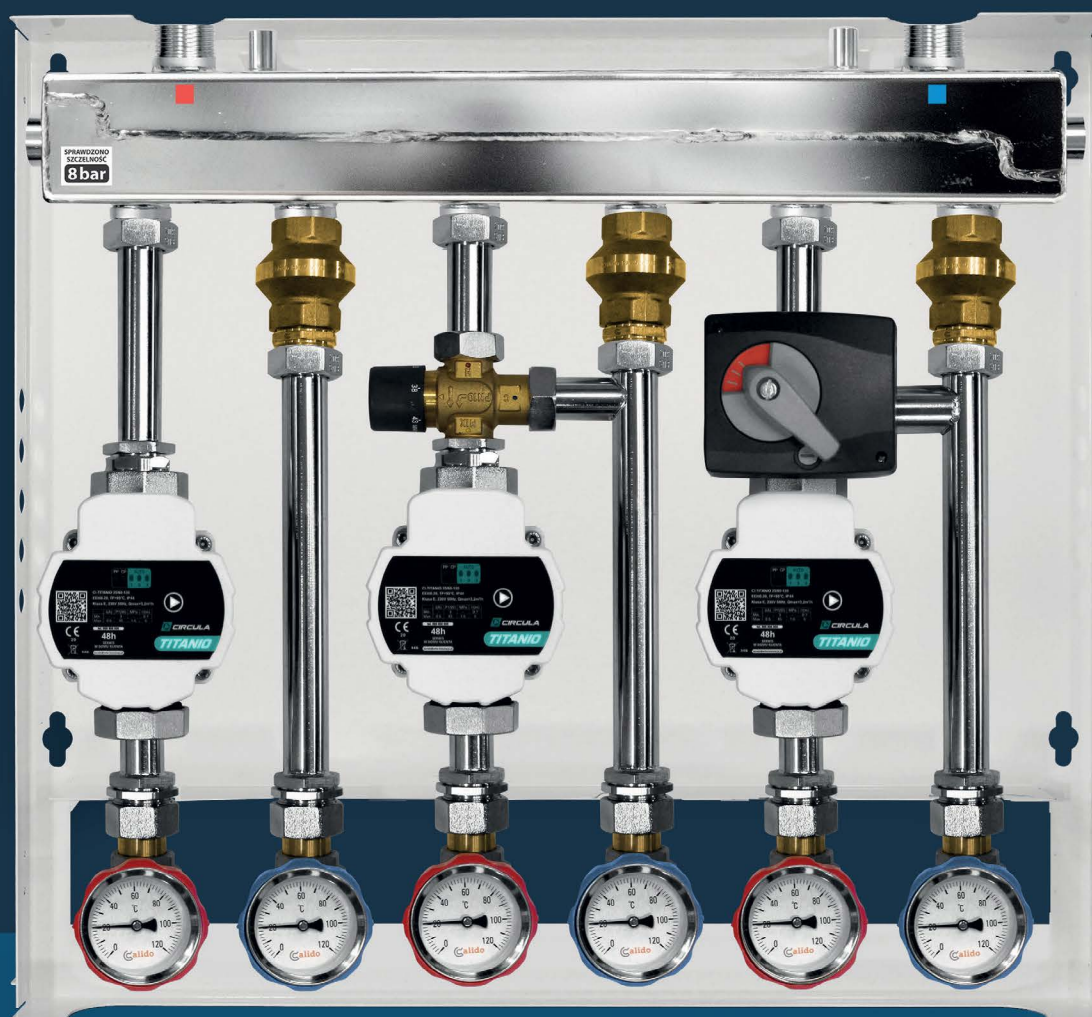
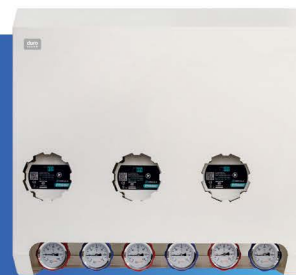


