



HeatBloC® DN 40/50

Catalogue 01/2018

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

Valid for the UK





Product range HeatBloC® MC - DN 40/50

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 and temperature measurement

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

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

DN 40



Product range HeatBloC® MC - DN 40/50 Heating circuits for the balancing of the distribution manifold - Types

MC41 - DN 40 (1½")
direct / unmixed



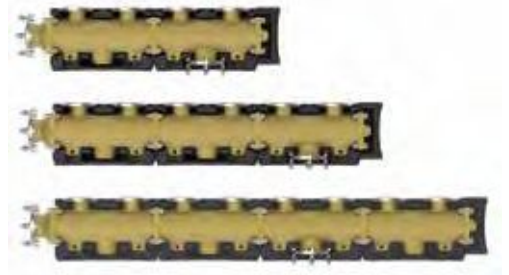
up to 150 kW*

MC42 - DN 40 (1½")
3-way mixing valve



up to 125 kW*

Modular distribution manifold DN 40 (1½")
2-fold, 3-fold, 4-fold



up to 250 kW*

MC41 - DN 50 (2")
direct / unmixed



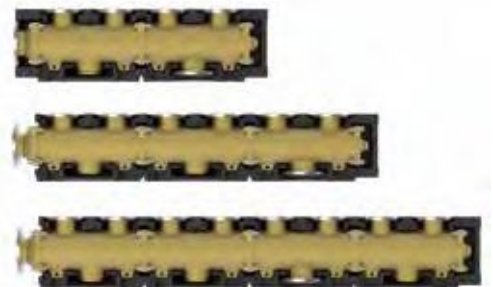
up to 250 kW*

MC42 - DN 50 (2")
3-way mixing valve



up to 230 kW*

Modular distribution manifold DN 50 (2")
2-fold, 3-fold, 4-fold



up to 400 kW*

DN 40

*Temperature difference = 20 K



Application range

- for boiler charging
- for modulating temperature heating systems

Recommended application range

- up to 150 kW
- 20 K up to 6500 l/h

Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value	28.3

Technical data

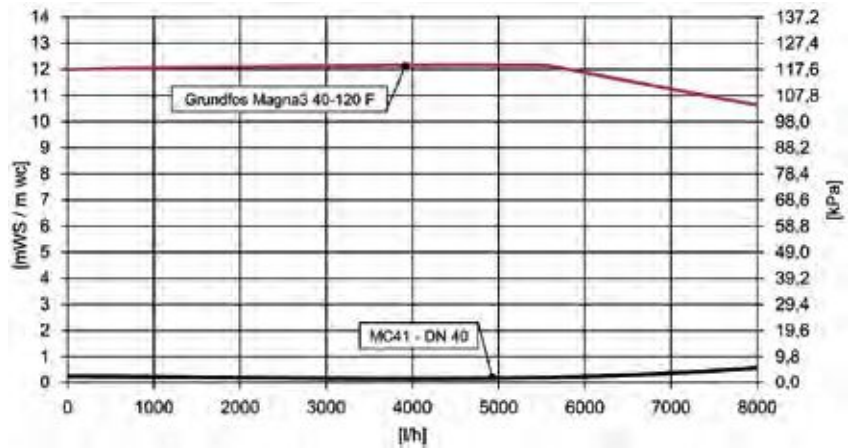
Dimensions

Nominal diameter	DN 40 (1½")
Connection generator	Flange DN 40 / PN 6
Connection consumer	1½" internal thread
(1) Height	790 mm
(2) Installation length	560 mm
(3) Centre distance	160 mm
(4) Width	320 mm

Materials

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

Differential pressure diagram



HeatBloC® MC41 - DN 40 (1½")

EEI*	with	Item no.	€ / piece
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Grundfos Magna3 40-120 F

<0.18	▲	4541011GH12	-
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Accessories

Connection set for MCom controller (mandatory)

1398700	-
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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	-
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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 125 kW
- 20 K up to 5400 l/h

Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value	17.7

Technical data

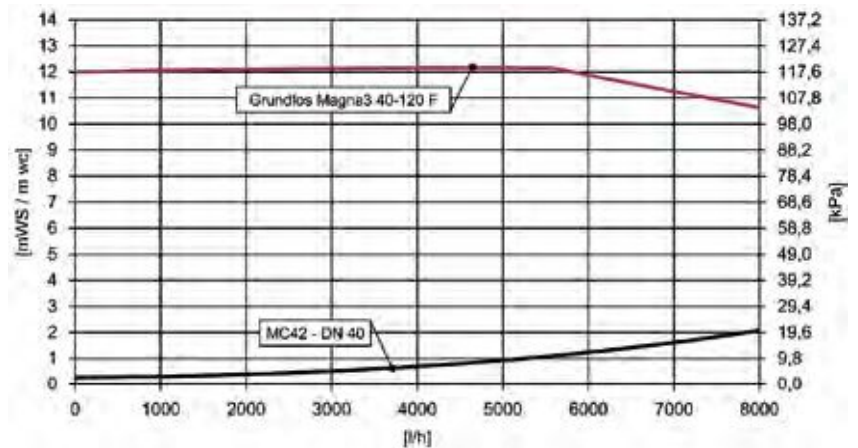
Dimensions

Nominal diameter	DN 40 (1½")
Connection generator	Flange DN 40 / PN 6
Connection consumer	1½" internal thread
(1) Height	790 mm
(2) Installation length	560 mm
(3) Centre distance	160 mm
(4) Width	320 mm

