

SYSTEM MIX-BOX

for 2 or 3 heating circuits

Perfect products for wall-hanging boilers



System MIX-BOX
available with two
types of pumps



Wilo
Yonos Para



Grundfos
UPM3 AutoL

The **MIX-BOX SYSTEM** is a complete distribution system of heating circuits in the installation with wall-hanging boiler, both standard and condensing. It can handle up to three heating circuits. The heating circuits may be pumping or mixing with rotary or thermostatic mixing valve. Pump group are equipped with pump **Wilo - type Yonos Para 15/6** or **Grundfos - type UPM3 Auto L 15 - 70**. The housing for **MIX-BOX** system is made in the wall version.

Technical data:

Zone manifold material:

Pump groups material:

Max temp.:

Max. work pressure:

Supply voltage pumps:

Thermostatic mixing valve working temperature range:

Length of pump:

Connection of the pump:

steel, insulation black 40 g/l

brass CW617N, copper

95°C

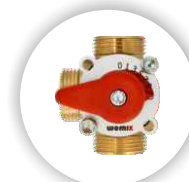
6 bar

230 VAC, 50 Hz

20 - 45°C.

130 mm

1" M



Mixing valve
Kvs 6,3



Thermostatic
mixing valve
Kvs 3,4

New



System MIX-BOX - DN 20

MIX-BOX 1 System of 2 heating circuits including one with a mixing valve and a rotary electric actuator



Type	Catalog number
System MIX-BOX 1 with group SA 83 and SMT 83 with pumps Wilo Yonos Para 15/6	604102
System MIX-BOX 1 with group SA 83 and SMT 83 with pumps Grundfos UPM3 Auto L 15 - 70	604121



The system contains:

1. Wall cabinet **P2** (catalog no: 604003),
2. Zone manifold **CX 2F** (catalog no: 604012),
3. Group **SA 83 MIX-BOX 20**,
4. Group **SMT 83 MIX-BOX 20**,



Zestaw MIX-BOX 2 System of 2 heating circuits including one with thermostatic mixing valve



Type	Catalog number
System MIX-BOX 2 with group SA 83 and SMTC 83 with pumps Wilo Yonos Para 15/6	604104
System MIX-BOX 2 with group SA 83 and SMTC 83 with pumps Grundfos UPM3 Auto L 15 - 70	604123



The system contains:

1. Wall cabinet **P2** (catalog no: 604003),
2. Zone manifold **CX 2F** (catalog no: 604012),
3. Group **SA 83 MIX-BOX 20**,
4. Group **SMTC 83 MIX-BOX 20**,



MIX-BOX 3 System of 2 heating circuits with a mixing valves and a rotary electric actuators



Type	Catalog number
System MIX-BOX 3 with 2 groups SMT 83 with pumps Wilo Yonos Para 15/6	604106
System MIX-BOX 3 with 2 groups SMT 83 with pumps Grundfos UPM3 Auto L 15 - 70	604125



The system contains:

1. Wall cabinet **P2** (catalog no: 604003),
2. Zone manifold **CX 2F** (catalog no: 604012),
3. Group **SMT 83 MIX-BOX 20**,
4. Group **SMT 83 MIX-BOX 20**,

2 x



2 x



System MIX-BOX - DN 20

MIX-BOX 4 System of 2 direct heating circuits without a mixing valves



Type	Catalog number
System MIX-BOX 4 with 2 groups SA 83 with pumps Wilo Yonos Para 15/6	604108
System MIX-BOX 4 with 2 groups SA 83 with pumps Grundfos UPM3 Auto L 15 - 70	604127



The system contains:

1. Wall cabinet P2 (catalog no: 604003),
2. Zone manifold CX 2F (catalog no: 604012),
3. Group SA 83 MIX-BOX 20,
4. Group SA 83 MIX-BOX 20,

MIX-BOX 5 System of 2 heating circuits with thermostatic mixing valves



Type	Catalog number
System MIX-BOX 5 with 2 groups SMTC 83 with pumps Wilo Yonos Para 15/6	604110
System MIX-BOX 5 with 2 groups SMTC 83 with pumps Grundfos UPM3 Auto L 15 - 70	604129



