



HeatBloC® DN 32

Catalogue 01/2018

Systems, valves and fittings for the use
in hot water heating systems

Valid for the UK





Product range HeatBloC® MC - DN 32

Heating circuits for the balancing of the distribution manifold



All HeatBloC®s MC offer the following advantages:

Automatic, dynamic balancing of the distribution manifold

Security of supply, high comfort, avoids mutual influence at the distribution manifold, no flow rate variation due to the mixing valve position any more, necessary condition for a hydraulic balancing of the radiators

Replaces mechanical differential pressure controllers and hydraulic separators

High efficiency due to the low return temperature, energy-saving operation of the pumps, energy saving due to the pumps of approx. 50 % compared to mechanical differential pressure controllers in each line

Electronic controller

Electronic regulation of the differential pressure, temperature measurement and temperature regulation if necessary (HeatBloC MC43), display of the flow rate and the heat quantity with Grundfos pump

Preassembled group of fittings for heating circuits

High flexibility during assembly

The modules can be used in nearly any combination

Check valve in the return pipe

Avoids gravity circulation, can be opened, 200 mm wc, spring-loaded

Non-return valve in the mixing valve

Avoids unwanted circulation at the distribution manifold, can be opened, 50 mm wc, spring-loaded

Flow on the right = standard

The flow and return line can be easily changed on site (also for heating circuits with mixing valve)

All water-carrying parts are made of brass

EnEV-compliant functional insulation

Made of permanently elastic EPP, complete insulation of the valves and fittings with sealing lips, ventilation opening to cool the pump

PAW heating circulation pumps with high-efficiency technology

Fitted with 2 m cable, completely premounted, integrated in the insulation, pressure tested, with serial number, perfectly aligned system, dimensioning diagram, ErP READY

The pump can be entirely isolated

No draining necessary during servicing

Optional integration in a smart home environment



Product range HeatBloC® MC - DN 32 Heating circuits for the balancing of the distribution manifold - Types

MC41
direct / unmixed



up to 65 kW*

MC42
3-way mixing valve



up to 51 kW*

MC43
Controlled circuit with constant value,
3-way mixing valve with bypass 0-50%



up to 64 kW*

MC44
3-way mixing valve with bypass 0-50%



up to 64 kW*

MC46
Boiler charging set with 3-way mixing valve



up to 64 kW*

Modular distribution manifolds
2-fold, 3-fold, 4-fold, 5-fold, 6-fold



up to 150 kW* per boiler connection

MCom communication set



*Temperature difference = 20 K

DN 32



Application range

- for boiler charging
- for modulating temperature heating systems

Recommended application range

- up to 65 kW
- 20 K up to 2800l/h

Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value	15.1

Technical data

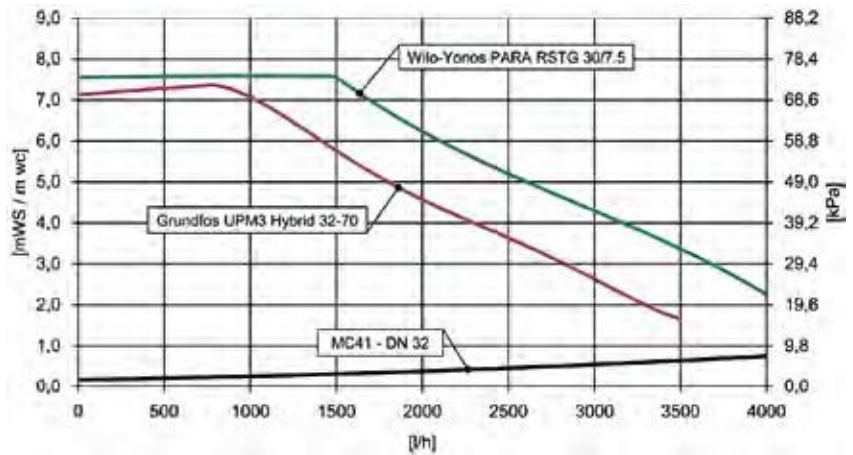
Dimensions

Nominal diameter	DN 32 (1¼")
Connection generator	2" external thread, flat sealing
Connection consumer	1¼" internal thread
(1) Height	557 mm
(2) Installation length	400 mm
(3) Centre distance	125 mm
(4) Width	250 mm

