

THERMOTECH
Prefab



Thermotech

Assortment
2014

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DISCOVER THERMOTECH PREFAB

Thermotech Prefab is our concept with pre-assembled cabinets for underfloor heating, tap water and radiator cabinets with options for energy and water measurement. Prefab in itself is nothing new to the market, but we offer a broad and very cost-effective standard assortment. Moreover, with our flexible manufacturing, we can easily help out with special solutions as necessary.

The cabinets are delivered attractively and fully assembled in compliance with the customer's wishes. They have undergone pressure testing and are ready for installation. Save time and money and let us do the job.

We make it easier. We make it more attractive.

We make it exceptional.

CONTACT INFORMATION

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ThermoSystem™ Prefab



ThermoSystem™ Prefab Basic



ThermoSystem™ Prefab Basic Control

Fully assembled manifold cabinet with underfloor heating manifold or Integral

The ThermoSystem™ Prefab manifold cabinet is a leak-proof cabinet with an underfloor heating manifold or the Integral unit and couplings, fully assembled and ready for installation. Can be ordered with or without a control system.

Thermotech builds the cabinet per the customer's wishes and delivers the cabinet ready to connect to the feed pipe.

ThermoSystem™ manifold cabinets are available in three widths (540, 740 and 940 mm) and are made of galvanised sheet metal. The bottom trough in plastic can be easily detached and serve as a pipe fixture when installing ThermoSystem™ underfloor heating with slab-on-grade, for example. ThermoSystem™ Prefab can also be supplied with just a back plate and pipe fixtures, along with a frame with a door. An easy and efficient solution for attractive installation.

Thermotech underfloor heating manifolds and Integral in stainless steel are available from 2 to 12 and 2 to 10 loops, respectively. The stainless steel manifold features low weight and clean design, enabling simpler and more attractive installation. Underfloor heating drawings and calculations are appended in a plastic pocket attached to the inside of the front.

In ThermoSystem™ Prefab Basic Control there is either a wired or wireless control unit and actuators are pre-mounted and set per the project's documentation. The actuators and loop outputs are marked for each room upon delivery.

OPTIONS

When ordering ThermoSystem™ Prefab, the following options are available:

- Total underfloor heating loops
- The coupling to the feed pipe can be either on the right or left.
- The underfloor heating manifold can even be prepared for routing from above, beneath or for through configurations.
- Dimensions of loop outputs:
Clamp ring couplings 12, 16, 17 or 20 mm
Press fittings 16, 17 or 20 mm
Push coupling 8 mm
- Dimensions of feed pipe couplings:
Clamp ring couplings 25 or 32 mm
Press fittings 26 or 32 mm
- Complete cabinet or underfloor heating manifold mounted on back plate with pipe fixture and front with door
- Control alternatives for Integral:
Manual, Constant, Motor or Clima
- Wired or wireless control unit (applies to ThermoSystem™ Prefab Basic Control)

MultiSystem™ Prefab



MultiSystem™ Prefab Basic



MultiSystem™ Prefab Energy



MultiSystem™ Prefab Flow

Pre-assembled tap water cabinet with options for water or energy measurement

The MultiSystem™ Prefab manifold cabinet is a leak-proof cabinet with manifolds and couplings for tap water, fully assembled and ready for installation. We build the cabinet per the customer's wishes and deliver the cabinet ready to connect to the feed pipe.

Thermotech Multi manifolds are made of dezincified hardened brass. They are available with two or three couplings, and with or without integrated isolation valves.

MULTISYSTEM™ PREFAB BASIC

For Prefab Basic, manifold cabinets are available in three sizes (390, 540 and 690 mm) and are made of galvanised sheet metal. The bottom trough in plastic can be easily detached and serve as a pipe fixture when installing MultiSystem™ with slab-on-grade, for example.

MULTISYSTEM™ PREFAB ENERGY

The manifold cabinet for Prefab Energy is available in two sizes (540 and 690 mm) and is prepared for energy measurement; suitable for individual measurement in flats, for example. The meter is installed in the return manifold, and the sensor for flow temperature is mounted in the flow manifold. The cabinet is delivered with gauge blocks pre-mounted, adapted for energy meters 130 mm long and with 1" threads.

