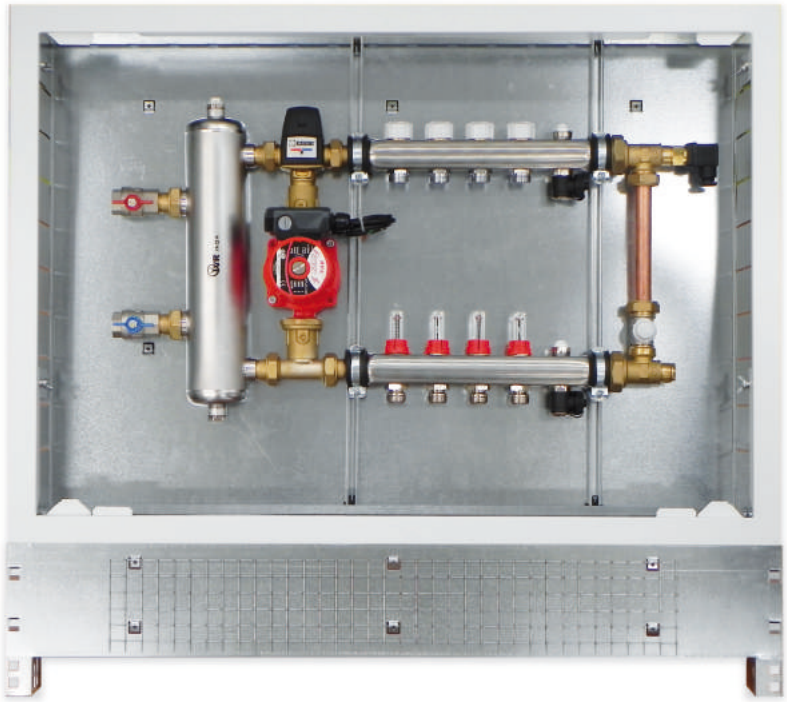
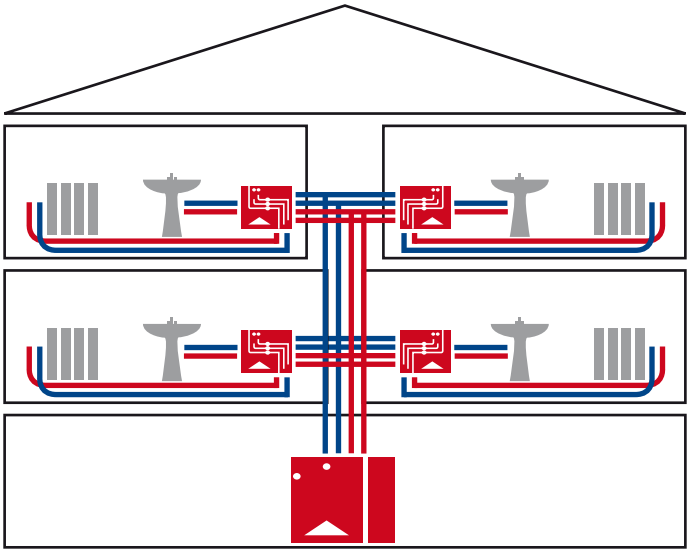


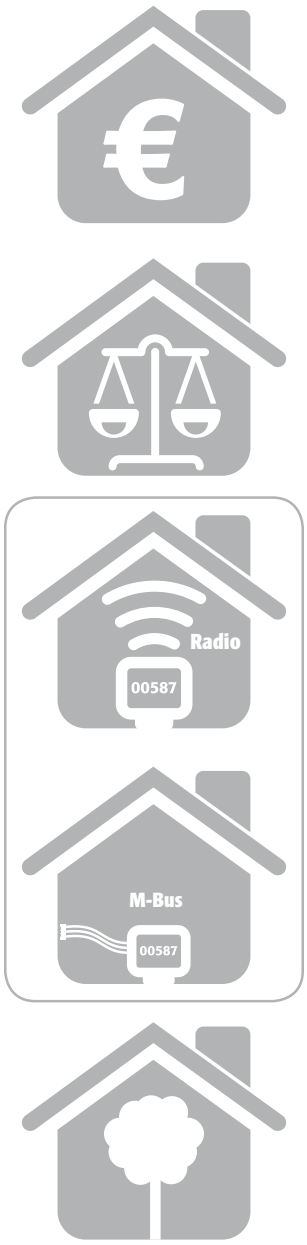
IVR MULTIKLIMA

IVR Multiklima Units for Metering of water and energy consumption and Distribution in central heating and plumbing systems

IVR®
The flow of your success

In recent times there has been a return to central heating solutions in multi-family properties, this is partially due to new building regulations. There are undeniable benefits that such systems allow to achieve in terms of installation cost, energy efficiency, durability, maintenance and safety.
After years of single home autonomous heating, that provided the only advantage of allowing greater freedom of management, the centralized system combined with the accounting systems of consumption is the best solution from both technical and economic point of view.





The combined advantages of central heating and single home consumption accounting

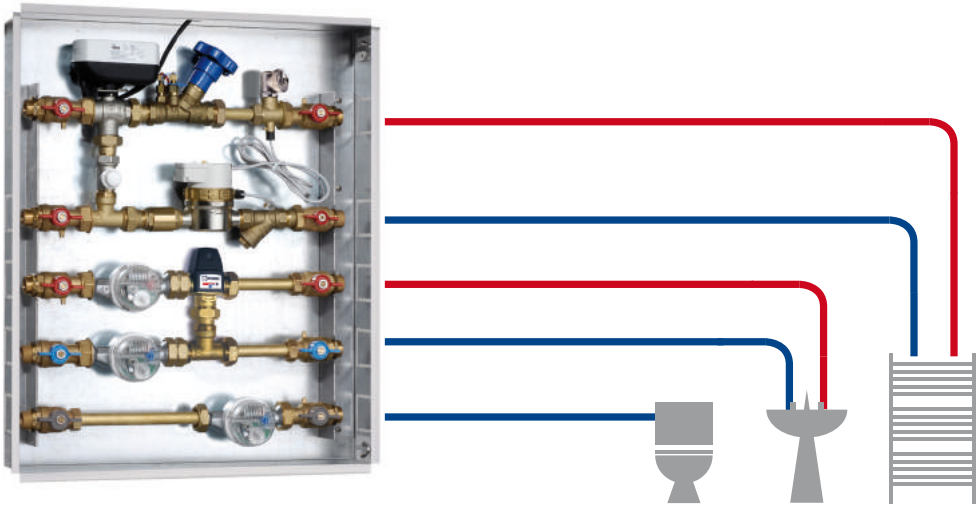
- It provides undeniable cost savings: the installation of Metering systems, or cost allocation devices, where it is not possible or convenient to adopt IVR MULTIKLIMA UNITS, combined with the use of thermostatic heads on radiators allows energy savings between 12% and 30%.
- The maintenance and periodic check-ups are less expensive for a centralized system if compared with the sum of costs of check-ups for many individual autonomous units
- It allows greater flexibility in living comfort and temperature regulation in singe rooms when combined with the installation of thermostatic heads placed on radiators
- Provides a fair solution for costs sharing for heating/cooling, DHW (Domestic Hot Water) and DC(old) W, which are proportionally divided according to real consumption of individual homes
- It is a good economic investment in the property, Central Heating increases the property's market value when combined with accounting or cost allocation solutions
- It receives incentives and VAT tax deductions from environment policies in most countries nowadays
- The absence of boilers in homes increases safety
- The activity of Central Heating systems are not pre-scheduled by local authorities when they are combined with metering and single home cost accounting systems
- The higher level of energy consumption efficiency is a benefit for the environment in general
- It helps the building/home achieve a certification for high level of energy consumption efficiency, most countries are nowadays classifying buildings on an environmental impact basis

In addition:

- IVR MULTIKLIMA units are compatible with any type of fuel/energy source used
- IVR MULTIKLIMA unit perfectly suit with solar heating systems and district heating schemes
- The accounting systems built with radio or M-Bus is safe, reliable and does not allow device tampering or to alter the data consumption
- The seasonal consumption data can be sent to the BMS supervisor in a clear and comprehensive format*
- No access to the home or condo is required for data reading *
- No presence of data collection devices in the common parts of the building **
- No need for cables **

A greater proof of the benefits of accounting, is the fact that nowadays the new buildings that include more than 4 housing units must be equipped with a system of heat metering. For these buildings some regional authorities in Europe have already issued regulations imposing the installation of accounting/ metering or heat cost allocation devices

* In the case of units with M-Bus Radio Version
** In the case of units with radio data transmission



Functions

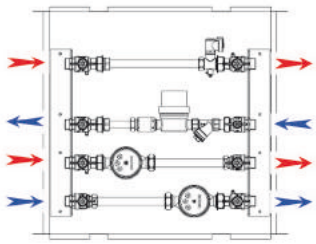
The IVR MULTIKLIMA Metering Unit provides a flexible accounting solution for managing apartments individually.
It is available in various configurations, allowing you to measure:

- the consumption of thermal energy during the winter
- consumption of energy for summer cooling
- **DHW** the consumption of domestic hot water
- **DCW** the consumption of domestic cold water
- **GW** the consumption of grey water

Compliance with Directive 2004/22/CE MID

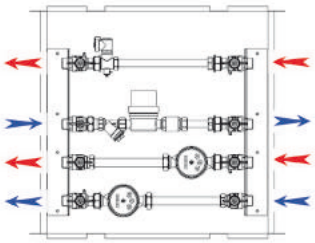
The version with heat and cooling meter does not require manual intervention to convert from heating to cooling and viceversa at the change of season.

CONNECTIONS	LAYOUT			
CENTR. HEATING	RIGHT	LEFT	BOTTOM	TOP
HOUSEHOLD	LEFT	RIGHT	TOP	BOTTOM



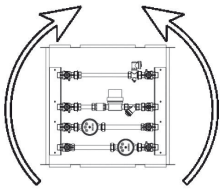
CENTRAL HEATING HOUSEHOLD

IVR MULTIKLIMA
Inlet form Left



HOUSEHOLD CENTRAL HEATING

IVR MULTIKLIMA
Inlet form Right



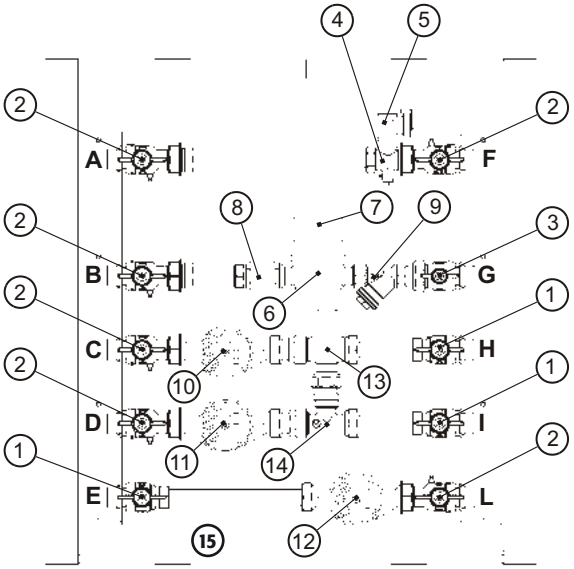
The sets can be installed vertically oriented either with flow from above or from below

The **IVR MULTIKLIMA** Units are available in these versions depending on the chosen options:

- Meter with direct reading, M-Bus data transmission or Radio data transmission
- with heat meters for heating or heating/cooling
- zone valves with 2-way or 3-way with bypass
- with or without balancing valve
- Anti-scald thermostatic mixing valve for DHW/DCW
- Optional Grey Water (service water) line

IVR MULTIKLIMA
Configuration tool is available online at www.ivrvalvole.it

IVR MULTIKLIMA 471



Features:
- Cabinet painted Steel. Colour RAL 9010
- Inlet and outlet connections to the Heating/Cooling circuit
- Inlet and outlet connections to the Domestic Hot Water line
- Inlet and outlet connections to the Domestic Cold Water line
- DHW/DCW Mixing valve avoids scalding
- Grey water line
- Maximum working pressure 10 bar
- Temperature range on heating/cooling circuit 5÷90°C
- Temperature range on Domestic water lines 3÷90°C

Nominal Flow:
- Qn 1.5 - 2.5 m³/h for heating and cooling
- Qn 2.5 m³/h for DHW, DCW, GW

Available data reading options:
- Direct visual display
- M-Bus data transmission
- Radio data transmission

N.	PART NAME
1	Ballvalve IVR 204 Dn20
2	Ballvalve IVR 205 Dn20
3	Ballvalve IVR 87 Dn20
4	Sensor connector IVR 429
5	Rotatable drain valve IVR 836 1/2"
6	Heating meter body
7	Heating meter
8	Check valve IVR 998L Dn20
9	Y strainer IVR 924
10	DHW meter
11	DCW meter
12	GW meter
13	Thermostatic mixing valve
14	T connection fitting IVR 430 Dn20
15	Steel cabinet IVR 470

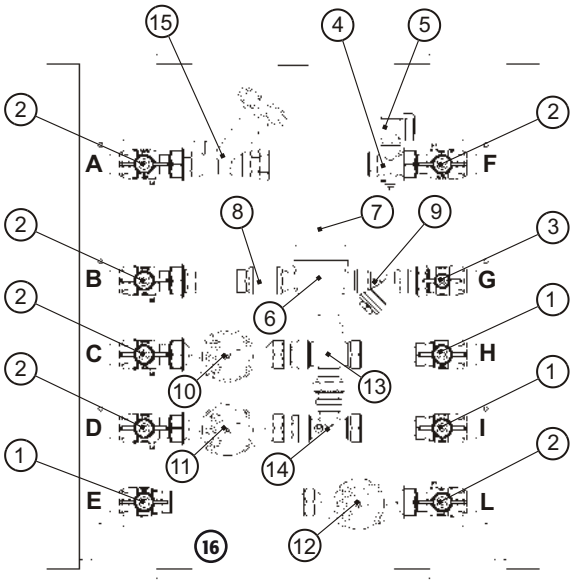
A = Supply from central heating
B = Return to central heating
C = DHW inlet
D = DCW inlet
E = Grey Water inlet
F = Supply to the heating circuit
G = Return from the heating circuit
H = Supply to the DHW line
I = Supply to the DCW line
L = Supply to the GW line

471 - 1 DHW/DCW mixing valve

471 - 2 Includes GW line

471 - 3 Standard version

IVR MULTIKLIMA 481



A = Supply from central heating
B = Return to central heating
C = DHW inlet
D = DCW inlet
E = Grey Water inlet
F = Supply to the heating circuit
G = Return from the heating circuit
H = Supply to the DHW line
I = Supply to the DCW line
L = Supply to the GW line

Features:
- Cabinet painted Steel. Colour RAL 9010
- Inlet and outlet connections to the Heating/Cooling circuit
- Balancing valve on Heating/Cooling Line
- Inlet and outlet connections to the Domestic Hot Water line
- Inlet and outlet connections to the Domestic Cold Water line
- DHW/DCW Mixing valve avoids scalding
- Grey water line
- Maximum working pressure 10 bar
- Temperature range on heating/cooling circuit 5÷90°C
- Temperature range on Domestic water lines 3÷90°C

Nominal Flow:
- Qn 1.5 - 2.5 m³/h for heating and cooling
- Qn 2.5 m³/h for DHW, DCW, GW

Available data reading options:
- Direct visual display
- M-Bus data transmission
- Radio data transmission

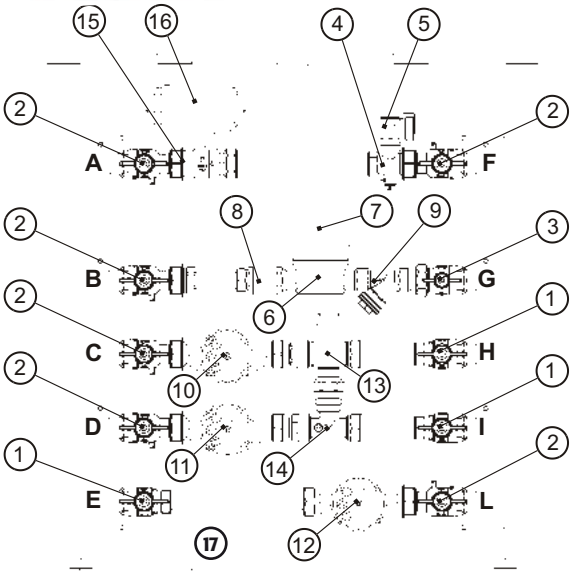
N.	PART NAME
1	Ballvalve IVR 204 Dn20
2	Ballvalve IVR 205 Dn20
3	Ballvalve IVR 87 Dn20
4	Sensor connector IVR 429
5	Rotatable drain valve IVR 836 1/2"
6	Heating meter body
7	Heating meter
8	Check valve IVR 998L Dn20
9	Y strainer IVR 924
10	DHW meter
11	DCW meter
12	GW meter
13	Thermostatic mixing valve
14	T connection fitting IVR 430 Dn20
15	Balancing valve IVR 340 Dn20
16	Steel cabinet IVR 470

481 - 1 DHW/DCW mixing valve

481 - 2 Includes GW line

481 - 3 Standard version

IVR MULTIKLIMA 472



A = Supply from central heating
B = Return to central heating
C = DHW inlet
D = DCW inlet
E = Grey Water inlet
F = Supply to the heating circuit
G = Return from the heating circuit
H = Supply to the DHW line
I = Supply to the DCW line
L = Supply to the GW line

Features:
- Cabinet painted Steel. Colour RAL 9010
- Inlet and outlet connections to the Heating/Cooling circuit
- 2 way ballvalve with electric actuator
- Inlet and outlet connections to the Domestic Hot Water line
- Inlet and outlet connections to the Domestic Cold Water line
- DHW/DCW Mixing valve avoids scalding
- Grey water line
- Maximum working pressure 10 bar
- Temperature range on heating/cooling circuit 5÷90°C
- Temperature range on Domestic water lines 3÷90°C

Nominal Flow:
- Qn 1.5 - 2.5 m³/h for heating and cooling
- Qn 2.5 m³/h for DHW, DCW, GW

Available data reading options:
- Direct visual display
- M-Bus data transmission
- Radio data transmission

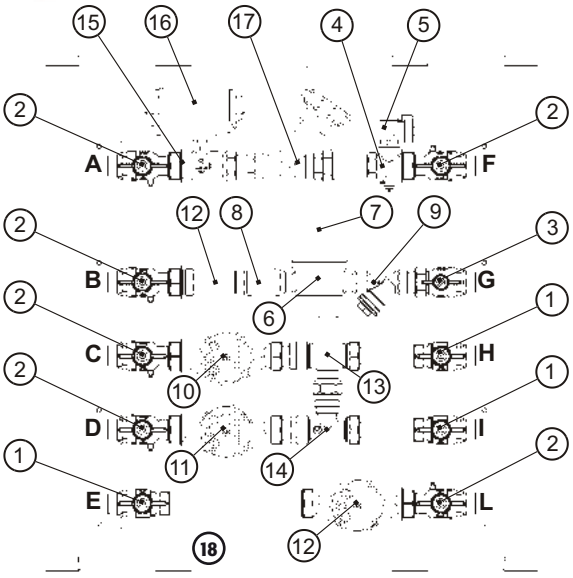
N.	PART NAME
1	Ballvalve IVR 204 Dn20
2	Ballvalve IVR 205 Dn20
3	Ballvalve IVR 87 Dn20
4	Sensor connector IVR 429
5	Rotatable drain valve IVR 836 1/2"
6	Heating meter body
7	Heating meter
8	Check valve IVR 998L Dn20
9	Y strainer IVR 924
10	DHW meter
11	DCW meter
12	GW meter
13	Thermostatic mixing valve
14	T connection fitting IVR 430 Dn20
15	2 way ballvalve IVR 222 Dn20
16	Electric actuator IVR 215
17	Steel cabinet IVR 470

472 - 1 DHW/DCW mixing valve

472 - 2 Includes GW line

472 - 3 Standard version

IVR MULTIKLIMA 482



A = Supply from central heating
B = Return to central heating
C = DHW inlet
D = DCW inlet
E = Grey Water inlet
F = Supply to the heating circuit
G = Return from the heating circuit
H = Supply to the DHW line
I = Supply to the DCW line
L = Supply to the GW line

Features:
- Cabinet painted Steel. Colour RAL 9010
- Inlet and outlet connections to the Heating/Cooling circuit
- 2 way ballvalve with electric actuator
- Balancing valve on Heating/Cooling Line
- Inlet and outlet connections to the Domestic Hot Water line
- Inlet and outlet connections to the Domestic Cold Water line
- DHW/DCW Mixing valve avoids scalding
- Grey water line
- Maximum working pressure 10 bar
- Temperature range on heating/cooling circuit 5÷90°C
- Temperature range on Domestic water lines 3÷90°C

Nominal Flow:
- Qn 1.5 - 2.5 m³/h for heating and cooling
- Qn 2.5 m³/h for DHW, DCW, GW

Available data reading options:
- Direct visual display
- M-Bus data transmission
- Radio data transmission

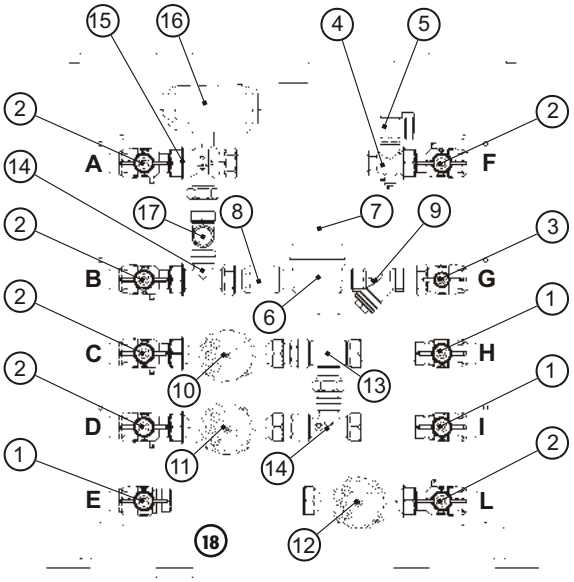
N.	PART NAME
1	Ballvalve IVR 204 Dn20
2	Ballvalve IVR 205 Dn20
3	Ballvalve IVR 87 Dn20
4	Sensor connector IVR 429
5	Rotatable drain valve IVR 836 1/2"
6	Heating meter body
7	Heating meter
8	Check valve IVR 998L Dn20
9	Y strainer IVR 924
10	DHW meter
11	DCW meter
12	GW meter
13	Thermostatic mixing valve
14	T connection fitting IVR 430 Dn20
15	2 way ballvalve IVR 222 Dn20
16	Electric actuator IVR 215
17	Balancing valve IVR 340 Dn20
18	Steel cabinet IVR 470

482 - 1 DHW/DCW mixing valve

482 - 2 Includes GW line

482 - 3 Standard version

IVR MULTIKLIMA 473



A = Supply from central heating
B = Return to central heating
C = DHW inlet
D = DCW inlet
E = Grey Water inlet
F = Supply to the heating circuit
G = Return from the heating circuit
H = Supply to the DHW line
I = Supply to the DCW line
L = Supply to the GW line

Features:
- Cabinet painted Steel. Colour RAL 9010
- Inlet and outlet connections to the Heating/Cooling circuit
- 3 way by-pass ballvalve with electric actuator and regulat. valve
- Inlet and outlet connections to the Domestic Hot Water line
- Inlet and outlet connections to the Domestic Cold Water line
- DHW/DCW Mixing valve avoids scalding
- Grey water line
- Maximum working pressure 10 bar
- Temperature range on heating/cooling circuit 5÷90°C
- Temperature range on Domestic water lines 3÷90°C

Nominal Flow:
- Qn 1.5 - 2.5 m³/h for heating and cooling
- Qn 2.5 m³/h for DHW, DCW, GW

Available data reading options:
- Direct visual display
- M-Bus data transmission
- Radio data transmission

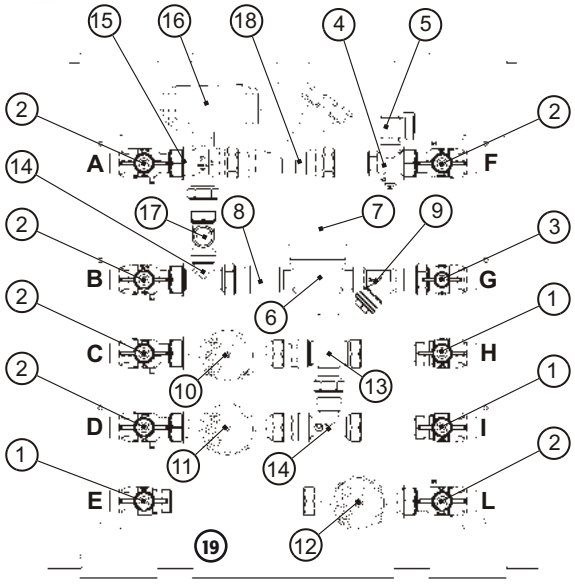
N.	PART NAME
1	Ballvalve IVR 204 Dn20
2	Ballvalve IVR 205 Dn20
3	Ballvalve IVR 87 Dn20
4	Sensor connector IVR 429
5	Rotatable drain valve IVR 836 1/2"
6	Heating meter body
7	Heating meter
8	Check valve IVR 998L Dn20
9	Y strainer IVR 924
10	DHW meter
11	DCW meter
12	GW meter
13	Thermostatic mixing valve
14	T connection fitting IVR 430 Dn20
15	2 way ballvalve IVR 222 Dn20
16	Electric actuator IVR 215
17	Flow regulating valve
18	Steel cabinet IVR 470

473 - 1 DHW/DCW mixing valve

473 - 2 Includes GW line

473 - 3 Standard version

IVR MULTIKLIMA 483



A = Supply from central heating
B = Return to central heating
C = DHW inlet
D = DCW inlet
E = Grey Water inlet
F = Supply to the heating circuit
G = Return from the heating circuit
H = Supply to the DHW line
I = Supply to the DCW line
L = Supply to the GW line