Materials

Valves and fittings	Brass
Gaskets	AFM34 / EPDM
Insulation	EPP, EnEV conform

Differential pressure diagram



HeatBloC® MC41 - DN 32 (1¼")



Grundfos UPM3 Hybrid 32-70, flow rate display

EEI*

with

Item no.

€ / piece

Wilo-Yonos PARA-RSTG 30/7.5

< 0.20

▲

4539013GU7

-

< 0.21

▲

4539013WG8

-

Accessories



Connection set for MCom controller (mandatory)

1398700

-

Wall power supply (24 V DC, RJ12, RS485) for the connection of the MCom controllers to the power supply. **Please note:** For the function of a MC system, **one** connection set is necessary, regardless of the number of the heating circuits.



MCom communication set (optional)

1398730

-

For WiFi communication with an Apple or Android terminal. The communication module is the condition for the integration in a smart home environment.



Application range

- for heating systems controlled by a mixing valve

Recommended application range

- up to 51 kW
- 20 K up to 2200l/h

Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value	96

Technical data

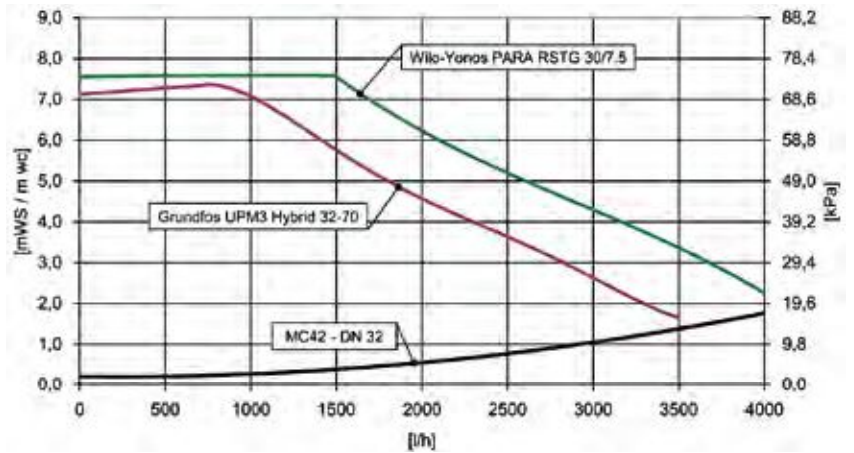
Dimensions

Nominal diameter	DN 32 (1¼")
Connection generator	2" external thread, flat sealing
Connection consumer	1¼" internal thread
(1) Height	557 mm
(2) Installation length	400 mm
(3) Centre distance	125 mm
(4) Width	250 mm

Materials

Valves and fittings	Brass
Gaskets	AFM34 / EPDM
Insulation	EPP, EnEV conform

Differential pressure diagram



HeatBloC® MC42 - DN 32 (1¼")	EEI*	with	Item no.	€ / piece
Grundfos UPM3 Hybrid 32-70, flow rate display	< 0.20	▲ M	4539053MGU7	-
Wilo-Yonos PARA-RSTG 30/7.5	< 0.21	▲ M	4539053MWG8	-



Accessories



Connection set for MCom controller (mandatory)

1398700

-

Wall power supply (24 V DC, RJ12, RS485) for the connection of the MCom controllers to the power supply.
Please note: For the function of a MC system, **one** connection set is necessary, regardless of the number of the heating circuits.



MCom communication set (optional)

1398730

-

For WiFi communication with an Apple or Android terminal.
 The communication module is the condition for the integration in a smart home environment.