MULTISYSTEM™ PREFAB FLOW

The manifold cabinet for Prefab Flow is available in the width 540 mm and is manufactured entirely in painted galvanised sheet metal. The cabinet is prepared for flow measurement of hot and cold water in multi-dwelling buildings. The cabinet is delivered with gauge blocks already mounted, adapted for water meters 110 mm long and with 3/4" threads.

The cabinet can be cast into a wall or mounted in plaster-board walls with wood framing. The frame and door are available in two configurations – one model for fast and stable installation in plasterboard walls with wood framing, and another for embedding in cast walls with adjustment of the frame's position after casting.

There is space for seven cold water couplings in the cabinet and six couplings for hot water. The maximum dimension of protective tubing for feed pipes is 54 mm.

OPTIONS

When ordering MultiSystem™ Prefab, the following options are available:

For all MultiSystem™ Prefab cabinets

- Total couplings for hot and cold water.
- The coupling to the feed pipe can be either on the right or left. They can even be prepared for routing from above, beneath, through the sides or for through configurations.
- The manifold's couplings can be directed either upwards or downwards.
- Manifolds with or without isolation valves for each coupling.
- Coupling dimensions: Clamp ring couplings 15, 16, 18 or 20 mm, press fittings 16 or 20 mm.
- Feed pipe coupling dimensions: Clamp ring couplings 16, 18, 20 or 26 mm, press fittings 20 or 26 mm.

For MultiSystem™ Prefab Flow

- The cabinet can be prepared for connection to a hot water circulation circuit.



Assortment

**MultiSystem™ Prefab Flow
for multi-dwelling buildings**



MultiSystem™ Prefab Flow

FUNCTIONS & SPECIFICATIONS

Thermotech MultiSystem™ Prefab Flow is a manifold cabinet entirely in painted sheet metal for integration in framed walls with plasterboard or casting in concrete walls. The cabinet is designed for tap water installation with measurement of water consumption in multi-dwelling buildings (hot and cold water).

The feed pipes (for hot water and cold water) can be positioned with one line at each side of the cabinet (c/c 460 mm) or together on the right side of the cabinet (c/c 60 mm). The cold water supply is placed to the right in the cabinet and the hot water supply is placed to the left. The cabinet permits through feed, feed through the right side wall and downward feeds.

The maximum number of outputs for cold water is 7 and 6 for hot water. The rubber bushings for the feed pipes can accommodate protective tubing up to 54 mm.

The cabinet can be supplied fully assembled with gauge blocks designed for replacement with water meters with a length of 110 mm and 3/4" threads, flat sealing.

All equipment is designed and approved for tap water installations. Dezincified hardened brass and stainless steel are of the type approved for drinking water.