cluro
system

THE SET
IS READY FOR
INSTALLATION



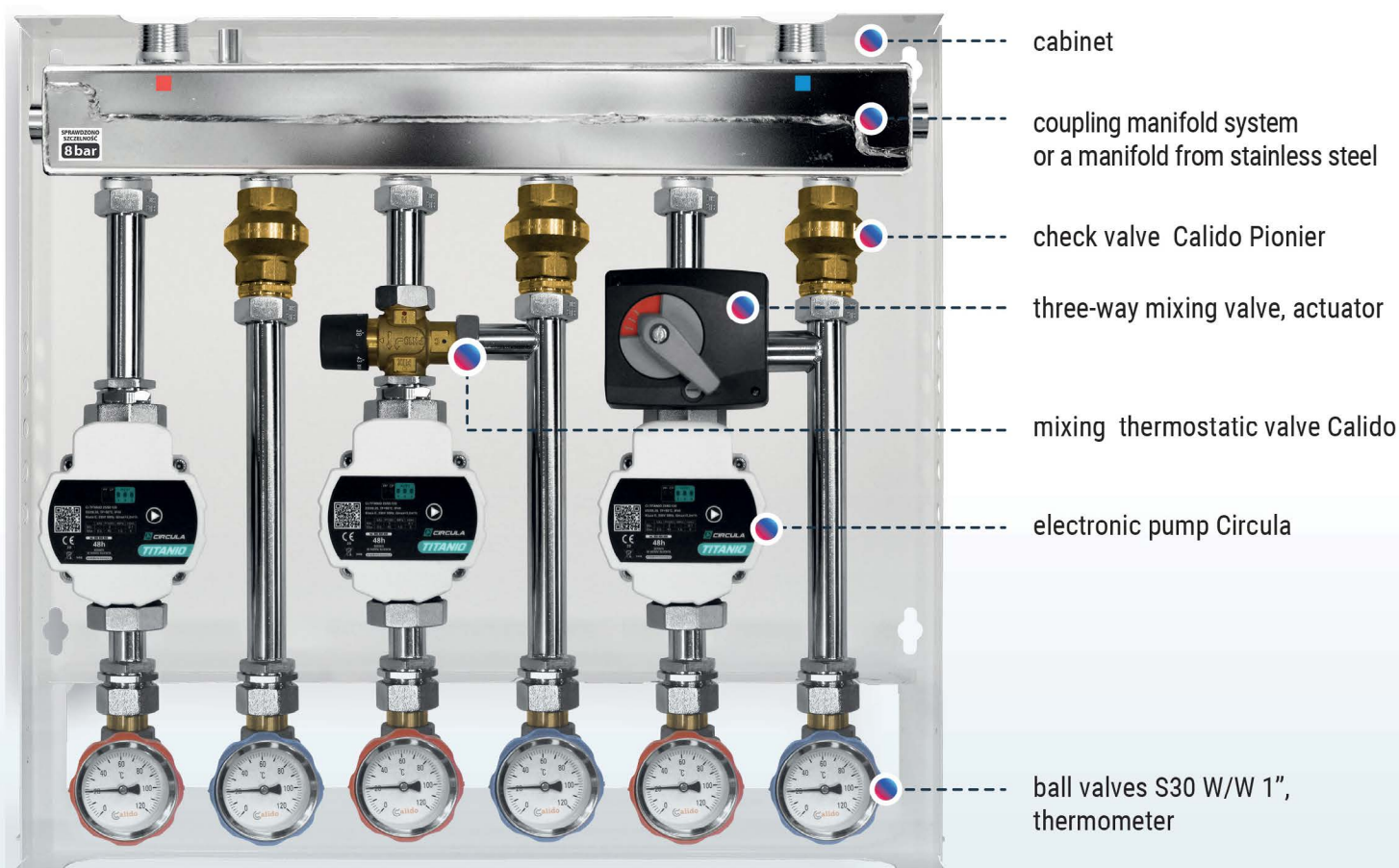
Pump groups

with manifold / coupling manifold and casing,
2 - section / 3 - section

Application

- Application in central heating  and floor heating systems 
- Aimed for division of heating system circuits.
- Available in configuration with two or three separate heating circuits.
- The heating circuits are combined with a dedicated coupling manifold system or a manifold from stainless steel.
- All the elements of pump groups Duro System are factory-assembled and closed in a cabinet, which ensures quick and trouble-free assembly and start-up of the entire system.
- Assembly set (bolts + screws) attached.