Application range

- For low-temperature heating systems controlled by a mixing valve
- Constant value control circuit or indication of the nominal temperature via smart home environment

Recommended application range

- up to 64 kW
- 20 K up to 2760 l/h

Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value	10.1
Adjustment range of the bypass	0 - 50 %

Technical data

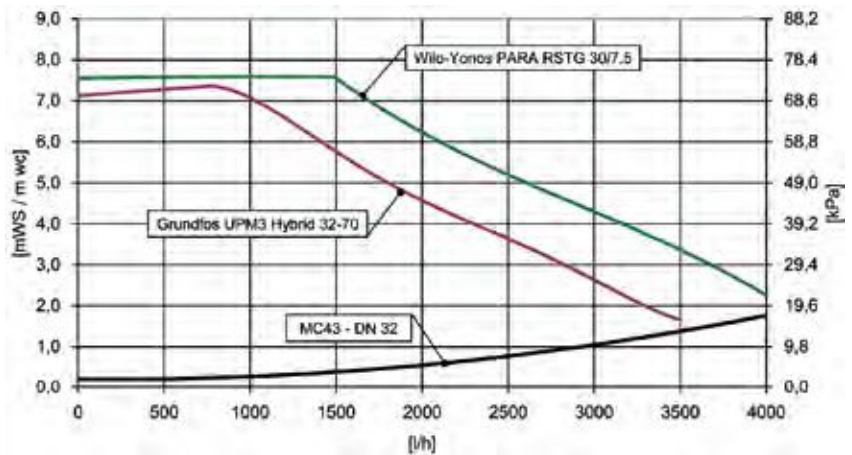
Dimensions

Nominal diameter	DN 32 (1¼")
Connection generator	2" external thread, flat sealing
Connection consumer	1¼" internal thread
(1) Height	557 mm
(2) Installation length	400 mm
(3) Centre distance	125 mm
(4) Width	250 mm

Materials

Valves and fittings	Brass
Gaskets	AFM34 / EPDM
Insulation	EPP, EnEV conform

Differential pressure diagram



DN 32

HeatBloC® MC43 - DN 32 (1¼")



Grundfos UPM3 Hybrid 32-70, flow rate display

Wilo-Yonos PARA-RSTG 30/7.5

EEI*	with	Item no.	€ / piece
< 0.20		4539073MGU7	-
< 0.21		4539073MWG8	-

Accessories



Connection set for MCom controller (mandatory)

1398700

Wall power supply (24 V DC, RJ12, RS485) for the connection of the MCom controllers to the power supply.
Please note: For the function of a MC system, **one** connection set is necessary, regardless of the number of the heating circuits.



MCom communication set (optional)

1398730

For WiFi communication with an Apple or Android terminal.
 The communication module is the condition for the integration in a smart home environment.



Application range

- for low-temperature heating systems controlled by a mixing valve

Recommended application range

- up to 64 kW
- 20 K up to 2760 l/h

Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value	10.1
Adjustment range of the bypass	0 - 50 %