Recess dimensions

Width: 540 mm

Height: 655 mm

Depth: 95 mm

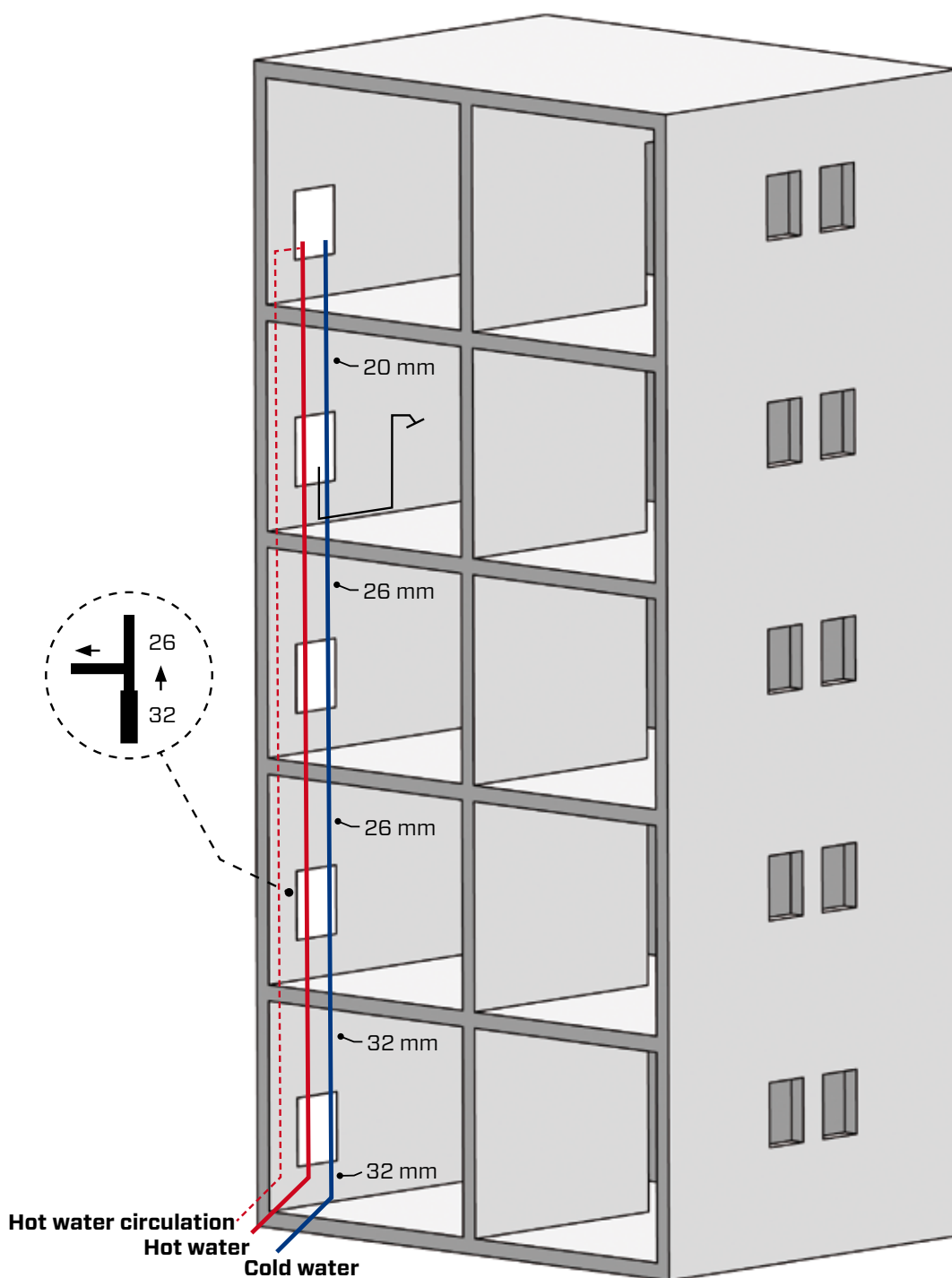
To facilitate ordering of MultiSystem™ Prefab Flow for multi-dwelling buildings, we have listed a number of stock products for the most commonly occurring variants.



MultiSystem™ Prefab Flow

PRINCIPAL DIAGRAM FOR MULTI-DWELLING BUILDINGS

The MultiSystem™ Prefab Flow basic assortment includes a complete selection of pre-assembled cabinets for multi-dwelling buildings. The assortment consists of cabinets with three different configurations for number of outputs to the tap locations. The cabinets are supplied with through T-couplings for feed dimensions of 26–32 mm or with angled couplings and a hot water circulation coupling for the final cabinet. The transitions for the feed pipe dimensions between floors are made in the cabinets.



MultiSystem™ Prefab Flow



CABINETS FOR MULTI-DWELLING BUILDINGS

Prepared for measurement of hot and cold water. The maximum dimension for protective tubing for feed pipes is 54 mm. The feed pipes are positioned on each side of the cabinet, hot water to the left and cold water to the right (c/c 460 mm). For water meter, 110 mm, G3/4". Front with frame ordered separately.

Cabinet recess dimensions:

W: 540 mm H: 655 mm D: 95 mm

Product ID	Supply dimensions (mm)	Total outputs	Supply type
78310-3232	32-32	4 CW/3 HW	Throughput
78310-3226	32-26	4 CW/3 HW	Throughput
78310-2626	26-26	4 CW/3 HW	Throughput
78310-2620	26-20	4 CW/3 HW	Throughput
78310-2600	26	4 CW/3 HW	Downwards, w/ HW circ. cplg.
78310-2000	20	4 CW/3 HW	Downwards, w/ HW circ. cplg.

Product ID	Supply dimensions (mm)	Total outputs	Supply type
78311-3232	32-32	5 CW/3 HW	Throughput
78311-3226	32-26	5 CW/3 HW	Throughput
78311-2626	26-26	5 CW/3 HW	Throughput
78311-2620	26-20	5 CW/3 HW	Throughput
78311-2600	26	5 CW/3 HW	Downwards, w/ HW circ. cplg.
78311-2000	20	5 CW/3 HW	Downwards, w/ HW circ. cplg.