Features:
- Cabinet painted Steel. Colour RAL 9010
- Inlet and outlet connections to the Heating/Cooling circuit
- 3 way by pass ballvalve with electric actuator and regulat. valve
- Balancing valve on Heating/Cooling Line
- Inlet and outlet connections to the Domestic Hot Water line
- Inlet and outlet connections to the Domestic Cold Water line
- DHW/DCW Mixing valve avoids scalding
- Grey water line
- Maximum working pressure 10 bar
- Temperature range on heating/cooling circuit 5÷90°C
- Temperature range on Domestic water lines 3÷90°C

Nominal Flow:
- Qn 1.5 - 2.5 m³/h for heating and cooling
- Qn 2.5 m³/h for DHW, DCW, GW

Available data reading options:
- Direct visual display
- M-Bus data transmission
- Radio data transmission

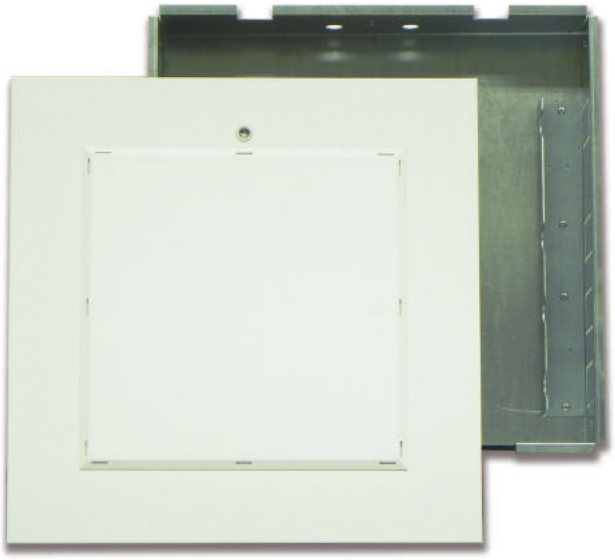
N.	PART NAME
1	Ballvalve IVR 204 Dn20
2	Ballvalve IVR 205 Dn20
3	Ballvalve IVR 87 Dn20
4	Sensor connector IVR 429
5	Rotatable drain valve IVR 836 1/2"
6	Heating meter body
7	Heating meter
8	Check valve IVR 998L Dn20
9	Y strainer IVR 924
10	DHW meter
11	DCW meter
12	GW meter
13	Thermostatic mixing valve
14	T connection fitting IVR 430 Dn20
15	2 way ballvalve IVR 222 Dn20
16	Electric actuator IVR 215
17	Flow regulating valve
18	Balancing valve IVR 340 Dn20
19	Steel cabinet IVR 470

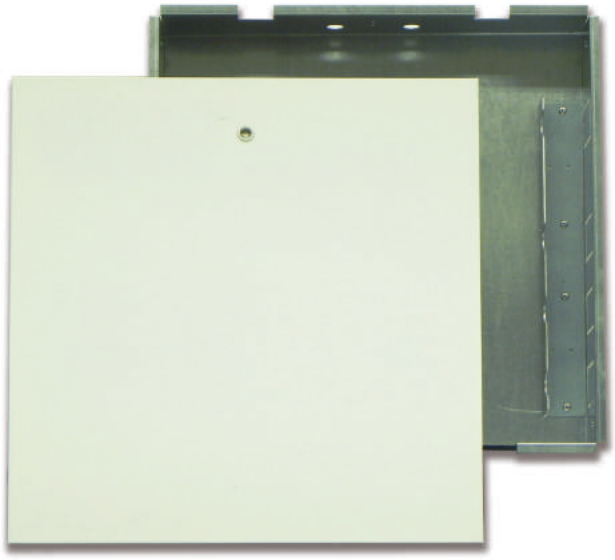
483 - 1 DHW/DCW mixing valve

483 - 2 Includes GW line

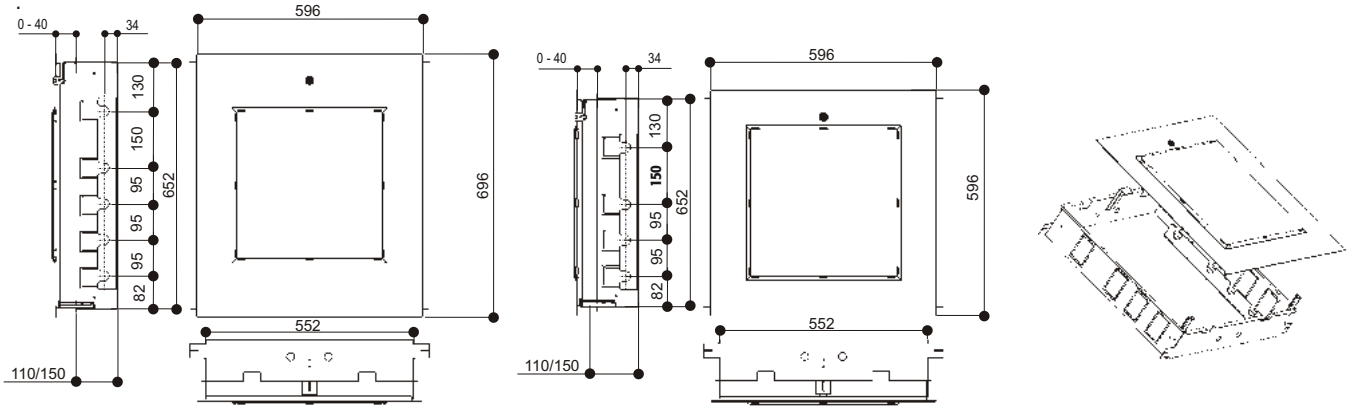
483 - 3 Standard version

CABINET FOR MULTIKLIMA UNITS IVR 470

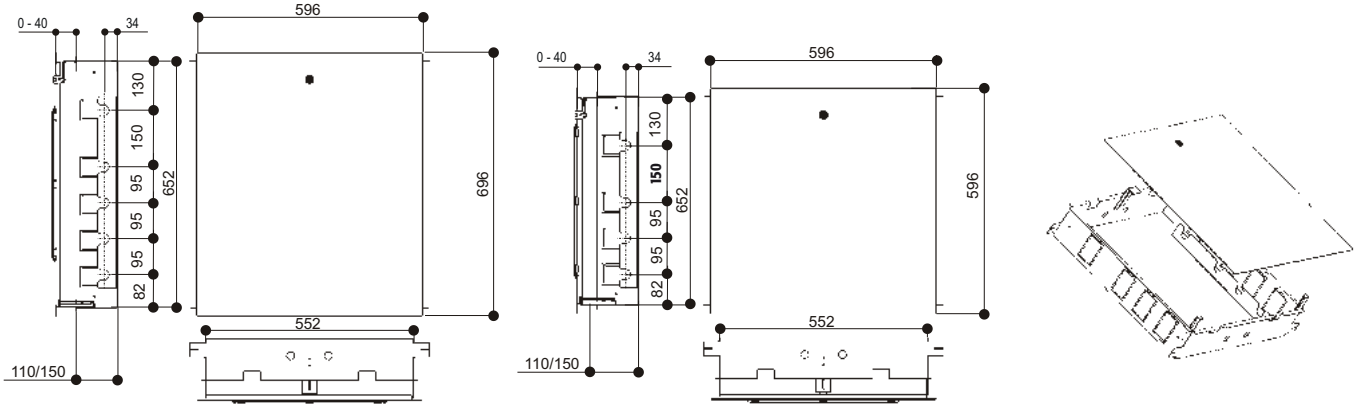




Cabinet for IVR MULTIKLIMA metering units with radio data transmission. The frame is made in plated steel, the depth of the cabinet can be extended from 110mm to 150mm. The cover is made of a steel frame and an ABS lockable board. The body of the cabinet is made of galvanized steel, it includes preassembled profiles for the circuit connections. The cabinet is designed for in-wall installation.

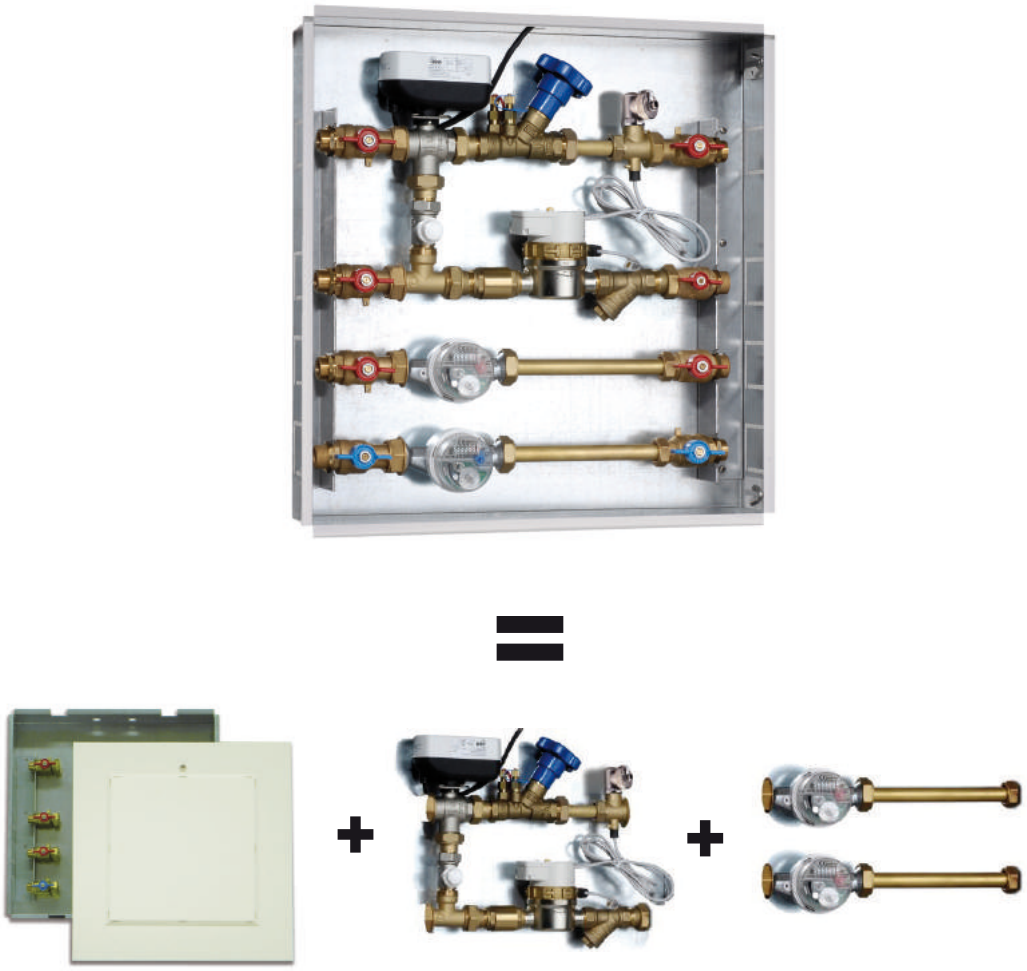


Cabinet for IVR MULTIKLIMA metering units with direct or M-Bus data transmission. The frame is made in plated steel, the depth of the cabinet can be extended from 110mm to 150mm. The cover is made of a lockable steel board. The body of the cabinet is made of galvanized steel, it includes preassembled profiles for the circuit connections. The cabinet is designed for in-wall installation.



SUPPLY OPTIONS FOR IVR MULTIKLIMA METERING UNITS

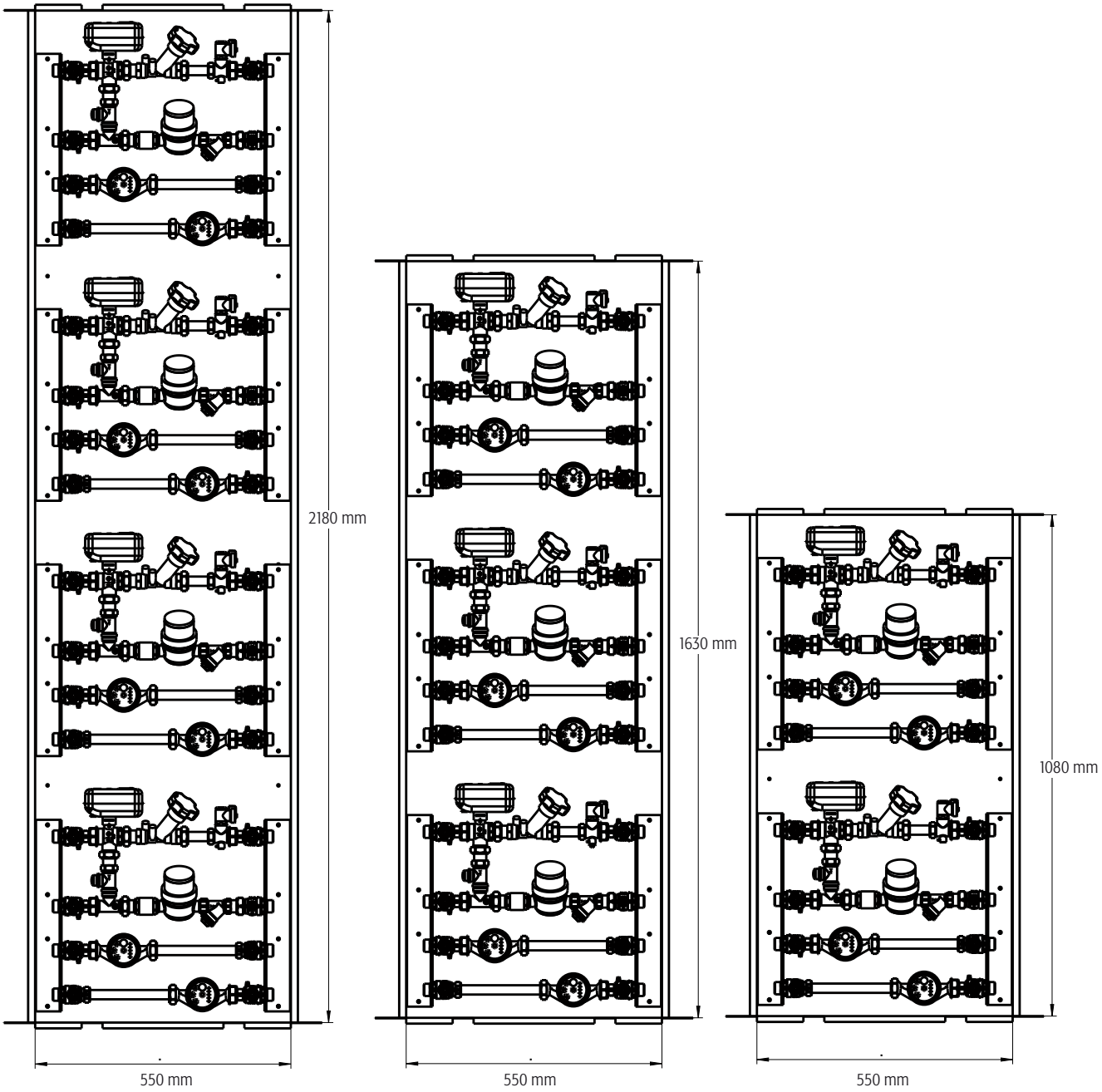
For all versions of IVR MULTIKLIMA Metering units it is possible to order the cabinets disassembled as well as each hydraulic line and accessories separately.



It is also possible to order the Units without Meters, in place of which there will be connection pipes allowing to perform hydraulic tests, the meters can be retrofitted in a second moment.

N.B.: Also in this version it is possible to order the cabinets, the hydraulic lines and the accessories separately.

MULTI-DWELLING SOLUTIONS

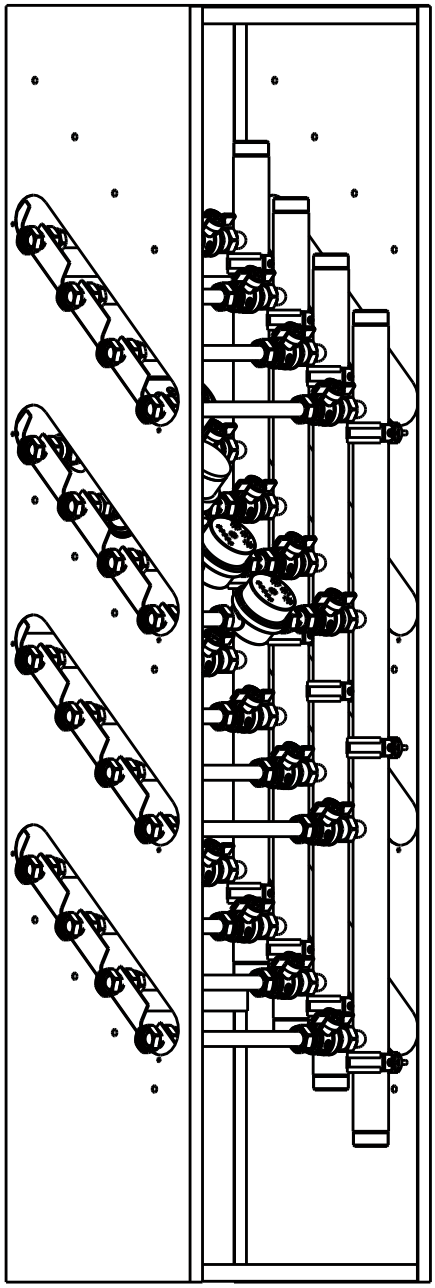


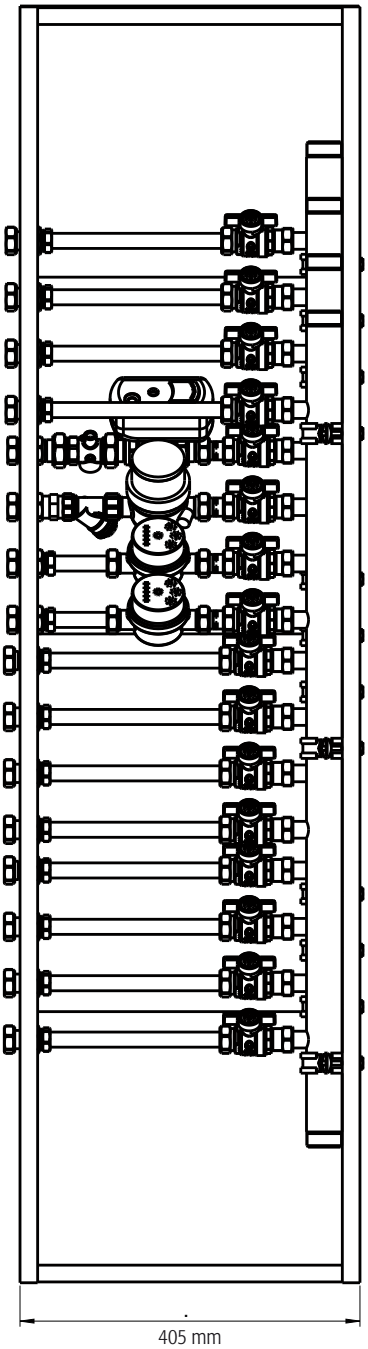
MULTI-DWELLING SOLUTIONS

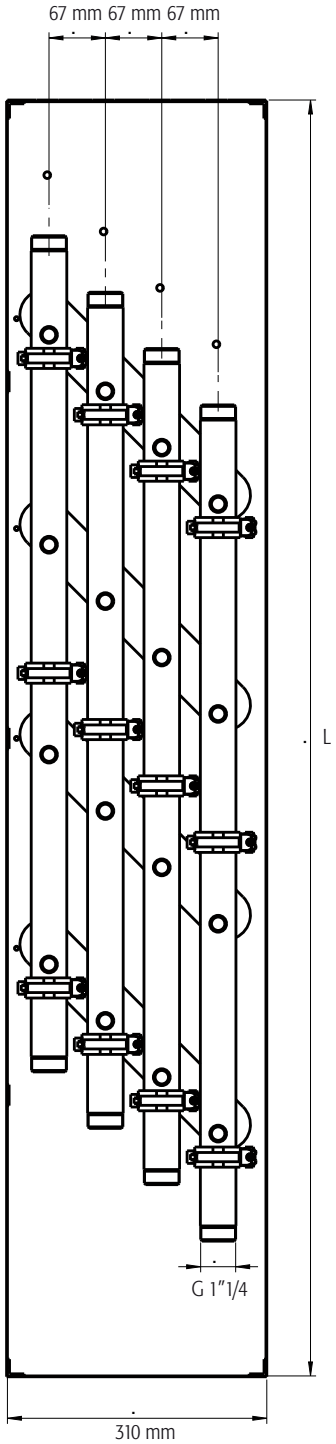
For multi-dwelling or multi-storey buildings and for the upgrading of heating installation in existing buildings, IVR offers specific solutions to optimize the installation of IVR MULTIKLIMA Units.

In detail, the IVR MULTIKLIMA units can be supplied as listed:
- Clamps for fixing the hydraulic line without cabinets
- In cabinets for 2, 3 or 4 dwellings
- In pre-assembled cabinets complete with manifolds connecting 2, 3 or 4 dwellings

N° MK	L
2	1020 mm
3	1270 mm
4	1520 mm

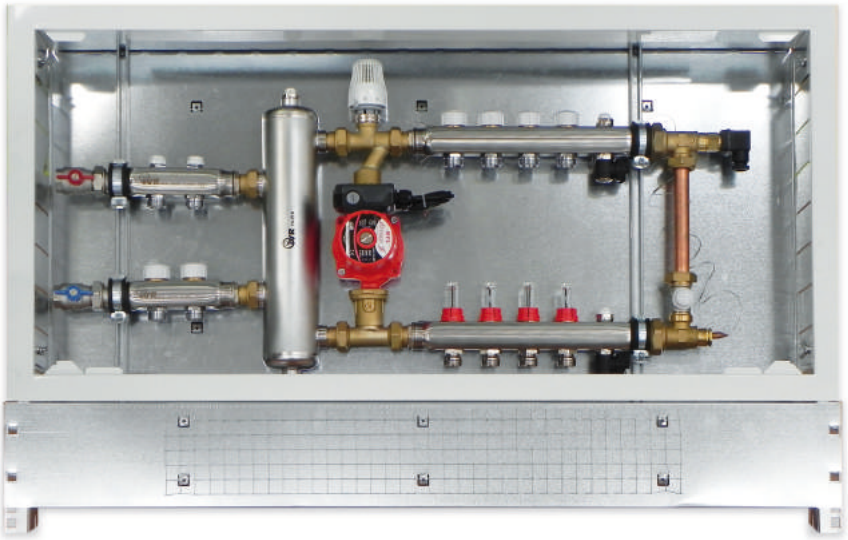






INTRODUCTION

IVR MK DISTRIBUTION Units allow you to connect single dwellings to the central Heating system. These MK Units can be designed to work with high temperature (radiators, towel rails), warm temperature obtained by a mixing process, suitable for radiant panels, and the combination of both high and warm temperature simultaneously. The AISI 304 Stainless steel distribution manifolds can supply all kinds of radiators, fan coils, and radiant panels for floor, wall and ceiling.



The distribution at warm temperature is available in three variants:

- Mixing set with fixed point thermostatic head IVR 711
- Mixing set fixed point with thermostatic mixer IVR 712
- Mixing set modulating electric actuator IVR 713

The IVR 714 by-pass set with regulating valve and safety thermostat is always supplied in combination with all mixing sets.