Technical data

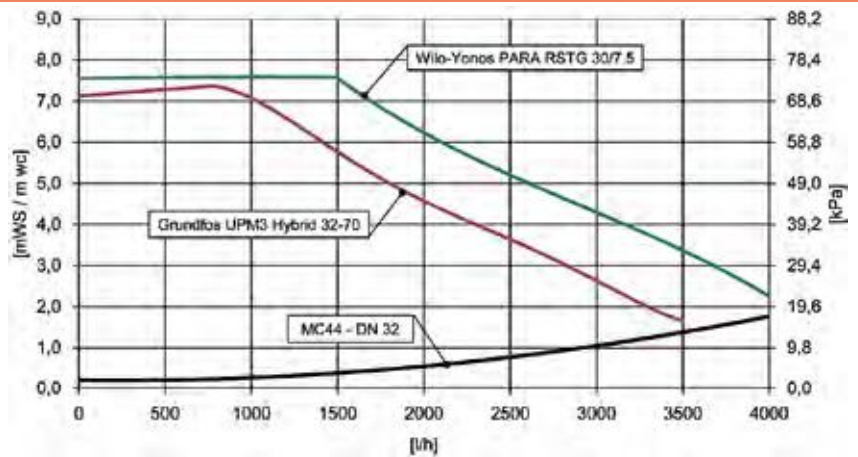
Dimensions

Nominal diameter	DN 32 (1¼")
Connection generator	2" external thread, flat sealing
Connection consumer	1¼" internal thread
(1) Height	557 mm
(2) Installation length	400 mm
(3) Centre distance	125 mm
(4) Width	250 mm

Materials

Valves and fittings	Brass
Gaskets	AFM34 / EPDM
Insulation	EPP, EnEV conform

Differential pressure diagram



HeatBloC® MC44 - DN 32 (1¼")	EEI*	with	Item no.	€ / piece
Grundfos UPM3 Hybrid 32-70, flow rate display	< 0.20	▲M	4539063MGU7	-
Wilo-Yonos PARA-RSTG 30/7.5	< 0.21	▲M	4539063MWG8	-



Accessories



Connection set for MCom controller (mandatory)

1398700

Wall power supply (24 V DC, RJ12, RS485) for the connection of the MCom controllers to the power supply.
Please note: For the function of a MC system, **one** connection set is necessary, regardless of the number of the heating circuits.



MCom communication set (optional)

1398730

For WiFi communication with an Apple or Android terminal.
 The communication module is the condition for the integration in a smart home environment.



Application range

- Return flow temperature maintenance for solid fuel boilers, wood firing and stove heating systems
- for a constant flow rate in the heat generator

Recommended application range

- up to 64 kW
- 20 K up to 2760 l/h

Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value	10.1

Technical data

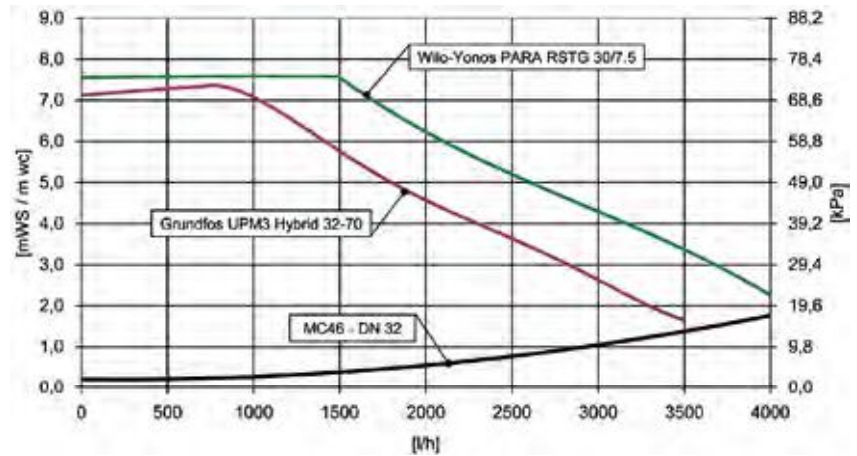
Dimensions

Nominal diameter	DN 32 (1¼")
Connection generator	2" external thread
Connection consumer	1¼" internal thread
(1) Height	557 mm
(2) Installation length	400 mm
(3) Centre distance	125 mm
(4) Width	250 mm

Materials

Valves and fittings	Brass
Gaskets	AFM34 / EPDM
Insulation	EPP, EnEV conform

Differential pressure diagram



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HeatBloC® MC46 - DN 32 (1¼")



Grundfos UPM3 Hybrid 32-70, flow rate display

EEI*	with	Item no.	€ / piece
< 0.20		45390333GU7	-
< 0.21		45390333WG8	-

Wilo-Yonos PARA-RSTG 30/7.5

with connection set for MCom controller

Accessories



MCom communication set (optional)

1398730

For WiFi communication with an Apple or Android terminal.
The communication module is the condition for the integration in a smart home environment.