Product ID	Supply dimensions (mm)	Total outputs	Supply type
78312-3232	32-32	6 CW/4 HW	Throughput
78312-3226	32-26	6 CW/4 HW	Throughput
78312-2626	26-26	6 CW/4 HW	Throughput
78312-2620	26-20	6 CW/4 HW	Throughput
78312-2600	26	6 CW/4 HW	Downwards, w/ HW circ. cplg.
78312-2000	20	6 CW/4 HW	Downwards, w/ HW circ. cplg.

MultiSystem™ Prefab Flow



FRONT WITH FRAME FOR PLASTERBOARD WALLS WITH WOOD FRAMING

In the frame for plasterboard walls with wood framing, there are keyhole-shaped holes that are aligned with the screws in the cabinet. The frame is then pulled downwards and locked in place in the “keyholes”.

Product ID

Part designation

75762-1

Front with frame for plasterboard walls with wood framing



FRONT WITH FRAME FOR CAST WALLS

In the frame for cast walls there are slot cut-outs. A tab at each corner of the cabinet enables it to be screwed to the inside of the mould. With the plastic bushings, the screws follow along when the mould is removed. The screws in the cabinet are loosened and the frame's slots are aligned with the screw holes. The frame can then be adjusted to compensate for any shifting of position during casting.

The tabs also make installation in framed walls easier since they are used as counter holes and attachment points to the stud sides.

Product ID

Part designation

75762-2

Front frame for cast walls



STANDS

The stand is adapted to the cabinet and is used to provide stable cabinet attachment. The stands are supplied as accessories in pairs. They are screwed to the cabinet's sides with the provided screws.

The stands can be vertically adjusted and permit installation heights of 300, 350, 400 and 450 mm above the underlying surface. Holes in the support pads enable screw attachment to cellular plastic or other surfaces.

Product ID

Part designation

38010

Stands

Thermotech's quality guarantee



norden

Nordisk InnovationsCenter

NORDTEST NT VVS 129

Thermotech MultiSystem™ has been tested and approved per Nordtest NT VVS 129. The test method is the market's toughest and common for all Nordic countries. NT VVS 129 tests for leakage in entire systems and not just individual components. Should an accident nonetheless occur with subsequent leakage, the water cannot spread to the construction and cause water damage.



SAFE PLUMBING INSTALLATION

Thermotech MultiSystem™ is designed in compliance with the regulations of the Swedish heating, water and sanitation industry. We guarantee the product's function as long as the industry's regulations and the product's installation instructions are followed.

Because our products are designed in accordance with industry regulations, they are listed in the VVS-Info's product database. (VVS-Info administers the Swedish HVAC's industry-wide product database.)

The insurance companies have participated in preparing the industry regulations and fully support them.



PLUMBING SYSTEMS TYPE-APPROVED BY SWEDCERT

The Thermotech plumbing systems Thermotech MultiSystem™ PE-RT Type 2 (type-approval certificate 0857) and Thermotech MultiSystem™ AluComposite (type approval certificate 0886) are type-approved by Swedcert.

The type-approvals cover the entire plumbing systems, i.e the pipes in combination with couplings for the Thermotech MultiSystem™.



General conditions and goods information

GENERAL TERMS OF DELIVERY

General terms of delivery:.....AA VVS 09
Payment terms:..... As agreed
Delivery terms:..... Free shipping within Sweden (unloading not included) for orders of five cabinets or more per delivery.

All prices apply from 1 December 2013 and until further notice. Prices are specified excluding VAT. Specified volume prices refer to prices per unit or meter when purchasing the smallest specified order volume or more.

Thermotech reserves the right to make changes without prior notice.

THERMOTECH TAKES RESPONSIBILITY

We are continually raising our sights when it comes to maintaining stable and high quality with effective routines and a streamlined organization. In spite of our efforts, things can sometimes still go wrong. Below is information about the conditions that must be fulfilled for us to take responsibility for your orders and deliveries, and for guaranteeing prompt and correct processing.

When an order is sent from our warehouse, we are responsible for the goods being properly packaged. We comply with the rules specified by our shippers regarding packaging, and the goods are insured through their insurance companies.

In the event of damage or loss of goods during transport, we reimburse for the goods at the invoice value. We send replacement material to you at no extra cost.