Construction



Technical data

Power of the system ≤ 30 kW, P max: 6 bar, T max: 90°C.

Medium: water (pursuant to PN-C-04607:1993) or water and glycol solution, up to 50%

Kvs value (flow coefficient) of a 3-way thermostatic valve Calido: 1,6 m³/h

Temperature control range of 3-way thermostatic valve: 23÷43°C

Kvs value (flow coefficient) of a 3-way mixing valve ESBE: 6,3 m³/h or Calido: 8,4 m³/h

Available configurations of pump groups with 2 heating sections



index

D/S-GPT-B-B

Group with clutch-manifold and pump Circula Titano 25/60-130

D/S-GPT-2B-80

Group with clutch-manifold and pump Circula Titano 25/80-130

D/S-GPRT-B-B

Group with manifold and pump Circula Titano 25/60-130

D/S-GPRT-2B-80

Group with manifold and pump Circula Titano 25/80-130

type of section

1 section

direct, with the pump Circula

2 section

direct, with the pump Circula



index

D/S-GPT-B-ZTM

Group with clutch-manifold and pump Circula Titano 25/60-130

D/S-GPT-B-ZTM-80

Group with clutch-manifold and pump Circula Titano 25/80-130

D/S-GPRT-B-ZTM

Group with manifold and pump Circula Titano 25/60-130

D/S-GPRT-B-ZTM-80

Group with manifold and pump Circula Titano 25/80-130

type of section

1 section

direct, with the pump Circula

2 section

with a mixing thermostatic valve and the pump Circula



index

D/S-GPT-B-Z3D

Group with clutch-manifold and pump Circula Titano 25/60-130

D/S-GPT-B-Z3D-80

Group with clutch-manifold and pump Circula Titano 25/80-130

D/S-GPRT-B-Z3D

Group with manifold and pump Circula Titano 25/60-130

D/S-GPRT-B-Z3D-80

Group with manifold and pump Circula Titano 25/80-130

type of section

1 section

direct, with the pump Circula

2 section

with a 3-way mixing valve, an actuator and the pump Circula



index

D/S-GPT-ZTM-Z3D

Group with clutch-manifold and pump Circula Titano 25/60-130

D/S-GPT-ZTM-Z3D-80

Group with clutch-manifold and pump Circula Titano 25/80-130

D/S-GPRT-ZTM-Z3D

Group with manifold and pump Circula Titano 25/60-130

D/S-GPRT-ZTM-Z3D-80

Group with manifold and pump Circula Titano 25/80-130

type of section

1 section

with a mixing thermostatic valve and the pump Circula

2 section

with a 3-way mixing valve, an actuator and the pump Circula



index

D/S-GPT-ZTM-ZTM

Group with clutch-manifold and pump Circula Titano 25/60-130

D/S-GPT-2ZTM-80

Group with clutch-manifold and pump Circula Titano 25/80-130

D/S-GPRT-ZTM-ZTM

Group with manifold and pump Circula Titano 25/60-130

D/S-GPRT-2ZTM-80

Group with manifold and pump Circula Titano 25/80-130

type of section

1 section

with a mixing thermostatic valve and the pump Circula

2 section