IVR 711

IVR 712

IVR 713

IVR 714

Salmson * Circulation pumps are provided in 2 versions:

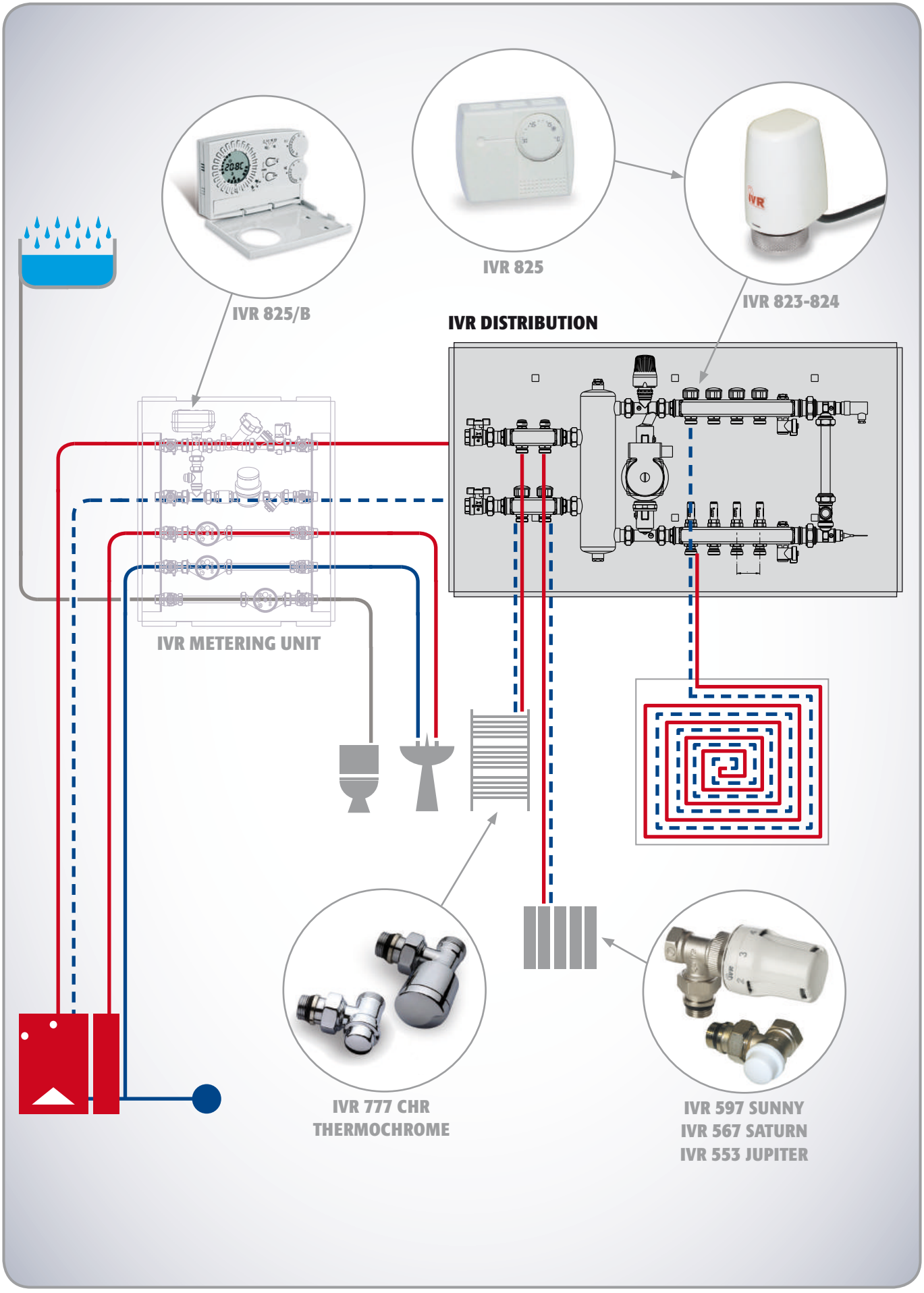
- 3-speed pump
- electronic pump with variable A Rated compliant with ErP 2009/125/EC Regualtion

* Other brands and models are available on request

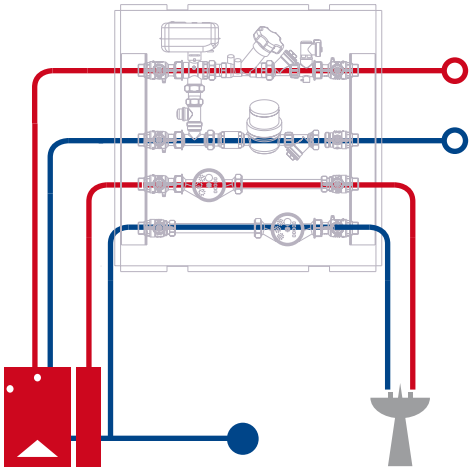
IVR MULTIKLIMA
Configuration tool is available online at www.ivrvalvole.it

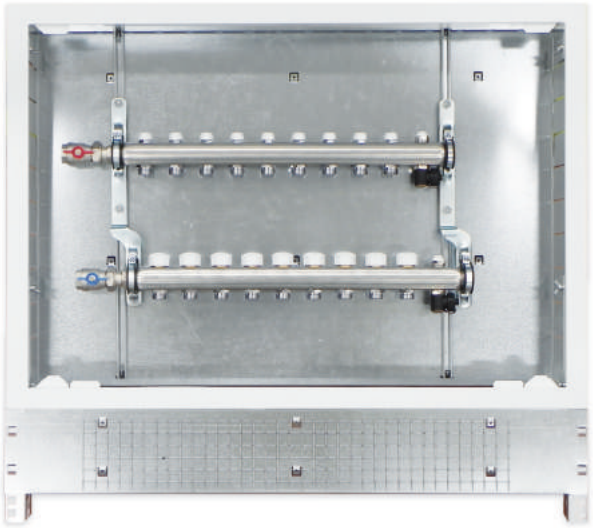
In all the mixing sets as an option a 130mm connection pipe can be provided and a pump can be retrofitted subsequently.

IVR MULTIKLIMA FUNCTIONAL LAYOUT



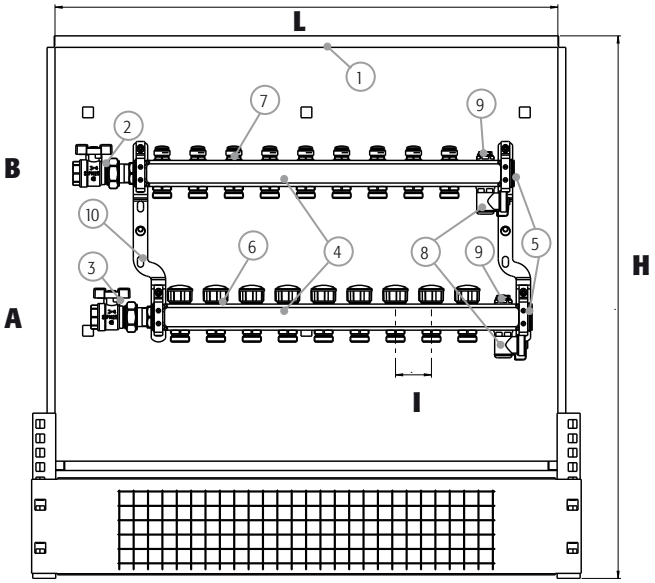
IVR MULTIKLIMA 509/A - High temperature or warm water





The units are available with both Left and Right orientation

Distribution cabinet includes AISI 304 stainless steel manifolds 1" x ¾" Ek or 1" ¼" x ¾" Ek*.
Preassembled in RAL9010 plated steel cabinet, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), micrometric regulating lockshield, drain valve, air vent, interception ballvalves, plugs and brackets..



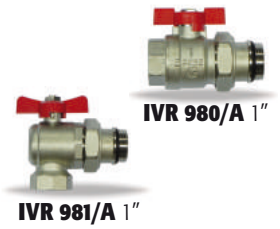
N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 980/A 1"
3	Ballvalve IVR 980/B 1"
4	Manifold IVR 803 1" - 1"1/4
5	Plugs IVR 899 1" - 1"1/4
6	Themostatic valve
7	Regulating lockshield
8	Rotatable drain valve IVR 836 1/2"
9	Air vent IVR 838 1/2"
10	Brackets IVR 821

A = Supply **I** = 50 mm
B = Return **H** = 630 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	400	500	500	600	600	700	700	850	850	850	1000

Cabinet depth 110 mm

The 509/A Distribution unit can be supplied in a disassembled form by ordering separate components and accessories.

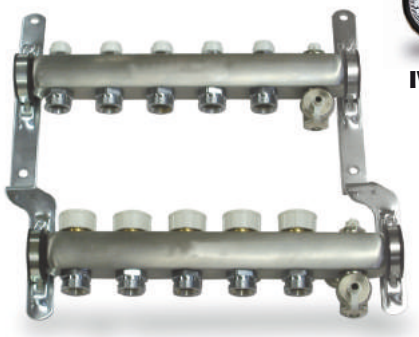


IVR 980/A 1"

IVR 981/A 1"

IVR 980/B 1"

IVR 981/B 1"



IVR 803
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 897

IVR 825

IVR 823-824

IVR 594

IVR 847

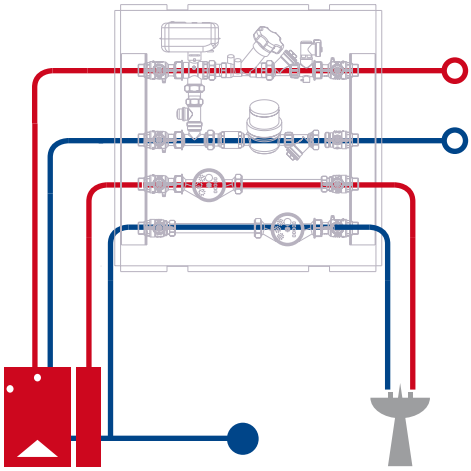
IVR 899
1" - 1"1/4 *

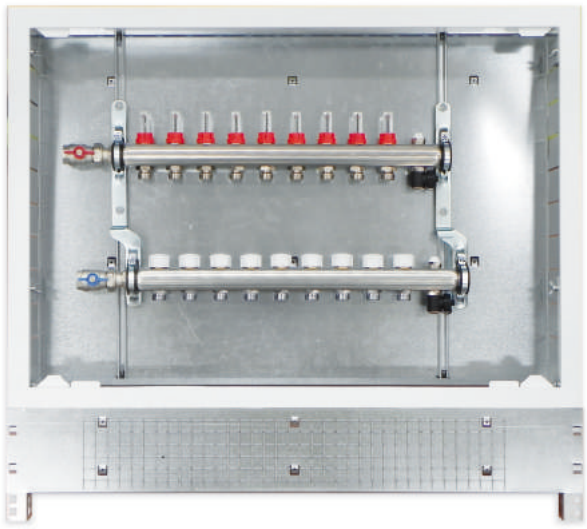
IVR 581
3/4" Eurokonus

IVR 830

* soon available

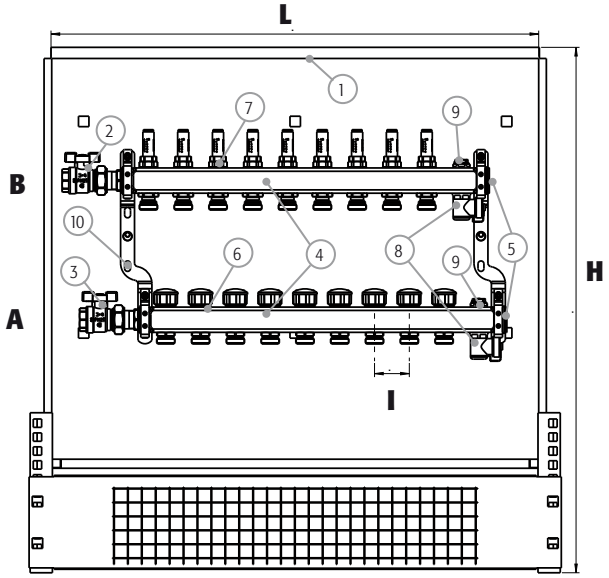
IVR MULTIKLIMA 509/B - High temperature or warm water





The units are available with both Left and Right orientation

Distribution cabinet includes AISI 304 stainless steel manifolds 1" x ¾" Ek or 1" ¼" x ¾" Ek*.
Preassembled in RAL9010 plated steel cabinet, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves, plugs and brackets.



N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 980/A 1"
3	Ballvalve IVR 980/B 1"
4	Manifold IVR 803 1" - 1"1/4
5	Plugs IVR 899 1" - 1"1/4
6	Themostatic valve
7	Flow meter IVR 829
8	Rotatable drain valve IVR 836 1/2"
9	Air vent IVR 838 1/2"
10	Brackets IVR 821

A = Supply **B =** Return **I** = 50 mm **H** = 630 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	400	500	500	600	600	700	700	850	850	850	1000

Cabinet depth 110 mm

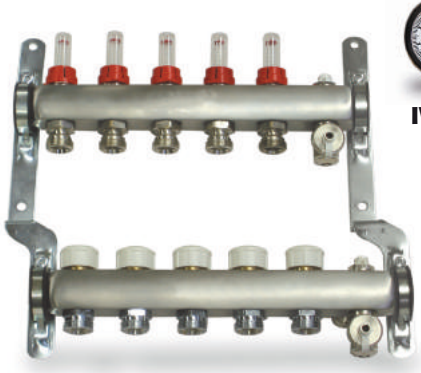
The 509/B Distribution unit can be supplied in a disassembled form by ordering separate components and accessories.

IVR 980/A 1"

IVR 981/A 1"

IVR 980/B 1"

IVR 981/B 1"



IVR 802
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 897

IVR 825

IVR 823-824

IVR 594

IVR 847

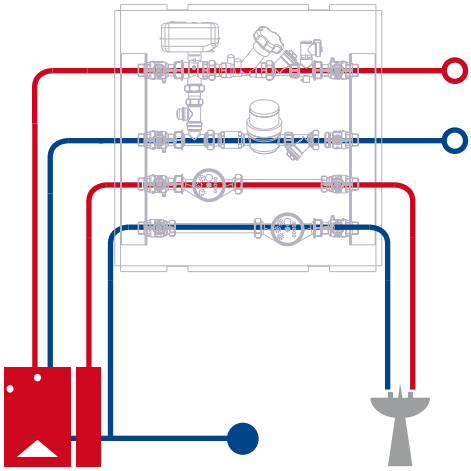
IVR 899
1" - 1"1/4 *

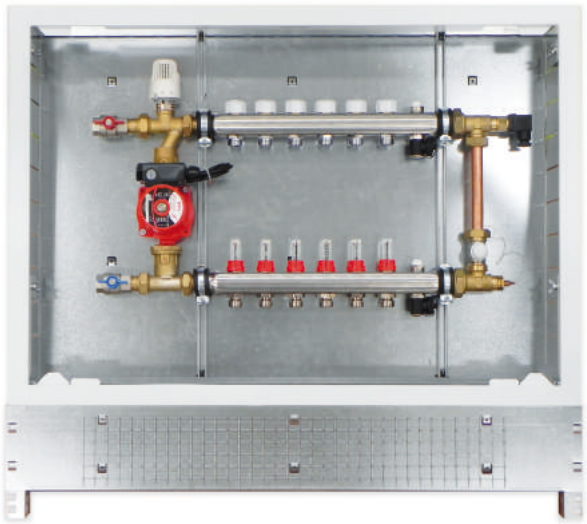
IVR 581
3/4" Eurokonus

IVR 830

* soon available

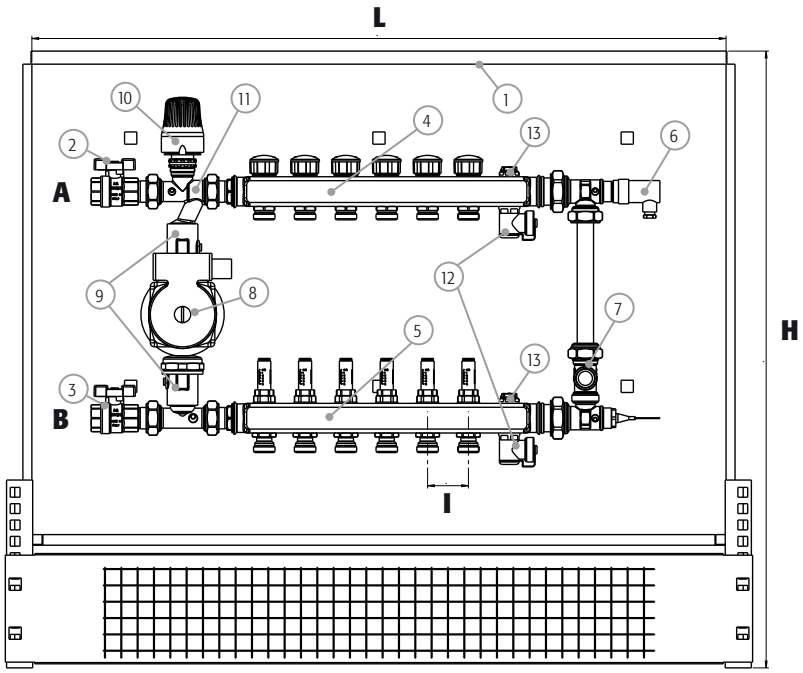
IVR MULTIKLIMA 511 - Warm (mixed) water for radiant panels





The units are available with both Left and Right orientation

Warm water Distribution cabinet for radiant panels, includes AISI 304 stainless steel manifolds 1" x ¾" Ek or 1" ¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; fixed point mixing set with thermostatic head, by-pass set with safety thermostat and sensor connection.



N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 964/A 1"
3	Ballvalve IVR 964/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Thermostatic head IVR 591
11	Mixing valve IVR 583
12	Rotatable drain valve IVR 836 1/2"
13	Air vent IVR 838 1/2"

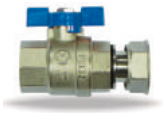
A = Supply **I** = 50 mm
B = Return **H** =750 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	600	700	700	850	850	850	1000	1000	1000	1200	1200

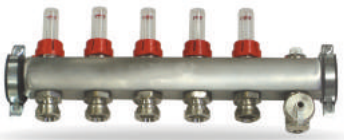
Cabinet depth 150 mm

IVR 964/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *



IVR 964/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 711

IVR 714

IVR 594

IVR 825

IVR 823-824

IVR 847

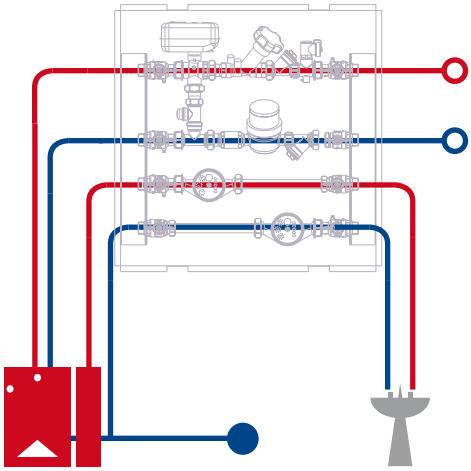
IVR 897

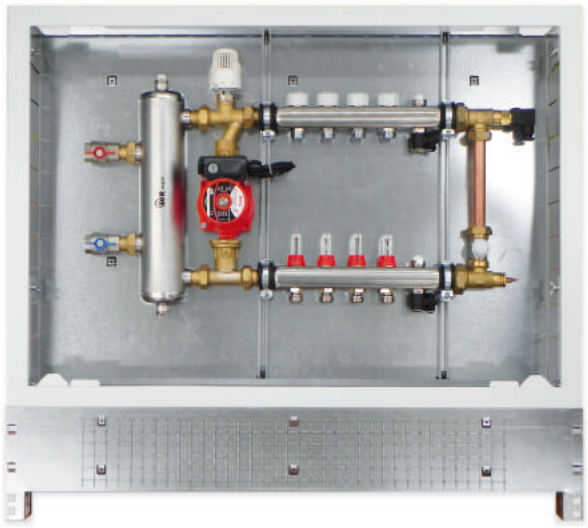
IVR 581
3/4" Eurokonus

IVR 830

* soon available

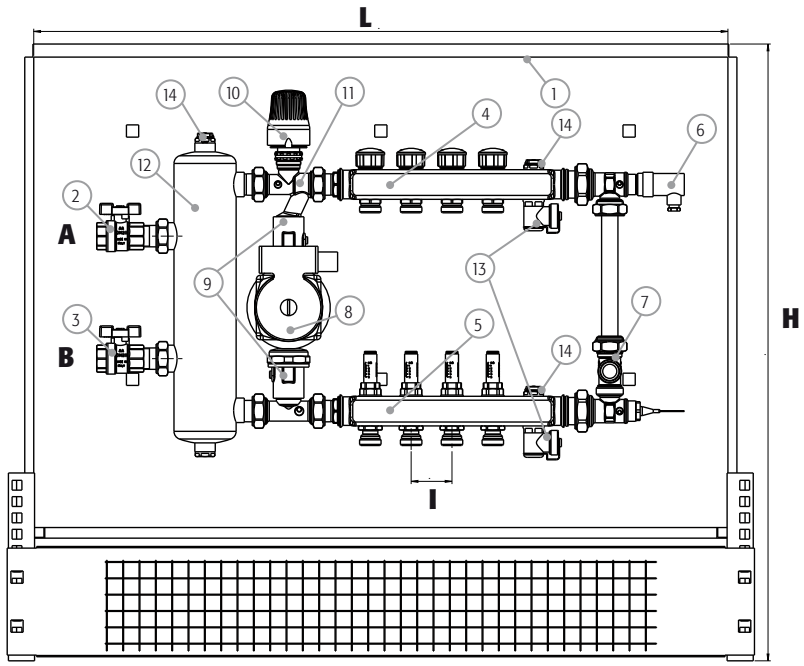
IVR MULTIKLIMA 512 - Warm (mixed) water for radiant panels with hydraulic separator





The units are available with both Left and Right orientation

Warm water Distribution cabinet for radiant panels, includes AISI 304 stainless steel manifolds 1" x ¾" Ek or 1" ¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; fixed point mixing set with thermostatic head, by-pass set with safety thermostat and sensor connection; hydraulic separator.



N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 964/A 1"
3	Ballvalve IVR 964/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Thermostatic head IVR 591
11	Mixing valve IVR 583
12	Hydraulic Separator IVR 330
13	Rotatable drain valve IVR 836 1/2"
14	Air vent IVR 838 1/2"

A = Supply
B = Return
I = 50mm
H = 750 mm

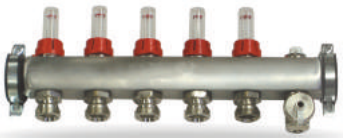
Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	850	850	850	1000	1000	1000	1200	1200	1200	1200	1300

Cabinet depth 150 mm

IVR 964/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 964/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 330

IVR 711

IVR 714

IVR 594

IVR 825

IVR 823-824

IVR 847

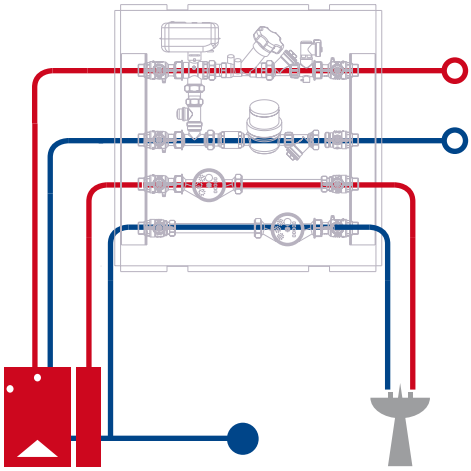
IVR 897

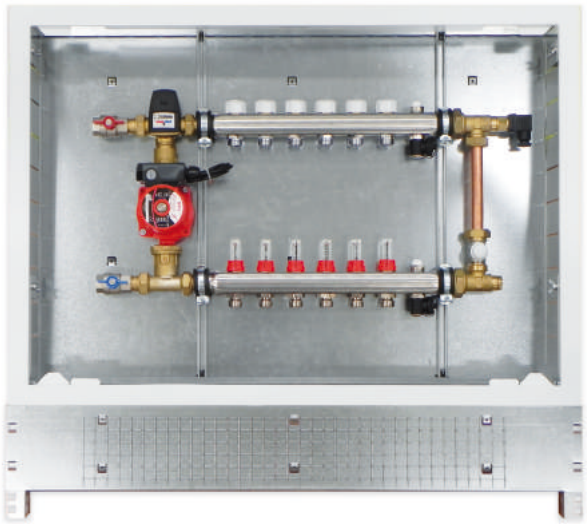
IVR 581
3/4" Eurokonus

IVR 830

* soon available

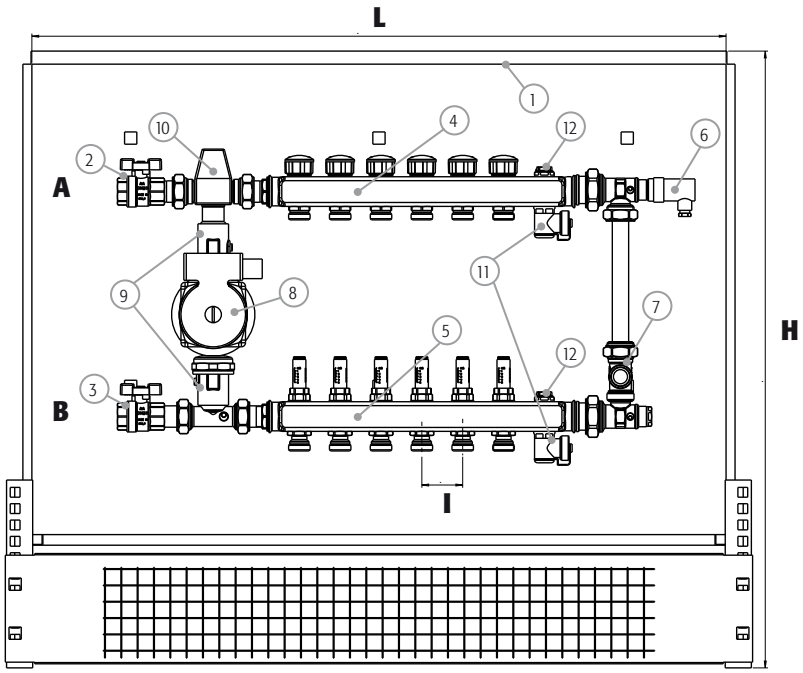
IVR MULTIKLIMA 513 - Warm (mixed) water for radiant panels





The units are available with both Left and Right orientation

Warm water Distribution cabinet for radiant panels, includes AISI 304 stainless steel manifolds 1" x ¾" Ek or 1" ¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; fixed point mixing set with thermostatic mixing valve, by-pass set with safety thermostat and sensor connection.