YOUR RESPONSIBILITY AS A CUSTOMER

Receiving goods

The goods shall be inspected upon delivery and the shipping bill signed. Check that the quantities match those stated both on the shipping bill and packing slip.

If there is any visible damage to the packaging, report this directly to the shipper upon reception. Take possession of the goods but never sign the shipping bill without first entering a remark in the confirmation section. The remarks need not be detailed, but are necessary for processing damage claims.

Remarks confirm that damage occurred during transport from us to you. This also gives us the opportunity to determine the cause and take measures so that this does not reoccur. You must also try to limit the damage whenever possible.

If anything is missing, enter a remark on the shipping bill before you sign for the goods. Contact the office where you placed your order. We then investigate the matter with our shippers. You should have the following information on hand when you contact the sales office: the order or shipping bill number and the order date.

Returns and exchanges

Exchanges of incorrectly ordered goods are made against a 15 % return deduction of the invoiced amount. The products must be unused and in their original packaging with all supplied documentation intact to be approved as returned or exchanged goods.

Complaints and damaged goods

And visible damage, incorrect amounts or loss must be immediately reported upon delivery of the goods and noted on a shipping document or other documentation. The remarks must be confirmed by the shipper's representative.

The receiving party is encouraged in direct conjunction with receiving goods, to check for hidden damage. Hidden damage must be reported to the shipper as soon as possible but no later than seven (7) days after delivery for road transport, or for stocked goods, no later than fourteen (14) days after delivery of goods shipped by air, and no later than three (3) days after delivery for goods shipped by sea.

The shipper is not responsible for hidden damage that is detected in conjunction with transport if the goods were previously transported or handled in a similar manner and the goods were not checked for any hidden damage before the most recent transport was begun.

For transports involving multiple shippers, during which a shipper other than current shipper handled the goods, the current shipper is not responsible for damage if this damage likely occurred when the goods were in the possession of another shipper.

Claims for late delivery must be reported as soon as possible and in accordance to the regulations applicable for the respective mode of transport. Pick-up times are preliminary and do not constitute binding obligations.

Senders and recipients are responsible for limiting any damage.

The damage must often be inspected. Due to this, you may not return, sell or repair the damaged goods before first contacting us. Damaged goods or faulty goods still under warranty are returned to Thermotech with a description of the fault and are marked with the assigned case number for prompt and correct processing.

To register a complaint, please contact your nearest regional office.



Thermotech Scandinavia AB has management systems for quality and the environment that fulfil the requirements of ISO 9001 and 14001.

ThermoSystem™ Prefab Basic order template

62705
Manifold cabinet 540 mm



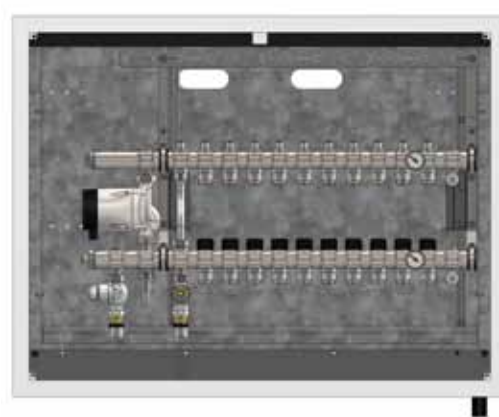
Equipment Underfloor heating mnfld.
Total loops 2-5

62707/62717
Manifold cabinet 740 mm



Equipment Underfloor heating mnfld.
Integral
Total loops 6-9
2-6

62709/62719
Manifold cabinet 940 mm



Equipment Underfloor heating mnfld.
Integral
Total loops 10-12
7-10

OPTIONS FOR UNDERFLOOR HEATING MANIFOLDS

FLOW

Feed direction:

- Downwards Side

RETURN

Feed direction:

- Downwards Side

INTEGRAL OPTIONS

Control alternatives:

- Manual Motor 230 V
 Constant Motor 0-10 V
 Motor 24 V Clima

TOTAL LOOPS: _____

FEED LOCATIONS

- Left
 Right

DIMENSIONS OF THE FEED PIPE COUPLINGS

Press fittings

- 26 mm
 32 mm*

Clamp ring couplings

- 25 mm
 32 mm*

DIMENSIONS OF THE LOOP OUTPUTS

Press fittings

- 16 mm
 17 mm
 20 mm

Clamp ring couplings

- 12 mm
 16 mm
 17 mm
 20 mm

MANIFOLD CABINETS

- Complete cabinets
 Only pipe fixtures, sheet metal back plate and front with frame

* Only for underfloor heating manifolds and cabinets 62707 and 62709.

