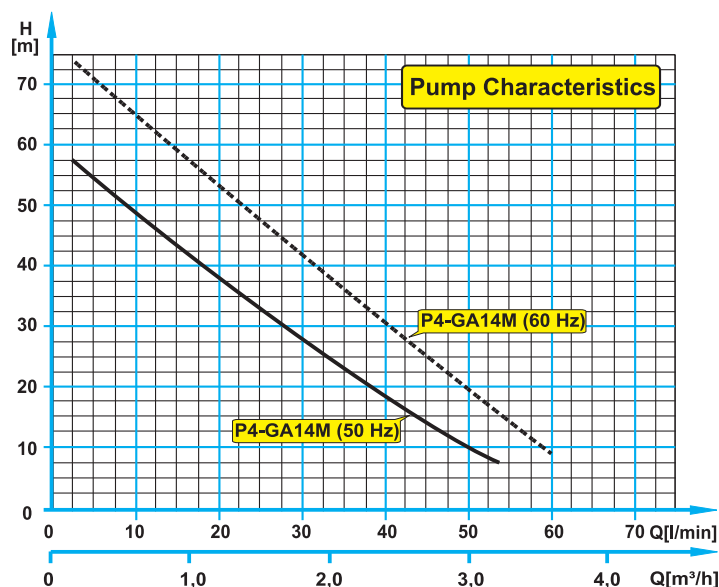
Temperature constancy up to $\pm 0,1$ K

ZPCMO9-067-0080

Export version with special voltages / frequencies

on request

Additional options and accessories as well as pump alternatives on request



Recirculating Chillers ProfiCool *Modulus*

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- Tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- Automatic by-pass valve
- Hotgas-bypass
- Harting plug
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy $\pm 0,5$ K
- Housing powder-coated, colour RAL 7032 (pebble grey)
- Water flow switch
- Air filter copper/aluminium

Model ProfiCool <i>Modulus</i>	PCMO 90	PCMO 110
Net cooling capacity at +20/+15°C	kW : 9.0 / 7.8	11.0 / 9.6
Eff. cooling capacity at +20/+15°C	kW : 8.4 / 7.3	10.3 / 9.0
Operating range *	°C : +15 / +30	+15 / +30
Temperature constancy	K : ± 0.5	± 0.5
Rated coolant flow	m ³ /h : 2.1	2.4
Pump	type : P4-GA14M	P4-GA14M
Pump pressure **	bar : 6.5	6.5
Tank capacity	litres : 40	40
Water connection	Inch : G 3/4" Female	G 3/4" Female
Required flow of cooling air	m ³ /h : 3,800	3,800
Starting current	Amps : 45	49
Power input max.	kW : 5.8	5.8
Operating voltage	Volts/Hz/Phase : 380-415/50/3	380-415/50/3
	440-460/60/3	440-460/60/3
Weight	kgs : 160	190
Dimensions WxDxH	mm : 560x800x1400	560x800x1400
Refrigerant	CFC-free : R404A	R404A

* Set temperatures $< +15^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

** Pressure at rated coolant flow.



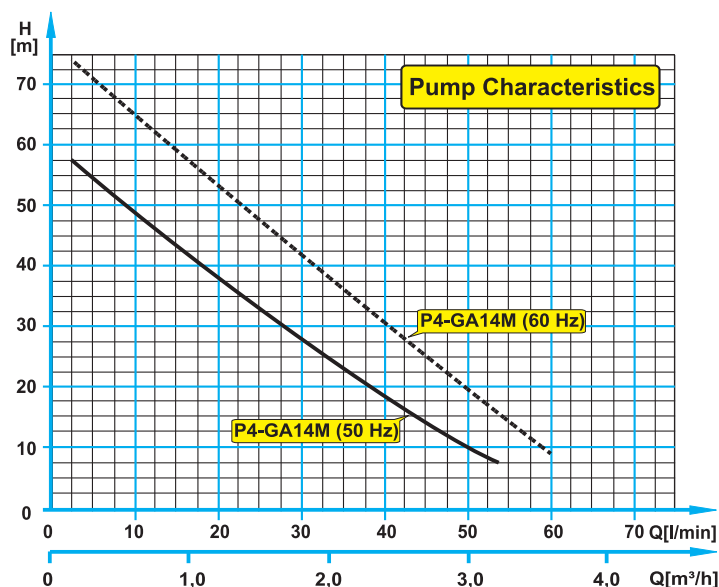
ProfiCool *Modulus* PCMO 90

ProfiCool *Modulus* + Accessories:

Cat. No.

ProfiCool Modulus PCMO 90.03-NEM	GUPCMO0090.03-NEM
ProfiCool Modulus PCMO 110.03-NEM	GUPCMO0110.03-NEM
RS 485 interface	YPCMO2-019-0110
Continuous-flow system without tank and/or without pump	on request
Enhancement working range to $+5^{\circ}\text{C}$	MPCMO7-006-0110
Temperature constancy up to $\pm 0,1$ K	ZPCMO9-067-0110
Export version with special voltages / frequencies	on request

Additional options and accessories as well as pump alternatives on request



Recirculating Chillers ProfiCool *Modulus*

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- Tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- Automatic by-pass valve
- Hotgas-bypass
- Harting plug
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy $\pm 0,5$ K
- Housing powder-coated, colour RAL 7032 (pebble grey)
- Water flow switch
- Air filter copper/aluminium

Model ProfiCool *Modulus* PCMO 120

Net cooling capacity at +20/+15°C	kW : 12.0 / 10.5
Eff. cooling capacity at +20/+15°C	kW : 11.2 / 9.7
Operating range *	°C : +15 / +30
Temperature constancy	K : ± 0.5
Rated coolant flow	m ³ /h : 2.4
Pump	type : P4-GA14M
Pump pressure **	bar : 6.5
Tank capacity	litres : 65
Water connection	Inch : G 1" Female
Required flow of cooling air	m ³ /h : 5,000
Power input max.	kW : 5.6
Operating voltage	Volts/Hz/Phase : 380-415/50/3 440-460/60/3
Weight	kgs : 295
Dimensions WxDxH	mm : 760x810x1560
Refrigerant	CFC-free : R407C

* Set temperatures $< +15^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

** Pressure at rated coolant flow.



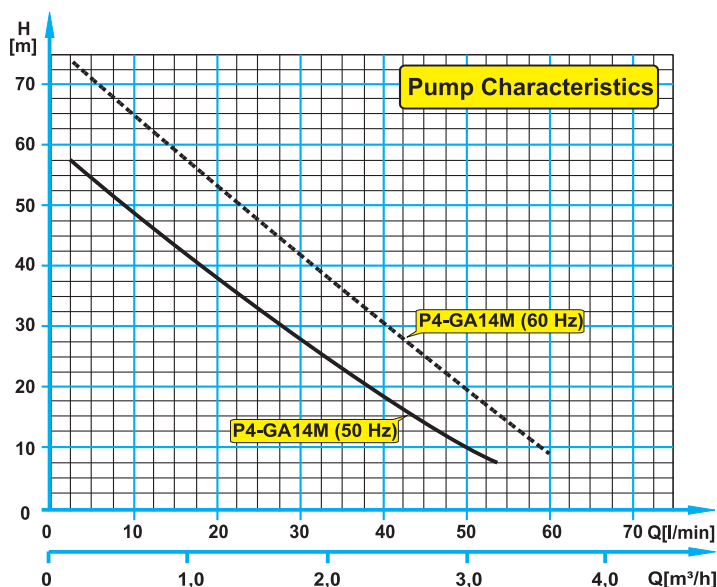
ProfiCool *Modulus* PCMO 90

ProfiCool *Modulus* + Accessories:

Cat. No.

ProfiCool Modulus PCMO 120.01-NEM	GUPCMO0120.01-NEM
RS 485 interface	YPCMO2-019-0120
Continuous-flow system without tank and/or without pump	on request
Enhancement working range to $+5^{\circ}\text{C}$	MPCMO7-006-0120
Temperature constancy up to $\pm 0,1$ K	ZPCMO9-067-0120
Export version with special voltages / frequencies	on request

Additional options and accessories as well as pump alternatives on request



Recirculating Chillers ProfiCool *Modulus*

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- Tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- Automatic by-pass valve
- Hotgas-bypass
- Harting plug
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy $\pm 0,5$ K
- Housing powder-coated, colour RAL 7032 (pebble grey)
- Water flow switch
- Air filter copper/aluminium

Model ProfiCool <i>Modulus</i>	PCMO 150	PCMO 200	PCMO 250
Net cooling capacity at +20/+15°C	kW : 15.0 / 13.1	20.0 / 17.5	25.0 / 21.8
Eff. cooling capacity at +20/+15°C	kW : 14.0 / 12.2	18.6 / 16.2	23.3 / 20.3
Operating range *	°C : +15 / +30	+15 / +30	+15 / +30
Temperature constancy	K : ± 0.5	± 0.5	± 0.5
Rated coolant flow	m ³ /h : 2.4	3.0	-
Tank capacity	litres : 100	100	-
Water connection	Inch : G 1" Female	G 1¼" Female	G 1½" Female
Required flow of cooling air	m ³ /h : 6,500	6,500	-
Power input max.	kW : 6.5	7.0	-
Operating voltage	Volts/Hz/Phase : 380-415/50/3	380-415/50/3	380-415/50/3
	440-460/60/3	440-460/60/3	440-460/60/3
Weight	kgs : 295	310	-
Dimensions WxDxH	mm : 760x810x1850	760x810x1850	-
Refrigerant	CFC-free : R407C	R407C	R407C

* Set temperatures $< +15^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

** Pressure at rated coolant flow.



ProfiCool *Modulus* PCMO 90

ProfiCool *Modulus* + Accessories:

Cat. No.

ProfiCool Modulus PCMO 150.01-NEM	GUPCMO0150.01-NEM
ProfiCool Modulus PCMO 200.01-NEM	GUPCMO0200.01-NEM
ProfiCool Modulus PCMO 250.01-NEM	GUPCMO0250.01-NEM
RS 485 interface	YPCMO2-019-0250
Continuous-flow system without tank and/or without pump	on request
Enhancement working range to $+5^{\circ}\text{C}$	MPCMO7-006-0250
Temperature constancy up to $\pm 0,1$ K	ZPCMO9-067-0250
Export version with special voltages / frequencies	on request

Additional options and accessories as well as pump alternatives on request



National Lab GmbH
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Tel.: +49 45 42 / 84 91 - 10
Fax: +49 45 42 / 84 91 - 11
e-Mail: ProfiCool@NationalLab.com

Recirculating Chillers ProfiCool *Modulus*

- Single-circuit systems including tank open to atmosphere
- Air-cooled cooling machine
- Tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- Automatic by-pass valve
- Hotgas-bypass
- Harting plug
- Pressure gauge
- 2-stage level switch
- Built-in pump (see pump characteristics)
- Temperature constancy $\pm 0,5$ K
- Housing powder-coated, colour RAL 7032 (pebble grey)
- Water flow switch
- Air filter copper/aluminium

Model ProfiCool *Modulus* PCMO 450

Net cooling capacity at +20/+15°C	kW :	40.0 / 34.8
Eff. cooling capacity at +20/+15°C	kW :	37.2 / 32.4
Operating range *	°C :	+15 / +30
Temperature constancy	K :	± 0.5
Rated coolant flow	m ³ /h :	6.0
Pump pressure **	bar :	5.0
Tank capacity	litres :	180
Water connection	Inch :	R 1 1/4" Female
Required flow of cooling air	m ³ /h :	13,000
Power input max.	kW :	13.5
Operating voltage	Volts/Hz/Phase :	380-415/50/3 440-460/60/3
Weight	kgs :	390
Dimensions WxDxH	mm :	1600x810x1850
Refrigerant	CFC-free :	R407C

* Set temperatures $< +15^{\circ}\text{C}$ and $> +30^{\circ}\text{C}$ on request.

** Pressure at rated coolant flow.



ProfiCool *Modulus* PCMO 90

ProfiCool *Modulus* + Accessories:

Cat. No.

ProfiCool Modulus PCMO 450.01-NEM	GUPCMO0450.01-NEM
RS 485 interface	YPCMO2-019-0450
Continuous-flow system without tank and/or without pump	on request
Enhancement working range to $+5^{\circ}\text{C}$	MPCMO7-006-0450
Temperature constancy up to $\pm 0,1$ K	ZPCMO9-067-0450
Export version with special voltages / frequencies	on request

Additional options and accessories as well as pump alternatives on request

Recirculating Chillers ProfiCool *Exactus*

- 19" rack with 2 handles
- Air-cooled cooling machine
- Heat exchanger made of stainless steel in plastic tank
- Water circuit with non-corrosive materials
- Optical water level indicator
- Operating panel with electronic control and digital display
 - Alarm for high and low temperature
 - RS 485 interface
 - Remote control
 - General alarm
- Automatic by-pass valve
- Hotgas-bypass for proper temperature stability
- Pressure gauge
- Liquid level switch
- Housing powder-coated RAL 7035 (light grey)
- Tank filling port at reverse or top
- Extremely quiet
- Hose connections as user-friendly quick connections



ProfiCool *Exactus* PCEX 007
(with option front panel black)

Model ProfiCool <i>Exactus</i>	PCEX 007	PCEX 012	PCEX 014
Eff. cooling capacity at +20°C	watts : 680	990	1,200
Operating range	°C : +15 / +30	+15 / +30	+15 / +30
Temperature constancy	K : ±0.1	±0.1	±0.1
Pump	type : P16-YA62D	P16-YA62D	P16-YA62D
Pump capacity	l/min : 4-5	4-5	4-5
Pump pressure	bar : 0-8	0-8	0-8
Tank capacity	litres : 4.5	4.5	6
Water connection (quick conn.)	< 12 mm outside diameter	>	12 mm outside diam.
Required flow of cooling air	m³/h : 450	450	450
Power input	kW : 0.54	1.17	1.26
Operating voltage	Volts/Hz/Phase : 230/50-60/1	230/50-60/1	230/50-60/1
Weight	kgs : 34	35	35
Dimensions (WxD)	mm : 440x455	440x455	440x455
Height (1 rack unit = 44.5 mm)	RU : 6	6	6
Refrigerant	CFC-free : R134a	R134a	R134a

ProfiCool *Exactus* + options / accessories:

Cat. No.

ProfiCool *Exactus* PCEX 007.02-KED

GUPCEX007.02-KED

ProfiCool *Exactus* PCEX 012.02-KED

GUPCEX012.02-KED

ProfiCool *Exactus* PCEX 014.02-KED

GUPCEX014.02-KED

Pump P16-YA91D instead of P16-YA62D

MPCEX6-P16-YA91D-014

Pump P16-YA97D instead of P16-YA62D

MPCEX6-P16-YA97D-014

Water flow switch, brass

YPCEX6-008-055

Water flow switch, plastic

YPCEX6-009-055

Enhancement operating range +5/+30°C

MPCEX7-006-055

DI kit (operation with deionized water)

on request

Export model with special voltages / frequencies

on request

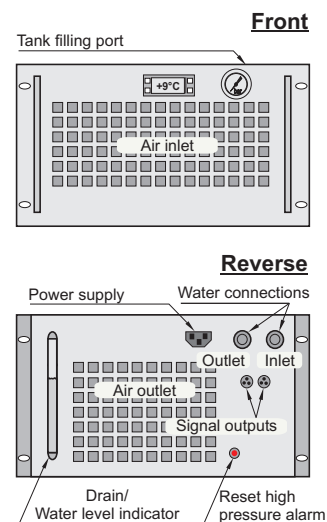
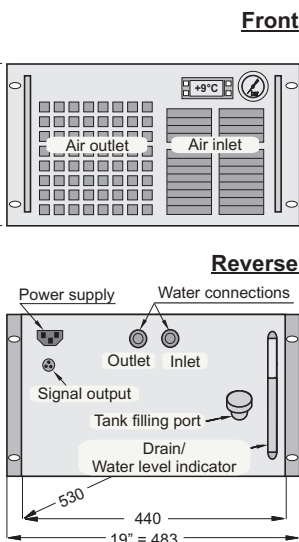
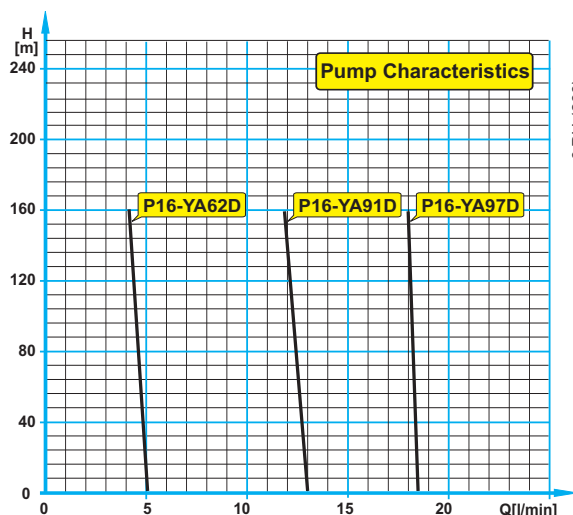
Additional accessories available on request.