N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 964/A 1"
3	Ballvalve IVR 964/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Thermostatic mixing valve
11	Rotatable drain valve IVR 836 1/2"
12	Air vent IVR 838 1/2"

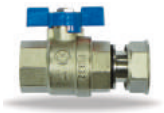
A = Supply
B = Return
I = 50 mm
H = 650 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	600	700	700	850	850	850	1000	1000	1000	1200	1200

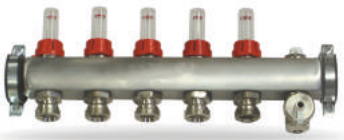
Cabinet depth 150 mm

IVR 964/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *



IVR 964/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 712

IVR 714

IVR 594

IVR 825

IVR 823-824

IVR 847

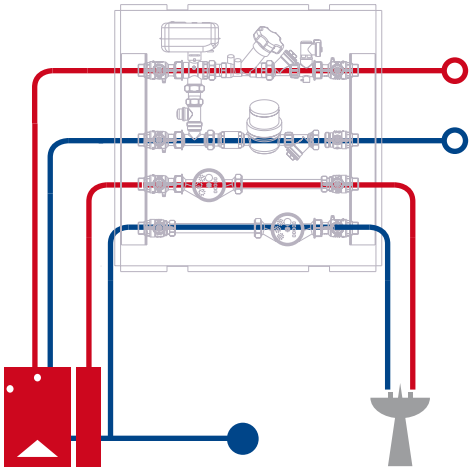
IVR 897

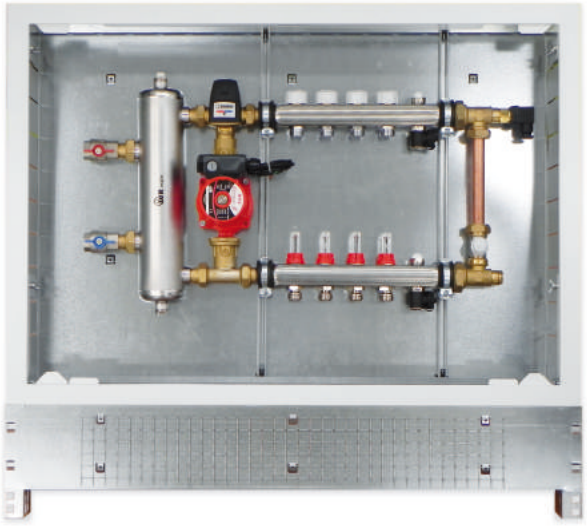
IVR 581
3/4" Eurokonus

IVR 830

* soon available

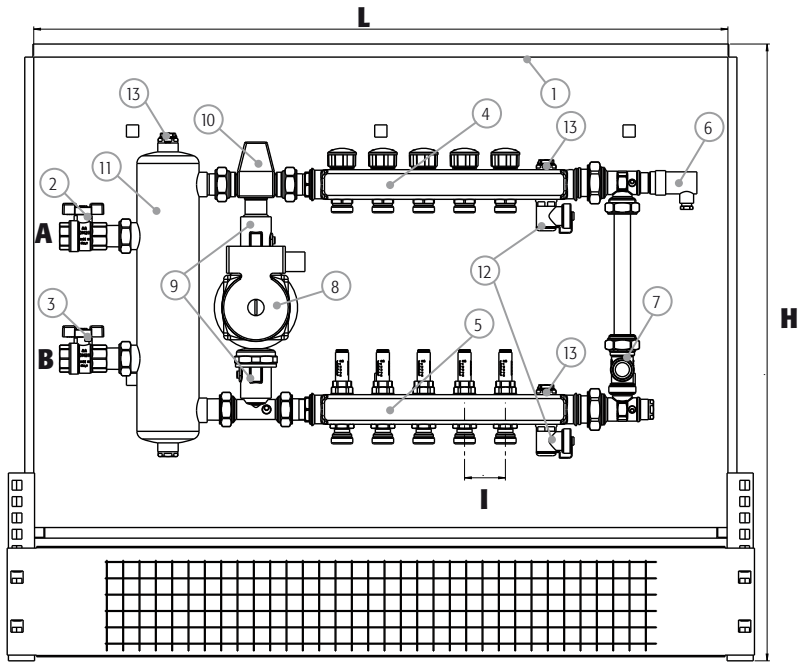
IVR MULTIKLIMA 514 - Warm (mixed) water for radiant panels with hydraulic separator





The units are available with both Left and Right orientation

Warm water Distribution cabinet for radiant panels, includes AISI 304 stainless steel manifolds 1" x ¾" Ek or 1" ¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; fixed point mixing set with thermostatic mixing valve, by-pass set with safety thermostat and sensor connection; stainless steel hydraulic separator.



N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 964/A 1"
3	Ballvalve IVR 964/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Thermostatic mixing valve
11	Hydraulic Separator IVR 330
12	Rotatable drain valve IVR 836 1/2"
13	Air vent IVR 838 1/2"

A = Supply
B = Return
I = 50 mm
H = 650 mm

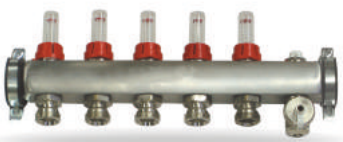
Ways	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
L (mm)	850	850	850	1000	1000	1000	1200	1200	1200	1200	1300

Cabinet depth 150 mm

IVR 964/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 964/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 330

IVR 712

IVR 714

IVR 594

IVR 825

IVR 823-824

IVR 847

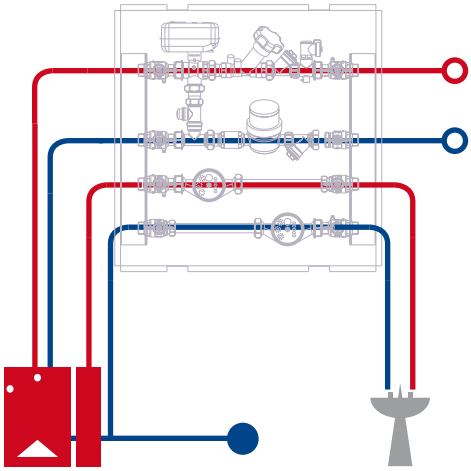
IVR 897

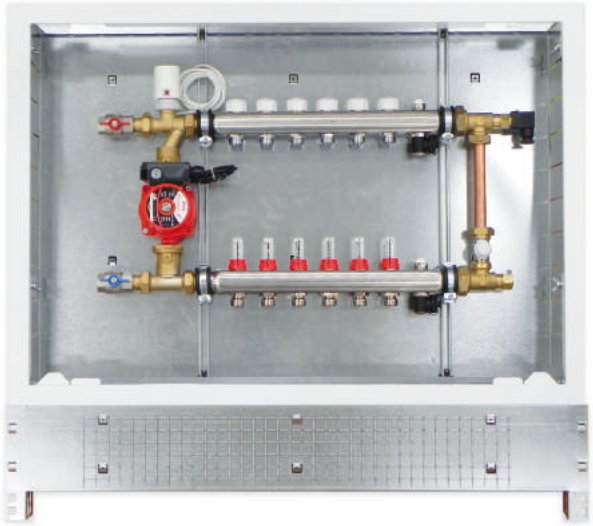
IVR 581
3/4" Eurokonus

IVR 830

* soon available

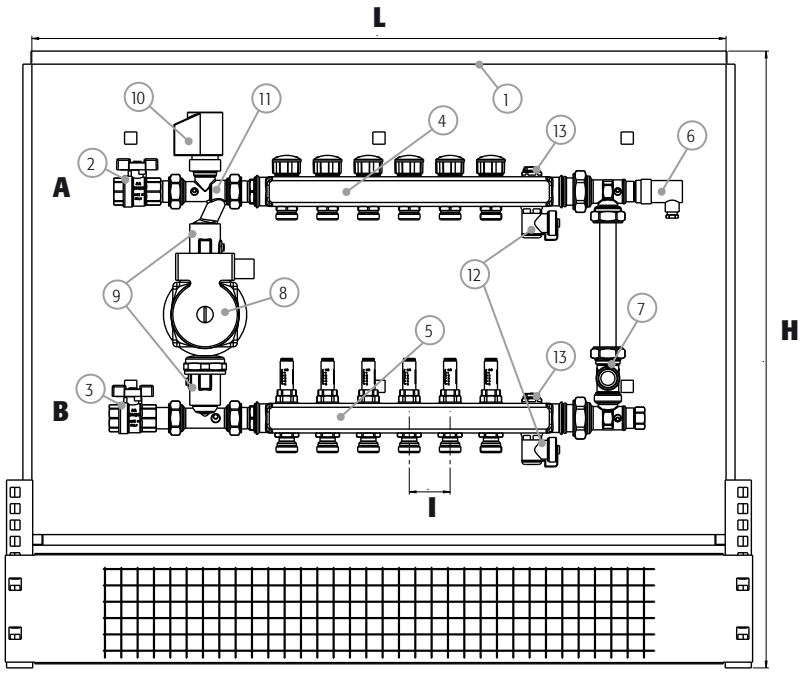
IVR MULTIKLIMA 515 - Warm (mixed) water for radiant panels





The units are available with both Left and Right orientation

Warm water Distribution cabinet for radiant panels, includes AISI 304 stainless steel manifolds 1" x ¾" Ek or 1" ¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; dynamic mixing set with electrothermal actuator operating the mixing valve, by-pass set with safety thermostat and sensor connection.



N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 964/A 1"
3	Ballvalve IVR 964/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Electrothermal actuator
11	Mixing valve IVR 583
12	Rotatable drain valve IVR 836 1/2"
13	Air vent IVR 838 1/2"

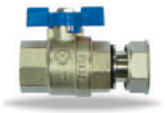
A = Supply
B = Return
I = 50 mm
H = 650 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	600	700	700	850	850	850	1000	1000	1000	1200	1200

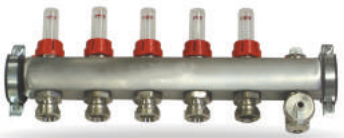
Cabinet depth 150 mm

IVR 964/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *



IVR 964/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 713

IVR 714

IVR 594

IVR 825

IVR 823-824

IVR 847

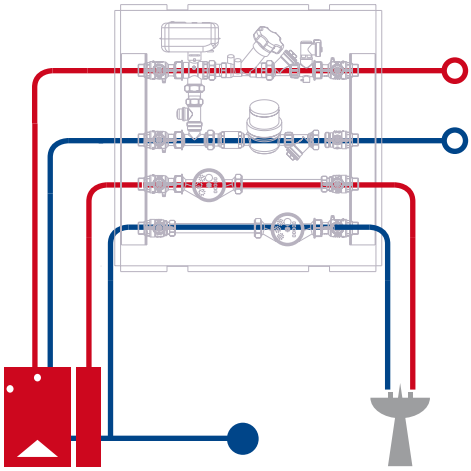
IVR 897

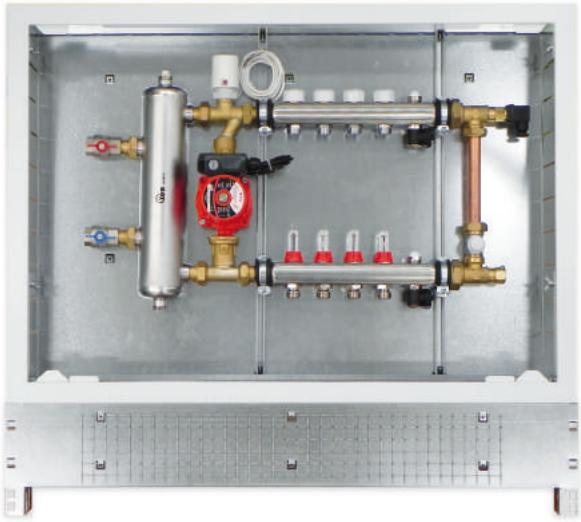
IVR 581
3/4" Eurokonus

IVR 830

* soon available

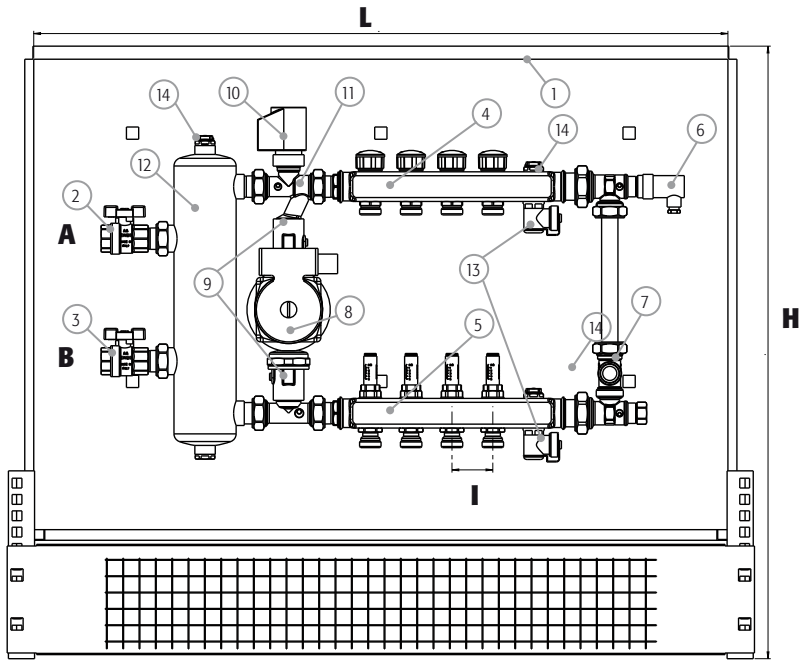
IVR MULTIKLIMA 516 - Warm (mixed) water for radiant panels with hydraulic separator





The units are available with both Left and Right orientation

Warm water Distribution cabinet for radiant panels, includes AISI 304 stainless steel manifolds 1" x ¾" Ek or 1" ¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; dynamic mixing set with electrothermal actuator operating the mixing valve, by-pass set with safety thermostat and sensor connection; hydraulic separator.



N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 964/A 1"
3	Ballvalve IVR 964/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Electrothermal actuator
11	Mixing valve IVR 583
12	Hydraulic Separator IVR 330
13	Rotatable drain valve IVR 836 1/2"
14	Air vent IVR 838 1/2"

A = Supply **I** = 50 mm
B = Return **H** = 650 mm

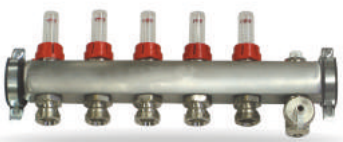
Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	850	850	850	1000	1000	1000	1200	1200	1200	1200	1300

Cabinet depth 150 mm

IVR 964/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 964/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 330

IVR 713

IVR 714

IVR 594

IVR 825

IVR 823-824

IVR 847

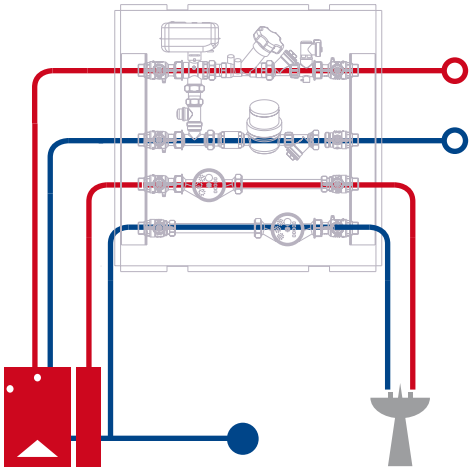
IVR 897

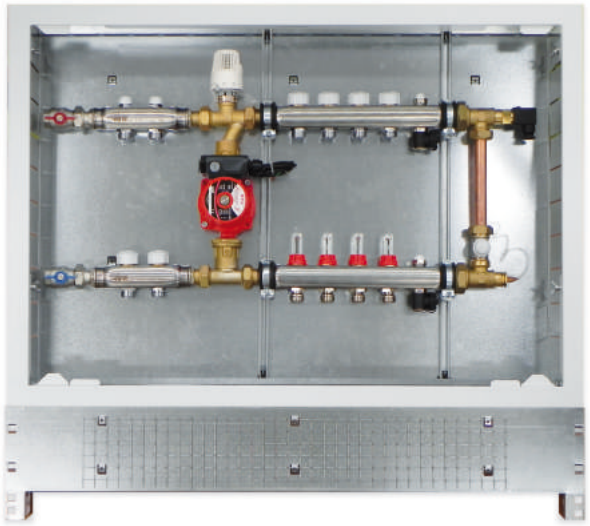
IVR 581
3/4" Eurokonus

IVR 830

* soon available

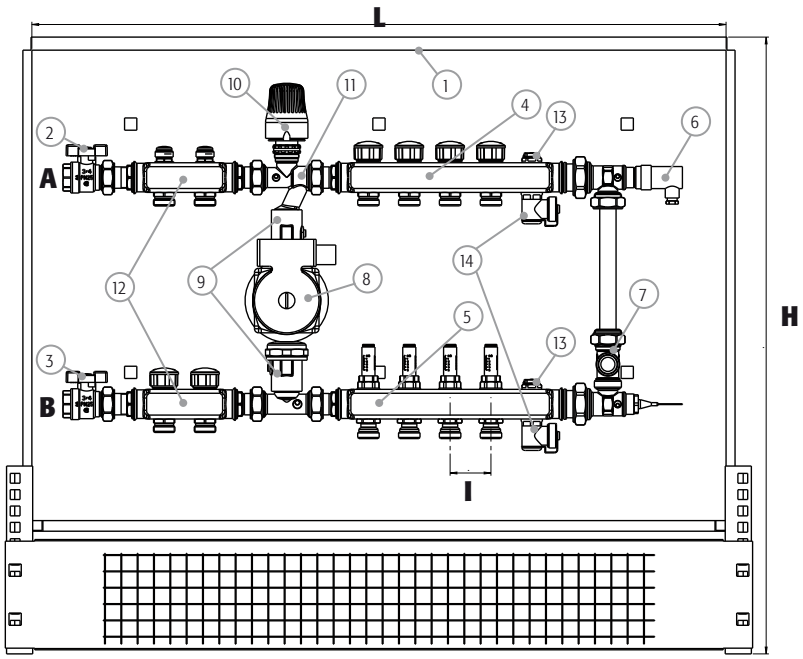
IVR MULTIKLIMA 521 - Combined high temperature and warm (mixed) water





The units are available with both Left and Right orientation

Combined high temperature and warm (mixed) waater distribution cabinet, includes AISI 304 SS manifolds 1" x ¾" Ek or 1"¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, high temp. SS manifolds with 2 connections, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; fixed point mixing set with thermostatic head, by-pass set with safety thermostat and sensor connection.

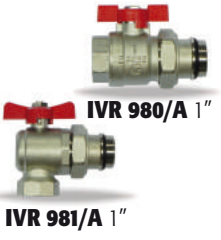


N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 980/A 1"
3	Ballvalve IVR 980/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Thermostatic head IVR 591
11	Mixing valve IVR 583
12	Twin set high temp. manifolds IVR 701 1"
13	Air vent IVR 838 1/2"
14	Rotatable drain valve IVR 836 1/2"

A = Supply
B = Return
I = 50 mm
H = 750 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	850	850	850	1000	1000	1000	1200	1200	1200	1200	1300

Cabinet depth 150 mm



IVR 980/A 1"

IVR 981/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

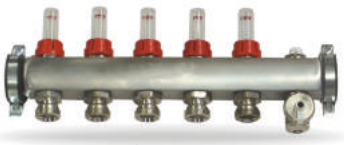
IVR 701 1"

IVR 825

IVR 823-824

IVR 980/B 1"

IVR 981/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 711

IVR 714

IVR 594

IVR 847

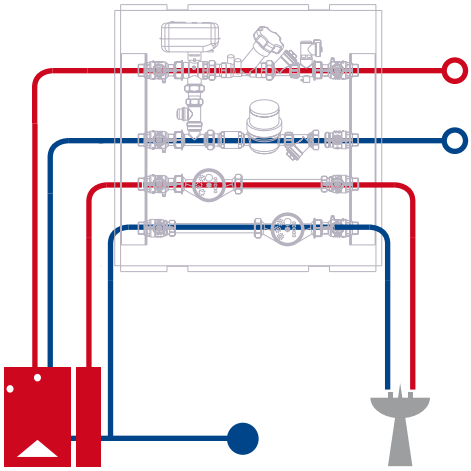
IVR 897

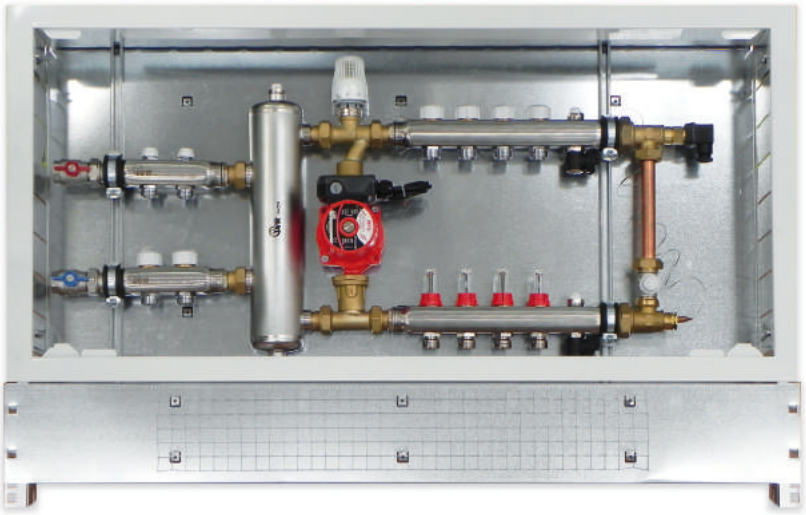
IVR 581
3/4" Eurokonus

IVR 830

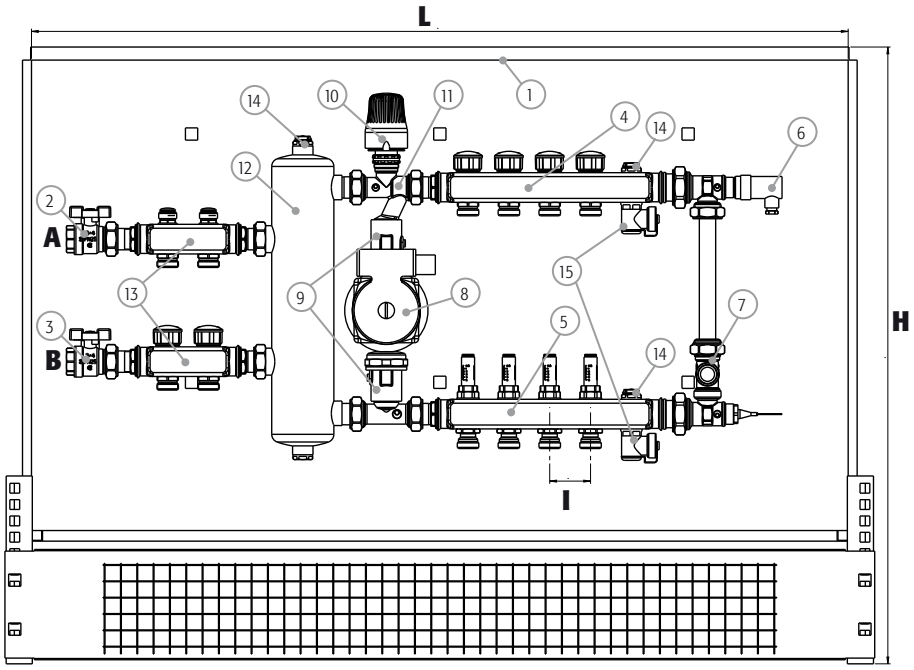
* soon available

IVR MULTIKLIMA 522 - Combined high temp. and warm (mixed) water with hydraulic separator





Combined high temperature and warm (mixed) water distribution cabinet, includes AISI 304 SS manifolds 1" x ¾" Ek or 1"¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, high temp. SS manifolds with 2 connections, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; fixed point mixing set with thermostatic head, by-pass set with safety thermostat and sensor connection; stainless steel hydraulic separator.



A = Supply **I** = 50 mm
B = Return **H** = 750 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1000	1000	1000	1200	1200	1200	1200	1300	1300	1400	1400

Cabinet depth 150 mm

N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 980/A 1"
3	Ballvalve IVR 980/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Thermostatic head IVR 591
11	Mixing valve IVR 583
12	Hydraulic Separator IVR 330
13	Twin set high temp. manifolds IVR 701 1"
14	Air vent IVR 838 1/2"
15	Rotatable drain valve IVR 836 1/2"

The units are available with both Left and Right orientation

IVR 980/A 1"

IVR 981/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 701 1"

IVR 825

IVR 823-824

IVR 980/B 1"

IVR 981/B 1"

IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 330

IVR 711

IVR 714

IVR 594

IVR 847

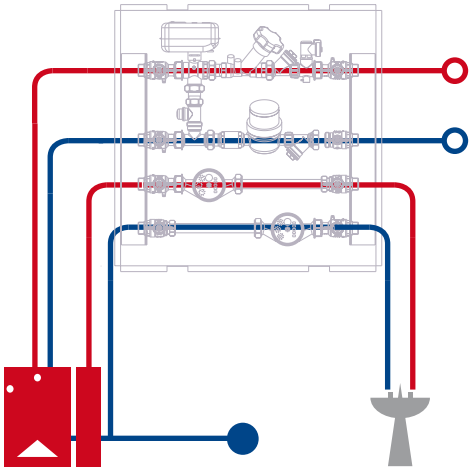
IVR 897

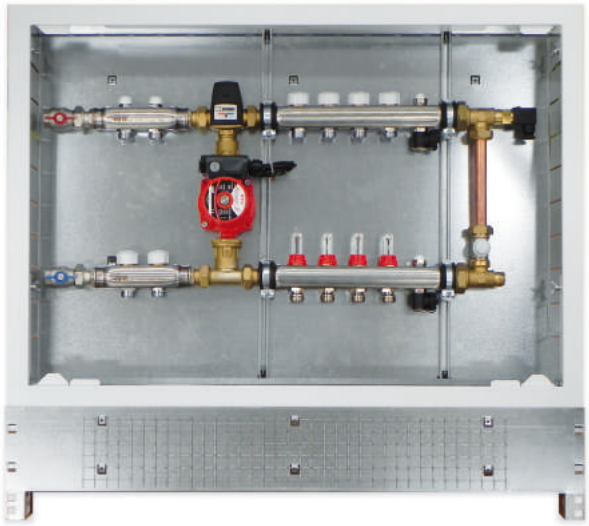
IVR 581
3/4" Eurokonus

IVR 830

* soon available

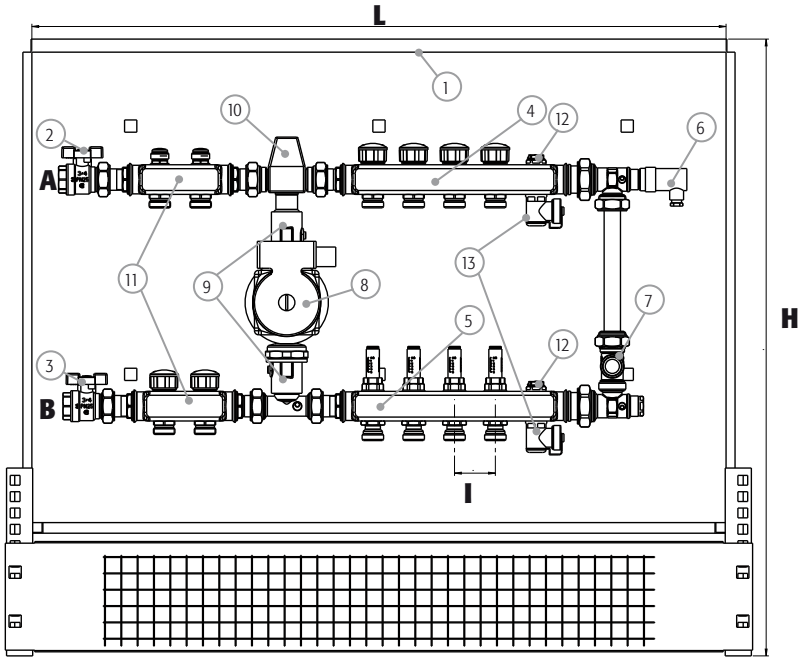
IVR MULTIKLIMA 523 - Combined high temperature and warm (mixed) water





The units are available with both Left and Right orientation

Combined high temperature and warm (mixed) water distribution cabinet, includes AISI 304 SS manifolds 1" x ¾" Ek or 1"¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, high temp. SS manifolds with 2 connections, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; fixed point mixing set with thermostatic mixing valve, by-pass set with safety thermostat and sensor connection.