with a mixing thermostatic valve and the pump Circula



index

D/S-GPT-Z3D-Z3D

Group with clutch-manifold and pump Circula Titano 25/60-130

D/S-GPT-2Z3D-80

Group with clutch-manifold and pump Circula Titano 25/80-130

D/S-GPRT-Z3D-Z3D

Group with manifold and pump Circula Titano 25/60-130

D/S-GPRT-2Z3D-80

Group with manifold and pump Circula Titano 25/80-130

type of section

1 section

with a 3-way mixing valve, an actuator and the pump Circula

2 section

with a 3-way mixing valve, an actuator and the pump Circula

Available configurations of pump groups with 3 heating sections



index

D/S-GPT-B-B-B

Group with clutch-manifold and pump Circula Titanio 25/60-130

D/S-GPT-3B-80

Group with clutch-manifold and pump Circula Titanio 25/80-130

D/S-GPRT-B-B-B

Group with manifold and pump Circula Titanio 25/60-130

D/S-GPRT-3B-80

Group with manifold and pump Circula Titanio 25/80-130

type of section

1 section

direct, with the pump Circula

2 section

direct, with the pump Circula

3 section

direct, with the pump Circula



index

D/S-GPT-B-B-ZTM

Group with clutch-manifold and pump Circula Titanio 25/60-130

D/S-GPT-2B-ZTM-80

Group with clutch-manifold and pump Circula Titanio 25/80-130

D/S-GPRT-B-B-ZTM

Group with manifold and pump Circula Titanio 25/60-130

D/S-GPRT-2B-ZTM-80

Grupa z rozdzielaczem i pompą Circula Titanio 25/80-13

type of section

1 section

direct, with the pump Circula

2 section

direct, with the pump Circula

3 section

with a mixing thermostatic valve and the pump Circula



index

D/S-GPT-B-B-Z3D

Group with clutch-manifold and pump Circula Titanio 25/60-130

D/S-GPT-2B-Z3D-80

Group with clutch-manifold and pump Circula Titanio 25/80-130

D/S-GPRT-B-B-Z3D

Group with manifold and pump Circula Titanio 25/60-130

D/S-GPRT-2B-Z3D-80

Group with manifold and pump Circula Titanio 25/80-130

type of section

1 section

direct, with the pump Circula

2 section

direct, with the pump Circula

3 section

with a 3-way mixing valve, an actuator and the pump Circula



index

D/S-GPT-B-ZTM-ZTM

Group with clutch-manifold and pump Circula Titanio 25/60-130

D/S-GPT-B-Z2TM-80

Group with clutch-manifold and pump Circula Titanio 25/80-130

D/S-GPRT-B-ZTM-ZTM

Grupa z rozdzielaczem i pompą Circula Titanio 25/60-130

D/S-GPRT-B-Z2TM-80

Grupa z rozdzielaczem i pompą Circula Titanio 25/80-130

type of section

1 section

direct, with the pump Circula

2 section

with a mixing thermostatic valve and the pump Circula

3 section

with a mixing thermostatic valve and the pump Circula



index

D/S-GPT-B-ZTM-Z3D

Group with clutch-manifold and pump Circula Titanio 25/60-130

D/S-GPT-B-ZTM-Z3D-80