Materials

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

Differential pressure diagram



HeatBloC® MC42 - DN 40 (1½")	EEI*	with	Item no.	€ / piece
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Grundfos Magna3 40-120 F	< 0,18	▲	4541051MGH12	-
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DN 40

Accessories



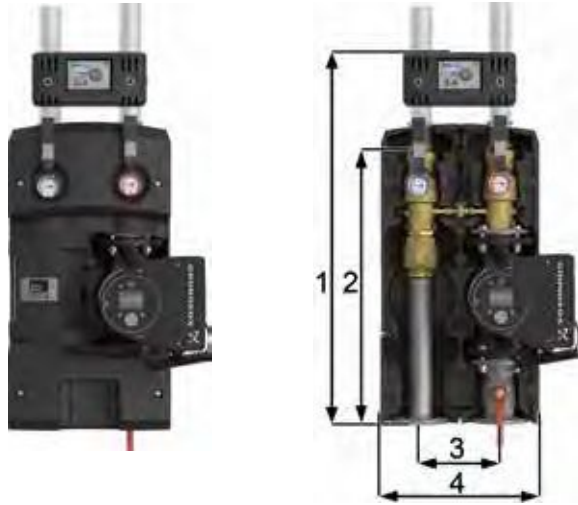
Connection set for MCom controller (mandatory)	1398700	-
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Wall power supply (24 V DC, RJ12, RS485) for the connection of the MCom controllers to the power supply.
Please note: For the function of a MC system, **one** connection set is necessary, regardless of the number of the heating circuits.



MCom communication set (optional)	1398730	-
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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 boiler charging
- for modulating temperature heating systems

Recommended application range

- up to 250 kW
- 20 K up to 10800 l/h

Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value	31.2

Technical data

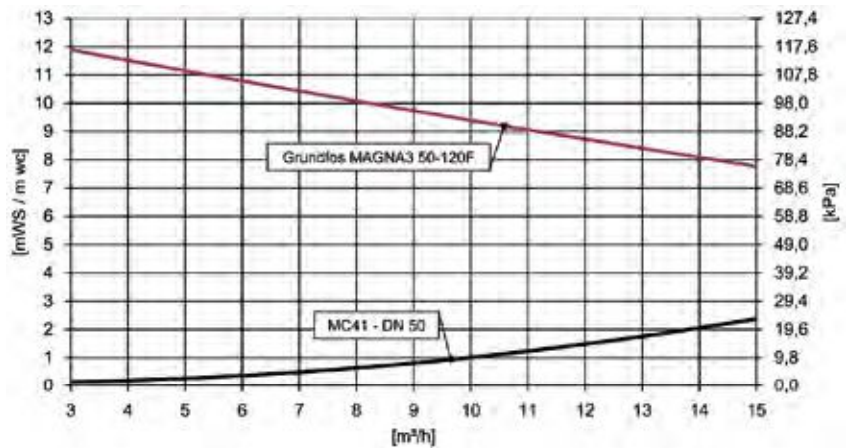
Dimensions

Nominal diameter	DN 50 (2")
Connection generator	Flange DN 40 / PN 6
Connection consumer	1½" internal thread
(1) Height	850 mm
(2) Installation length	630 mm
(3) Centre distance	180 mm
(4) Width	320 mm

Materials

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

Differential pressure diagram



HeatBloC® MC41 - DN 50 (2")

EEI*	with	Item no.	€ / piece
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Grundfos Magna3 50-120 F

<0.18	▲	4551011GH12	-
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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 230 kW
- 20 K up to 9980 l/h

Operating data

Maximum pressure	6 bars
Maximum operating temperature	110 °C
Kvs value	25.7

Technical data

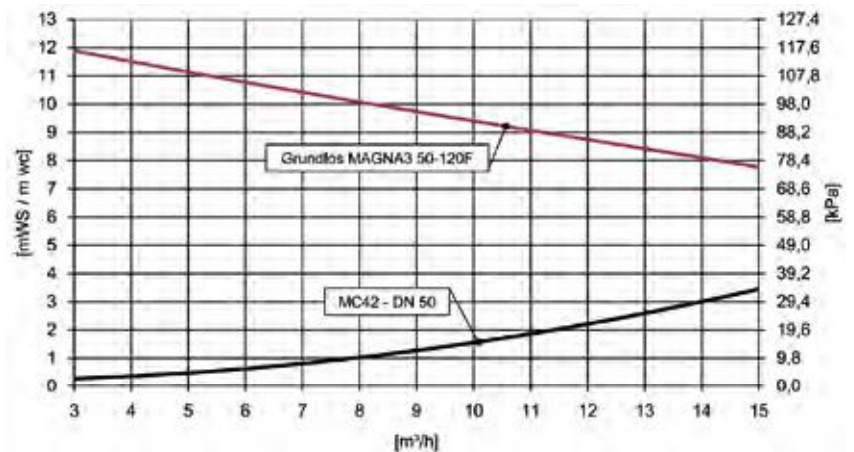
Dimensions

Nominal diameter	DN 50 (2")
Connection generator	Flange DN 40 / PN 6
Connection consumer	1½" internal thread
(1) Height	850 mm
(2) Installation length	630 mm
(3) Centre distance	180 mm
(4) Width	360 mm

Materials

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

Differential pressure diagram



HeatBloC® MC42 - DN 50 (2")	EEl*	with	Item no.	€ / piece
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Grundfos Magna3 50-120 F	< 0.18	▲	4551051MGH12	-
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DN 50

Accessories



Connection set for MCom controller (mandatory)	1398700	-
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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	-
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For WiFi communication with an Apple or Android terminal.
 The communication module is the condition for the integration in a smart home environment.