N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 980/A 1"
3	Ballvalve IVR 980/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Thermostatic mixing valve
11	Twin set high temp. manifolds IVR 701 1"
12	Air vent IVR 838 1/2"
13	Rotatable drain valve IVR 836 1/2"

A = Supply **I** = 50 mm
B = Return **H** = 750 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	850	850	850	1000	1000	1000	1200	1200	1200	1200	1300

Cabinet depth 150 mm

IVR 980/A 1"

IVR 981/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

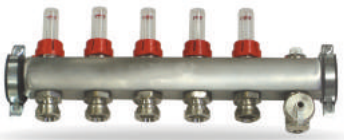
IVR 701 1"

IVR 825

IVR 823-824

IVR 980/B 1"

IVR 981/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 712

IVR 714

IVR 594

IVR 847

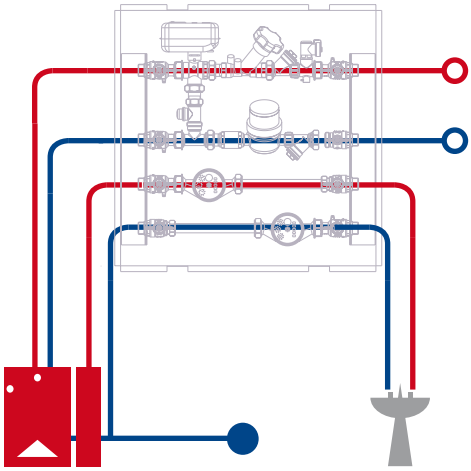
IVR 897

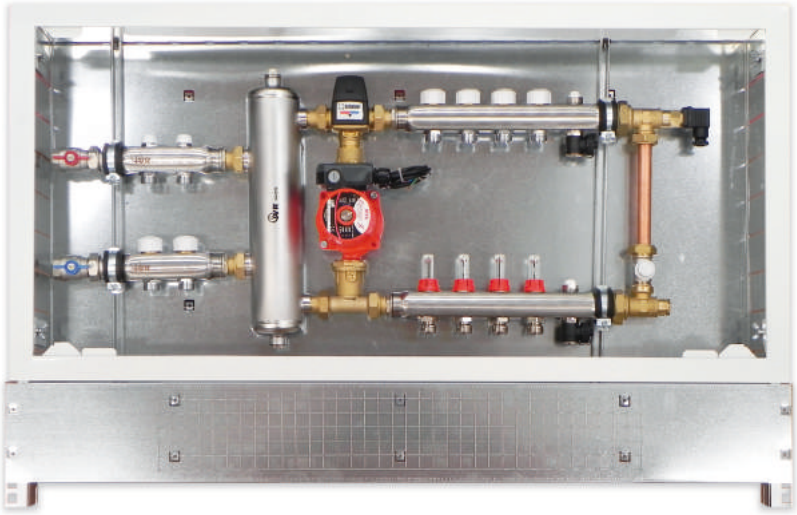
IVR 581
3/4" Eurokonus

IVR 830

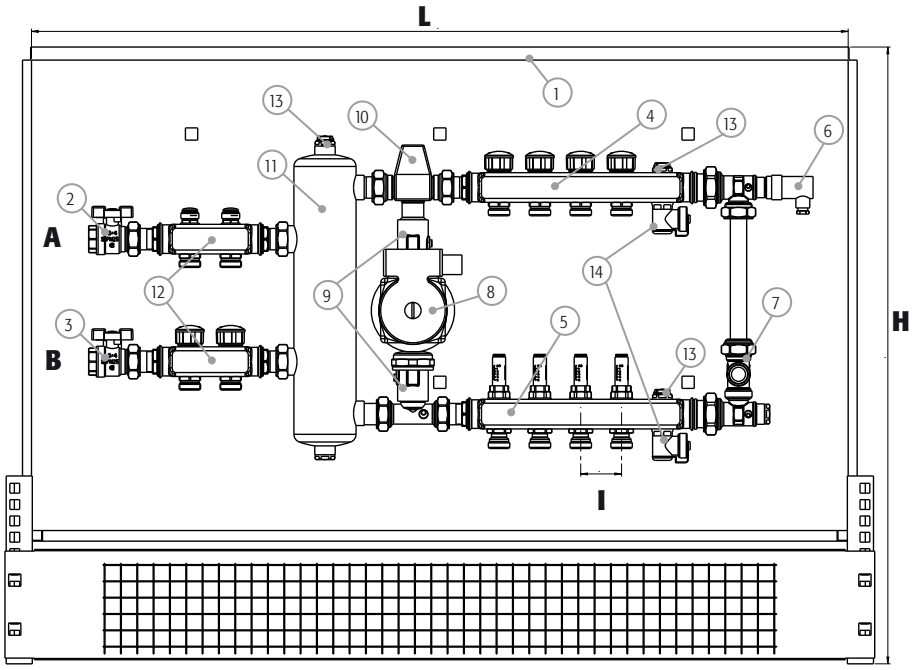
* soon available

IVR MULTIKLIMA 524 - Combined high temp. and warm (mixed) water with hydraulic separator





Combined high temperature and warm (mixed) water distribution cabinet, includes AISI 304 SS manifolds 1" x ¾" Ek or1"¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, high temp. SS manifolds with 2 connections, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; fixed point mixing set with thermostatic mixing valve, by-pass set with safety thermostat and sensor connection; stainless steel hydraulic separator.



N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 980/A 1"
3	Ballvalve IVR 980/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Thermostatic mixing valve
11	Hydraulic Separator IVR 330
12	Twin set high temp. manifolds IVR 701 1"
13	Air vent IVR 838 1/2"
14	Rotatable drain valve IVR 836 1/2"

A = Supply **I** = 50 mm
B = Return **H** = 750 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1000	1000	1000	1200	1200	1200	1200	1300	1300	1400	1400

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR 980/A 1"

IVR 981/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 980/B 1"

IVR 981/B 1"

IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 330

IVR 712

IVR 714

IVR 701 1"

IVR 594

IVR 847

IVR 897

IVR 581
3/4" Eurokonus

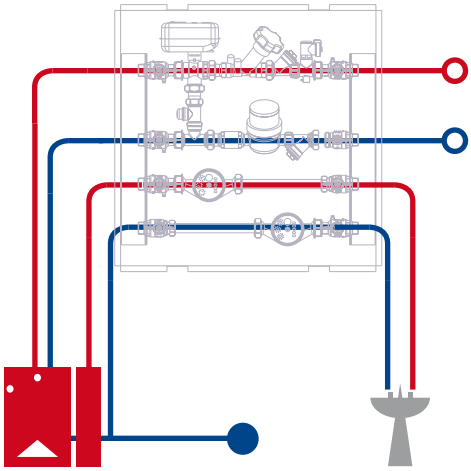
IVR 825

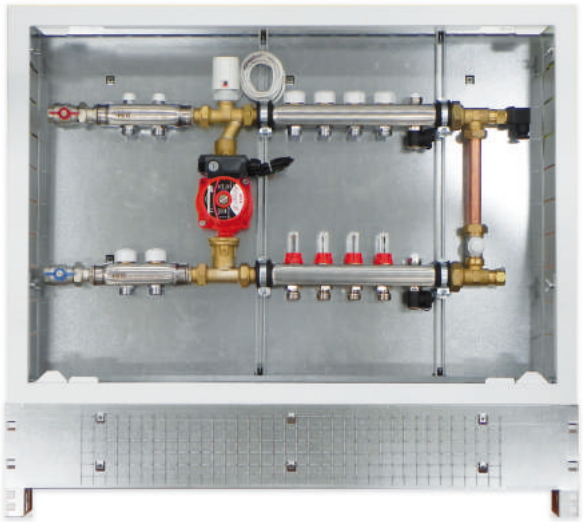
IVR 823-824

IVR 830

* soon available

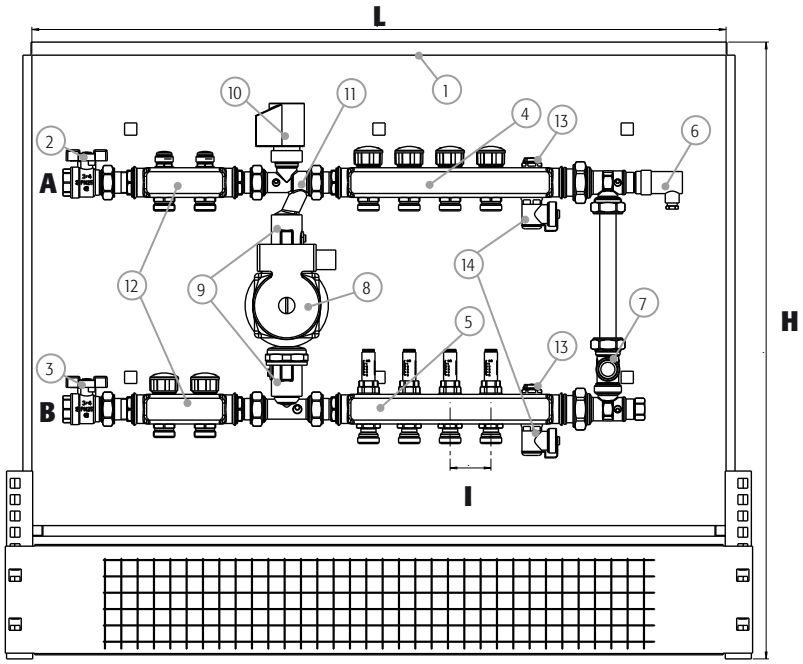
IVR MULTIKLIMA 525 - Combined high temperature and warm (mixed) water





The units are available with both Left and Right orientation

Combined high temperature and warm (mixed) water distribution cabinet, includes AISI 304 SS manifolds 1" x ¾" Ek or 1"¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, high temp. SS manifolds with 2 connections, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; mixing set with dynamic electrothermal mixing valve, by-pass set with safety thermostat and sensor connection.

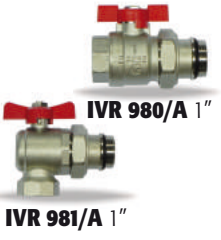


N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 980/A 1"
3	Ballvalve IVR 980/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Electrothermal actuator
11	Mixing valve IVR 583
12	Twin set high temp. manifolds IVR 701 1"
13	Air vent IVR 838 1/2"
14	Rotatable drain valve IVR 836 1/2"

A = Supply
B = Return
I = 50 mm
H = 750 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	850	850	850	1000	1000	1000	1200	1200	1200	1200	1300

Cabinet depth 150 mm



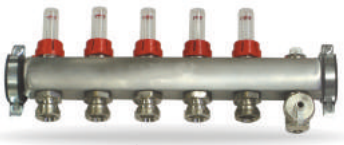
IVR 980/A 1"

IVR 981/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 980/B 1"

IVR 981/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 701 1"

IVR 713

IVR 714

IVR 825

IVR 823-824

IVR 594

IVR 847

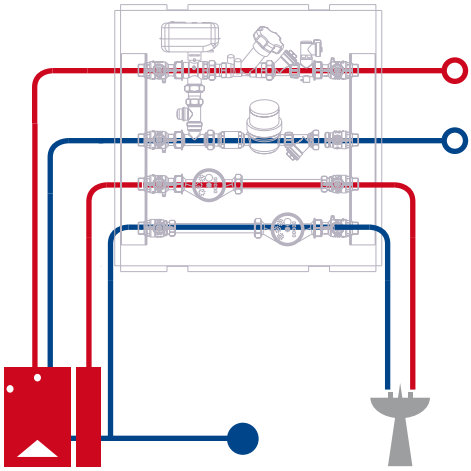
IVR 897

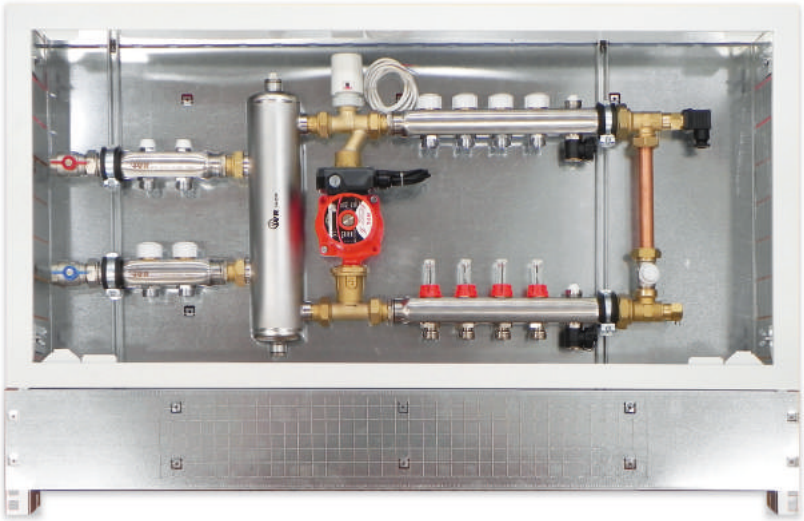
IVR 581
3/4" Eurokonus

IVR 830

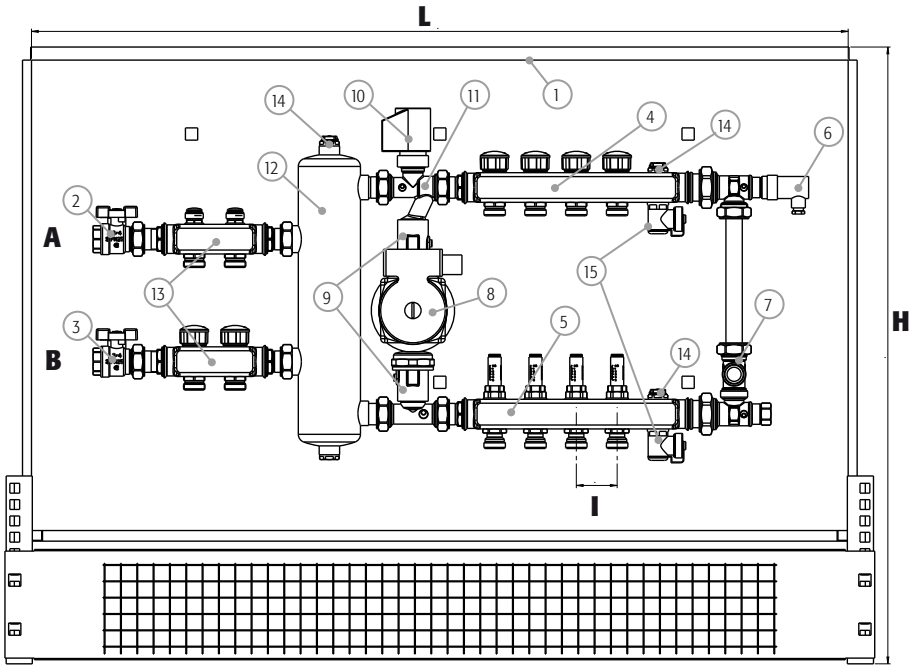
* soon available

IVR MULTIKLIMA 526 - Combined high temp. and warm (mixed) water with hydraulic separator





Combined high temperature and warm (mixed) water distribution cabinet, includes AISI 304 SS manifolds 1" x ¾" Ek or 1"¼" x ¾" Ek. Preassembled in RAL9010 plated steel cabinet, high temp. SS manifolds with 2 connections, manifolds are complete with thermostatic valves (to be operated by thermoelectric head), flow meters, drain valve, air vent, interception ballvalves and brackets; mixing set with dynamic electrothermal mixing valve, by-pass set with safety thermostat and sensor connection; Stainless steel hydraulic separator.



A = Supply **B =** Return **I** = 50 mm **H** = 750 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1000	1000	1000	1200	1200	1200	1200	1300	1300	1400	1400

Cabinet depth 150 mm

N.	PART NAME
1	Steel Cabinet IVR 830
2	Ballvalve IVR 980/A 1"
3	Ballvalve IVR 980/B 1"
4	Return manifold IVR 702 1" - 1"1/4
5	Supply manifold IVR 703 1" - 1"1/4
6	Safety thermostat
7	Micrometric regulating lockshield
8	Circulating pump
9	Interception ballvalve IVR 108
10	Electrothermal actuator
11	Mixing valve IVR 583
12	Hydraulic Separator IVR 330
13	Twin set high temp. manifolds IVR 701 1"
14	Air vent IVR 838 1/2"
15	Rotatable drain valve IVR 836 1/2"

The units are available with both Left and Right orientation

IVR 980/A 1"

IVR 981/A 1"

IVR 702
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

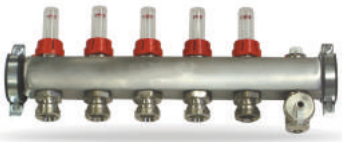
IVR 701 1"

IVR 825

IVR 823-824

IVR 980/B 1"

IVR 981/B 1"



IVR 703
1" x 3/4" Eurokonus
1"1/4 x 3/4" Eurokonus *

IVR 330

IVR 713

IVR 714

IVR 594

IVR 847

IVR 897

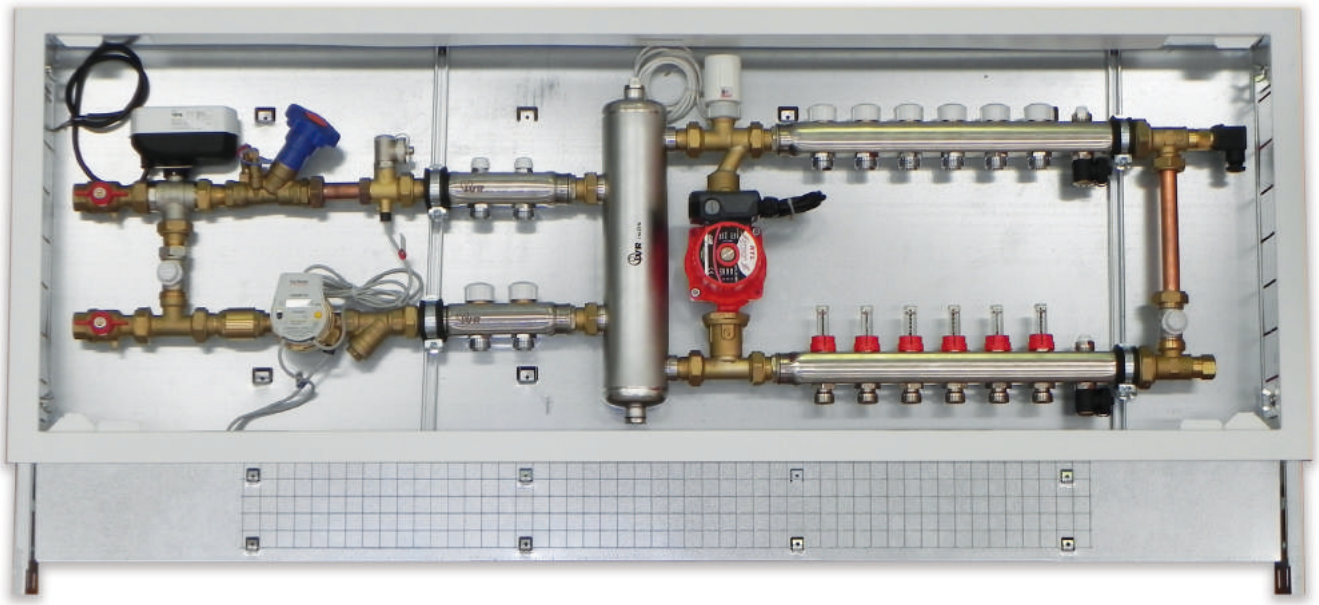
IVR 581
3/4" Eurokonus

IVR 830

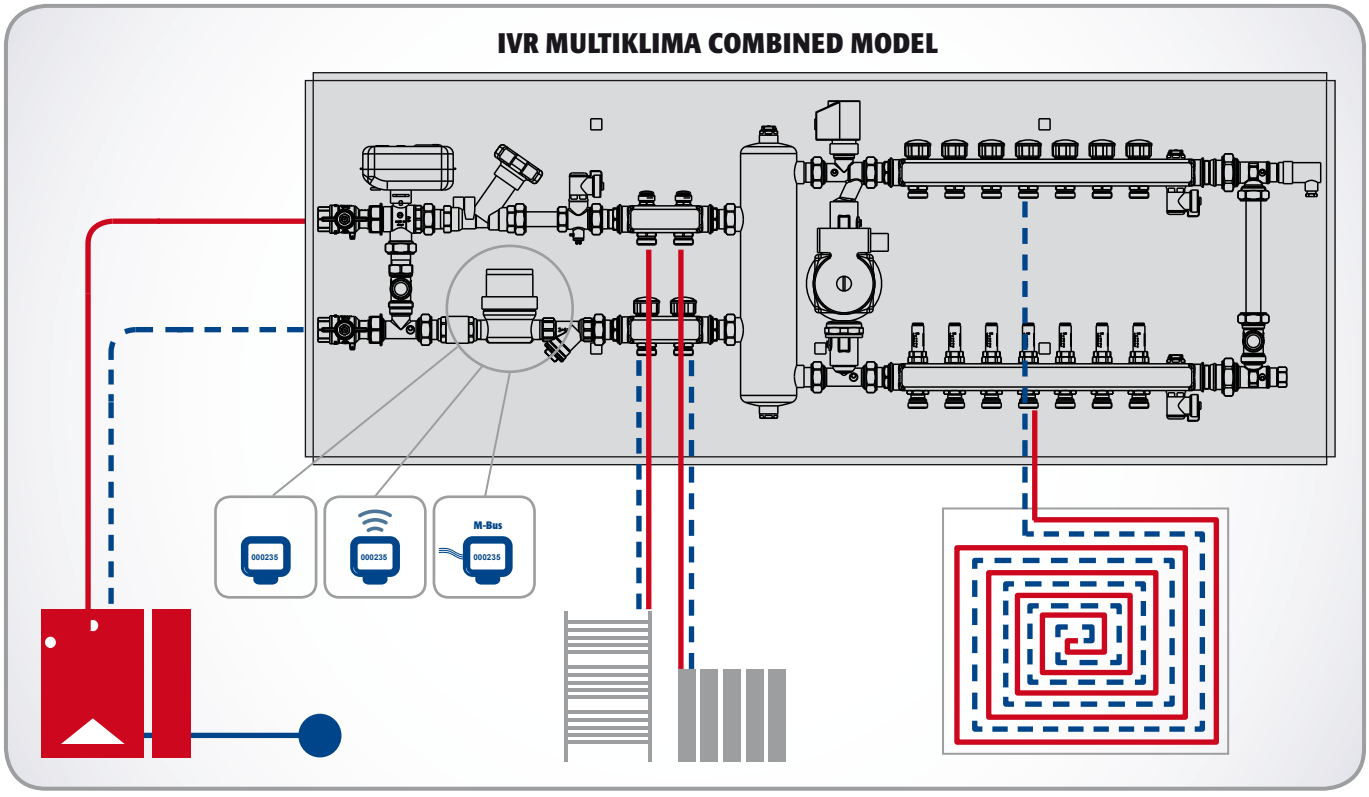
* soon available

IVR MULTIKLIMA COMBINED UNITS FOR METERING AND DISTRIBUTION

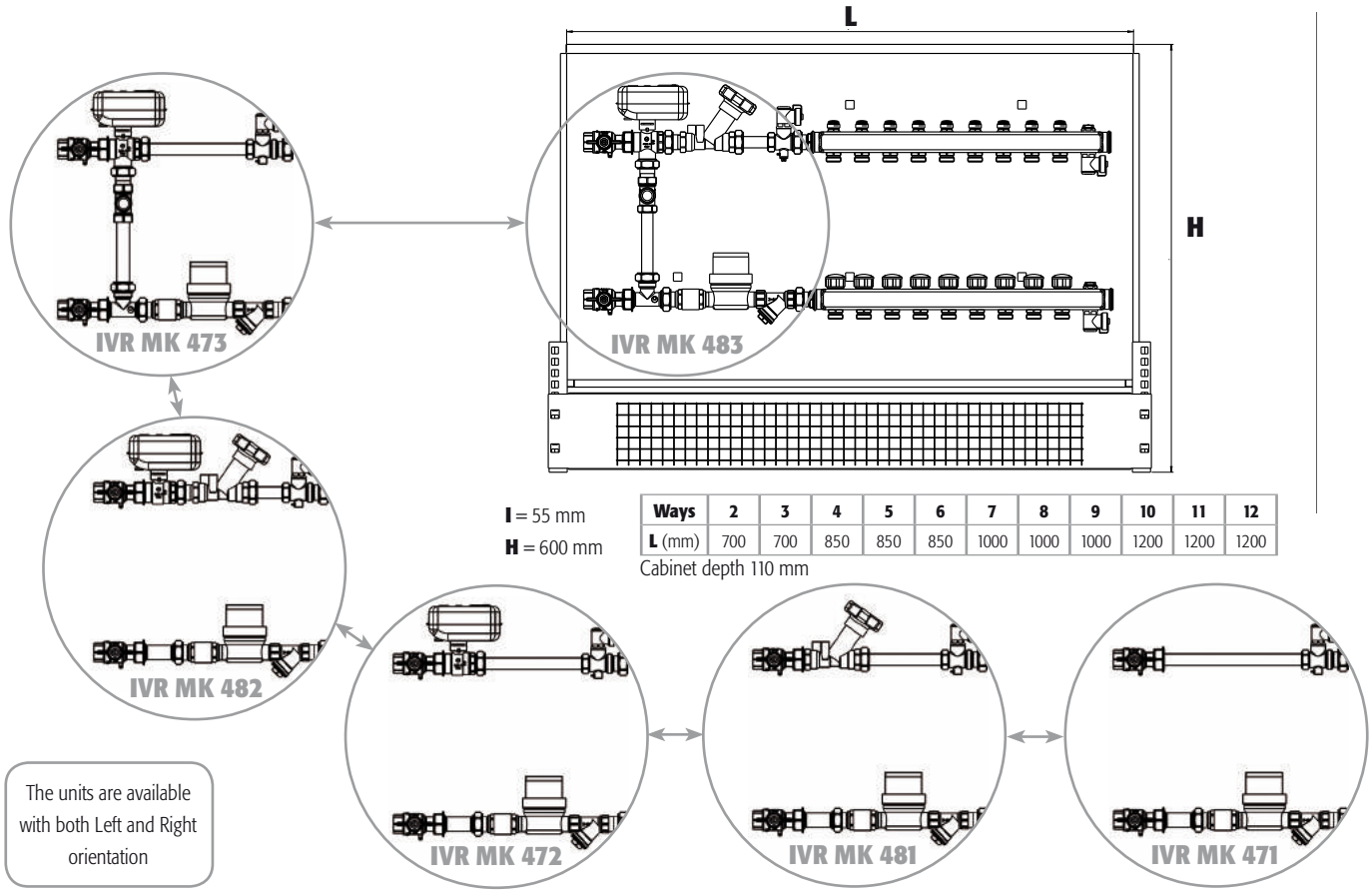
IVR can supply each model of MK Distribution UNIT combined with a heating/cooling energy metering section (photo hereunder shows IVR MK 526 for Distribution complete with IVR MK 483 for metering).