Group with clutch-manifold and pump Circula Titanio 25/80-130

D/S-GPRT-B-ZTM-Z3D

Group with manifold and pump Circula Titanio 25/60-130

D/S-GPRT-B-ZTM-Z3D80

Group with manifold and pump Circula Titanio 25/80-130

type of section

1 section

direct, with the pump Circula

2 section

with a mixing thermostatic valve and the pump Circula

3 section

with a 3-way mixing valve, an actuator and the pump Circula



index

D/S-GPT-B-Z3D-Z3D

Group with clutch-manifold and pump Circula Titanio 25/60-130

D/S-GPT-B-Z2Z3D-80

Group with clutch-manifold and pump Circula Titanio 25/80-130

D/S-GPRT-B-Z3D-Z3D

Group with manifold and pump Circula Titanio 25/60-130

D/S-GPRT-B-Z2Z3D-80

Group with manifold and pump Circula Titanio 25/80-130

type of section

1 section

direct, with the pump Circula

2 section with a 3-way mixing valve, an actuator and the pump Circula

3 section

with a 3-way mixing valve, an actuator and the pump Circula



Index

D/S-GPT-ZTM-ZTM-ZTM
Group with clutch-manifold and pump
Circula Titano 25/60-130
D/S-GPT-3ZTM-80
Group with clutch-manifold and pump
Circula Titano 25/80-130
D/S-GPRT-ZTM-ZTM-ZTM
Group with manifold and pump Circula
Titano 25/60-130
D/S-GPRT-3ZTM-80
Group with manifold and pump Circula
Titano 25/80-130

type of section

1 section
with a mixing thermostatic valve and the
pump Circula
2 section
with a mixing thermostatic valve and the
pump Circula
3 section
with a mixing thermostatic valve and the
pump Circula



Index

D/S-GPT-ZTM-Z3D-Z3D
Group with clutch-manifold and pump
Circula Titano 25/60-130
D/S-GPT-ZTM-2Z3D-80
Group with clutch-manifold and pump
Circula Titano 25/80-130
D/S-GPRT-ZTM-Z3D-Z3D
Group with manifold and pump Circula
Titano 25/60-130
D/S-GPRT-ZTM-2Z3D-80
Group with manifold and pump Circula
Titano 25/80-130

type of section

1 section
with a mixing thermostatic valve and the
pump Circula
2 section
with a 3-way mixing valve, an actuator
and the pump Circula
3 section
with a 3-way mixing valve, an actuator
and the pump Circula



index

D/S-GPT-ZTM-ZTM-Z3D
Group with clutch-manifold and pump
Circula Titano 25/60-130
D/S-GPT-2ZTM-Z3D-80
Group with clutch-manifold and pump
Circula Titano 25/80-130
D/S-GPRT-ZTM-ZTM-Z3D
Group with manifold and pump Circula
Titano 25/60-130
D/S-GPRT-2ZTM-Z3D-80
Group with manifold and pump Circula
Titano 25/80-130

type of section

1 section
with a mixing thermostatic valve and the
pump Circula
2 section
with a mixing thermostatic valve and the
pump Circula
3 section
with a 3-way mixing valve, an actuator
and the pump Circula



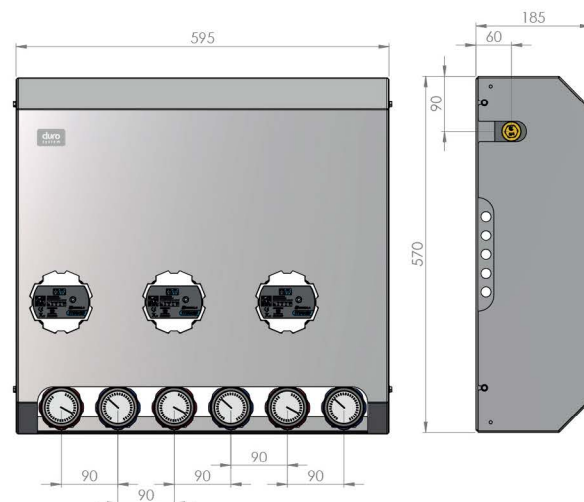
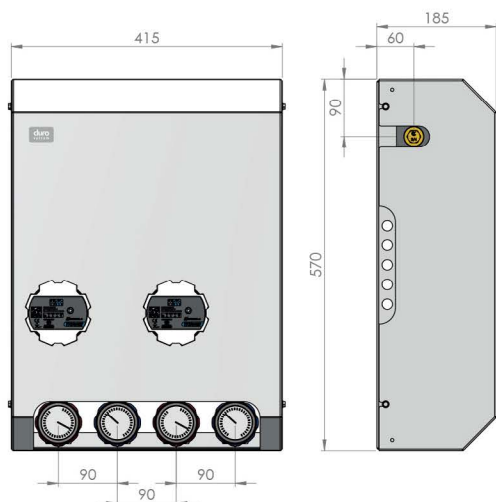
index