ThermoSystem™ Prefab Basic Control order template

62705

Manifold cabinet 540 mm



Equipment Underfloor heating mnfld. Total loops 2-5

62707/62717

Manifold cabinet 740 mm



Equipment Underfloor heating mnfld. Integral Total loops 6-9 2-6

62709/62719

Manifold cabinet 940 mm



Equipment Underfloor heating mnfld. Integral Total loops 10-12 7-10

OPTIONS FOR UNDERFLOOR HEATING MANIFOLDS

FLOW

Feed direction:

- Downwards Side

RETURN

Feed direction:

- Downwards Side

INTEGRAL OPTIONS

Control alternatives

- Manual Motor 230 V
 Constant Motor 0-10 V
 Motor 24 V Clima

CONTROL SYSTEMS

- Wireless
 Wired

The underfloor heating manifold or Integral is delivered with pre-wired control units as well as connected actuators per the project drawing.

TOTAL LOOPS: _____

FEEDS

Press

- 26 mm
 32 mm*

Clamp ring cplg.

- 25 mm
 32 mm*

FEED LOCATIONS

- Left
 Right

OUTPUTS

Press fittings

- 16 mm
 17 mm
 20 mm

Clamp ring couplings

- 12 mm
 16 mm
 17 mm
 20 mm

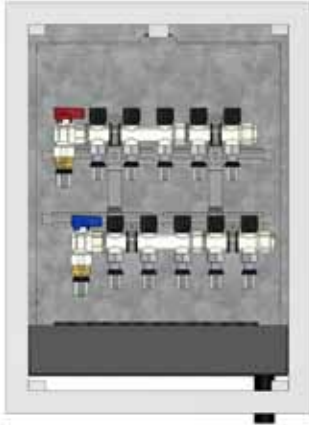
MANIFOLD CABINETS:

- Complete cabinets
 Only pipe fixtures, sheet metal back plate and front with frame

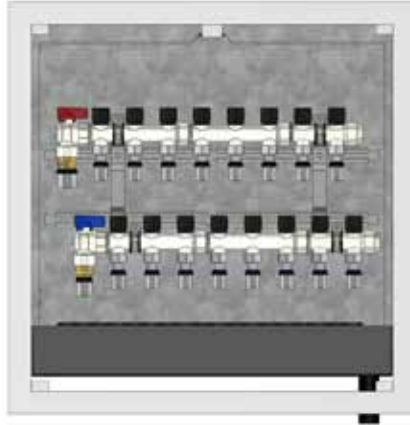
** Only underfloor heating manifolds*

MultiSystem™ Prefab Basic order template

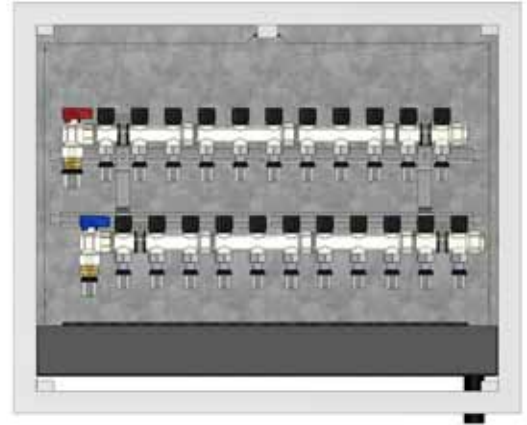
75701
MS Cabinet 390 mm



75702
MS Cabinet 540 mm



75703
MS Cabinet 690 mm



Supply	Total outputs
Downwards/upwards	2-5
Through the side	2-4
Throughput	2-4

Supply	Total outputs
Downwards/upwards	6-8
Through the side	5-7
Throughput	5-7

Supply	Total outputs
Downwards/upwards	9-11
Through the side	8-10
Throughput	8-10