Compliance with 2004/22/CE MID Directive



IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 509/A + METERING



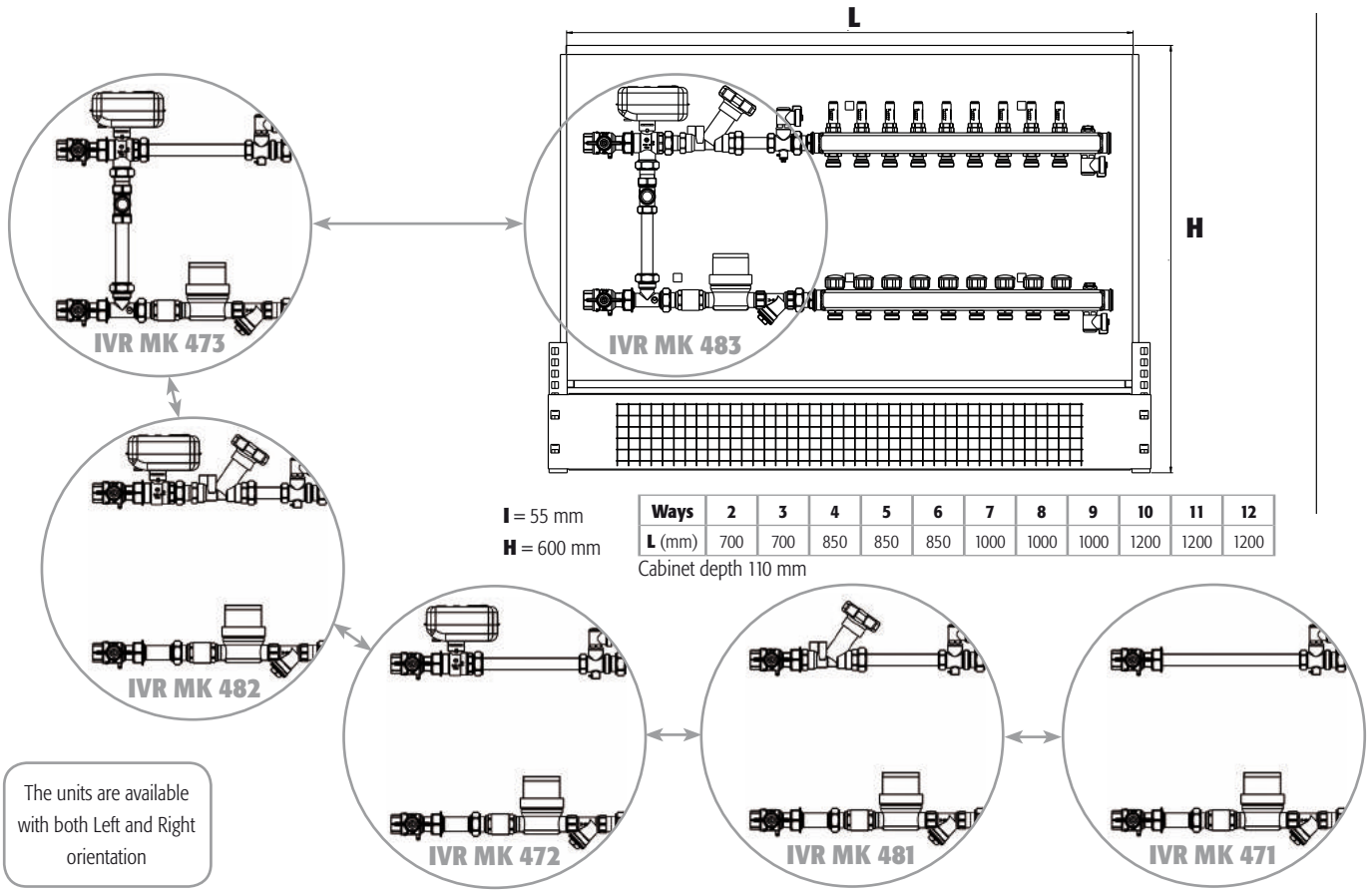
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	700	700	850	850	850	1000	1000	1000	1200	1200	1200

Cabinet depth 110 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 509/B + METERING



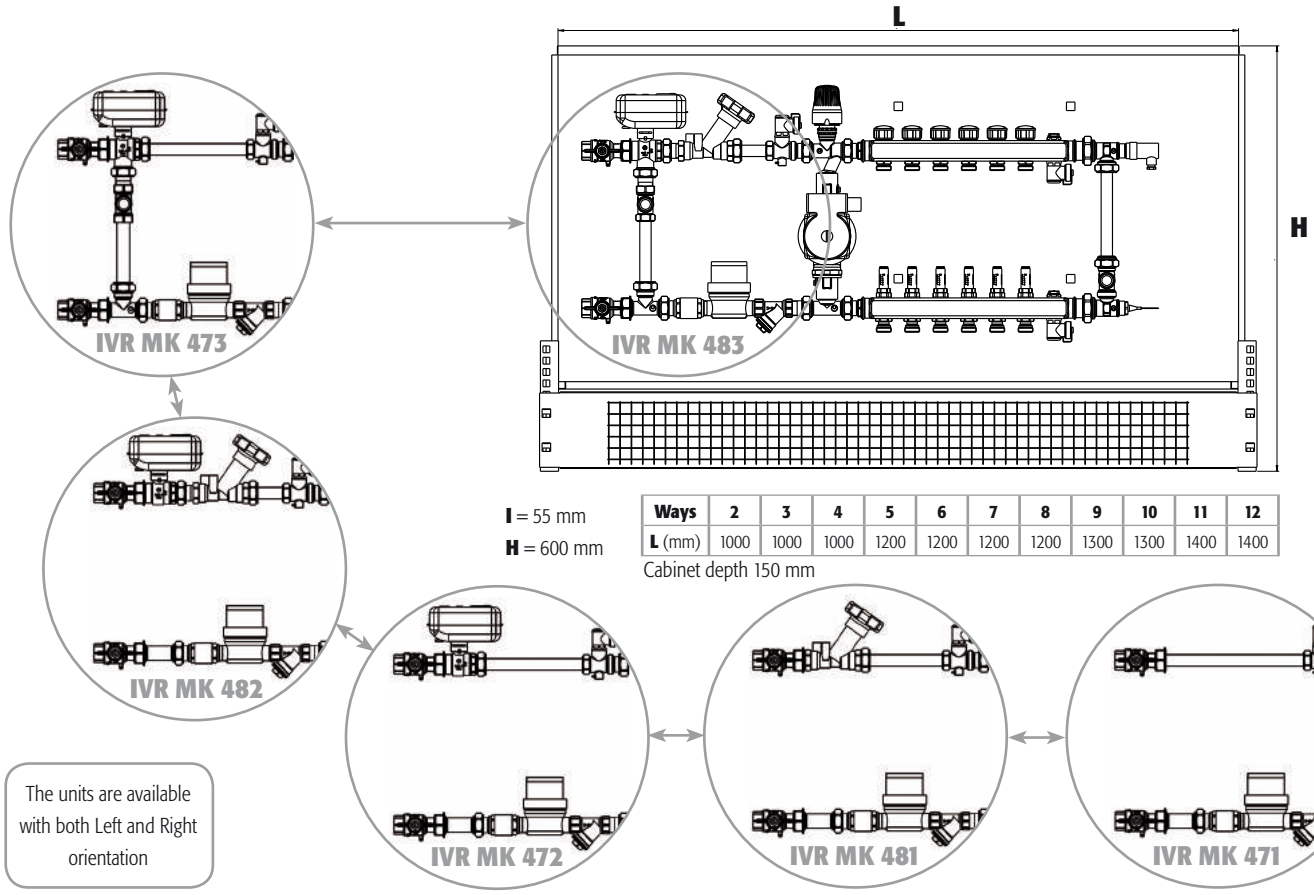
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	700	700	850	850	850	1000	1000	1000	1200	1200	1200

Cabinet depth 110 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 511 + METERING



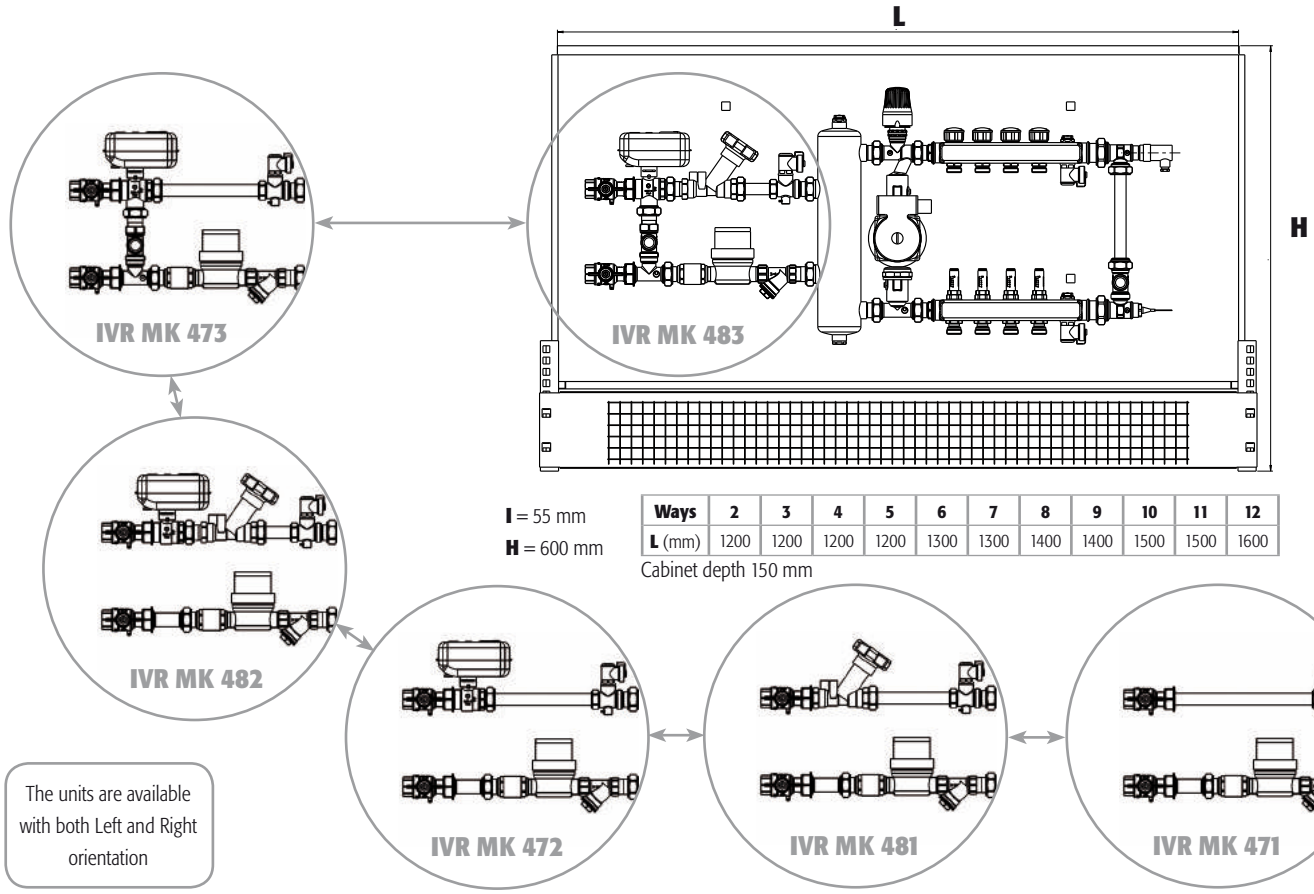
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1000	1000	1000	1200	1200	1200	1200	1300	1300	1400	1400

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 512 + METERING



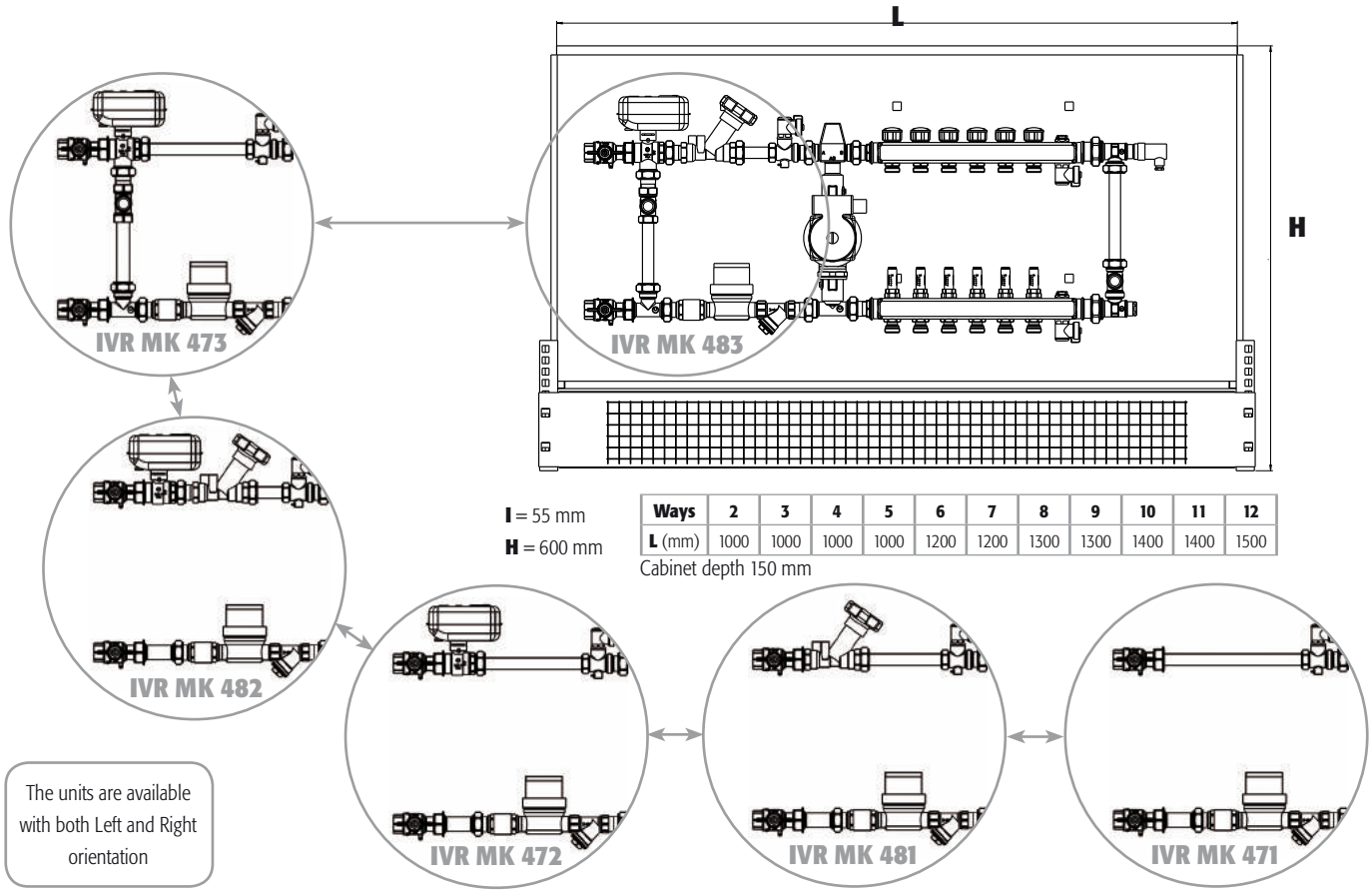
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1200	1200	1200	1200	1300	1300	1400	1400	1500	1500	1600

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 513 + METERING



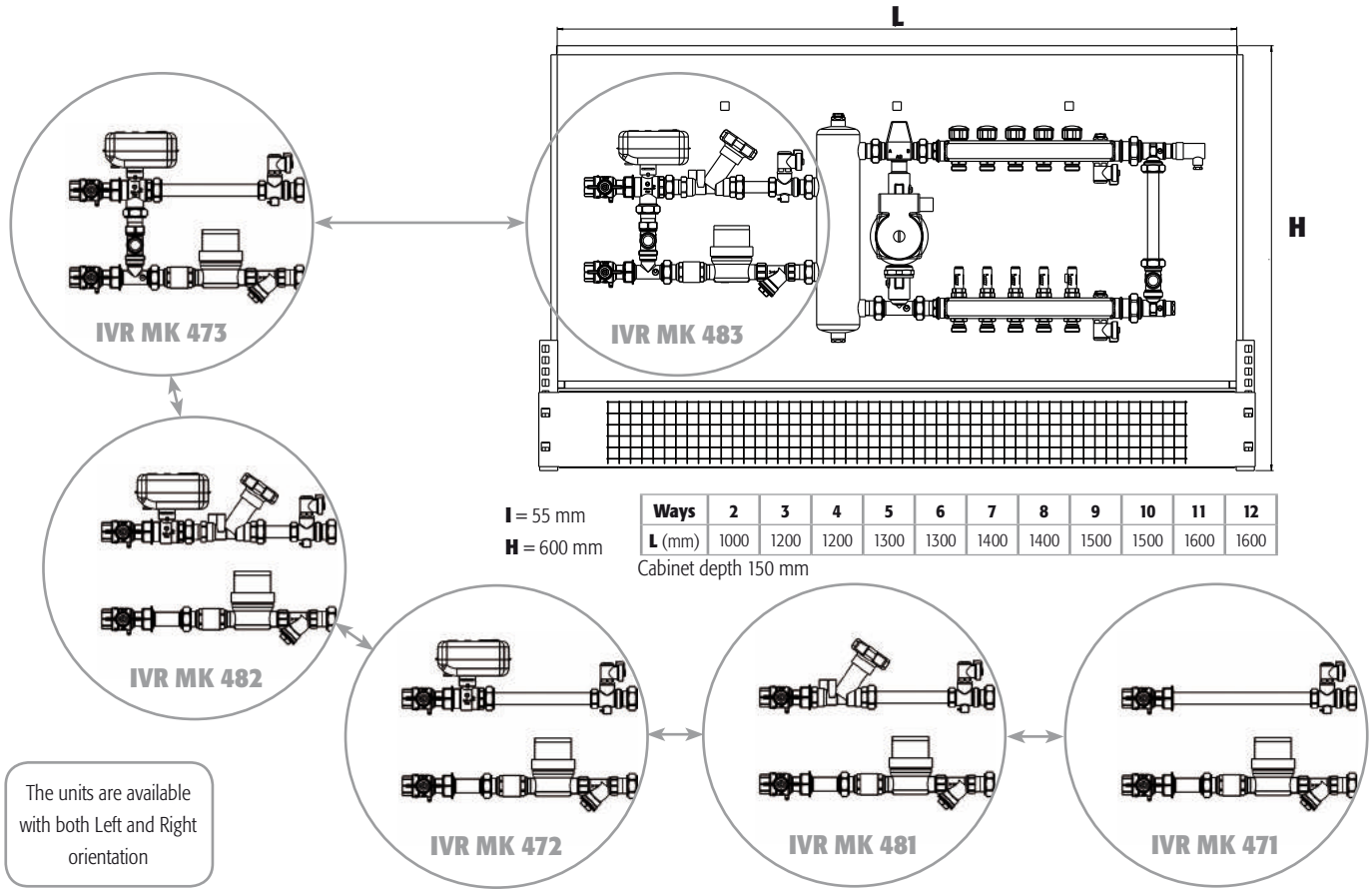
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1000	1000	1000	1000	1200	1200	1300	1300	1400	1400	1500

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 514 + METERING



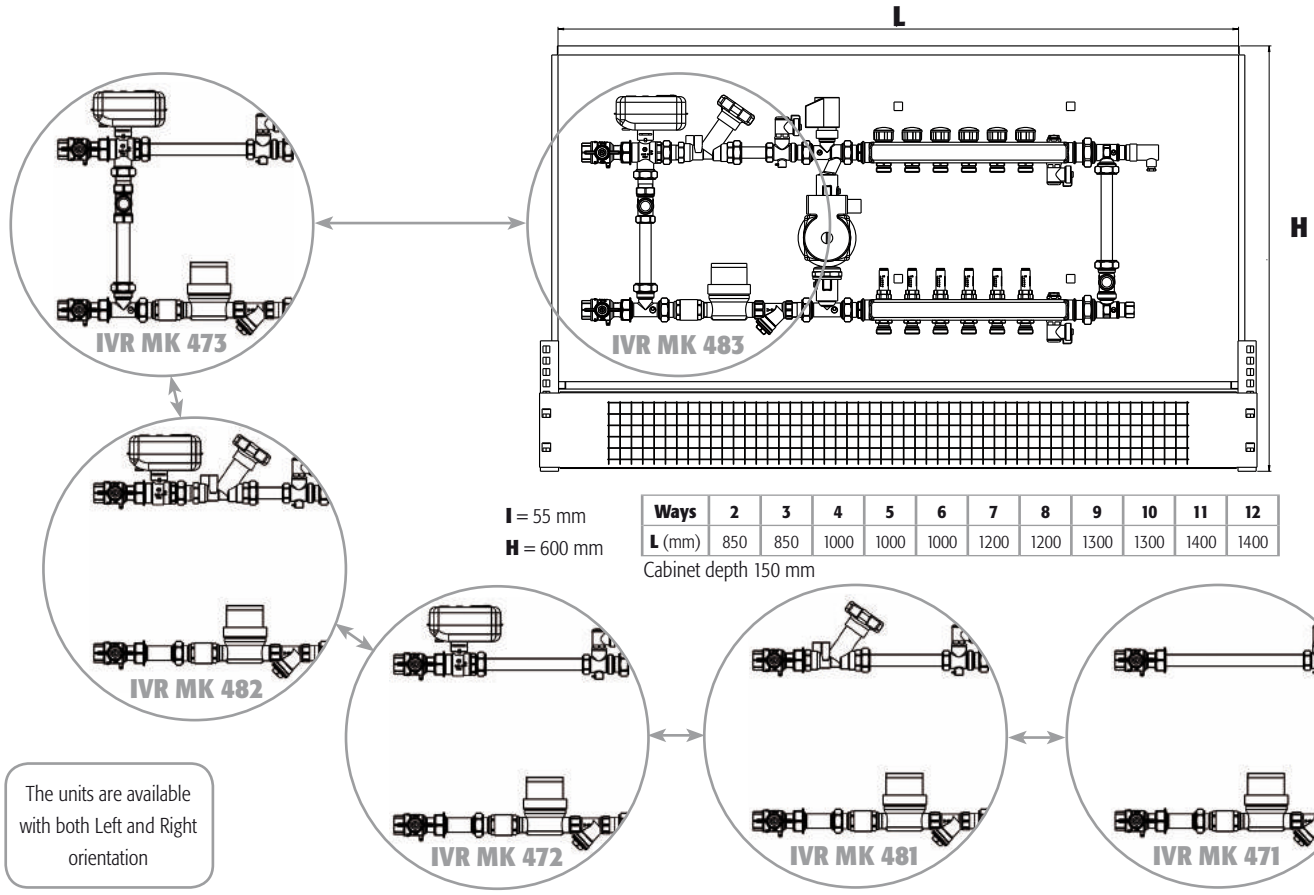
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1000	1200	1200	1300	1300	1400	1400	1500	1500	1600	1600