D/S-GPT-Z3D-Z3D-Z3D
Group with clutch-manifold and pump
Circula Titano 25/60-130:
D/S-GPT-3Z3D-80
Group with clutch-manifold and pump
Circula Titano 25/80-130
D/S-GPRT-Z3D-Z3D-Z3D
Group with manifold and pump Circula
Titano 25/60-130
D/S-GPRT-3Z3D-80
Group with manifold and pump Circula
Titano 25/80-130

type of section

1 section
with a 3-way mixing valve, an actuator
and the pump Circula
2 section
with a 3-way mixing valve, an actuator
and the pump Circula
3 section
with a 3-way mixing valve, an actuator
and the pump Circula

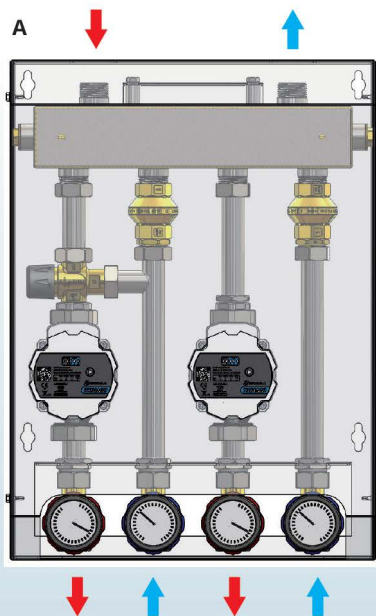
Dimensions



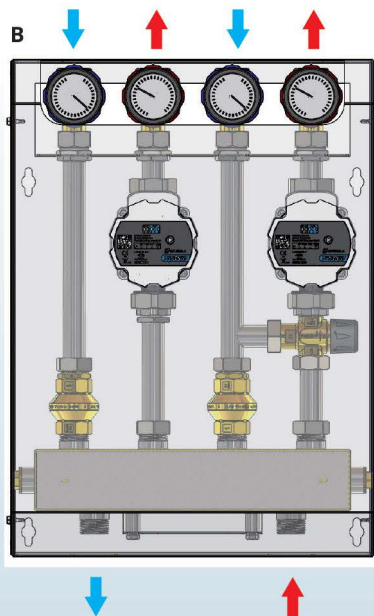
Method of assembly

Pump groups can be installed in the following positions:

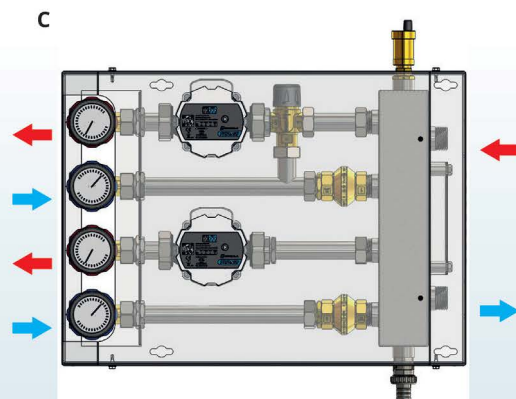
- heating medium is pumped downwards



- heating medium is pumped upwards



- heating medium is pumped to the left or to the right – a lateral position



In case of a lateral position, it is recommended that on the top of the coupling manifold system or the manifold an automatic air-vent should be installed and at the bottom of the coupling manifold system or the manifold a drain valve should be installed.

Kinds of heating sections



direct with Circula pump, ball valves S30 W/W 1", thermometer and check valve Pionier 1"



with a thermostatic, mixing, three-way valve, Circula pump, with ball valves S30 W/W 1", thermometer and check valve Pionier 1"



with a three-way mixing valve, actuator, Circula pump, with ball valves S30 W/W 1", thermometer and check valve Pionier 1"

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