ProfiCool *Exactus* PCEX 007
(reverse)

PCEX 007, PCEX 012

PCEX 014



Recirculating Chillers ProfiCool *Exactus*

- 19" rack with 2 handles
- Air-cooled cooling machine
- Heat exchanger made of stainless steel in plastic tank
- Water circuit with non-corrosive materials
- Optical water level indicator
- Operating panel with electronic control and digital display
 - Alarm for high and low temperature
 - RS 485 interface
 - Remote control
 - General alarm
- Automatic by-pass valve
- Hotgas-bypass for proper temperature stability
- Pressure gauge
- Liquid level switch
- Housing powder-coated RAL 7035 (light grey)
- Tank filling port at front
- Extremely quiet
- Hose connections as user-friendly quick connections



ProfiCool *Exactus* PCEX 020

Model ProfiCool <i>Exactus</i>	PCEX 020	PCEX 055
Eff. cooling capacity at +20°C	kW : 1.8	5.3
Operating range	°C : +15 / +30	+15 / +30
Temperature constancy	K : ±0.1	±0.1
Pump	type : P4-GR11D	P2-GA13M
Pump capacity	l/min : 5-20	5-45
Pump pressure	bar : 0.5-4	0.7-3.5
Tank capacity	litres : 4.5	20
Water connection (quick conn.)	12 mm outside diameter	¾" Female
Required flow of cooling air	m³/h : 750	3,000
Power input	kW : 1.10	3.50
Operating voltage	Volts/Hz/Phase : 230/50-60/1	400-460/50-60/3
Weight	kgs : 40	70
Dimensions (WxD)	mm : 440x500	440x580
Height (1 rack unit = 44.5 mm)	RU : 7.5	17
Refrigerant	CFC-free : R404A	R404A

ProfiCool *Exactus* + options / accessories: Cat. No.

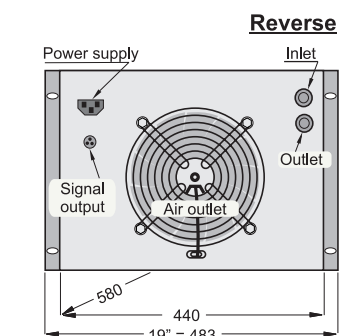
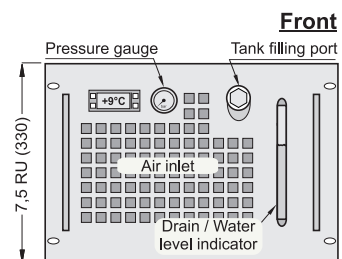
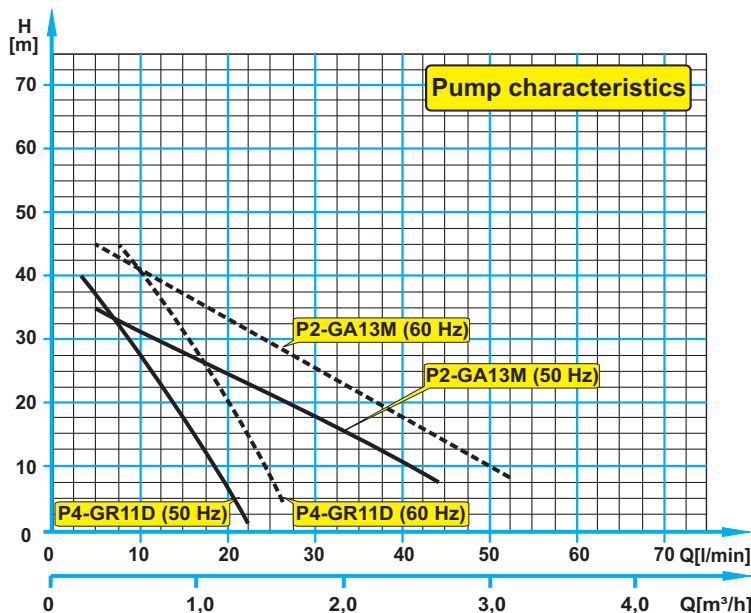
ProfiCool <i>Exactus</i> PCEX 020.03-KED	GUPCEX020.03-KED
ProfiCool <i>Exactus</i> PCEX 055.03-KEM	GUPCEX055.03-KEM
Water flow switch, brass	YPCEX6-008-055
Water flow switch, plastic	YPCEX6-009-055
Enhancement operating range +5/+30°C	MPCEX7-006-055
DI kit (operation with deionized water)	on request
Export model with special voltages / frequencies	on request

Additional accessories available on request.



ProfiCool *Exactus* PCEX 020 (reverse)

PCEX 020



Laboratory Recirculating Chiller ProfiCool *Filius*

- Single-circuit system including tank open to atmosphere
- Air-cooled refrigeration machine
- Stainless steel tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- On/Off switch
- Built-in pump (see pump characteristic)
- Gauge
- Hose connection (nipple) standard with nominal size 8 mm
- Housing made of stainless steel



ProfiCool *Filius* PCFi 06

Model ProfiCool <i>Filius</i>	PCFi 04	PCFi 06
Eff. cooling capacity at +20°C watts :	400	600
Eff. cooling capacity at -10°C watts :	180	220
Operating range °C :	-20 / +40	-20 / +40
Temperature constancy K :	±0.5	±0.5
Pump capacity l/min :	16	16
Pump pressure max. bar :	0.5	0.5
Tank capacity litres :	3.0	3.5
Water connection (hose nipple) :	NW8	NW8
Power input kW :	0.7	0.75
Operating voltage Volts/Hz/Phase :	230/50/1	230/50/1
Weight kgs :	30	30
Dimensions (WxDxH) mm :	280x360x520	280x360x520
Refrigerant CFC-free :	R507	R507

ProfiCool *Filius* + options / accessories:

Cat. No.

ProfiCool Filius PCFi 04.05-NEA

GUPCFi004.05-NEA

ProfiCool Filius PCFi 06.05-NEA

GUPCFi006.05-NEA

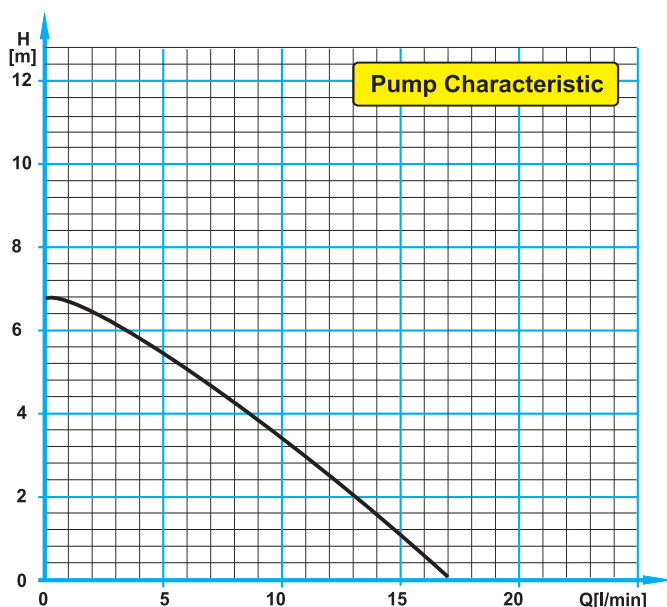
Version as single-circuit system including tank closed to the atmosphere for PCFi 04

GUPCFi004.05-NDA

Version as single-circuit system including tank closed to the atmosphere for PCFi 06

GUPCFi006.05-NDA

Additional accessories as well as pump alternatives on request.



Laboratory Recirculating Chiller ProfiCool *Filius*

- Single-circuit system including tank open to atmosphere
- Air-cooled refrigeration machine
- Stainless steel tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- On/Off switch
- Built-in pump (see pump characteristic)
- Gauge
- Hose connection (nipple) standard with nominal size 8 mm
- Housing made of stainless steel



ProfiCool *Filius* PCFi 12

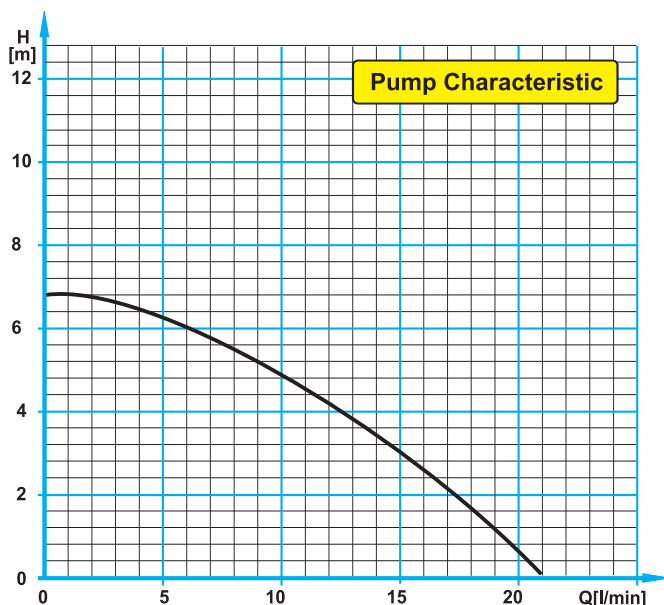
Model ProfiCool <i>Filius</i>		PCFi 10	PCFi 12	PCFi 14
Eff. cooling capacity at +20°C	watts :	1,000	1,200	1,400
Eff. cooling capacity at -10°C	watts :	230	260	275
Operating range	°C :	-20 / +40	-20 / +40	-20 / +40
Temperature constancy	K :	±0.5	±0.5	±0.5
Pump capacity	l/min :	20	20	20
Pump pressure max.	bar :	0.6	0.6	0.6
Tank capacity	litres :	5	5	5
Water connection (hose nipple)	:	NW8	NW8	NW8
Power input	kW :	1.0	1.1	1.35
Operating voltage	Volts/Hz/Phase :	230/50/1	230/50/1	230/50/1
Weight	kgs :	40	50	55
Dimensions (WxDxH)	mm :	400x450x570	400x450x670	400x450x670
Refrigerant	CFC-free :	R507	R507	R507

ProfiCool *Filius* + options / accessories:

Cat. No.

ProfiCool <i>Filius</i> PCFi 10.05-NEA	GUPCFi010.05-NEA
ProfiCool <i>Filius</i> PCFi 12.05-NEA	GUPCFi012.05-NEA
ProfiCool <i>Filius</i> PCFi 14.05-NEA	GUPCFi014.05-NEA
Version as single-circuit system including tank closed to the atmosphere for PCFi 10	GUPCFi010.05-NDA
Version as single-circuit system including tank closed to the atmosphere for PCFi 12	GUPCFi012.05-NDA
Version as single-circuit system including tank closed to the atmosphere for PCFi 14	GUPCFi014.05-NDA

Additional accessories as well as pump alternatives on request.



Laboratory Recirculating Chiller ProfiCool *Filius*

- Single-circuit system including tank open to atmosphere
- Air-cooled refrigeration machine
- Stainless steel tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display
- On/Off switch
- Built-in pump (see pump characteristic)
- Gauge
- Hose connection (nipple) standard with nominal size 8 mm
- Housing made of stainless steel

Model ProfiCool <i>Filius</i>	PCFi 20	PCFi 25
Eff. cooling capacity at +20°C watts :	2,000	2,500
Eff. cooling capacity at -10°C watts :	450	500
Operating range °C :	-20 / +40	-20 / +40
Temperature constancy K :	±0.5	±0.5
Pump capacity l/min :	16	16
Pump pressure max. bar :	3.0	3.0
Tank capacity litres :	15	15
Water connection (hose nipple) :	NW8	NW8
Power input kW :	1.65	1.8
Operating voltage Volts/Hz/Phase :	230/50/1	230/50/1
Weight kgs :	110	125
Dimensions (WxDxH) mm :	550x450x1100	550x450x1100
Refrigerant CFC-free :	R507	R507



ProfiCool *Filius* PCFi 20
(version with feet instead of castors)

ProfiCool *Filius* + options / accessories:

Cat. No.

ProfiCool *Filius* PCFi 20.05-NEA

GUPCFi020.05-NEA

ProfiCool *Filius* PCFi 25.05-NEA

GUPCFi025.05-NEA

Version as single-circuit system including tank closed to the atmosphere for PCFi 20

GUPCFi020.05-NDA

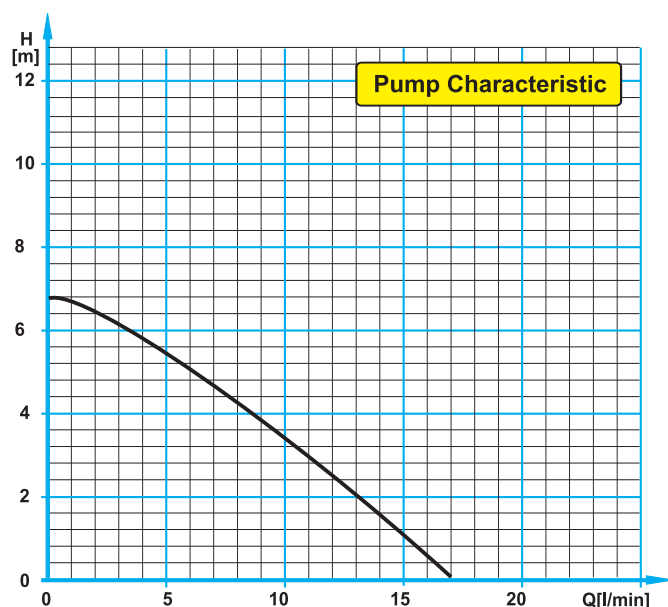
Version as single-circuit system including tank closed to the atmosphere for PCFi 25

GUPCFi025.05-NDA

Housing with dimensions WxDxH = 710x525x560 mm instead of standard housing

MPCFi6-037-025

Additional accessories as well as pump alternatives on request.



Recirculating Chiller ProfiCool *Minimus*

- Single-circuit system including tank open to atmosphere
- Maintenance-free air-cooled refrigeration machine
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
- Built-in pump (see pump characteristics)
- Housing powder-coated, bicolour (blue/white)
- Construction using evaporator coils provides effective protection against freezing
- Extremely quiet



ProfiCool *Minimus*

Model ProfiCool <i>Minimus</i>	PCMin 04.02	PCMin 06.02
Net cooling capacity at +20°C/+15°C watts	350/310	500/450
Operating range *	°C : +5 / +25	+5 / +25
Pump	type : P1-KA14D	P1-KA14D
Pump capacity	l/min : 12.5	12.5
Pump pressure	bar : 0.75	0.75
Tank capacity	litres : 7	7
Water connection (quick connection)	for hose 10 mm outside diameter	
Power input max.	kW : 0.35	0.47
Operating Voltage	Volts/Hz/Phase : 230/50-60/1	230/50-60/1
Weight	kgs : 22	25
Dimensions WxDxH	mm : 413x283x415	413x283x415
Refrigerant	CFC-free : R134a	R134a

* Set Temperatures <+5°C and >+25°C on request.

ProfiCool *Minimus* + options / accessories:

Cat. No.