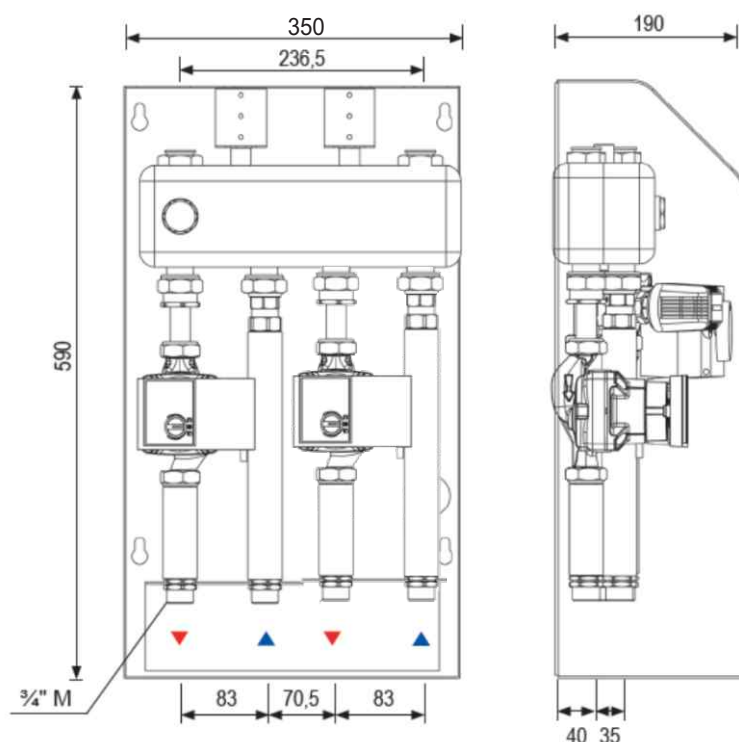
The system contains:

1. Wall cabinet P2 (catalog no: 604003),
2. Zone manifold CX 2F (catalog no: 604012),
3. Group SMTC 83 MIX-BOX 20,
4. Group SMTC 83 MIX-BOX 20,

2 x

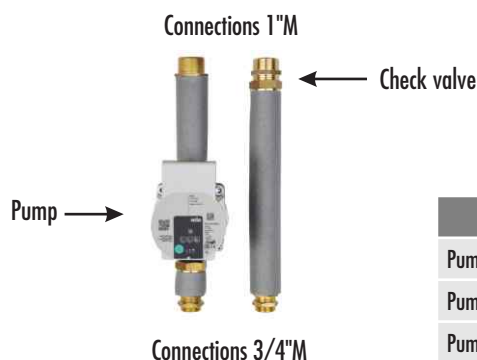


Dimensional scheme



System MIX-BOX - DN 20

Pump group SA 83 MIX-BOX 20

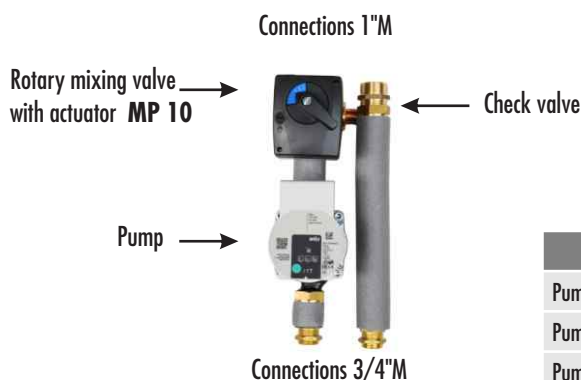


Pump group **SA 83 MIX-BOX 20** without mixing valve is equipped with a check valve, a set of insulated connecting pipes. Pump groups are available without pumps or with Wilo or Grundfos

Type	Catalog number
Pump group SA 83 MIX-BOX 20 without pump	604061
Pump group SA 83 MIX-BOX 20 with pump Wilo Yonos Para 15/6	604062
Pump group SA 83 MIX-BOX 20 with pump Grundfos UPM3 Auto L 15 - 70	604065



Pump group SMT 83 MIX-BOX 20

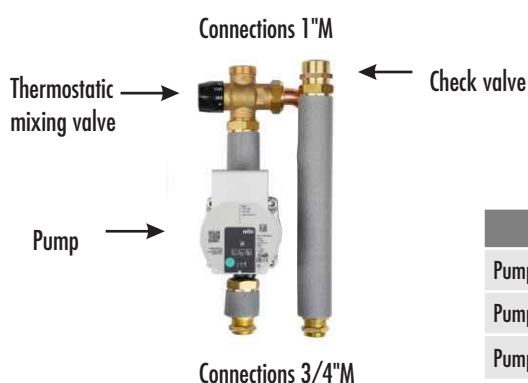


Pump group **SMT 83 MIX-BOX 20** is equipped with a 3-way rotary mixing valve **MIX M 3-20M** (kv 6.3), check valve, a set of insulated connecting pipes, mixing valve actuator **MP 10-230 / 140**. Pump groups are available without pumps or with Wilo or Grundfos.