HOT WATER

Total outputs: _____

Feed location

Left Right

COLD WATER

Total outputs: _____

Feed location

Left Right

FEEDS

Press fittings

20 mm
 26 mm

Clamp ring couplings

20 mm
 26 mm

FEED DIRECTION

Downwards Upwards
 Throughput* Side

OUTPUTS

Press fittings

16 mm
 20 mm

Clamp ring couplings

15 mm
 16 mm
 18 mm
 20 mm

OUTPUT ISOLATION VALVE

Yes No

* Only press fittings

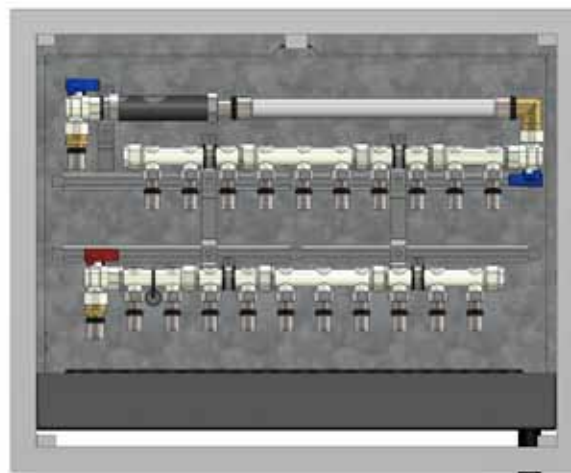
MultiSystem™ Prefab Energy order template

75702
MS Cabinet 540 mm



Supply	Total outputs
Downwards/upwards	2-7
Throughput	2-6

75703
MS Cabinet 690 mm



Supply	Total outputs
Downwards/upwards	8-10
Throughput	7-9

RETURN

Feed location

Left Right

FLOW

Feed location

Left Right

The cabinets are delivered ready for installation of energy meters with a length of 130 mm and G25 couplings. The flow meter is mounted on the return extension. Bushing is included for connection of temperature sensor with R_{1/6} threads on the flow manifold.

Note that the first extension on the flow manifold must be of the type 75202. This is necessary to provide space for the temperature sensor.

TOTAL LOOPS: _____

FEEDS

Press fittings	Clamp ring couplings
<input type="checkbox"/> 20 mm	<input type="checkbox"/> 20 mm
<input type="checkbox"/> 26 mm	<input type="checkbox"/> 26 mm

FEED DIRECTION

Downwards Throughput*

OUTPUTS

Press fittings	Clamp ring couplings
<input type="checkbox"/> 16 mm	<input type="checkbox"/> 15 mm
<input type="checkbox"/> 20 mm	<input type="checkbox"/> 16 mm
	<input type="checkbox"/> 18 mm
	<input type="checkbox"/> 20 mm

AIR VENT IN RETURN EXTENSION

Yes No

* Only press fittings

MultiSystem™ Prefab order template

78220
MS Prefab Flow 540



Supply	Total outputs
Cold water	Max. 7
Hot water	Max. 6

78222
MS Prefab Flow H 540



Supply	Total outputs
Cold water	Max. 7
Hot water	Max. 6

COLD WATER

Total outputs: _____ (max. 7)

- _____ manifolds, 2 outputs (75102)
- _____ manifolds, 3 outputs (75103)
- _____ manifolds, 2 outputs with isol. valve (75202)
- _____ manifolds, 3 outputs with isol. valve (75203)

HOT WATER

Total outputs: _____ (max. 6)

- _____ manifolds, 2 outputs (75102)
- _____ manifolds, 3 outputs (75103)
- _____ manifolds, 2 outputs with isol. valve (75202)
- _____ manifolds, 3 outputs with isol. valve (75203)

PACKAGE FOR CONNECTION TO HOT WATER CIRCULATION CIRCUIT

- Hot water circulation package for flow dimension 20 mm (78205)
- Hot water circulation package for flow dimension 26 mm (78206)

FEEDS

Throughput

- 20 mm (74820-20)
- 26 mm (74826-20)
- 32 mm (74832-20)

Downwards

- 20 mm (73220-20)
- 26 mm (73226-20)

Throughput, right side (only 78222)

- 20 mm (72220-20)
- 26 mm (72226-20)

OUTPUTS

- 16 mm (72616-15)
- 20 mm (72620-15)

FRAME WITH DOOR

- Frame with door for plasterboard walls with wood framing (75762-1)
Included in 78220/78222.
- Frame with door for cast walls (75762-2)

The cabinets are delivered ready for installation of water meters with a length of 110 mm and G20 couplings.



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