ProfiCool Minimus PCMin 04.02-NED

GUPCMin04.02-NED

ProfiCool Minimus PCMin 06.02-NED

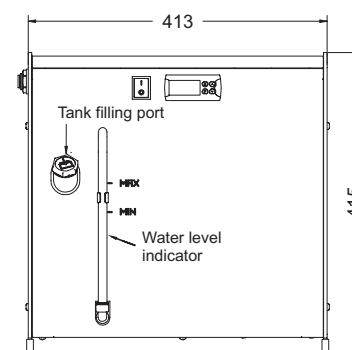
GUPCMin06.02-NED

Pump P1-KA15D instead of P1-KA14D

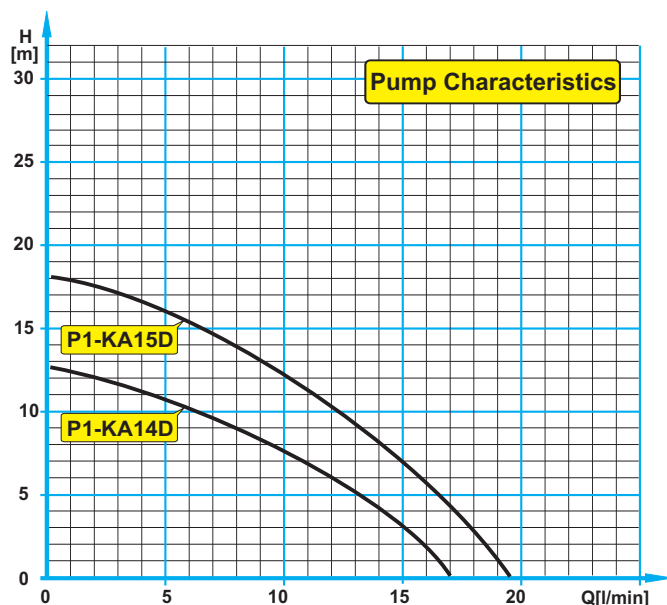
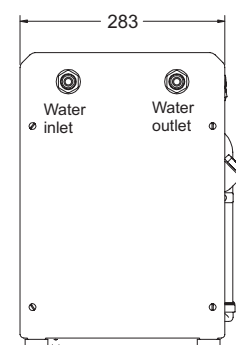
MPCMin6-P1-KA15D

Additional accessories as well as pump alternatives on request.

Front



Left side



Oil Recirculating Chillers OilCool Genius

- Continuous-flow systems without tank for closed oil circuits
- Air-cooled cooling machine
- 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 switch
- Fan controlled by static pressure
- Housing powder-coated, colour RAL 7043 (traffic grey B)



OilCool Genius
(with option castors)

Model OilCool Genius	OCGE 41	OCGE 61	OCGE 71
Net cooling capacity * at +30°C/+20°C	kW : 5.2 / 3.9	7.3 / 5.5	8.9 / 6.7
Eff. cooling capacity * at +30°C/+20°C	kW : 5.0 / 3.7	6.8 / 5.0	8.4 / 6.2
Operating range	°C : +20 / +30	+20 / +30	+20 / +30
Temperature constancy	K : ±2	±2	±2
Pump	type : P4-AX12x	P7-AU15B	P7-AU15B
Rated coolant flow	m³/h : 1.2	1.2	1.3
Pump pressure	bar : 3.7	6.2	6.0
Oil connection (Female)	Inch : G 1"	G 1"	G 1"
Required flow of cooling air	m³/h : 2,300	2,100	2,100
Starting current 230V/400V	Amps : 35 / 15	— / 28	— / 49
Power input 230V/400V	kW : 2.4 / 2.4	— / 3.6	— / 3.3
Operating voltage	Models-NEA : 230/50/1	—	—
Volts/Hz/Phase	Models-NEB : 400/50/3	400/50/3	400/50/3
Weight	kgs : 110	123	125
Dimensions (WxDxH)	mm : 580x650x920	580x650x920	580x650x920
Refrigerant	CFC-free : R134a	R134a	R134a

* Relating to oil specification ISOVG32.

Alternative units: OCGE 101

OilCool Genius + options / accessories:

Cat. No.

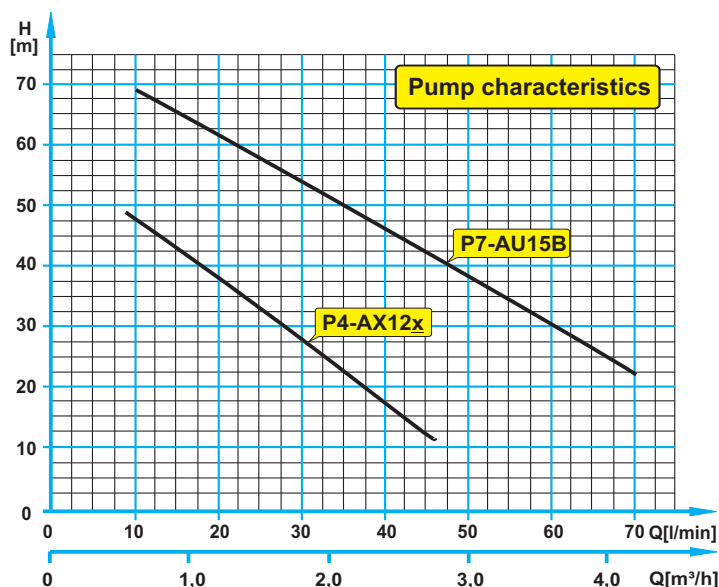
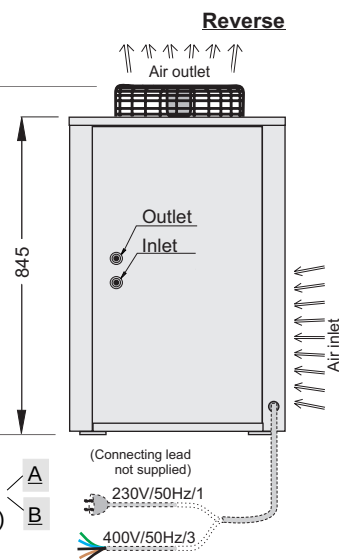
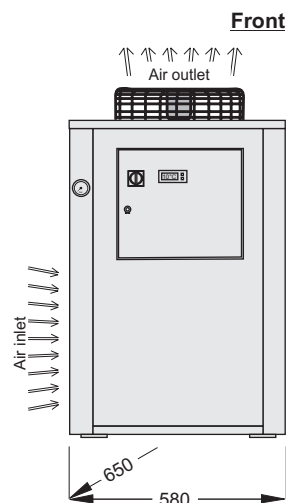
OilCool Genius OCGE 41.02-NDA
OilCool Genius OCGE 41.02-NDB
OilCool Genius OCGE 61.02-NDB
OilCool Genius OCGE 71.02-NDB

GUOCGE041.02-NDA
GUOCGE041.02-NDB
GUOCGE061.02-NDB
GUOCGE071.02-NDB

Continuous-flow system with tank and/or without pump
4 swivel castors, 2 with brakes
Export version with special voltages / frequencies

on request
ZOCGE5-021-071
on request

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



x = Version
(Please select)

(Connecting lead not supplied)
230V/50Hz/1
400V/50Hz/3

Oil Recirculating Chillers OilCool Genius

- Continuous-flow systems without tank for closed oil circuits
- Air-cooled cooling machine
- 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 switch
- Fan controlled by static pressure
- Housing powder-coated, colour RAL 7035 (light grey)



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

Model OilCool Genius	OCGE 101	OCGE 131	OCGE 151
Net cooling capacity * at +30°C/+20°C	kW : 13.0 / 9.7	17.4 / 13.0	19.9 / 14.9
Eff. cooling capacity * at +30°C/+20°C	kW : 12.5 / 9.2	16.9 / 12.5	19.4 / 14.4
Operating range	°C : +20 / +30	+20 / +30	+20 / +30
Temperature constancy	K : ±2	±2	±2
Pump	type : P6-AZ13B	P6-AZ13B	on request
Rated coolant flow	m³/h : 1.4	1.8	—
Pump pressure	bar : 5.7	5.5	—
Oil connection (Female)	Inch : G 1½"	G 1½"	G 1½"
Required flow of cooling air	m³/h : 4,600	4,200	6,000
Starting current 230V/400V	Amps : 51	56	60
Power input 230V/400V	kW : 5.1	5.6	3.6
Operating voltage	Volts/Hz/Phase : 400/50/3	400/50/3	400/50/3
Weight	kgs : 140	150	170
Dimensions (WxDxH)	mm : 760x760x1335	760x760x1335	760x760x1380
Refrigerant	CFC-free : R407C	R407C	R407C

* Relating to oil specification ISOVG32.

Alternative units: OilCool Genius 71

OilCool Genius + options / accessories:

Cat. No.

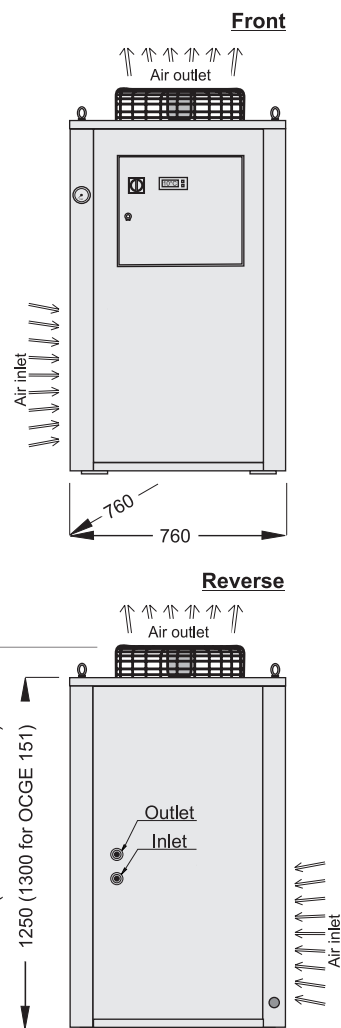
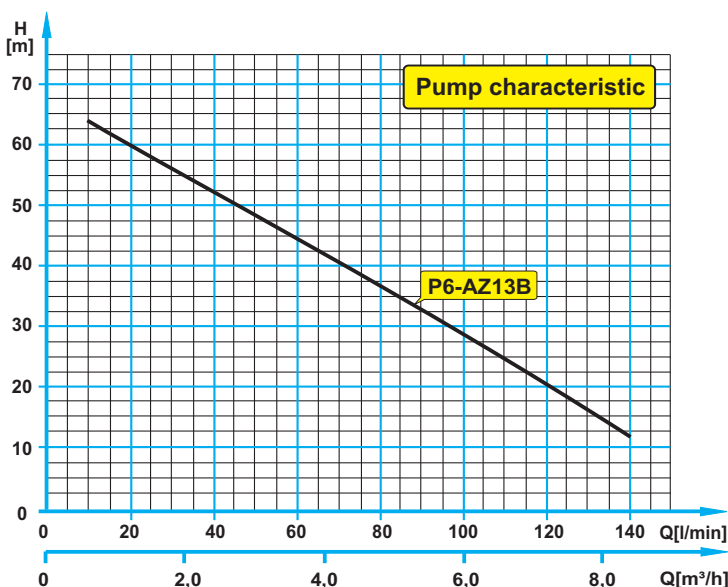
OilCool Genius OCGE 81.01-NDB
OilCool Genius OCGE 131.01-NDB
OilCool Genius OCGE 151.01-ND0B

GUOCGE101.01-NDB
GUOCGE131.01-NDB
GUOCGE151.01-ND0B

Continuous-flow system with tank and/or without pump
Export version with special voltages / frequencies

on request
on request

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



FlowCool Unicus

Water-to-Water Heat Exchanger System



FlowCool Unicus

For many cooling applications (e.g. lasers, electron microscopes or x-ray generators, and countless more) the company's in-house, central cooling water is too cold and/or of insufficient quality.

The FlowCool *Unicus* provides the solution. It employs a water-to-water heat exchanger system, i.e. a cooling system without an active refrigerating unit. The application is cooled via its own water circuit (= application cooling circuit) while the dissipated process heat is transferred to the central cooling water supply (= in-house cooling circuit).

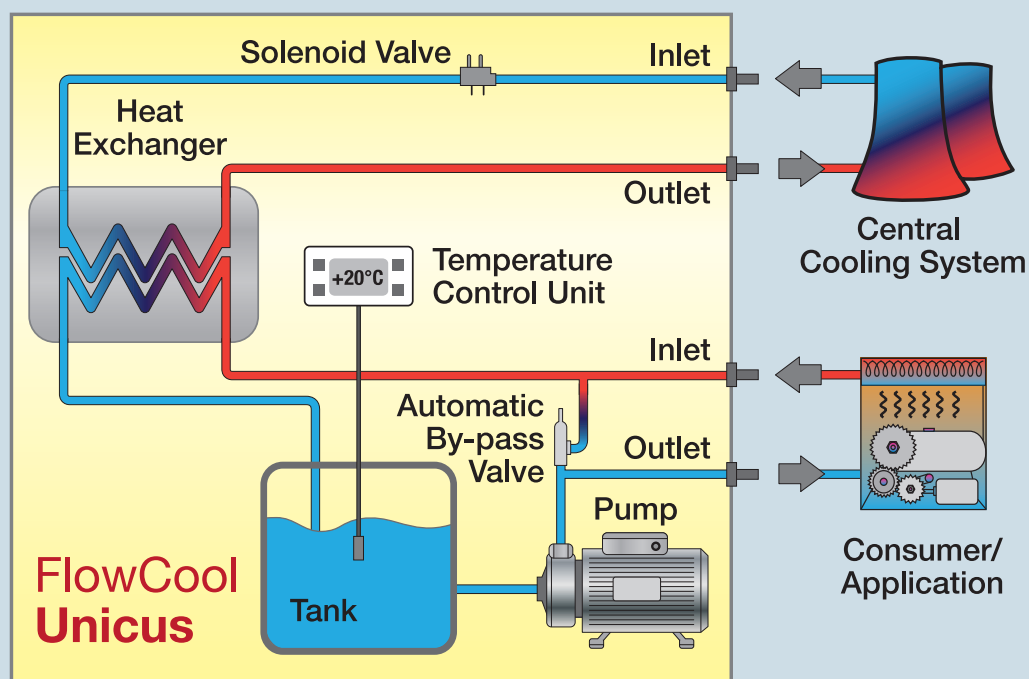
The benefits at a glance:

- Correct and constant water temperature.
- Constant water quality without dirt, lime, algae or rust.
- Correct and constant water pressure.
- Extremely quiet, hence suitable for use directly at the workplace.
- Reliable even at elevated ambient temperatures.
- No additional heat load at installation site.
- Extremely low energy consumption compared with circulating chillers.



Individual colour preferences from machinery and plant manufacturers are also implemented for small production quantities.

Schematic Diagram



Similar to the chiller series various hydraulic systems without tank and/or without pump are available according to customers requirements.

Water-to-Water Heat Exchanger System FlowCool *Unicus*

The FlowCool *Unicus* is a cooling system without active refrigeration. The process heat is transferred via a heat exchanger to the central cooling water supply (=in-house cooling circuit). The application itself is cooled via its own water circuit (=application cooling circuit). This system offers controllable water quality and runs very quietly. For this reason it is popular in laboratories and other working areas.

The FlowCool *Unicus* can be usefully employed whenever the required or acceptable temperature for the application lies above the temperature of the central cooling water supply. It is supplied ready for connection and equipped with:

- Plastic tank
- Electronic control with digital display
- General alarm
- Remote control
- Plate heat exchanger (stainless steel, copper-brazed)
- Pump
- Pump pressure gauge
- 2-way control valve
- Housing powder-coated steel plate RAL 9002 (grey white)
- Level switch

Model FlowCool *Unicus*

FCUN 001

Net cooling capacity*	kW : 1.3
Operating range cooling temperature	°C : +10 / +50
Operating range ambient temperature	°C : +2 / +40
Temperature constancy****	K : ±2
Rated coolant flow**	m³/h : 0.6
Pump	type : P3-BR11A
Pump pressure***	bar : 2.9
Tank capacity	litres : 10
Water connection (hose olives)	: for hose 12 mm inside diameter
Power input max.	kW : 0.4
Operating voltage	volt/Hz/phase : 230/50/1
Weight	kgs : 19
Dimensions (WxDxH)	mm : 230x520x650

* at dT 5K between in-house cooling circuit / application cooling circuit.

** at dT 5K in the application cooling circuit between feed and return.

*** pressure at rated coolant flow.

**** other temperature constancies on request.

Alternative units: FCUN 004

FlowCool *Unicus* + options / accessories:

Cat. No.