Type	Catalog number
Pump group SMT 83 MIX-BOX 20 without pump	604081
Pump group SMT 83 MIX-BOX 20 with pump Wilo Yonos Para 15/6	604082
Pump group SMT 83 MIX-BOX 20 with pump Grundfos UPM3 Auto L 15 - 70	604085



Pump group SMTc 83 MIX-BOX 20



Pump group **SMTc 83 MIX-BOX 20** is equipped with a 3-way thermostatic mixing valve (DN 20, the range 20-45 C, kv 3,4), check valve, a set of insulated connecting pipes. Pump groups are available without pumps or with Wilo or Grundfos.

Type	Catalog number
Pump group SMTc 83 MIX-BOX 20 without pump	604071
Pump group SMTc 83 MIX-BOX 20 with pump Wilo Yonos Para 15/6	604072
Pump group SMTc 83 MIX-BOX 20 with pump Grundfos UPM3 Auto L 15 - 70	604075

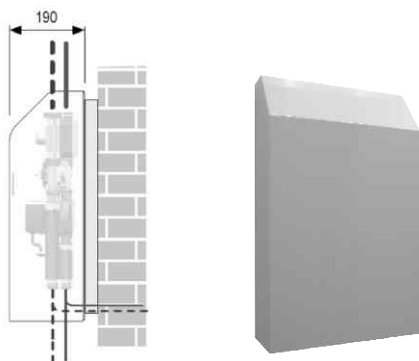


Available with pumps:



System MIX-BOX - DN 20

Cabinet mounting for the system **MIX-BOX** - wall-mounted version **P**



Galvanized plate material. Closing cabinet powder painted - white RAL 9010. The dimensions of the cabinet **P2** for 2 heating circuits: 590x350x190 (height / width / depth).

The dimensions of the cabinet **P3** for 3 heating circuits: 590x510x190 (height / width / depth).

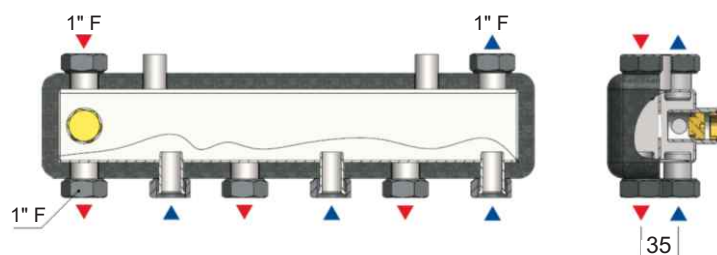
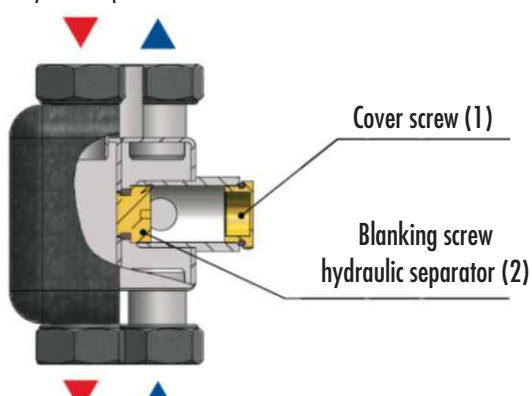
Type	Catalog number
Wall-mounted cabinet P2 for 2 heating circuits	604003
Wall-mounted cabinet P3 for 3 heating circuits	604002

Zone manifold for CX 2- or 3-circuits

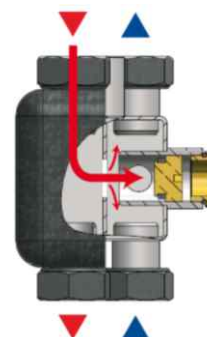
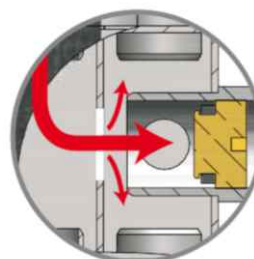


Zone manifold **CX** is made of black painted steel and insulated. It is equipped with mini-hydraulic separator, which by end cap can be opened (see picture).

Hydraulic separator closed



The MINI hydraulic separator
The flow diagram between supply and return.



How to open the Separator:

1. Remove the screw plug (1).
2. Remove the plug screw (2).
3. Tighten the locking screw (1).

Type	Catalog number
Zone manifold CX 2F for 2 heating circuits	604012
Zone manifold CX 3F for 3 heating circuits	604011

Attention! Normally, the mini hydraulic separator in the CX zone manifold is closed.