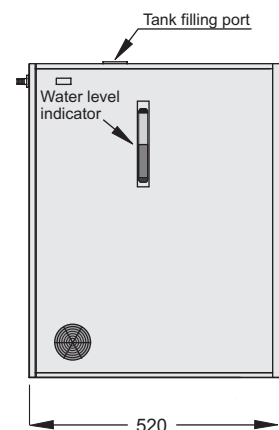
FlowCool <i>Unicus</i> FCUN 001-NEA	GUFCUN001-NEA
Pumpe P6-BR12A instead of P3-BR11A	MFCUN6-P6-BR12A-001
Pumpe P7-BR17A instead of P3-BR11A	MFCUN6-P7-BR17A-001
Continuous-flow system without tank and/or without pump	on request
Automatic by-pass valve	ZFCUN6-041-001
Export version with special voltages / frequencies	on request

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

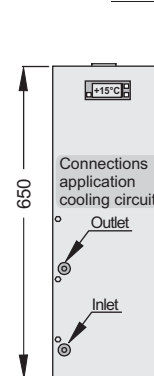


FlowCool *Unicus*

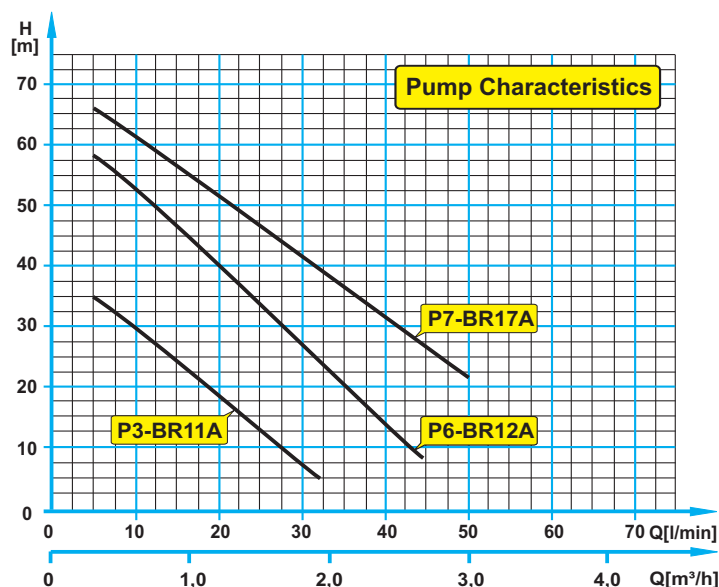
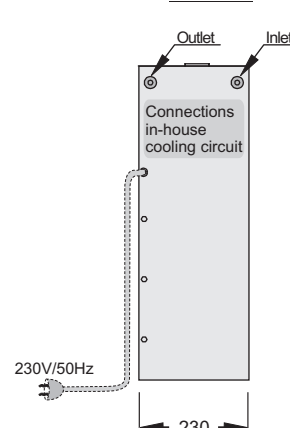
Left side



Front



Reverse



Water-to-Water Heat Exchanger System FlowCool *Unicus*

The FlowCool *Unicus* is a cooling system without active refrigeration. The process heat is transferred via a heat exchanger to the central cooling water supply (=in-house cooling circuit). The application itself is cooled via its own water circuit (=application cooling circuit). This system offers controllable water quality and runs very quietly. For this reason it is popular in laboratories and other working areas.

The FlowCool *Unicus* can be usefully employed whenever the required or acceptable temperature for the application lies above the temperature of the central cooling water supply. It is supplied ready for connection and equipped with:

- Plastic tank
- Electronic control with digital display
- General alarm
- Remote control
- Plate heat exchanger (stainless steel, copper-brazed)
- Pump
- Pump pressure gauge
- 2-way control valve
- Housing powder-coated steel plate RAL 7043 (traffic grey B)
- Level switch



FlowCool *Unicus*
(with option castors)

Model FlowCool <i>Unicus</i>	FCUN 004	FCUN 006	FCUN 011
Net cooling capacity*	kW : 3.8	6.5	11.5
Operating range cooling temperature	°C : +10 / +50	+10 / +50	+10 / +50
Operating range ambient temperature	°C : +2 / +40	+2 / +40	+2 / +40
Temperature constancy****	K : ±2	±2	±2
Rated coolant flow**	m³/h : 0.7	1.1	2.0
Pump	type : P3-BR11A	P6-BR12A	P6-BR12A
Pump pressure***	bar : 2.9	4.2	2.3
Tank capacity	litres : 10	10	10
Water connection (female)	Inch : G ½"	G ½"	G ½"
Power input max.	kW : 0.4	0.55	0.55
Operating voltage	volt/Hz/phase : 230/50/1	230/50/1	230/50/1
Weight	kgs : 22	32	33
Dimensions (WxDxH)	mm : 445x575x540	445x575x540	445x575x540

* at dT 5K between in-house cooling circuit / application cooling circuit.

** at dT 5K in the application cooling circuit between feed and return.

*** pressure at rated coolant flow.

**** other temperature constancies on request.

Alternative units: FCUN 001 and FCUN 015

FlowCool *Unicus* + options / accessories:

Cat. No.

FlowCool *Unicus* FCUN 004-NEA

GUFCUN004-NEA

FlowCool *Unicus* FCUN 006-NEA

GUFCUN006-NEA

FlowCool *Unicus* FCUN 011-NEA

GUFCUN011-NEA

Pumpe P6-BR12A instead of P3-BR11A

MFCUN6-P6-BR12A-004

Pumpe P7-BR17A instead of P3-BR11A

MFCUN6-P7-BR17A-004

Pumpe P7-BR17A instead of P6-BR12A

MFCUN6-P7-BR17A-011

Continuous-flow system without tank and/or without pump

on request

Automatic by-pass valve

ZFCUN6-041-011

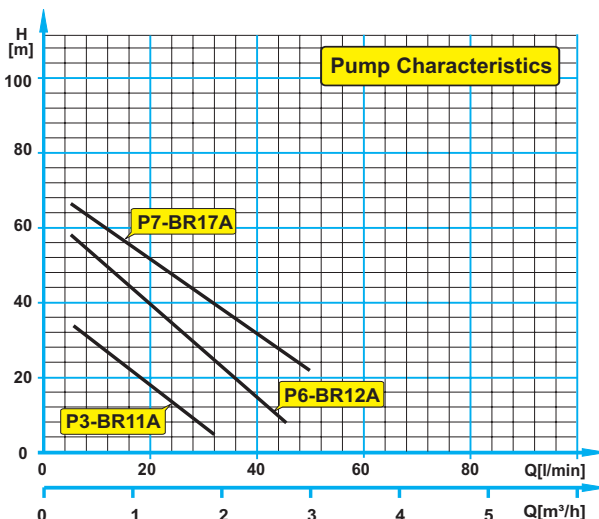
4 swivel castors, 2 with brakes

YFCUN5-021-011

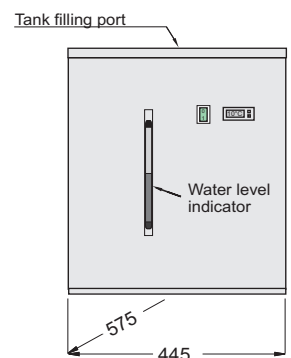
Export version with special voltages / frequencies

on request

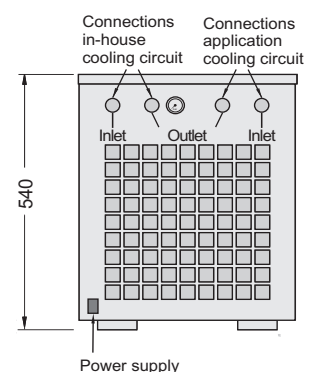
Additional options and accessories as well as pump alternatives on request.



Front



Reverse



Water-to-Water Heat Exchanger System FlowCool *Unicus*

The FlowCool *Unicus* is a cooling system without active refrigeration. The process heat is transferred via a heat exchanger to the central cooling water supply (=in-house cooling circuit). The application itself is cooled via its own water circuit (=application cooling circuit). This system offers controllable water quality and runs very quietly. For this reason it is popular in laboratories and other working areas.

The FlowCool *Unicus* can be usefully employed whenever the required or acceptable temperature for the application lies above the temperature of the central cooling water supply. It is supplied ready for connection and equipped with:

- Plastic tank
- Electronic control with digital display
- General alarm
- Remote control
- Plate heat exchanger (stainless steel, copper-brazed)
- Pump
- Pump pressure gauge
- 2-way control valve
- Housing powder-coated steel plate RAL 7043 (traffic grey B)
- Level switch

Model FlowCool <i>Unicus</i>	FCUN 015	FCUN 024
Net cooling capacity*	kW : 15.8	24.4
Operating range cooling temperature	°C : +10 / +50	+10 / +50
Operating range ambient temperature	°C : +2 / +40	+2 / +40
Temperature constancy****	K : ±2	±2
Rated coolant flow**	m³/h : 2.7	4.2
Pump	type : P3-AR02B	P3-AR02B
Pump pressure***	bar : 2.7	2.2
Tank capacity	litres : 30	30
Water connection (female)	Inch : G 1½"	G 1½"
Power input max.	kW : 0.6	0.6
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3
Weight	kgs : 109	111
Dimensions (WxDxH)	mm : 580x650x845	580x650x845

* at dT 5K between in-house cooling circuit / application cooling circuit.

** at dT 5K in the application cooling circuit between feed and return.

*** pressure at rated coolant flow.

**** other temperature constancies on request.

Alternative units: FCUN 011 and FCUN 040

FlowCool *Unicus* + options / accessories: Cat. No.

FlowCool *Unicus* FCUN 015-NEB GUFCUN015-NEB
 FlowCool *Unicus* FCUN 024-NEB GUFCUN024-NEB

Pumpe P4-AS22B instead of P3-AR02B MFCUN6-P4-AS22B-024

Pumpe P8-AN09B instead of P3-AR02B MFCUN6-P8-AN09B-024

Continuous-flow system without tank and/or without pump on request

Automatic by-pass valve ZFCUN6-041-024

4 swivel castors, 2 with brakes YFCUN5-021-024

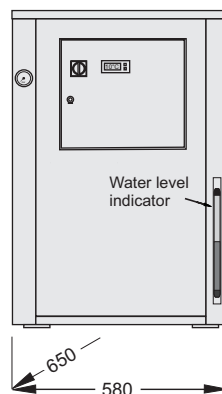
Export version with special voltages / frequencies on request

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

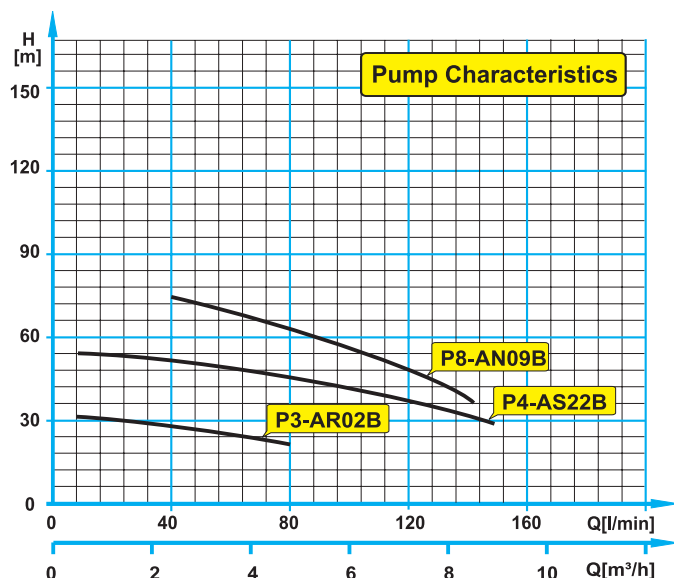
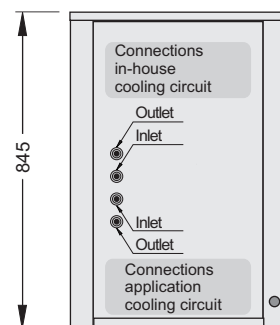


FlowCool *Unicus*
(with option castors)

Front



Reverse



Water-to-Water Heat Exchanger System FlowCool *Unicus*

The FlowCool *Unicus* is a cooling system without active refrigeration. The process heat is transferred via a heat exchanger to the central cooling water supply (=in-house cooling circuit). The application itself is cooled via its own water circuit (=application cooling circuit). This system offers controllable water quality and runs very quietly. For this reason it is popular in laboratories and other working areas.

The FlowCool *Unicus* can be usefully employed whenever the required or acceptable temperature for the application lies above the temperature of the central cooling water supply. It is supplied ready for connection and equipped with:

- Plastic tank
- Electronic control with digital display
- General alarm
- Remote control
- Plate heat exchanger (stainless steel, copper-brazed)
- Pump
- Pump pressure gauge
- 2-way control valve
- Housing powder-coated steel plate RAL 7035 (light grey)
- Level switch



FlowCool *Unicus*
(with option colour RAL 7043 - traffic grey B)

Model FlowCool <i>Unicus</i>	FCUN 040	FCUN 060
Net cooling capacity*	kW : 39.2	60.4
Operating range cooling temperature °C	+10 / +50	+10 / +50
Operating range ambient temperature °C	+2 / +40	+2 / +40
Temperature constancy****	K : ±2	±2
Rated coolant flow**	m³/h : 6.7	10.4
Pump	type : P3-AR22B	P2-AR33B
Pump pressure***	bar : 2.3	2.3
Tank capacity	litres : 60	60
Water connection (female)	Inch : G 1½"	G 1½"
Power input max.	kW : 1,1	1,8
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3
Weight	kgs : 121	144
Dimensions (WxDxH)	mm : 760x760x1250	760x760x1250

* at dT 5K between in-house cooling circuit / application cooling circuit.

** at dT 5K in the application cooling circuit between feed and return.

*** pressure at rated coolant flow.

**** other temperature constancies on request.

Alternative units: FCUN 024 and FCUN 080

FlowCool *Unicus* + options / accessories:

Cat. No.

FlowCool *Unicus* FCUN 040-NEB

GUFCUN040-NEB

FlowCool *Unicus* FCUN 060-NEB

GUFCUN060-NEB

Pumpe P5-AS23B instead of P3-AR22B

MFCUN6-P5-AS23B-040

Pumpe P10-AN12B instead of P3-AR22B

MFCUN6-P10-AN12B-040

Pumpe P5-AS33B instead of P2-AR33B

MFCUN6-P5-AS33B-060

Pumpe P7-AP08B instead of P2-AR33B

MFCUN6-P7-AP08B-060

Continuous-flow system without tank and/or without pump on request

Automatic by-pass valve

ZFCUN6-041-060

4 swivel castors, 2 with brakes

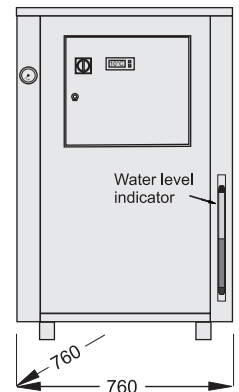
YFCUN5-021-060

Export version with special voltages / frequencies

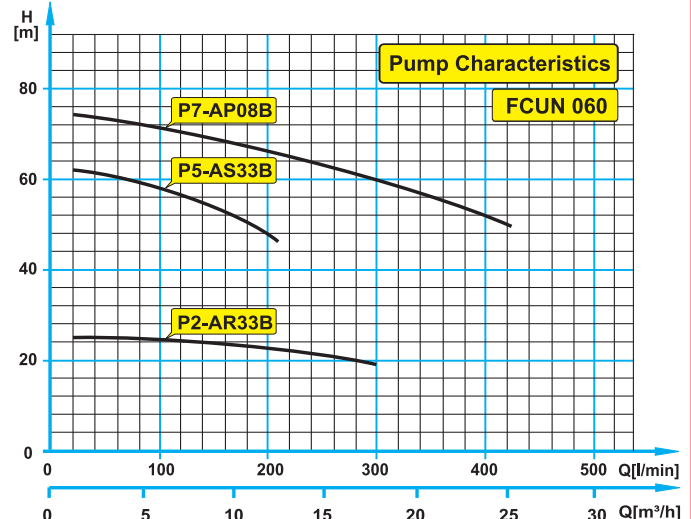
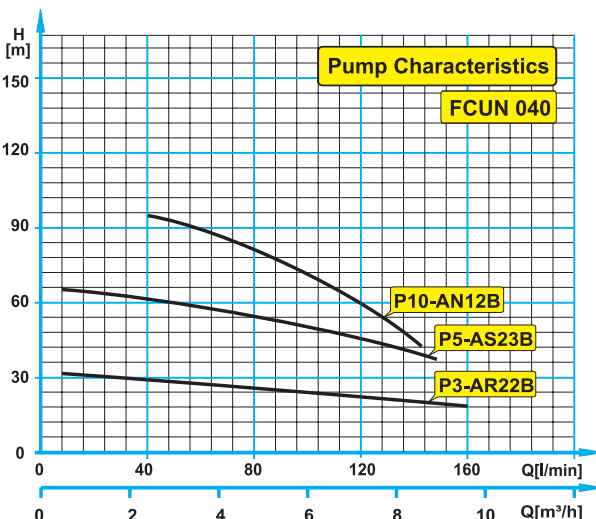
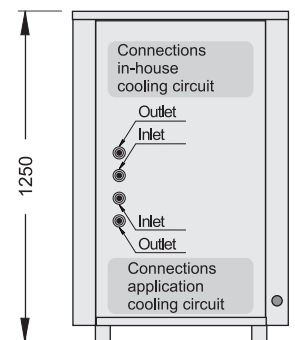
on request

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

Front



Reverse



Water-to-Water Heat Exchanger System FlowCool *Unicus*

The FlowCool *Unicus* is a cooling system without active refrigeration. The process heat is transferred via a heat exchanger to the central cooling water supply (=in-house cooling circuit). The application itself is cooled via its own water circuit (=application cooling circuit). This system offers controllable water quality and runs very quietly. For this reason it is popular in laboratories and other working areas.

The FlowCool *Unicus* can be usefully employed whenever the required or acceptable temperature for the application lies above the temperature of the central cooling water supply. It is supplied ready for connection and equipped with:

- Plastic tank
- Electronic control with digital display
- General alarm
- Remote control
- Plate heat exchanger (stainless steel, copper-brazed)
- Pump
- Pump pressure gauge
- 2-way control valve
- Housing powder-coated steel plate RAL 7035 (light grey)
- Level switch

Model FlowCool <i>Unicus</i>	FCUN 080	FCUN 095	FCUN 110
Net cooling capacity*	kW : 81.0	98.6	110.5
Operating range cooling temperature	°C : +10 / +50	+10 / +50	+10 / +50
Operating range ambient temperature	°C : +2 / +40	+2 / +40	+2 / +40
Temperature constancy****	K : ±2	±2	±2
Rated coolant flow**	m³/h : 13.9	17.0	19.0
Pump	type : P3-AP04B	P3-AP04B	P3-AP04B
Pump pressure***	bar : 3.0	2.7	2.4
Tank capacity	litres : 100	100	100
Water connection (female)	Inch : G 1½"	G 1½"	G 2"
Power input max.	kW : 2.2	2.2	2.2
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3	400/50/3
Weight	kgs : 220	226	238
Dimensions (WxDxH)	mm : < 760x1325x1400 >		

* at dT 5K between in-house cooling circuit / application cooling circuit.

** at dT 5K in the application cooling circuit between feed and return.

*** pressure at rated coolant flow.

**** other temperature constancies on request.

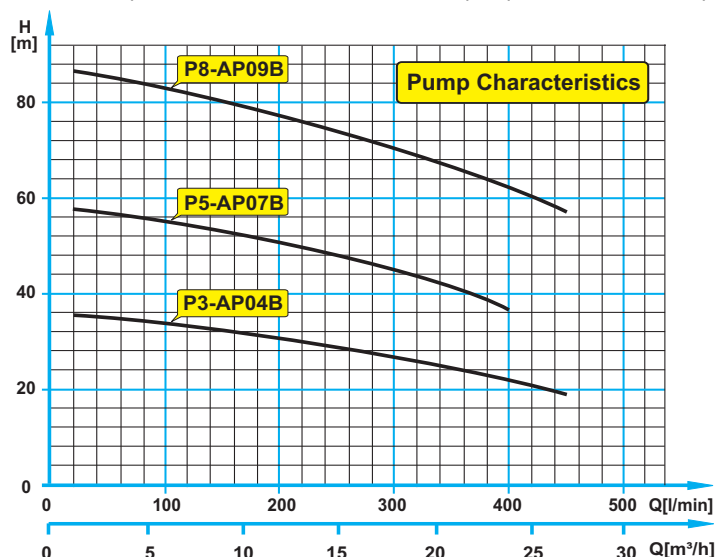
Alternative units: FCUN 060 and FCUN 130

FlowCool *Unicus* + options / accessories:

Cat. No.

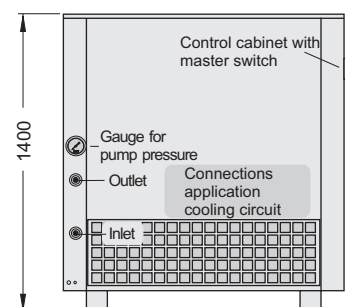
FlowCool <i>Unicus</i> FCUN 080-NEB	GUFCUN080-NEB
FlowCool <i>Unicus</i> FCUN 095-NEB	GUFCUN095-NEB
FlowCool <i>Unicus</i> FCUN 110-NEB	GUFCUN110-NEB
Pumpe P5-AP07B instead of P3-AP04B	MFCUN6-P5-AP07B-110
Pumpe P8-AP09B instead of P3-AP04B	MFCUN6-P8-AP09B-110
Continuous-flow system without tank and/or without pump	on request
Automatic by-pass valve	ZFCUN6-041-110
4 swivel castors, 2 with brakes	YFCUN5-021-110
Export version with special voltages / frequencies	on request

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

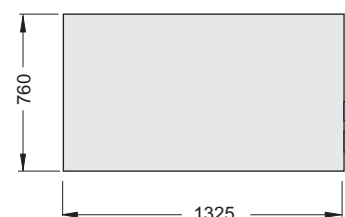


FlowCool *Unicus*
(with option colour RAL 7043 - traffic grey B)

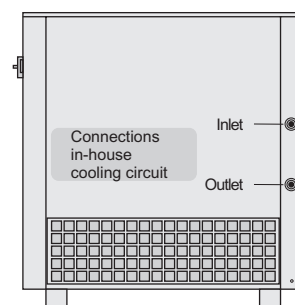
Left side



Top



Right side



Water-to-Water Heat Exchanger System FlowCool *Unicus*

The FlowCool *Unicus* is a cooling system without active refrigeration. The process heat is transferred via a heat exchanger to the central cooling water supply (=in-house cooling circuit). The application itself is cooled via its own water circuit (=application cooling circuit). This system offers controllable water quality and runs very quietly. For this reason it is popular in laboratories and other working areas.

The FlowCool *Unicus* can be usefully employed whenever the required or acceptable temperature for the application lies above the temperature of the central cooling water supply. It is supplied ready for connection and equipped with:

- Plastic tank
- Electronic control with digital display
- General alarm
- Remote control
- Plate heat exchanger (stainless steel, copper-brazed)
- Pump
- Pump pressure gauge
- 2-way control valve
- Housing powder-coated steel plate RAL 7035 (light grey)
- Level switch

Model FlowCool <i>Unicus</i>	FCUN 130	FCUN 150
Net cooling capacity*	kW : 129.3	150.4
Operating range cooling temperature	°C : +10 / +50	+10 / +50
Operating range ambient temperature	°C : +2 / +40	+2 / +40
Temperature constancy****	K : ±2	±2
Rated coolant flow**	m³/h : 22.2	25.9
Pump	type : P2-AP13B	P2-AP13B
Pump pressure***	bar : 2.1	1.9
Tank capacity	litres : 100	500
Water connection (female)	Inch : G 2½"	G 3"
Power input max.	kW : 2.2	7.5
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3
Weight	kgs : 256	450
Dimensions (WxDxH)	mm : 760x1325x1400	1520x1325x1400

* at dT 5K between in-house cooling circuit / application cooling circuit.

** at dT 5K in the application cooling circuit between feed and return.

*** pressure at rated coolant flow.

**** other temperature constancies on request.

Alternative units: FCUN 110

FlowCool *Unicus* + options / accessories:

Cat. No.

FlowCool *Unicus* FCUN 130-NEB

GUFCUN130-NEB

FlowCool *Unicus* FCUN 150-NEB

GUFCUN150-NEB

Pumpe P4-AP16B instead of P2-AP13B

MFCUN6-P4-AP16B-150

Pumpe P6-AP20B instead of P2-AP13B

MFCUN6-P6-AP20B-150

Continuous-flow system without tank and/or without pump

on request

Automatic by-pass valve

ZFCUN6-041-150

4 swivel castors, 2 with brakes

YFCUN5-021-150

Export version with special voltages / frequencies

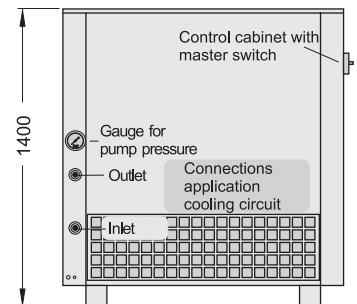
on request

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

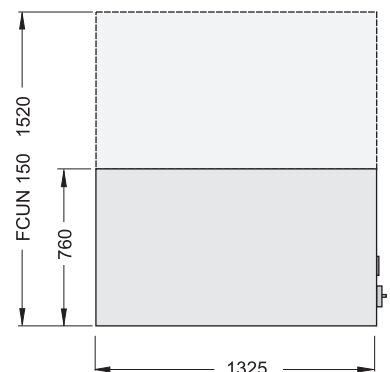


FlowCool *Unicus* FCUN 130
(with option colour RAL 7043 - traffic grey B)

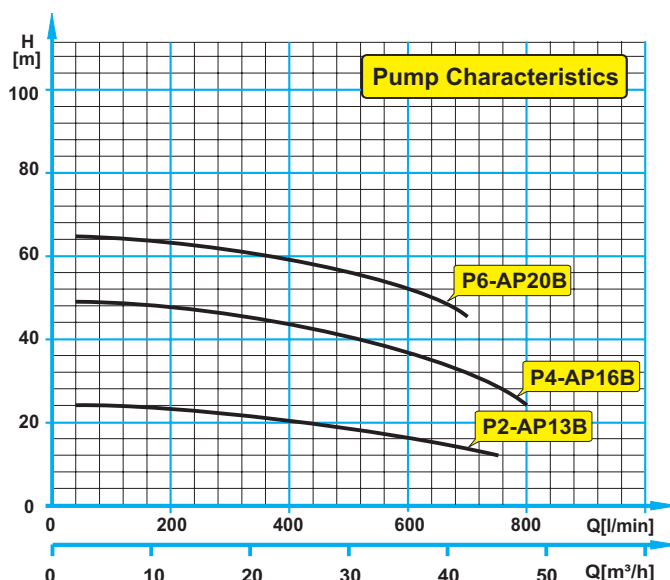
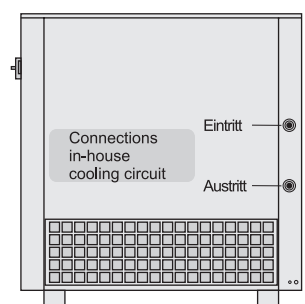
Left side



Top



Right side



Air-to-Water Heat Exchanger System AirCool Ventus

Cooling Capacity 0.8 kW to 5.2 kW

Air-to-Water Heat Exchanger System AirCool Ventus

- Hydraulic circuit open to atmosphere
- Without active refrigeration
- Heat discharged into the ambient air
- Plastic tank with water level indicator
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 9002 (grey white)
- Due to the process employed, the exit temperature of the cooling medium is always above the ambient temperature
- Suitable for industrial use
- Absolutely reliable design
- Contains all the components required for the fully automatic cooling process
- Ready to install



AirCool Ventus
(with option colour RAL 7043 - traffic grey B)

Model AirCool Ventus	ACVE 001	ACVE 002
Cooling capacity at dT of 5K*/20K*	kW : 0.8 / 3.2	1.3 / 5.2
Cooling medium	Water	Water
Rated coolant flow	m³/h : 0.6	0.6
Pump	type : P3-BR11A	P3-BR11A
Pump pressure**	bar : 2.9	2.9
Tank capacity	litres : 10	10
Water connection (hose olives)	< for hose 12 mm inside diameter >	
Required flow of cooling air	m³/h : 880	800
Power input max.	kW : 0.5	0.5
Operating voltage	volt/Hz/phase : 230/50/1	230/50/1
Weight	kgs : 23	25
Dimensions (WxDxH)	mm : 230x520x650	230x520x650

* Above the current ambient temperature.

** Pressure at rated coolant flow.

Alternative units: ACVE 004

AirCool Ventus + options / accessories:

Cat. No.

AirCool Ventus ACVE 001

GUACVE001-NEA

AirCool Ventus ACVE 002

GUACVE002-NEA

Pump P6-BR12A instead of P3-BR11A

MACVE6-P6-BR12A-002

Pump P7-BR17A instead of P3-BR11A

MACVE6-P7-BR17A-002

Version with digital controller

ZACVE2-017-022

Water flow switch

ZACVE6-008-002

Continuous-flow system without tank

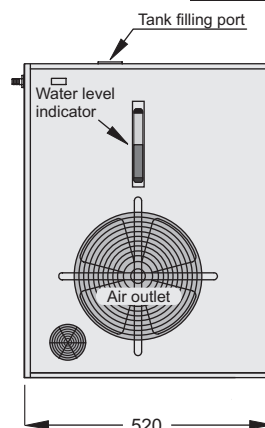
on request

Export version with special voltages / frequencies

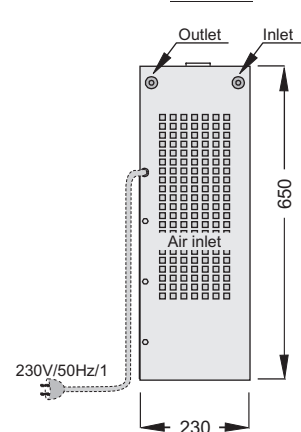
on request

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

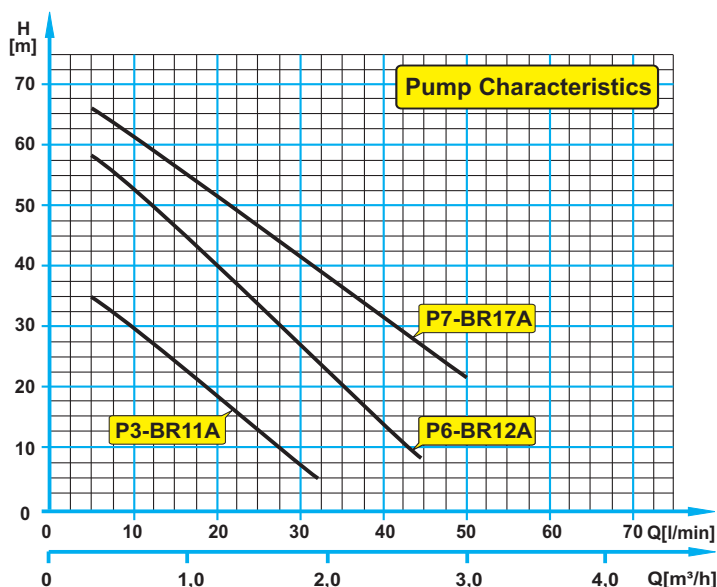
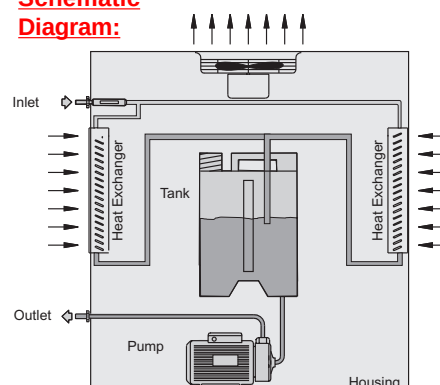
Left side



Reverse



Schematic Diagram:



Air-to-Water Heat Exchanger System AirCool Ventus

- Single-circuit system including tank open to atmosphere
- Without active refrigeration
- Heat discharged into the ambient air
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
 - Error messages displayed as individual codes by controller
 - Remote control
- Control cabinet with main switch
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7043 (traffic grey B)
- Due to the process employed, the exit temperature of the cooling medium is always above the ambient temperature
- Suitable for industrial use
- Absolutely reliable design
- Contains all the components required for the fully automatic cooling process

Model AirCool Ventus ACVE 004

Cooling capacity at dT of 5K*/20K*	kW : 3.9 / 15.6
Cooling medium	: Water
Rated coolant flow	m³/h : 0.7
Pump	type : P3-BR11A
Pump pressure**	bar : 2.8
Tank capacity	litres : 30
Water connection	Inch : G ¾" Female
Required flow of cooling air	m³/h : 2,100
Power input max.	kW : 0.5
Operating voltage	volt/Hz/phase : 230/50/1
Weight	kgs : 101
Dimensions (WxDxH)	mm : 580x650x920

* Above the current ambient temperature.