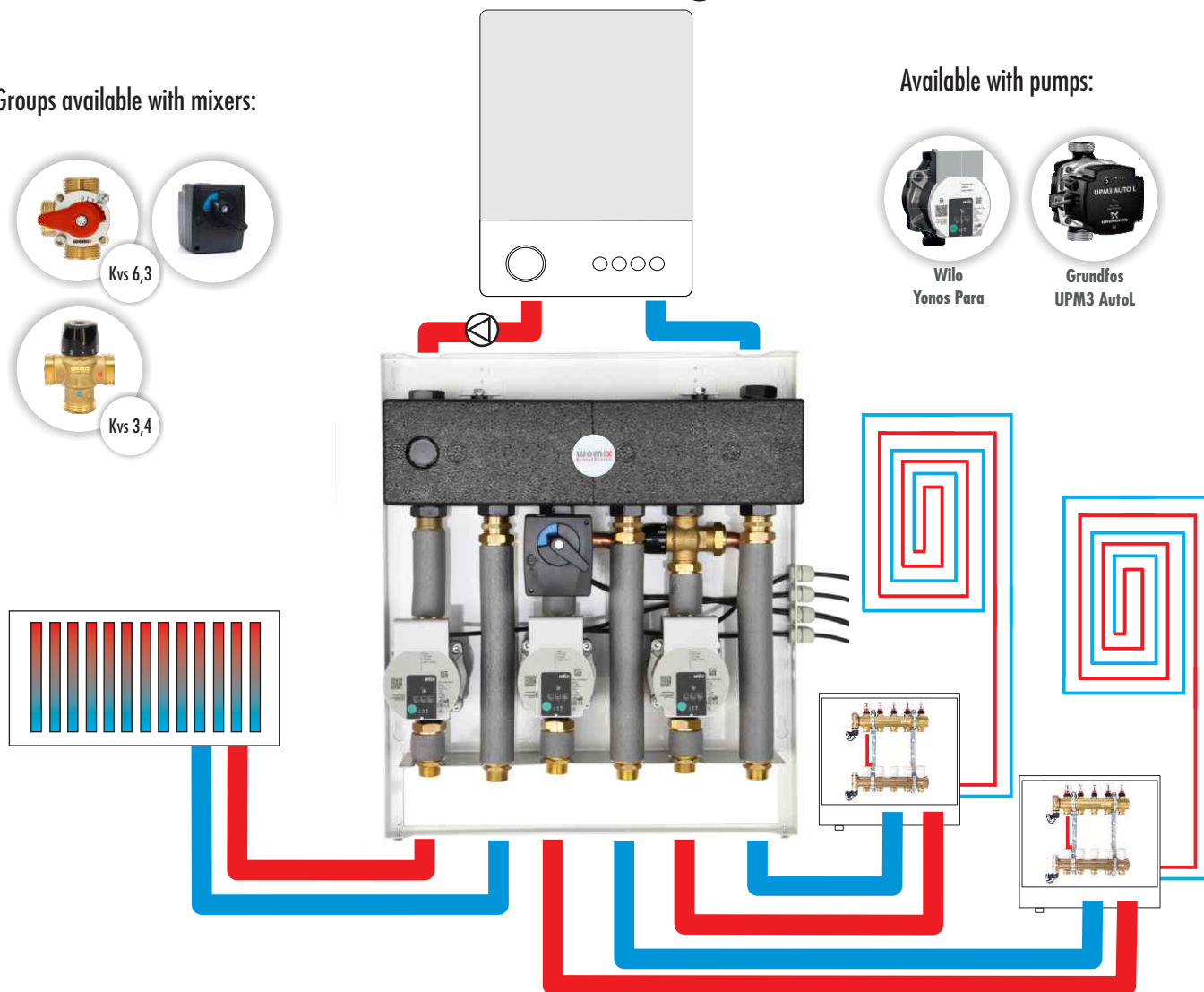


The MIX-BOX system is available in variants for 2 or 3 heating circuits

Groups available with mixers:



Available with pumps:



Adjust the MIX-BOX set to your needs.

Wall-mounted cabinet P3



+

Zone manifold CX 3F



+

SA 83
MIX-BOX 20



or

SMT 83
MIX-BOX 20



or

SMTC 83
MIX-BOX 20



System MIX-BOX - DN 20

Hydraulic separator **CPN MIX- BOX**

Equipment:



The hydraulic separator **CPN MIX-BOX** is made of steel. The factory is equipped with insulation, immersion sleeve for temperature sensor and the automatic air vent $\frac{3}{8}$ " with check valve $\frac{1}{2}$ ".

Hydraulic separator **CPN MIX-BOX** has been produced to ensure the full adjustment of the **MIX-BOX** system.

Technical data:

Separator material:	steel ST 37.1
Insulation separator:	EPP black 40 g / l
Max. temperature:	110 °C
Max. flow:	1.7 m ³ / h
Max. working pressure:	6 bar



Type	Catalog number
Hydraulic separator CPN MIX-BOX 2 with insulation (for system 2 circuits MIX-BOX)	604015
Hydraulic separator CPN MIX-BOX 3 with insulation (for system 3 circuits MIX-BOX)	604016