** Pressure at rated coolant flow.

Alternative units: ACVE 002 and ACVE 010

AirCool Ventus + options / accessories:

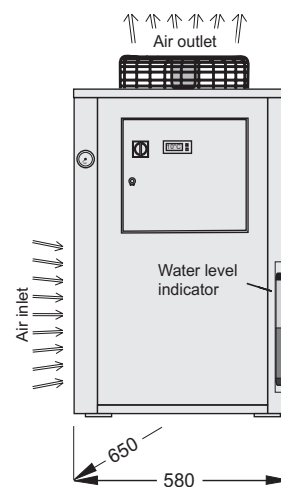
	Cat. No.
AirCool Ventus ACVE 004	GUACVE004-NEA
Pump P6-BR12A instead of P3-BR11A	MACVE6-P6-BR12A-004
Pump P7-BR17A instead of P3-BR11A	MACVE6-P7-BR17A-004
Water flow switch	ZACVE6-008-004
Continuous-flow system without tank	on request
4 swivel castors, 2 with brakes	ZACVE5-021-004
Export version with special voltages / frequencies	on request

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

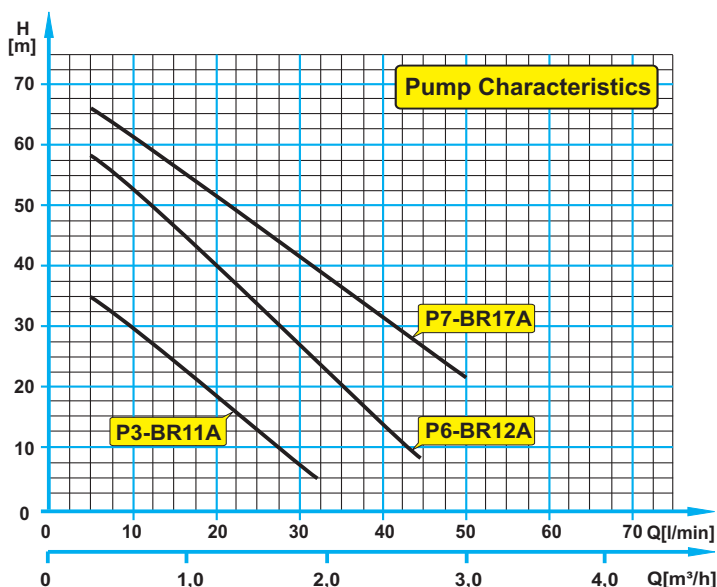
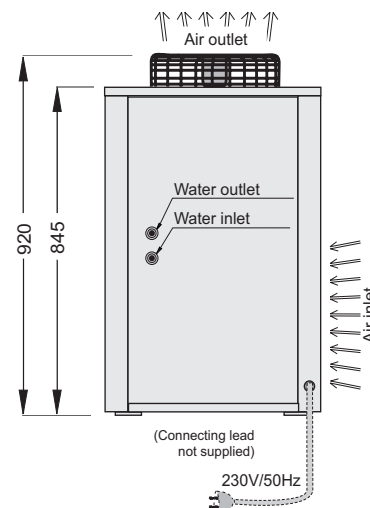


AirCool Ventus
(with option castors)

Front



Reverse



Air-to-Water Heat Exchanger System AirCool Ventus

- Single-circuit system including tank open to atmosphere
- Without active refrigeration
- Heat discharged into the ambient air
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
 - Error messages displayed as individual codes by controller
 - Remote control
- Control cabinet with main switch
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7035 (light grey)
- Due to the process employed, the exit temperature of the cooling medium is always above the ambient temperature
- Suitable for industrial use
- Absolutely reliable design
- Contains all the components required for the fully automatic cooling process

Model AirCool Ventus

ACVE 010

Cooling capacity at dT of 5K*/20K*	kW : 10.6 / 42.4
Cooling medium	: Water
Rated coolant flow	m ³ /h : 1.8
Pump	type : P6-BR12B
Pump pressure**	bar : 2.8
Tank capacity	litres : 70
Water connection	Inch : G ¾" Female
Required flow of cooling air	m ³ /h : 6,000
Power input max.	kW : 1.2
Operating voltage	volt/Hz/phase : 400/50/3
Weight	kgs : 129
Dimensions (WxDxH)	mm : 760x760x1380

* Above the current ambient temperature.

** Pressure at rated coolant flow.

Alternative units: ACVE 004 and ACVE 018

AirCool Ventus + options / accessories:

Cat. No.

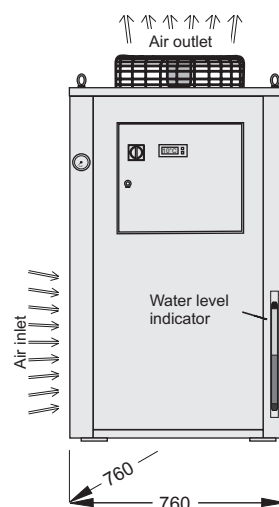
AirCool Ventus ACVE 010	GUACVE010-NEB
Pump P7-BR17B instead of P6-BR12B	MACVE6-P7-BR17B-010
Pump P9-AM26B instead of P6-BR12B	MACVE6-P9-AM26B-010
Water flow switch	ZACVE6-008-010
Continuous-flow system without tank	on request
4 swivel castors, 2 with brakes	ZACVE5-021-010
Export version with special voltages / frequencies	on request

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

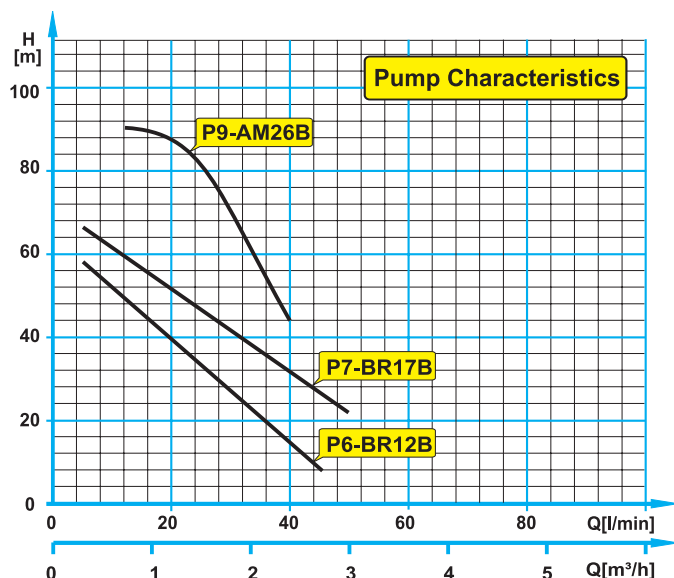
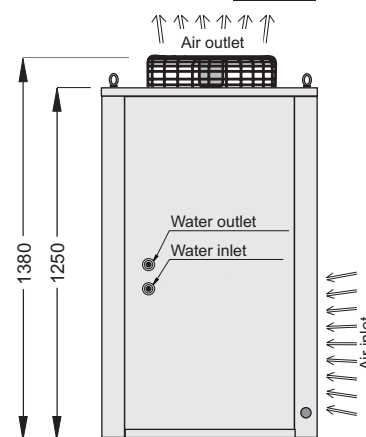


AirCool Ventus
(with option colour RAL 7043 - traffic grey B)

Front



Reverse



Air-to-Water Heat Exchanger System AirCool Ventus

- Single-circuit system including tank open to atmosphere
- Without active refrigeration
- Heat discharged into the ambient air
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
 - Error messages displayed as individual codes by controller
 - Remote control
- Control cabinet with main switch
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7035 (light grey)
- Due to the process employed, the exit temperature of the cooling medium is always above the ambient temperature
- Suitable for industrial use
- Absolutely reliable design
- Contains all the components required for the fully automatic cooling process

Model AirCool Ventus

ACVE 018

Cooling capacity at dT of 5K*/20K* kW : 17.9 / 71.6

Cooling medium : Water

Rated coolant flow m³/h : 3.1

Pump type : P3-AR02B

Pump pressure** bar : 2.6

Tank capacity litres : 100

Water connection Inch : G 1" Female

Required flow of cooling air m³/h : 8,000

Power input max. kW : 1.6

Operating voltage volt/Hz/phase : 400/50/3

Weight kgs : 198

Dimensions (WxDxH) mm : 760x1325x1525

* Above the current ambient temperature.

** Pressure at rated coolant flow.

Alternative units: ACVE 010 and ACVE 035



AirCool Ventus
(with option colour RAL 7043 - traffic grey B)

AirCool Ventus + options / accessories:

Cat. No.

AirCool Ventus ACVE 018 GUACVE018-NEB

Pump P5-AS13B instead of P3-AR02B MACVE6-P5-AS13B-018

Pump P8-AM47B instead of P3-AR02B MACVE6-P8-AM47B-018

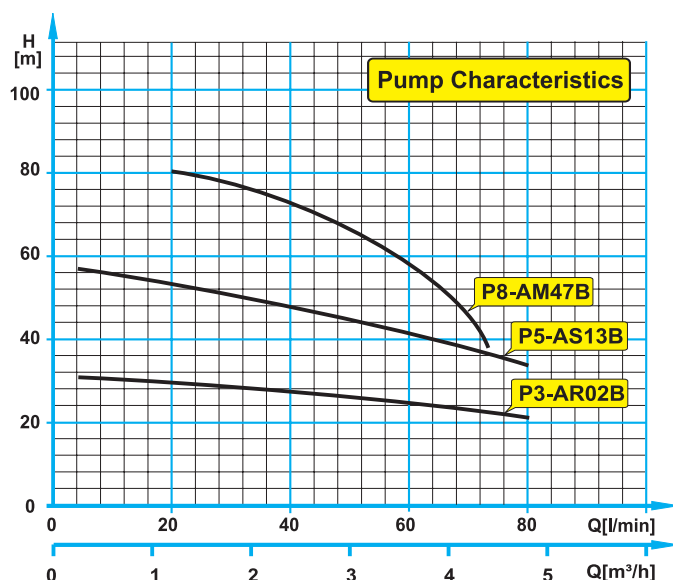
Water flow switch ZACVE6-008-018

Continuous-flow system without tank on request

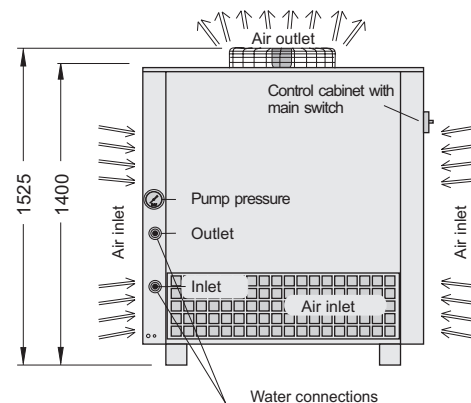
4 swivel castors, 2 with brakes ZACVE5-021-018

Export version with special voltages / frequencies on request

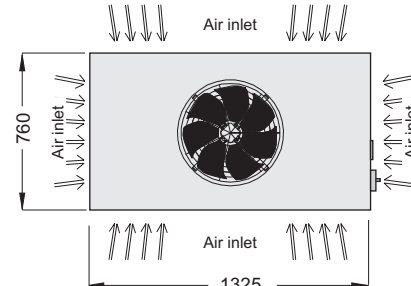
Additional options and accessories as well as pump alternatives on request.



Left side



Top



Air-to-Water Heat Exchanger System AirCool Ventus

Cooling Capacity 35.9 kW to 144 kW

Air-to-Water Heat Exchanger System AirCool Ventus

- Single-circuit system including tank open to atmosphere
- Without active refrigeration
- Heat discharged into the ambient air
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
 - Error messages displayed as individual codes by controller
 - Remote control
- Control cabinet with main switch
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7035 (light grey)
- Due to the process employed, the exit temperature of the cooling medium is always above the ambient temperature
- Suitable for industrial use
- Absolutely reliable design
- Contains all the components required for the fully automatic cooling process

Model AirCool Ventus

ACVE 035

Cooling capacity at dT of 5K*/20K*	kW : 35.9 / 144
Cooling medium	: Water
Rated coolant flow	m ³ /h : 6.2
Pump	type : P3-AR11B
Pump pressure**	bar : 2.1
Tank capacity	litres : 100
Water connection	Inch : G 1½" Female
Required flow of cooling air	m ³ /h : 16,000
Power input max.	kW : 2.8
Operating voltage	volt/Hz/phase : 400/50/3
Weight	kgs : 328
Dimensions (WxDxH)	mm : 1520x1325x1525

* Above the current ambient temperature.

** Pressure at rated coolant flow.

Alternative units: ACVE 018 and ACVE 055



AirCool Ventus
(with option colour RAL 7043 - traffic grey B)

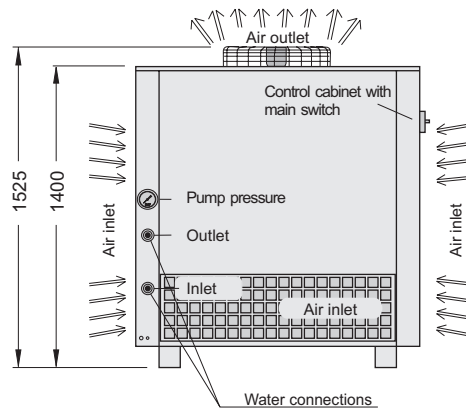
AirCool Ventus + options / accessories:

Cat. No.

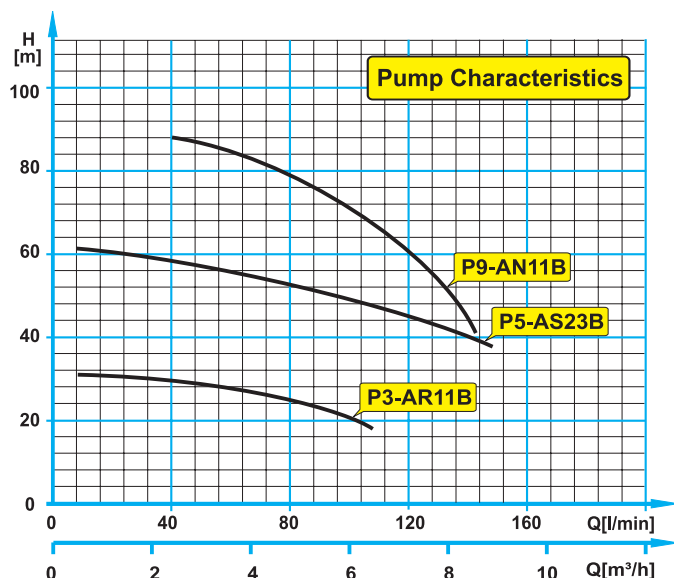
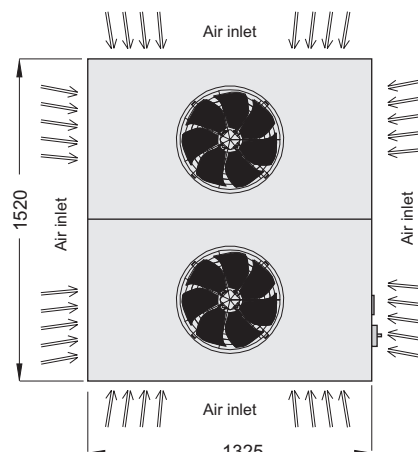
AirCool Ventus ACVE 035	GUACVE035-NEB
Pump P5-AS23B instead of P3-AR11B	MACVE6-P5-AS23B-035
Pump P9-AN11B instead of P3-AR11B	MACVE6-P9-AN11B-035
Water flow switch	ZACVE6-008-035
Continuous-flow system without tank	on request
4 swivel castors, 2 with brakes	ZACVE5-021-035
Export version with special voltages / frequencies	on request

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

Left side



Top



Air-to-Water Heat Exchanger System AirCool Ventus

- Single-circuit system including tank open to atmosphere
- Without active refrigeration
- Heat discharged into the ambient air
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
 - Error messages displayed as individual codes by controller
 - Remote control
- Control cabinet with main switch
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7035 (light grey)
- Due to the process employed, the exit temperature of the cooling medium is always above the ambient temperature
- Suitable for industrial use
- Absolutely reliable design
- Contains all the components required for the fully automatic cooling process



AirCool Ventus
(with option colour RAL 7043 - traffic grey B)

Model AirCool Ventus	ACVE 055
Cooling capacity at dT of 5K*/20K*	kW : 53.8 / 215
Cooling medium	: Water
Rated coolant flow	m³/h : 9.2
Pump	type : P3-AR22B
Pump pressure**	bar : 2.0
Tank capacity	litres : 100
Water connection	Inch : G 1½" Female
Required flow of cooling air	m³/h : 24,000
Power input max.	kW : 4.0
Operating voltage	volt/Hz/phase : 400/50/3
Weight	kgs : 618
Dimensions (WxDxH)	mm : 2280x1325x1525

* Above the current ambient temperature.

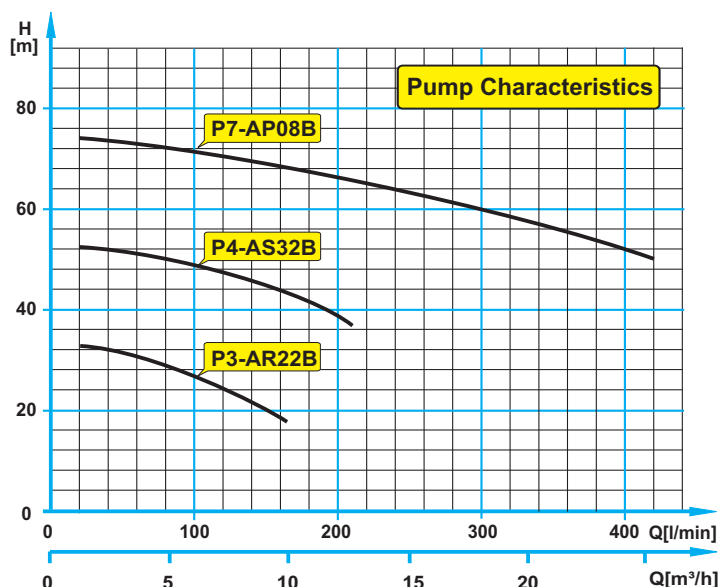
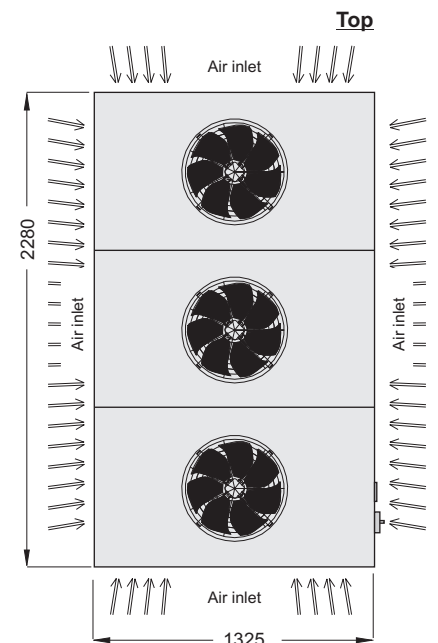
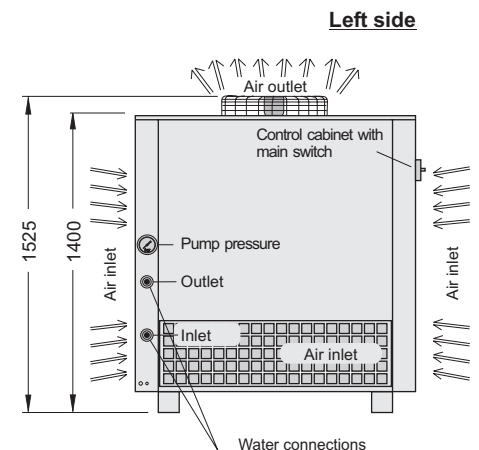
** Pressure at rated coolant flow.

Alternative units: ACVE 035 and ACVE 070

AirCool Ventus + options / accessories:

	Cat. No.
AirCool Ventus ACVE 055	GUACVE055-NEB
Pump P4-AS32B instead of P3-AR22B	MACVE6-P4-AS32B-055
Pump P7-AP08B instead of P3-AR22B	MACVE6-P7-AP08B-055
Water flow switch	ZACVE6-008-055
Continuous-flow system without tank	on request
Export version with special voltages / frequencies	on request

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



Air-to-Water Heat Exchanger System AirCool Ventus

Cooling Capacity 71.7 kW to 287 kW

Air-to-Water Heat Exchanger System AirCool Ventus

- Single-circuit system including tank open to atmosphere
- Without active refrigeration
- Heat discharged into the ambient air
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
 - Error messages displayed as individual codes by controller
 - Remote control
- Control cabinet with main switch
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7035 (light grey)
- Due to the process employed, the exit temperature of the cooling medium is always above the ambient temperature
- Suitable for industrial use
- Absolutely reliable design
- Contains all the components required for the fully automatic cooling process

Model AirCool Ventus

ACVE 070

Cooling capacity at dT of 5K*/20K*	kW : 71.7 / 287
Cooling medium	: Water
Rated coolant flow	m³/h : 12.4
Pump	type : P2-AR33B
Pump pressure**	bar : 2.2
Tank capacity	litres : 100
Water connection	Inch : G 1½" Female
Required flow of cooling air	m³/h : 32,000
Power input max.	kW : 5.6
Operating voltage	volt/Hz/phase : 400/50/3
Weight	kgs : 649
Dimensions (WxDxH)	mm : 3040x1325x1525

* Above the current ambient temperature.

** Pressure at rated coolant flow.

Alternative units: ACVE 055 and ACVE 090

AirCool Ventus + options / accessories:

Cat. No.

AirCool Ventus ACVE 070

GUACVE070-NEB

Pump P4-AS32B instead of P2-AR33B

MACVE6-P4-AS32B-070

Pump P7-AP08B instead of P2-AR33B

MACVE6-P7-AP08B-070

Water flow switch

ZACVE6-008-070

Continuous-flow system without tank

on request

Export version with special voltages / frequencies

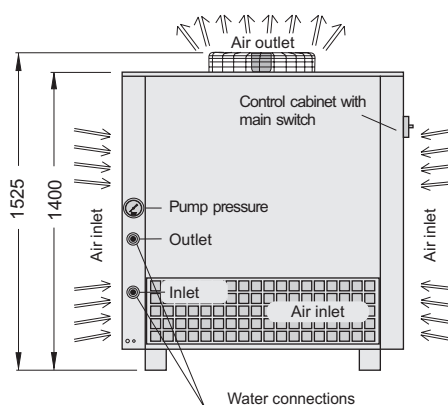
on request

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

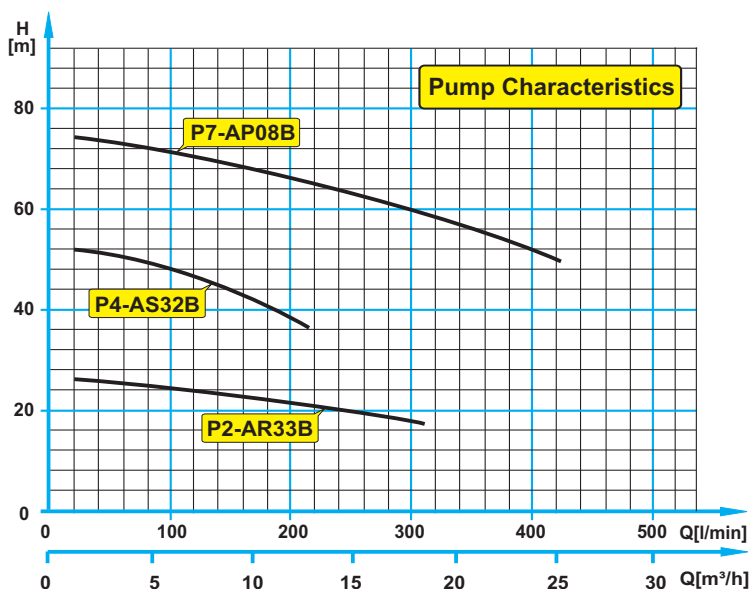
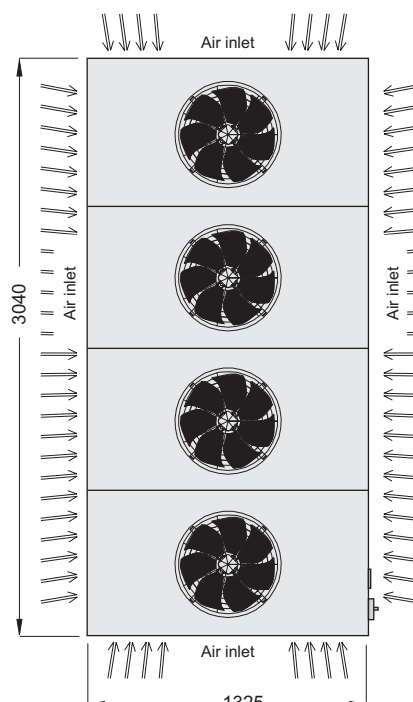


ACVE 055
(with option colour RAL 7043 - traffic grey B;
ACVE 070 with four fans)

Left side



Top



Air-to-Water Heat Exchanger System AirCool Ventus

- Single-circuit system including tank open to atmosphere
- Without active refrigeration
- Heat discharged into the ambient air
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
 - Error messages displayed as individual codes by controller
 - Remote control
- Control cabinet with main switch
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7035 (light grey)
- Due to the process employed, the exit temperature of the cooling medium is always above the ambient temperature
- Suitable for industrial use
- Absolutely reliable design
- Contains all the components required for the fully automatic cooling process



ACVE 055
(with option colour RAL 7043 - traffic grey B;
ACVE 090, 120 with two fans and ACVE 150 with three fans)

Model AirCool Ventus	ACVE 090	ACVE 120	ACVE 150
Cooling capacity at dT of 5K*/20K*	kW : 89.6 / 358	116 / 465	151 / 605
Cooling medium	: Water	Water	Water
Rated coolant flow	m³/h : 15.4	20.0	26.0
Pump	type : P3-AP04B	P3-AP04B	P2-AP13B
Pump pressure**	bar : 2.8	2.5	2.0
Tank capacity	litres : 200	200	200
Water connection	Inch : G 3" Female	G 3" Female	G 3" Female
Required flow of cooling air	m³/h : 44,000	48,000	69,000
Power input max.	kW : 6.0	6.0	7.9
Operating voltage	volt/Hz/phase : 400/50/3	400/50/3	400/50/3
Weight	kgs : 1391	1454	1496
Dimensions (WxDxH)	mm : < 3990x1525x2170 >		

* Above the current ambient temperature.

** Pressure at rated coolant flow.

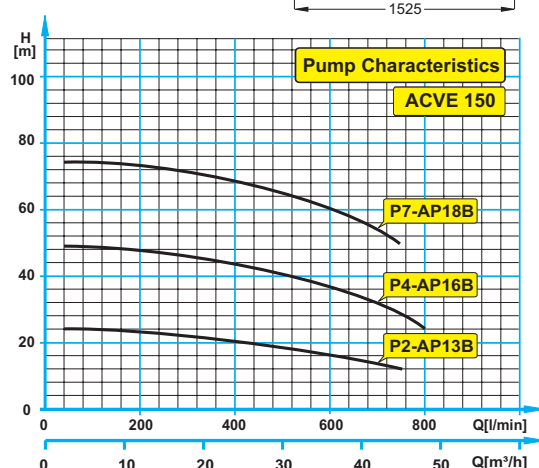
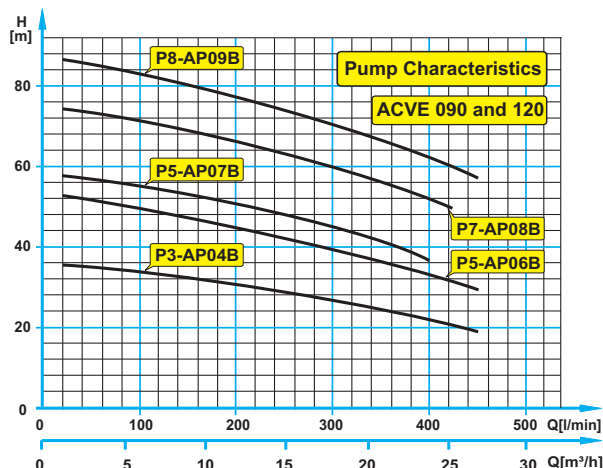
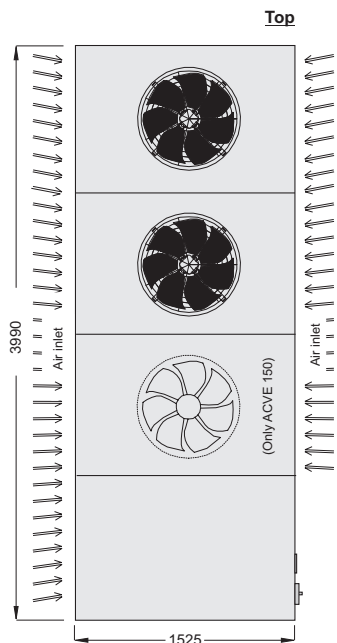
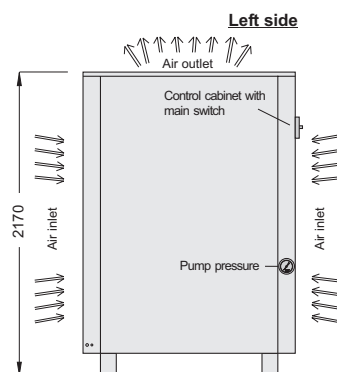
Alternative units: ACVE 070 and ACVE 175

AirCool Ventus + options / accessories:

Cat. No.

AirCool Ventus ACVE 090	GUACVE090-NEB
AirCool Ventus ACVE 120	GUACVE120-NEB
AirCool Ventus ACVE 150	GUACVE150-NEB
Pump P5-AP06B instead of P3-AP04B	MACVE6-P5-AP06B-090
Pump P7-AP08B instead of P3-AP04B	MACVE6-P7-AP08B-090
Pump P5-AP07B instead of P3-AP04B	MACVE6-P5-AP07B-120
Pump P8-AP09B instead of P3-AP04B	MACVE6-P8-AP09B-120
Pump P4-AP16B instead of P2-AP13B	MACVE6-P4-AP16B-150
Pump P7-AP18B instead of P2-AP13B	MACVE6-P7-AP18B-150
Water flow switch	ZACVE6-008-150
Continuous-flow system without tank	on request
Export version with special voltages / frequencies	on request

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



Air-to-Water Heat Exchanger System AirCool Ventus

Cooling Capacity 174 kW to 696 kW

Air-to-Water Heat Exchanger System AirCool Ventus

- Single-circuit system including tank open to atmosphere
- Without active refrigeration
- Heat discharged into the ambient air
- Plastic tank with water level indicator
- Electronic microprocessor-controlled thermostat with digital display (LED)
 - Error messages displayed as individual codes by controller
 - Remote control
- Control cabinet with main switch
- Built-in pump (see pump characteristics)
- Housing powder-coated, colour RAL 7035 (light grey)
- Due to the process employed, the exit temperature of the cooling medium is always above the ambient temperature
- Suitable for industrial use
- Absolutely reliable design
- Contains all the components required for the fully automatic cooling process



ACVE 055
(with option colour RAL 7043 - traffic grey B;
ACVE 175 with three fans)

Model AirCool Ventus

ACVE 175

Cooling capacity at dT of 5K*/20K*	kW : 174 / 696
Cooling medium	: Water
Rated coolant flow	m³/h : 30.0
Pump	type : P3-AP14B
Pump pressure**	bar : 2.4
Tank capacity	litres : 200
Water connection	Inch : G 3" Female
Required flow of cooling air	m³/h : 71,400
Power input max.	kW : 8.7
Operating voltage	volt/Hz/phase : 400/50/3
Weight	kgs : 1800
Dimensions (WxDxH)	mm : 4990x1525x2170

* Above the current ambient temperature.

** Pressure at rated coolant flow.

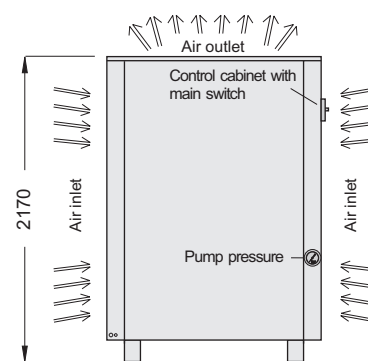
Alternative units: ACVE 150

AirCool Ventus + options / accessories:

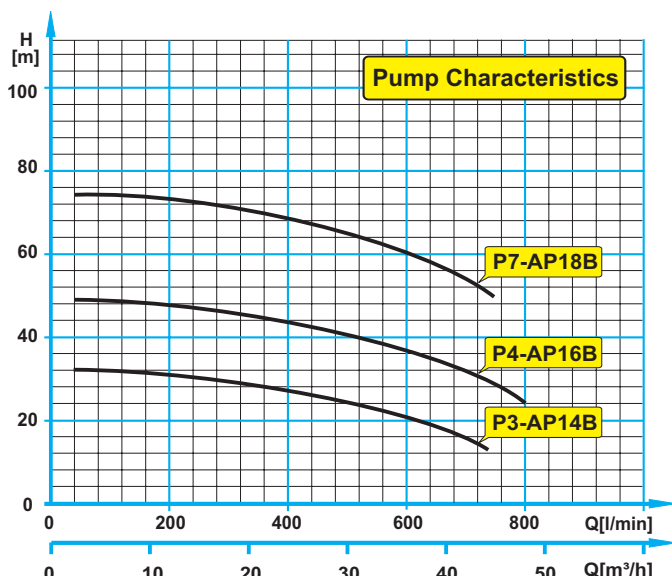
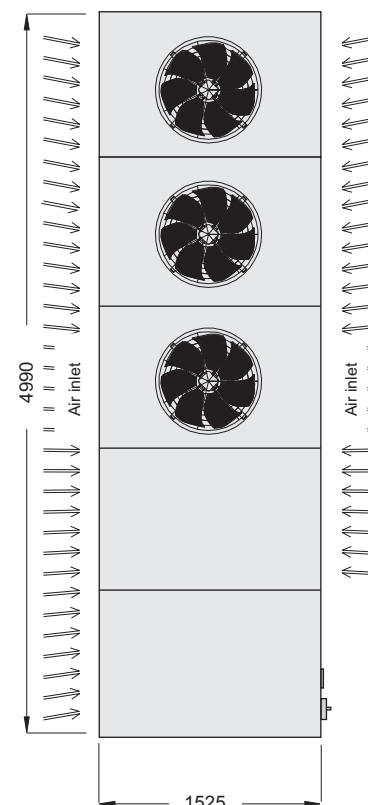
Cat. No.

AirCool Ventus ACVE 175	GUACVE175-NEB
Pump P4-AP16B instead of P3-AP14B	MACVE6-P4-AP16B-175
Pump P7-AP18B instead of P3-AP14B	MACVE6-P7-AP18B-175
Water flow switch	ZACVE6-008-175
Continuous-flow system without tank	on request
Export version with special voltages / frequencies	on request
Additional options and accessories as well as pump alternatives on request.	

Left side



Top



Einschraubverbinder aus Kunststoff. Für Steckanschluss (Kunststoff).
Straight adaptor made of plastic. For quick connection (plastic).

Abmessung / Dimension	Art. Nr. / Cat. No.
1/4" AG auf / to 8 mm AD	ZXX6-320-014008
3/8" AG auf / to 8 mm AD	ZXX6-320-038008
1/4" AG auf / to 10 mm AD	ZXX6-320-014010
3/8" AG auf / to 10 mm AD	ZXX6-320-038010
1/2" AG auf / to 10 mm AD	ZXX6-320-012010
3/8" AG auf / to 12 mm AD	ZXX6-320-038012
1/2" AG auf / to 12 mm AD	ZXX6-320-012012
3/8" AG auf / to 15 mm AD	ZXX6-320-038015
1/2" AG auf / to 15 mm AD	ZXX6-320-012015
3/4" AG auf / to 15 mm AD	ZXX6-320-034015



Winkel-Verbinder aus Kunststoff. Für Steckanschluss (Kunststoff).
Equal elbow made of plastic. For quick connection (plastic).

Abmessung / Dimension	Art. Nr. / Cat. No.
8 mm AD auf / to 8 mm AD	ZXX6-326-008008
10 mm AD auf / to 10 mm AD	ZXX6-326-010010
12 mm AD auf / to 12 mm AD	ZXX6-326-012012
15 mm AD auf / to 15 mm AD	ZXX6-326-015015



Winkeleinschraubverbinder aus Kunststoff. Für Steckanschluss (Kunststoff).
Swivel elbow made of plastic. For quick connection (plastic).

Abmessung / Dimension	Art. Nr. / Cat. No.
1/4" AG auf / to 8 mm AD	ZXX6-324-014008
3/8" AG auf / to 8 mm AD	ZXX6-324-038008
1/4" AG auf / to 10 mm AD	ZXX6-324-014010
3/8" AG auf / to 10 mm AD	ZXX6-324-038010
1/2" AG auf / to 10 mm AD	ZXX6-324-012010
3/8" AG auf / to 12 mm AD	ZXX6-324-038012
1/2" AG auf / to 12 mm AD	ZXX6-324-012012
3/8" AG auf / to 15 mm AD	ZXX6-324-038015
1/2" AG auf / to 15 mm AD	ZXX6-324-012015



Einsteckreduziervverbinder aus Kunststoff. Für Steckanschluss (Kunststoff).
Straight reduction made of plastic. For quick connection (plastic).

Abmessung / Dimension	Art. Nr. / Cat. No.
10 mm AD auf / to 8 mm AD	ZXX6-321-010008
12 mm AD auf / to 8 mm AD	ZXX6-321-012008
12 mm AD auf / to 10 mm AD	ZXX6-321-012010
15 mm AD auf / to 10 mm AD	ZXX6-321-015010
15 mm AD auf / to 12 mm AD	ZXX6-321-015012



Abkürzungen

AG = Außengewinde
AD = Außendurchmesser
ID = Innendurchmesser
VL = Vorlauf
RL = Rücklauf

Abbreviation

AG = male thread
AD = outer diameter
ID = inner diameter
VL = supply line
RL = return line

**Rohr-Steckdorn aus Kunststoff. Für Schlauchanschluss.
Tube to hose stem made of plastic. For hose connection.**

Abmessung / Dimension

8 mm AD auf / to 8 mm AD
10 mm AD auf / to 10 mm AD

Art. Nr. / Cat. No.

ZXX6-323-008008
ZXX6-323-010010



**Einschraub-Stutzen aus Kunststoff. Für Steckanschluss (Kunststoff).
Stem adaptor made of plastic. For quick connection (plastic).**

Abmessung / Dimension

1/4" AG auf / to 8 mm AD
3/8" AG auf / to 8 mm AD
1/4" AG auf / to 10 mm AD
3/8" AG auf / to 10 mm AD
1/2" AG auf / to 10 mm AD
3/8" AG auf / to 12 mm AD
1/2" AG auf / to 12 mm AD
3/8" AG auf / to 15 mm AD
1/2" AG auf / to 15 mm AD

Art. Nr. / Cat. No.

ZXX6-328-014008
ZXX6-328-038008
ZXX6-328-014010
ZXX6-328-038010
ZXX6-328-012010
ZXX6-328-038012
ZXX6-328-012012
ZXX6-328-038015
ZXX6-328-012015



**Y-Verbinder aus Kunststoff. Für Steckanschluss (Kunststoff).
Two way divider made of plastic. For quick connection (plastic).**

Abmessung / Dimension

8 mm AD auf / to 8 mm AD
10 mm AD auf / to 10 mm AD
12 mm AD auf / to 12 mm AD
15 mm AD auf / to 15 mm AD

Art. Nr. / Cat. No.

ZXX6-327-008008
ZXX6-327-010010
ZXX6-327-012012
ZXX6-327-015015



**T-Verbinder aus Kunststoff. Für Steckanschluss (Kunststoff).
Equal tee made of plastic. For quick connection (plastic).**

Abmessung / Dimension

8 mm AD auf / to 8 mm AD
10 mm AD auf / to 10 mm AD
12 mm AD auf / to 12 mm AD
15 mm AD auf / to 15 mm AD

Art. Nr. / Cat. No.

ZXX6-325-008008
ZXX6-325-010010
ZXX6-325-012012
ZXX6-325-015015



**Gerader-Verbinder aus Kunststoff. Für Steckanschluss (Kunststoff).
Equal straight made of plastic. For quick connection (plastic).**

Abmessung / Dimension

8 mm AD auf / to 8 mm AD
10 mm AD auf / to 10 mm AD
12 mm AD auf / to 12 mm AD
15 mm AD auf / to 15 mm AD

Art. Nr. / Cat. No.

ZXX6-322-008008
ZXX6-322-010010
ZXX6-322-012012
ZXX6-322-015015



Abkürzungen

AG = Außengewinde
AD = Außendurchmesser
ID = Innendurchmesser
VL = Vorlauf
RL = Rücklauf

Abbreviation

AG = male thread
AD = outer diameter
ID = inner diameter
VL = supply line
RL = return line

Schott-Verbinder aus Kunststoff. Für Steckanschluss (Kunststoff).
Bulkhead made of plastic. For quick connection (plastic).

Abmessung / Dimension	Art. Nr. / Cat. No.
8 mm AD auf / to 8 mm AD	ZXX6-331-008008
10 mm AD auf / to 10 mm AD	ZXX6-331-010010
12 mm AD auf / to 12 mm AD	ZXX6-331-012012



Absperrventil aus Kunststoff. Für Steckanschluss (Kunststoff).
Shut-Off-Valve made of plastic. For quick connection (plastic).

Abmessung / Dimension	Art. Nr. / Cat. No.
8 mm AD auf / to 8 mm AD	ZXX6-330-008008
10 mm AD auf / to 10 mm AD	ZXX6-330-010010
12 mm AD auf / to 12 mm AD	ZXX6-330-012012



Kunststoffrohr aus Polyamid. Material: weich / Farbe: schwarz - weitere a. A.
Tubing made of polyamide. Material: soft / Colour: black - more on request.

Abmessung / Dimension	Art. Nr. / Cat. No.
8 mm AD, 6 mm ID	ZXX6-313-006008
10 mm AD, 8 mm ID	ZXX6-313-008010
12 mm AD, 9 mm ID	ZXX6-313-009012
15 mm AD, 12 mm ID	ZXX6-313-012015



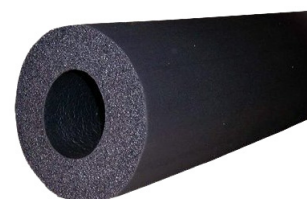
Rohrklemme aus Kunststoff. Für Kunststoffrohr aus Polyamid.
Tube clip made of plastic. For tubing made of polyamide.

Abmessung / Dimension	Art. Nr. / Cat. No.
für / for 8 mm AD	ZXX6-315-008
für / for 10 mm AD	ZXX6-315-010
für / for 12 mm AD	ZXX6-315-012
für / for 15 mm AD	ZXX6-315-015



Armaflex Isolierung. Für Kunststoffrohr aus Polyamid.
Armaflex insulation. For tubing made of polyamide.

Abmessung / Dimension	Art. Nr. / Cat. No.
für / for 8 mm AD	ZXX6-314-010015
für / for 10 mm AD	ZXX6-314-010015
für / for 12 mm AD	ZXX6-314-010018
für / for 15 mm AD	ZXX6-314-018028



Abkürzungen

AG = Außengewinde
AD = Außendurchmesser
ID = Innendurchmesser
VL = Vorlauf
RL = Rücklauf

Abbreviation

AG = male thread
AD = outer diameter
ID = inner diameter
VL = supply line
RL = return line

Durchflußmengenregler mit Schaugläsern aus Kunststoff. Durchflußanzeige durch Schwebekugeln (0 bis 30 l/min). Ohne Temperaturanzeige.
Flow regulator with gauge glasses made of plastic. Flow indicator with floating balls (0 to 30 l/min). Without temperature indicator.

Ausführung / Version

Art. Nr. / Cat. No.

2x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-086-0340382
3x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-086-0340383
4x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-086-0340384
5x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-086-0340385
6x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-086-0340386
8x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-086-0340388

2x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-084-1140382
3x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-084-1140383
4x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-084-1140384
5x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-084-1140385
6x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-084-1140386
8x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-084-1140388



Durchflußmengenregler mit Schaugläsern aus Kunststoff. Durchflußanzeige durch Schwebekugeln (0 bis 30 l/min). Mit analoger Temperaturanzeige je Regelkreis.
Flow regulator with gauge glasses made of plastic. Flow indicator with floating balls (0 to 30 l/min). With analog temperature indicator for each control loop.

Ausführung / Version

Art. Nr. / Cat. No.

2x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-085-0340382
3x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-085-0340383
4x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-085-0340384
5x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-085-0340385
6x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-085-0340386
8x, 3/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-085-0340388

2x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-087-1140382
3x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-087-1140383
4x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-087-1140384
5x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-087-1140385
6x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-087-1140386
8x, 1 1/4" VL/RL, 3/8" Regelkreis / control loop	ZXX6-087-1140388



Telefonwahlgerät ProfiCaller (je 5 m Anschlußleitung).
Telephone dialler ProfiCaller (5 m connecting lead each).

Ausführung / Version

Art. Nr. / Cat. No.

für Telefonanschluß TAE-N, 4 Alarmausgänge for telephone connection (TAE-N socket), 4 alarm outputs	ZXX2-009-TX
für Mobilfunkanschluß GSM, 8 Alarmausgänge for GSM mobile connection, 8 alarm outputs	ZXX2-009-TX-GSM



Abkürzungen

AG = Außengewinde
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Abbreviation

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CHILLER QUESTIONNAIRE

Using a Chiller to cool apparatus and equipment is especially effective, and hence cost-saving, provided the unit selected does not have excessive cooling capacity. We would therefore be grateful if you could answer the following questions so that we can offer you the appliance best suited to your needs:

1. What cooling / conditioning problem do you need a Chiller for? _____

2. How much heat has to be dissipated? _____ kW
3. What cooling water temperature does your application need?
(desired coolant discharge temperature) _____ °C
4. How accurately does the temperature of the coolant (cooling water) have
to be maintained? [e.g. $\pm 3\text{K}(\text{°C})$] $\pm$ _____ K (°C)
5. What water pressure is needed? min./max. _____ / _____ bar
6. What flow rate is required? _____ litres/min
7. What is the max. ambient temperature where the cooling equipment is installed? _____ °C
8. Distance between location of cooling equipment and application: _____ m
9. What is the difference in height between the two locations? _____ m
10. How big is the space where the cooler is to be installed? WxDxH= _____ x _____ x _____ m
11. Where is the planned installation site for the cooling equipment? ☐ outside ☐ inside
12. Is there a cooling circuit or central cooling water supply in the building?
No ☐
Yes ☐ Yes, the existing cooling circuit is to be used in future. Outlet temperature _____ °C
Yes ☐ This is already used for cooling my application. (Please fill in No. 13, items a – c as well!)
13. Is the process currently cooled with tap water (mains water)?
Yes ☐
 - a) Temperature of cooling water on leaving the water main: _____ °C
(Please measure, do not estimate!)
 - b) Temperature of cooling water after flowing through your application: _____ °C
(Please measure, do not estimate!)
 - c) Flow rate of cooling water in litres per minute: _____ litres/min
(Place a bucket under the water outlet for one minute, then measure the contents. Do not estimate!)
No ☐ Which type of cooling is used at present? _____

Type and make of the cooler used. Enclose a copy of the technical specifications if appropriate.

Company: _____ Dept.: _____
(Name of institute)
Address: _____ Postal Code / Town _____
(or P.O. Box No.)
Country: _____ Tel.: _____ / _____ Fax: _____
Contact person: _____ e-mail: _____ @ _____

A sketch may be of help for complex applications.

Please use the back of this form for any further

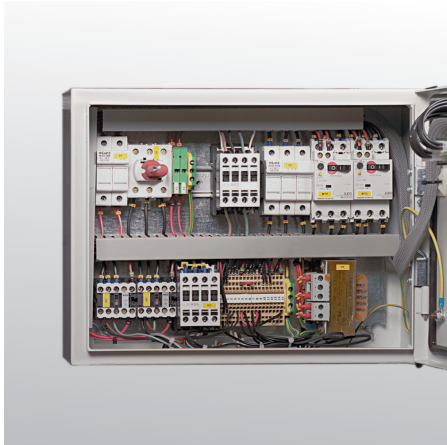
Thank you for the taking the trouble to answer these questions.

Thank you for answering the questions

PC-FB-EN-120605



Download the Questionnaire: www.catalopedia.de/pc_en.htm



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