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 515 + METERING



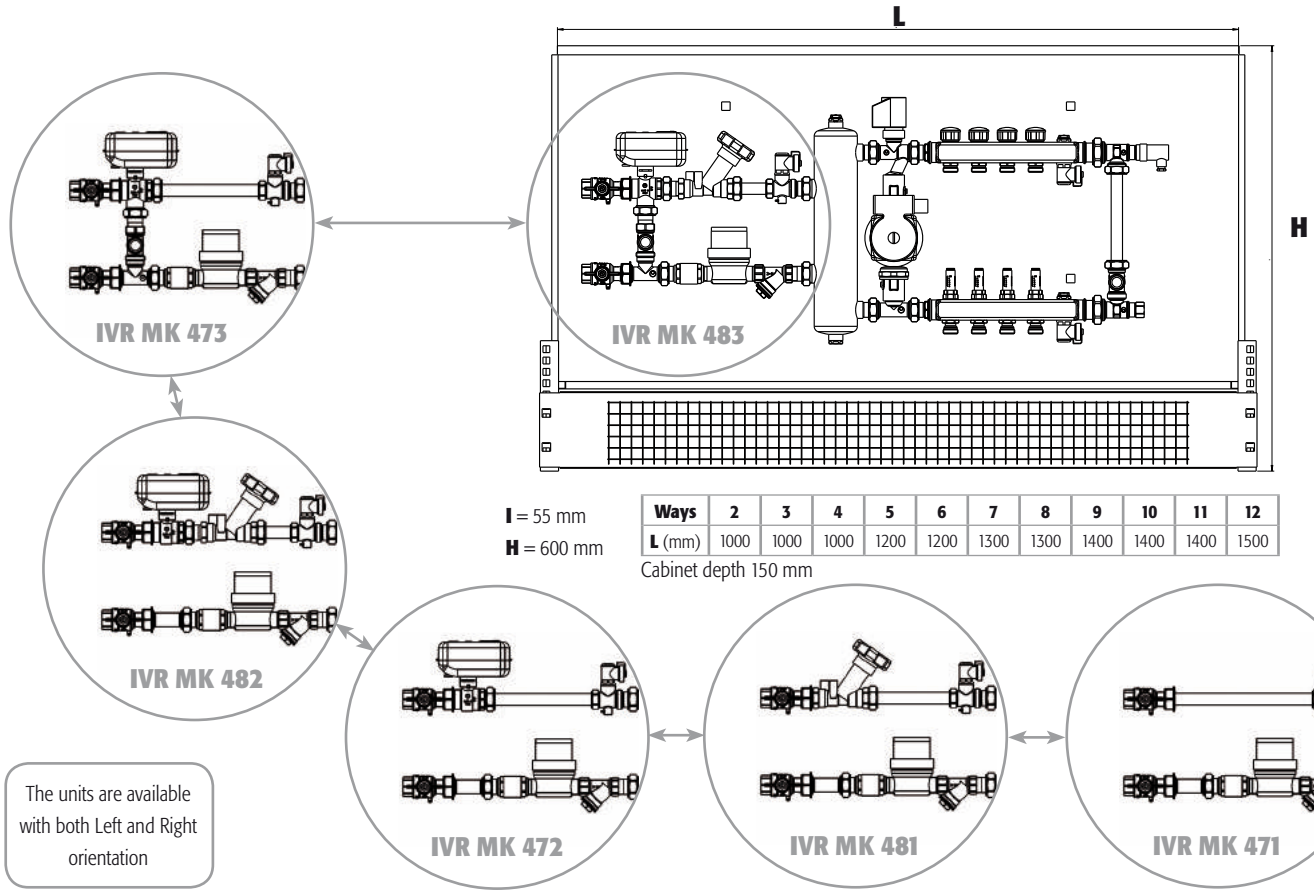
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	850	850	1000	1000	1000	1200	1200	1300	1300	1400	1400

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 516 + METERING



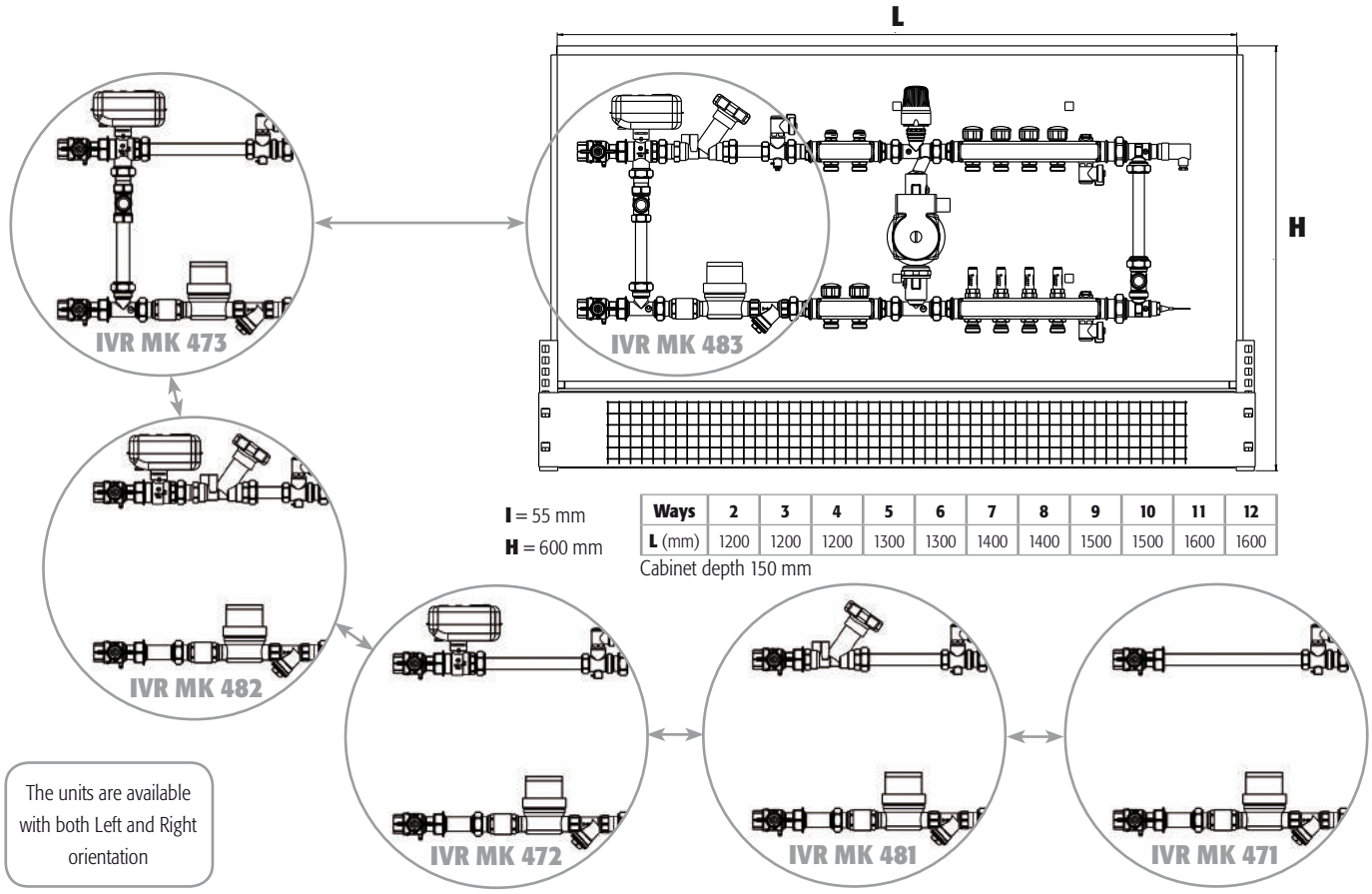
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1000	1000	1000	1200	1200	1300	1300	1400	1400	1400	1500

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 521 + METERING



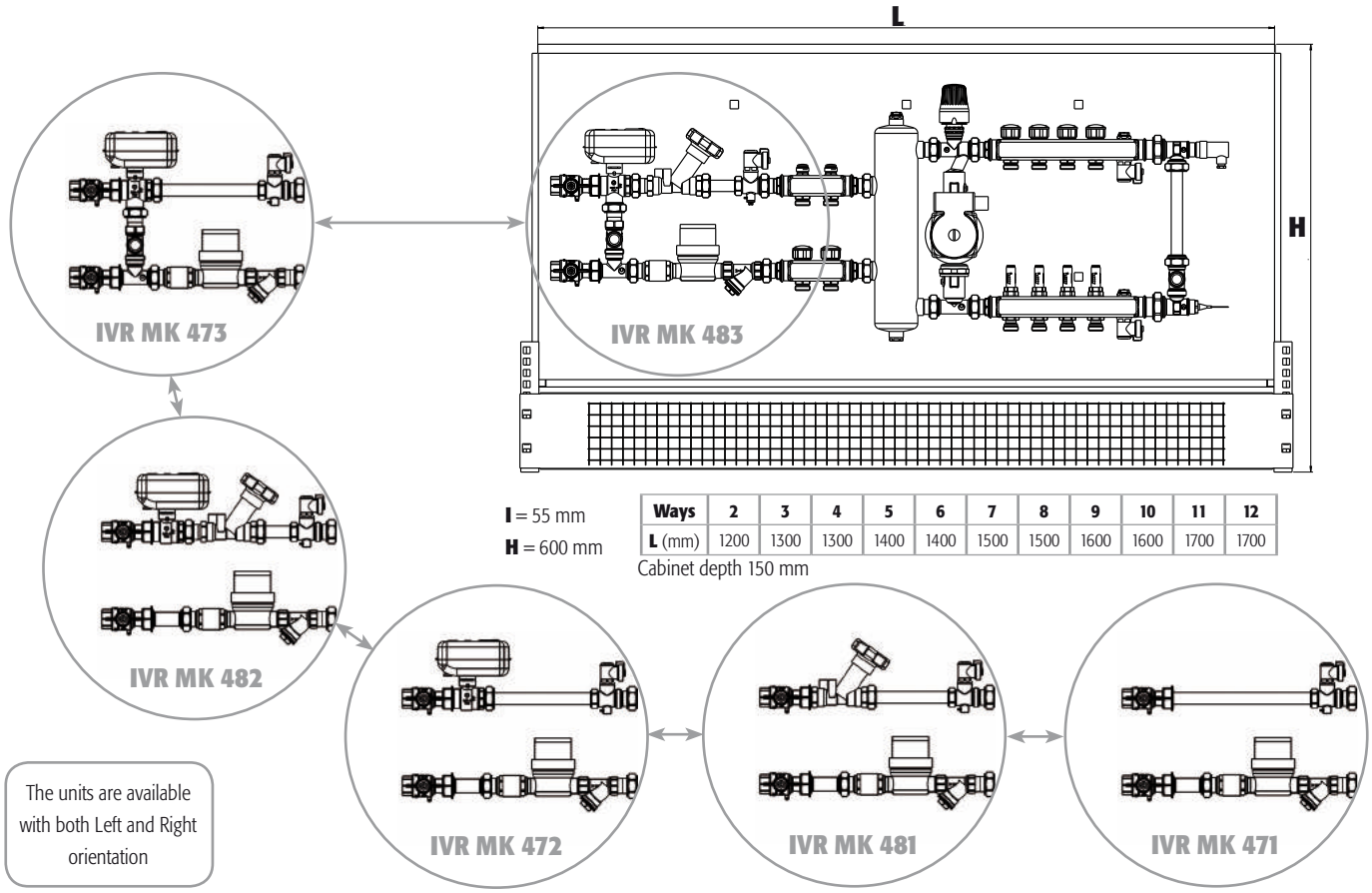
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1200	1200	1200	1300	1300	1400	1400	1500	1500	1600	1600

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 522 + METERING



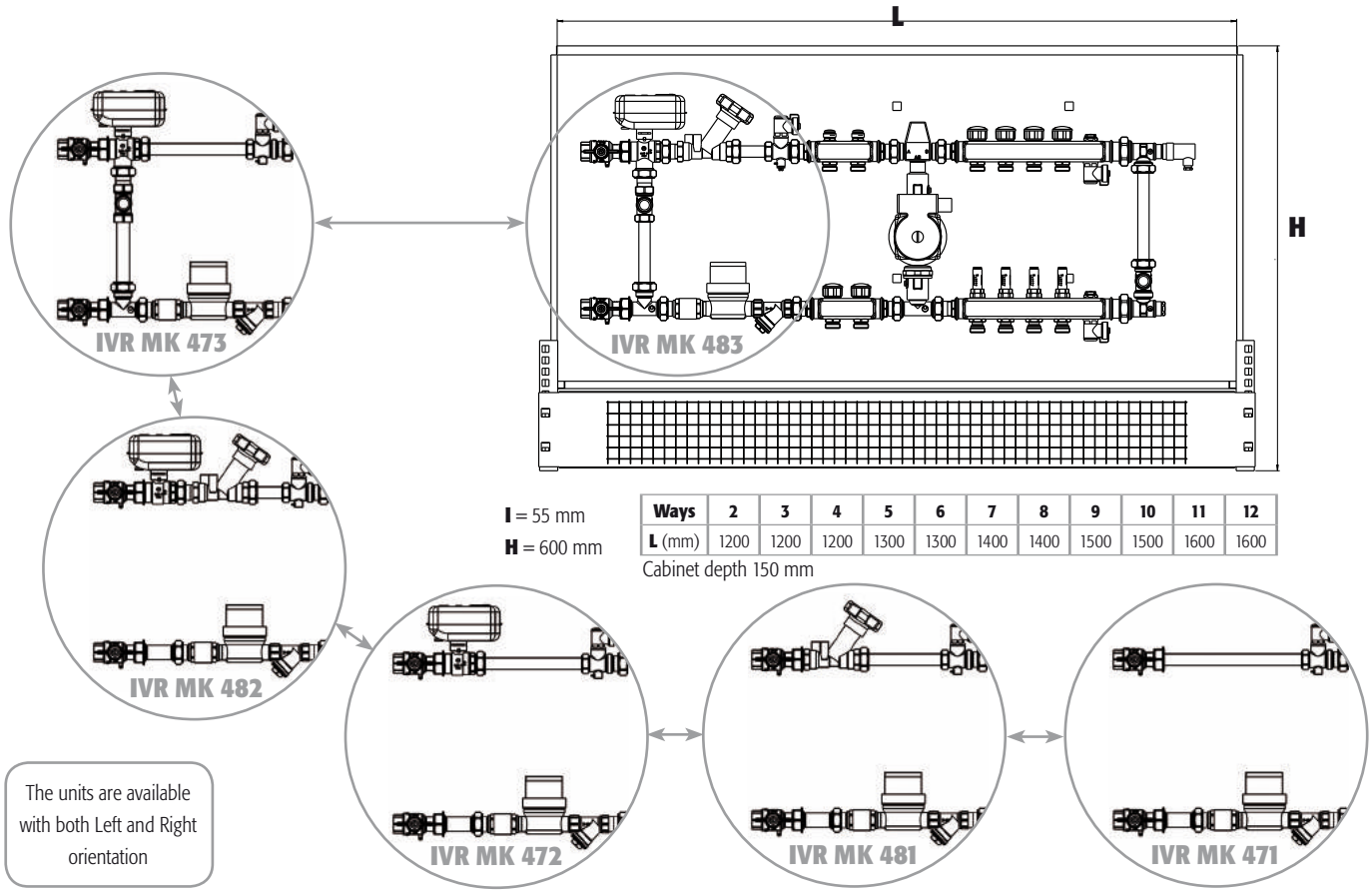
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1200	1300	1300	1400	1400	1500	1500	1600	1600	1700	1700

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 523 + METERING



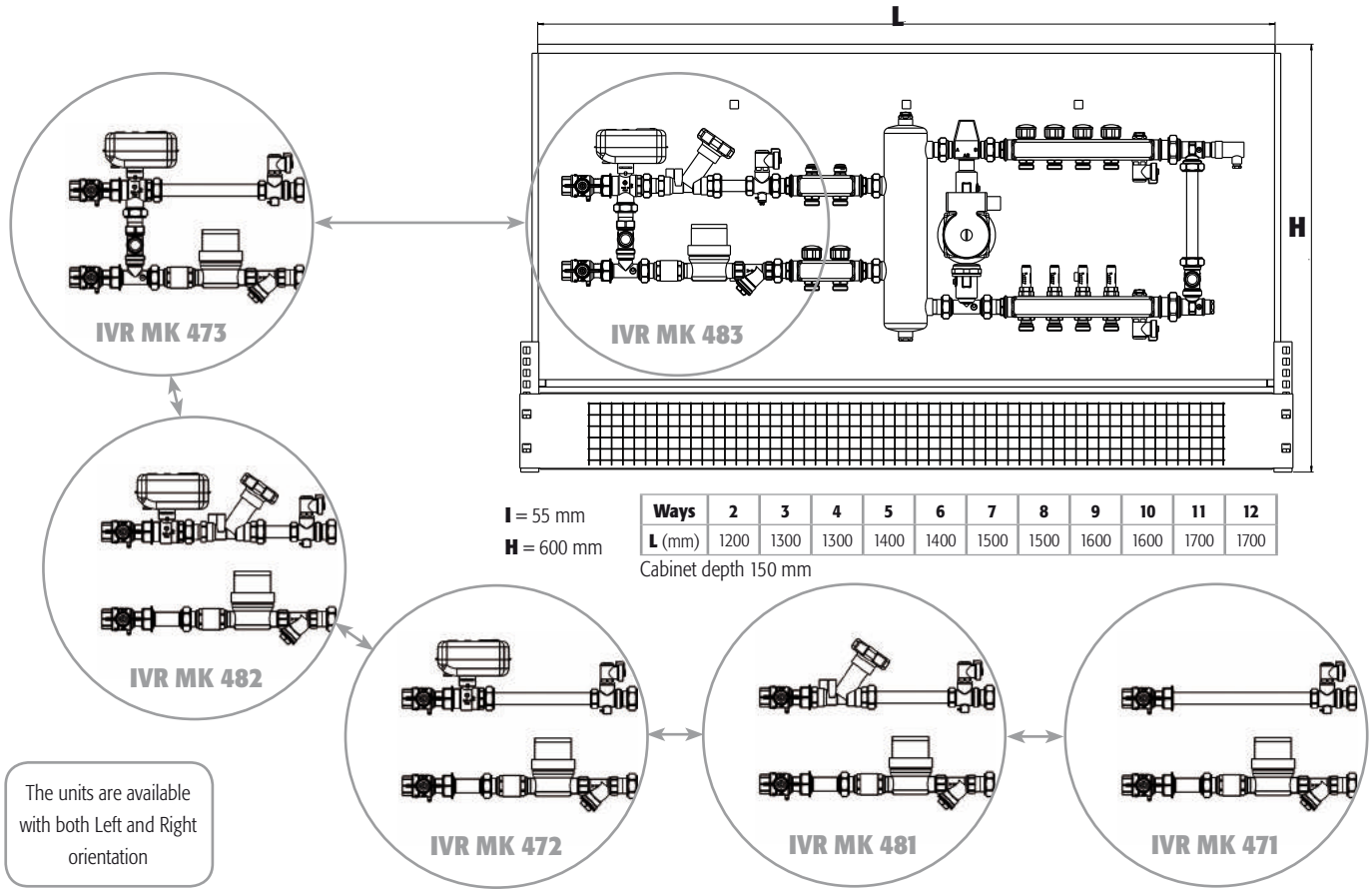
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1200	1200	1200	1300	1300	1400	1400	1500	1500	1600	1600

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 524 + METERING



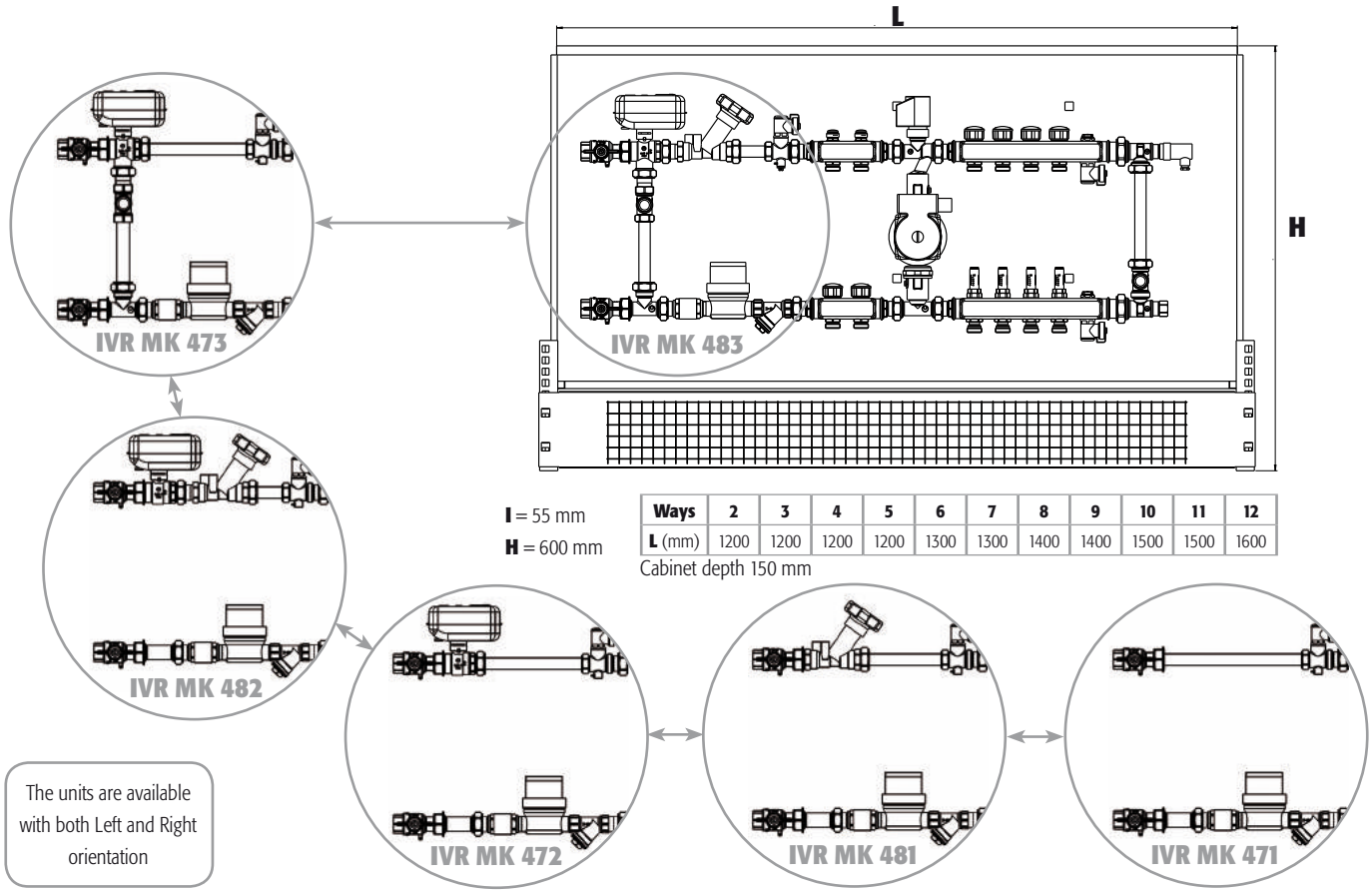
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1200	1300	1300	1400	1400	1500	1500	1600	1600	1700	1700

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 525 + METERING



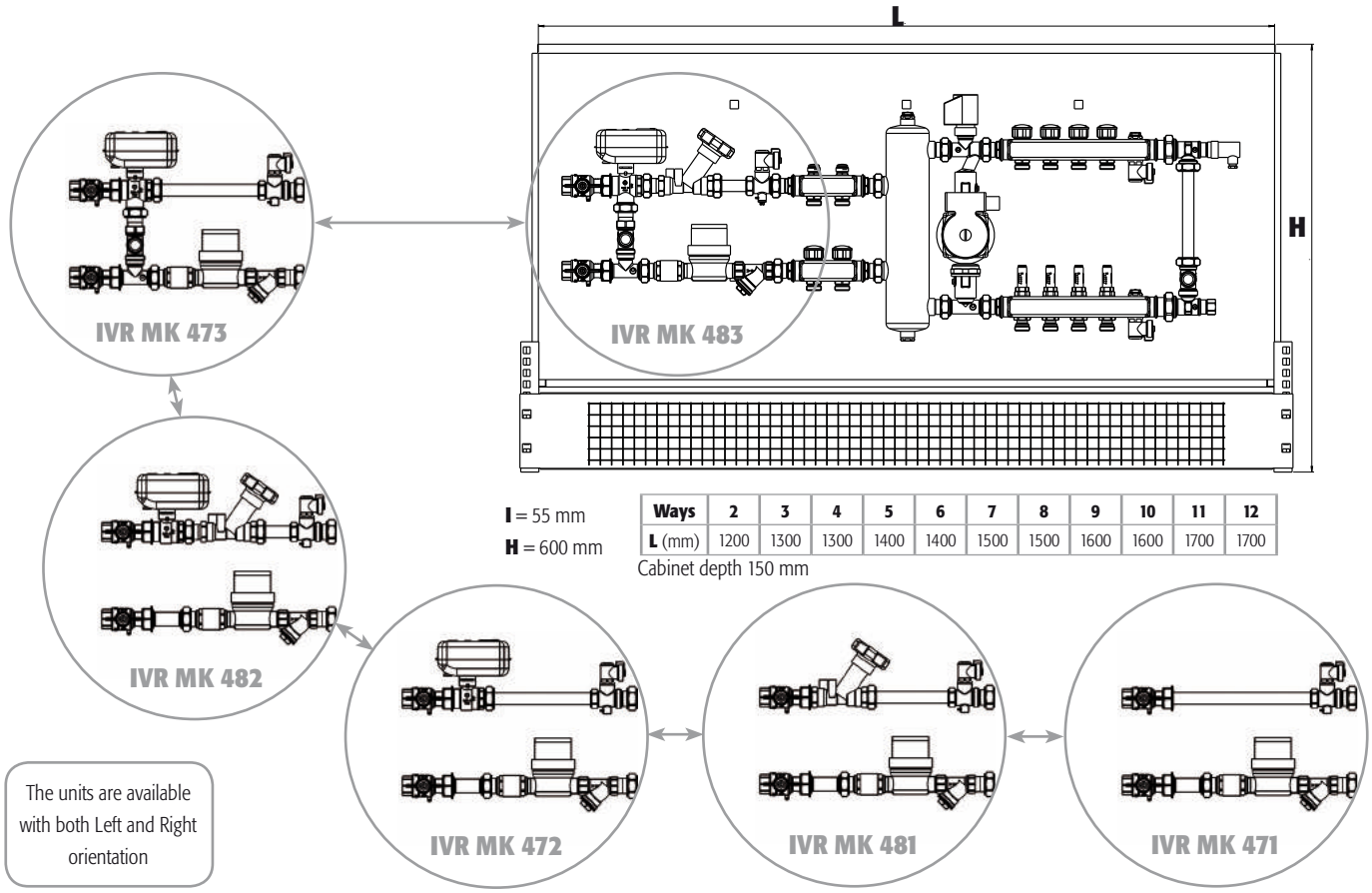
I = 55 mm
H = 600 mm

Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1200	1200	1200	1200	1300	1300	1400	1400	1500	1500	1600

Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MULTIKLIMA COMBINED UNIT: DISTRIBUTION IVR MK 526 + METERING



I = 55 mm
H = 600 mm

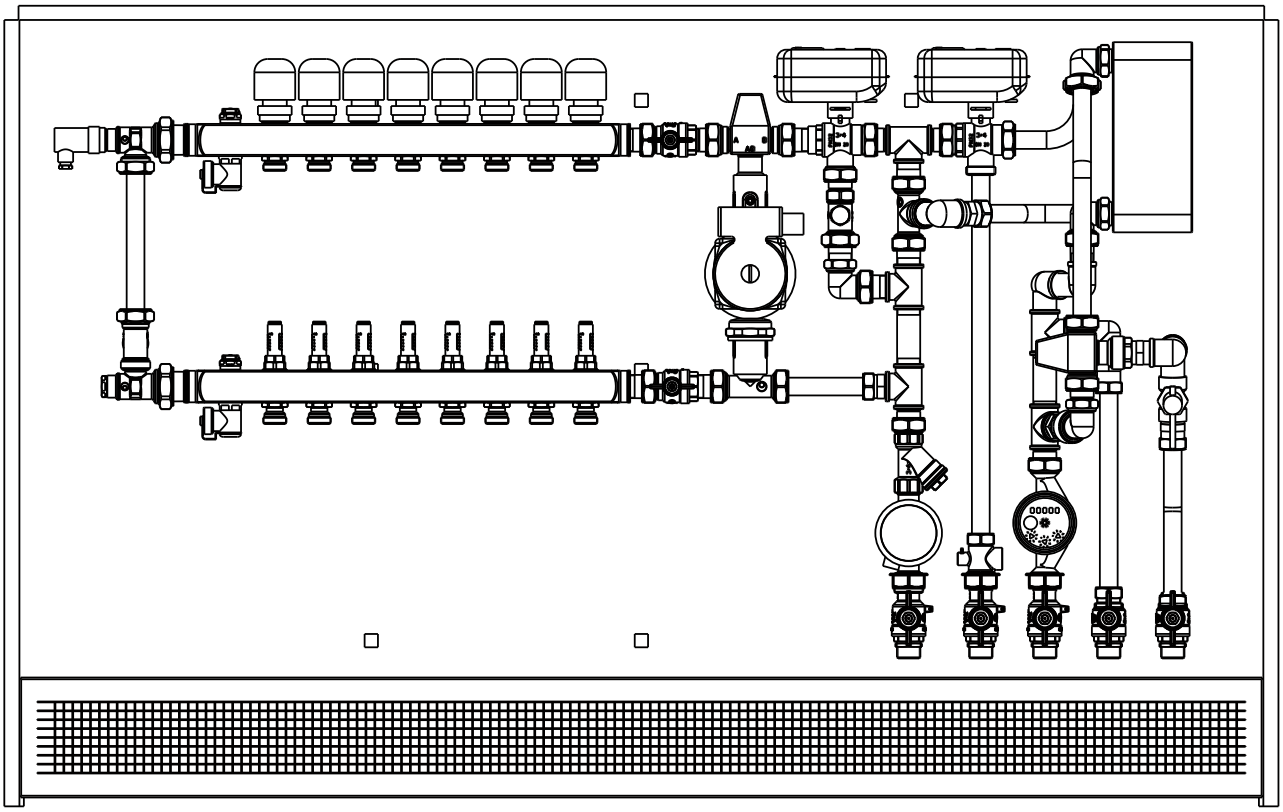
Ways	2	3	4	5	6	7	8	9	10	11	12
L (mm)	1200	1300	1300	1400	1400	1500	1500	1600	1600	1700	1700

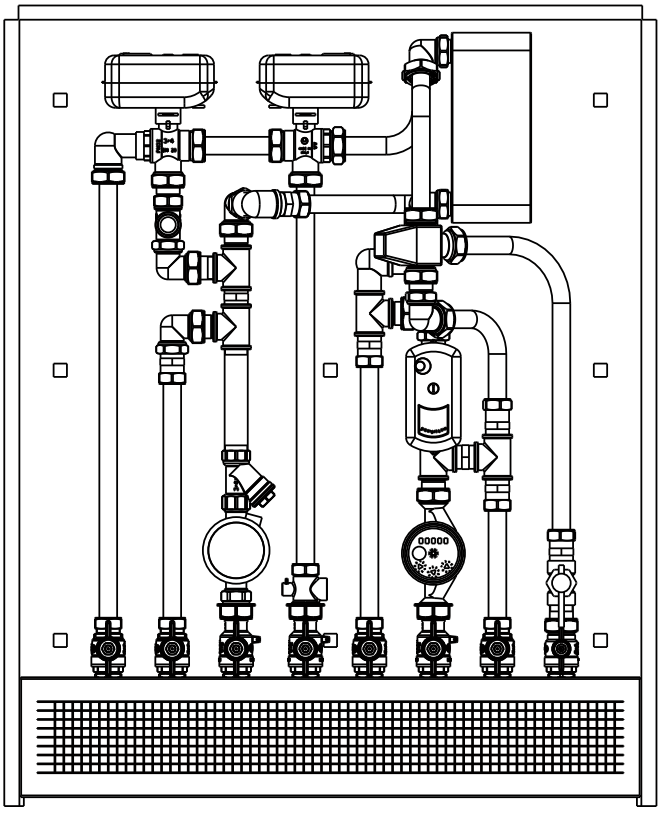
Cabinet depth 150 mm

The units are available with both Left and Right orientation

IVR MK COMBINED MODEL WITH HEAT EXCHANGER

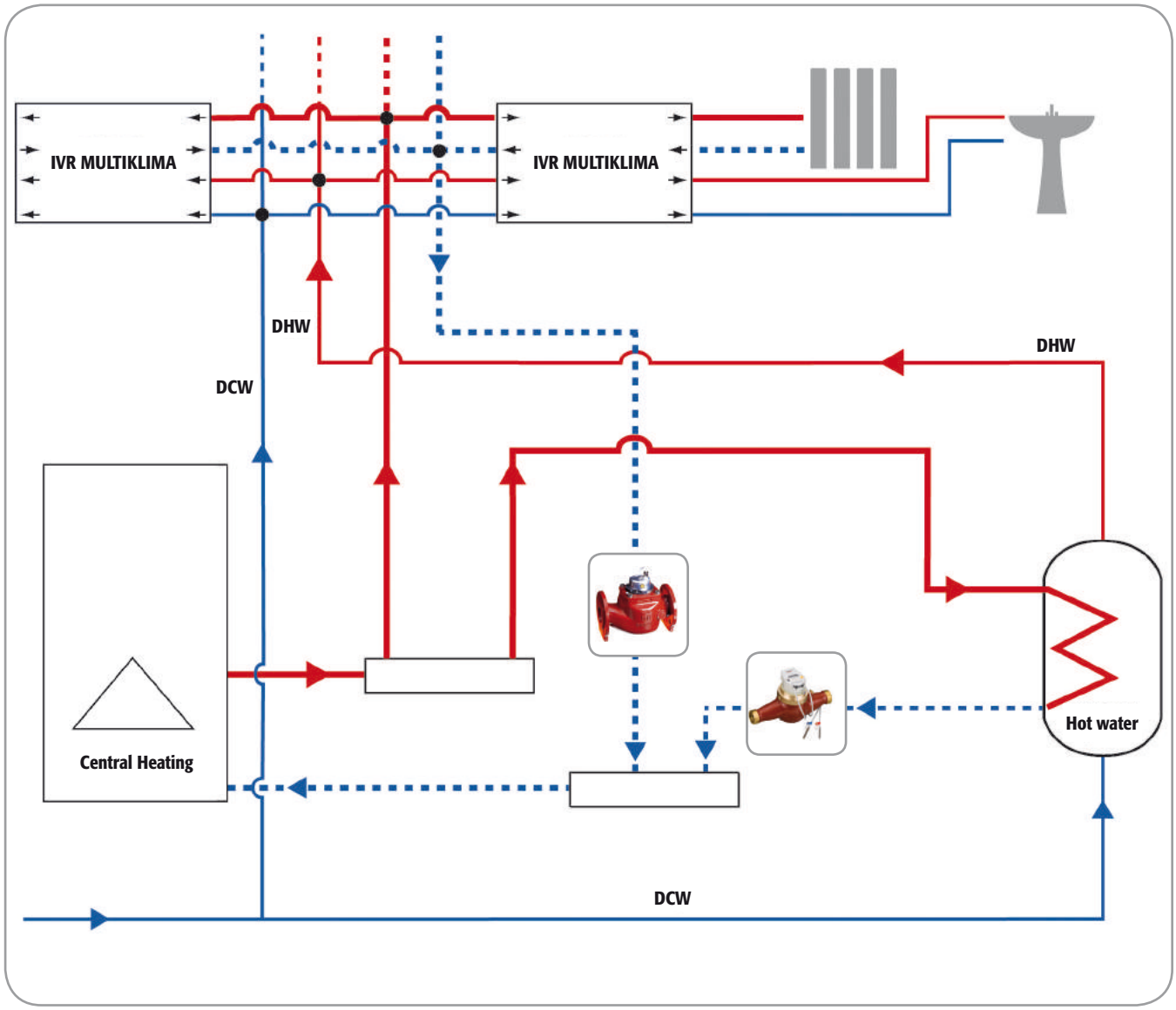
The IVR MK Units can include heat exchanger for local instantaneous production of DHW.

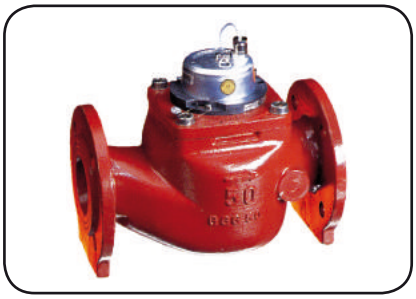




Please Note: IVR MK units can be customized for specific project requirements.

LAYOUT OF IVR METERING SOLUTION FOR CENTRAL HEATING





Volumetric heat meter
MEGASPLIT
Visual display
M-Bus data transmission
Radio data transmission

Compact heat meter
WZ Compact
Visual display
M-Bus data transmission
Radio data transmission

CONTROL UNIT FOR DATA RECORDING FROM IVR MULTIKLIMA UNITS M-BUS VERSION

IVR 149600250
IVR 149600120
Control unit for 120-250 meters

IVR 149600060
Control unit for 60 meters

IVR 149600020
Control unit for 20 meters

IVR 335800105
IVR 335800106
M-Bus signal converter (Wall/Din)

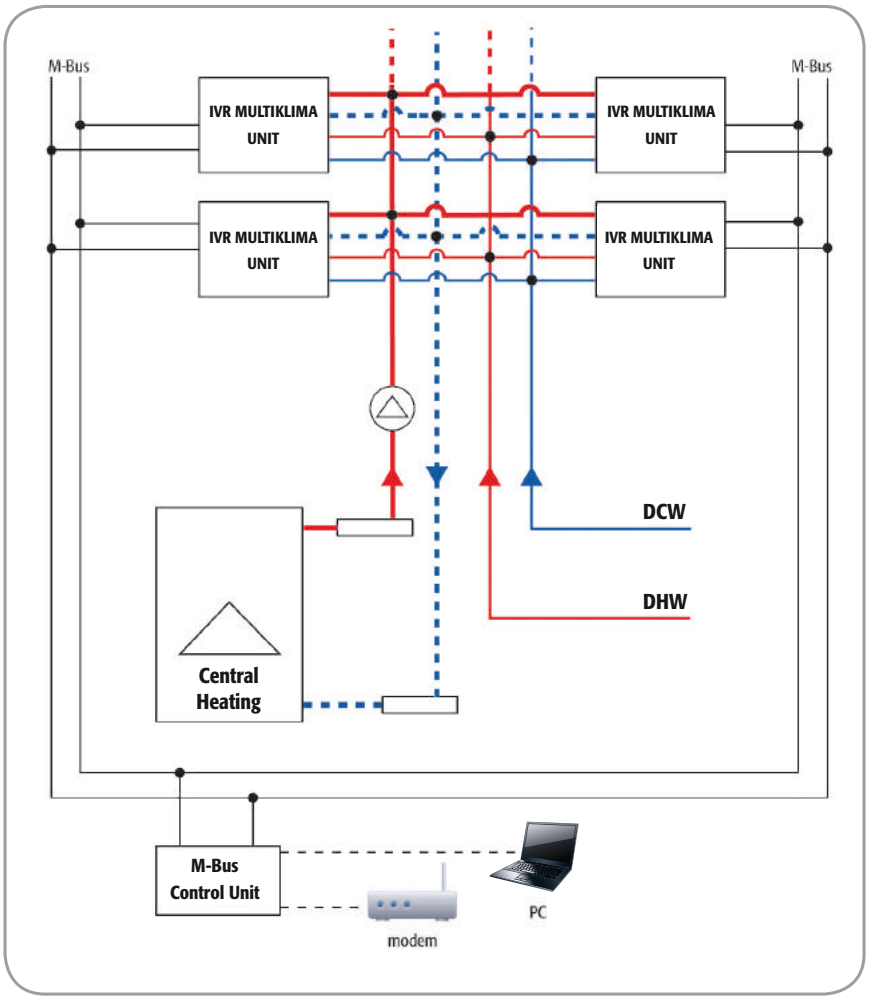
IVR 149700001
Modem

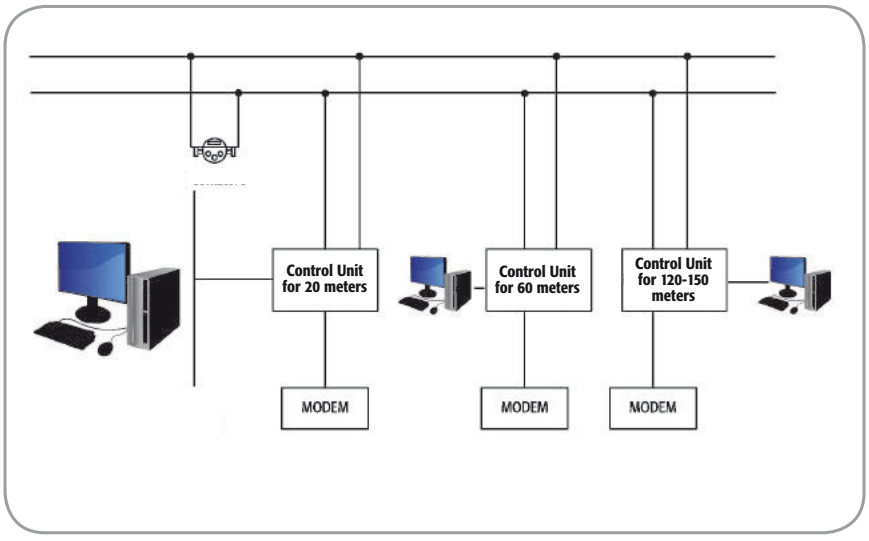
IVR 149800001
SOFTWARE DOKOM CS for management of data sourced from the control units connected to the meters by an M-Bus link

IVR 149800002
SOFTWARE MBSHEET Software for downloading data from the control units connected to the meters by an M-Bus link

IVR 149800003
SOFTWARE FService for the configuration of the Control units of the M-Bus data

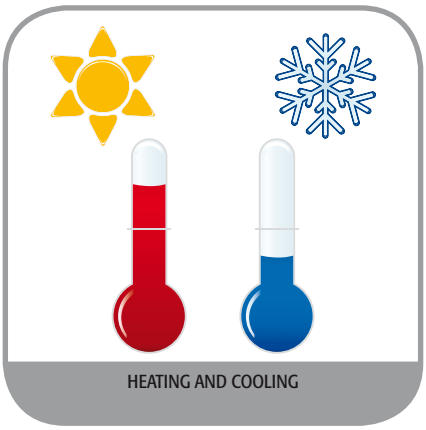
For the M-BUS version of the IVR MULTIKLIMA units the data can be collected directly from the user by installing a Control Unit that can be also connected to PC or a modem with a specific software.



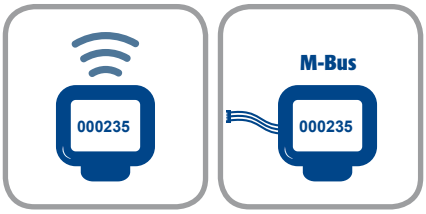


METERING DATA PROVIDED BY THE LOCAL TECHEM BRANCH

The Radio and M-Bus version of IVR MULTIKLIMA allow to access to the metering data services provided by the local Techem branch, where present. This service is part of an agreement between IVR and TECHEM.
These services consist in Techem to collect from the IVR MULTIKLIMA units installed all the consumption data and supply it to the building administrators according to the specific requests of each customer. The charts with the billing data for every single apartment will be sent once the customers subscribe to the service provided by the local TECHEM branch, the charts can be supplied in writing or in the digital version.



HEATING AND COOLING



READING AND CERTIFICATION OF DATA CONSUMPTION BY TECHEM

READING AND CERTIFICATION OF DATA CONSUMPTION BY USER OR BY TECHEM

ELABORATION AND PARTITION OF HEATING CONSUMPTION SUPPLIE D BE THE LOCAL TECHEM BRANCH

The steps to install the IVR MULTIKLIMA Metering Units for cost accounting and to activate the services available for individual users and condo administrators

IIVR SpA, a leader in the field of valves for heating systems, in collaboration with Techem Srl, leader in the field of metering and accounting, now offer their experience by providing a particularly advanced solution for heat energy cost accounting.

Once installed, the IVR MULTIKLIMA UNIT with Radio or M-Bus allows you to access to added value services in collaboration with Techem.

The services available are:

- Reading the seasonal consumption data (including possible periodic intermediate readings) by Techem staff without having to physically access to homes and buildings
- The integrity and accuracy of data is guaranteed by Techem
- Preparation of bills of consumption for each apartment / condo
- Individual consumption charges are sent to the end user along with the data

The partition of heating costs

The charge to the individual apartments for the costs of heating and cooling and hot water consumption is the sum of two factors:

- A fixed part, independent of the consumption recorded, is used to cover the costs of maintenance of the boiler, the costs of periodic audits of public bodies, the dissipation of heat in the common area piping and the electricity consumption. The fixed fee is determined by the building's internal regulation and varies from 20% to 40% of total cost of heating.
- A variable part resulting from proportional division among the dwellings according to the heat consumed and recorded on the heat meters included in the IVR MK units.

DCW expenses are normally split according to the metered data only.

Compact electronic heating meter, MID approved, complete with temperature sensor Pt 100, 8 figures display

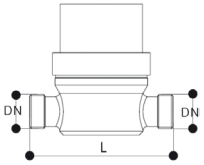
IVR 492

149200011	COMPACT V direct visual reading 3/4" Qn 1,5 L 110
149200021	COMPACT V direct visual reading 1" Qn 2,5 L 130

Compact electronic heating meter, MID approved, complete with temperature sensor Pt 100, 8 figures display, with integrated Radio interface

IVR 492

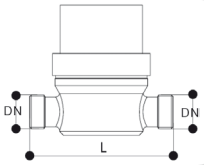
149200013	COMPACT V RADIO data transmission Dn 3/4" Qp 1,5 L 110
149200023	COMPACT V RADIO data transmission Dn 1" Qp 2,5 L 130



Compact electronic heating meter, MID approved, complete with temperature sensor Pt 100, 8 figures display, with integrated M-Bus interface

IVR 492

149200012	COMPACT IV S M-Bus data transmission Dn 3/4" Qp 1,5 L 110
149200022	COMPACT IV S M-Bus data transmission Dn 1" Qp 2,5 L 130



Compact electronic heating meter, MID approved, complete with temperature sensor Pt 100, 8 figures display, 2 registers for both heating and cooling

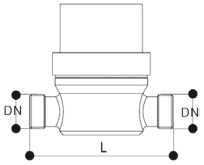
IVR 492

149200051	COMPACT V - KLIMA Dn 3/4" Qp 1,5 direct visual reading L 110
149200061	COMPACT V - KLIMA Dn 1" Qp 2,5 direct visual reading L 130

Compact electronic heating meter, MID approved, complete with temperature sensor Pt 100, 8 figures display, 2 registers both heating and cooling

IVR 492

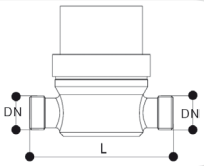
149200053	COMPACT V - KLIMA Dn 3/4" Qp 1,5 RADIO data transmission L 110
149200063	COMPACT V - KLIMA Dn 1" Qp 2,5 RADIO data transmission L 130



Compact electronic heating meter, MID approved, complete with temperature sensor Pt 100, 8 figures display, 2 registers both heating and cooling

IVR 492

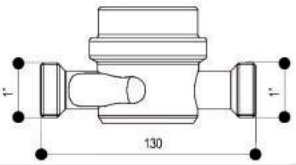
149200052	COMPACT - KLIMA IV S M-Bus data transmission Dn 3/4" Qp 1,5 L 110
149200062	COMPACT - KLIMA IV S M-Bus data transmission Dn 1" Qp 2,5 L 130



Volumetric DHW

IVR 491

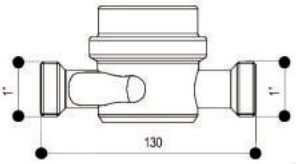
149100041	AP VARIO	Qn 2,5 Direct Visual reading 1"
149100042	AP MODULARIS	Qn 2,5 M-Bus data transmission 1"
149100043	AP DATA III	Qn 2,5 Radio data transmission 1"



Volumetric DHW

IVR 491

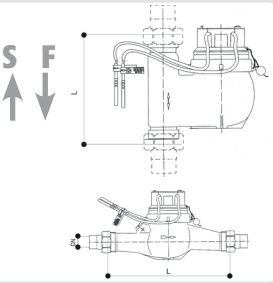
149100021	AP VARIO	Qn 2,5 Direct Visual reading 1"
149100022	AP MODULARIS	Qn 2,5 M-Bus data transmission 1"
149100023	AP DATA III	Qn 2,5 Radio data transmission 1"



Compact electronic heating meter with direct visual reading complete with temperature sensors Pt 100, 8 figures digit

IVR 493

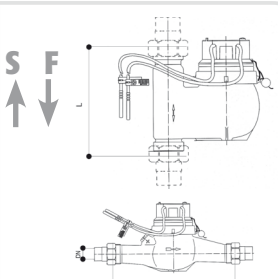
149300001	WZ COMPACT V	vario S	Qp 3,5	WZM	Dn 25 - L 260 mm Visual reading
149300002	WZ COMPACT V	vario S	Qp 6	WZM	Dn 25 - L 260 mm Visual reading
149300003	WZ COMPACT V	vario S	Qp 10	WZM	Dn 40 - L 300 mm Visual reading
149300011	WZ COMPACT V	vario S	Qp 3,5	WZM - S	Dn 25 - L 135 mm Visual reading
149300012	WZ COMPACT V	vario S	Qp 6	WZM - S	Dn 25 - L 135 mm Visual reading
149300013	WZ COMPACT V	vario S	Qp 10	WZM - S	Dn 40 - L 150 mm Visual reading
149300021	WZ COMPACT V	vario S	Qp 3,5	WZM - F	Dn 25 - L 135 mm Visual reading
149300022	WZ COMPACT V	vario S	Qp 6	WZM - F	Dn 25 - L 135 mm Visual reading
149300023	WZ COMPACT V	vario S	Qp 10	WZM - F	Dn 40 - L 150 mm Visual reading



Compact electronic heating meter with M-Bus data transmission complete with temperature sensors Pt 100, 8 figures digit and M-Bus integrated interface, includes battery with 10+2 years lifetime

IVR 493

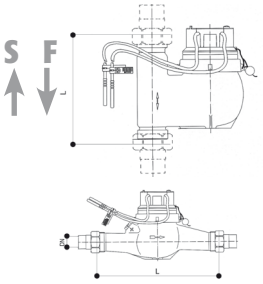
149300031	WZ COMPACT IV S	Qp 3,5	WZM	Dn 25 - L 260 mm	M-Bus
149300032	WZ COMPACT IV S	Qp 6	WZM	Dn 25 - L 260 mm	M-Bus
149300033	WZ COMPACT IV S	Qp 10	WZM	Dn 40 - L 300 mm	M-Bus
149300041	WZ COMPACT IV S	Qp 3,5	WZM - S	Dn 25 - L 135 mm	M-Bus
149300042	WZ COMPACT IV S	Qp 6	WZM - S	Dn 25 - L 135 mm	M-Bus
149300043	WZ COMPACT IV S	Qp 10	WZM - S	Dn 40 - L 150 mm	M-Bus
149300051	WZ COMPACT IVS	Qp 3,5	WZM - F	Dn 25 - L 135 mm	M-Bus
149300052	WZ COMPACT IV S	Qp 6	WZM - F	Dn 25 - L 135 mm	M-Bus
149300053	WZ COMPACT IV S	Qp 10	WZM - F	Dn 40 - L 150 mm	M-Bus



Compact electronic heating meter with Radio data transmission complete with temperature sensors Pt 100, 8 figures digit and integrated radio transmission interface

IVR 493

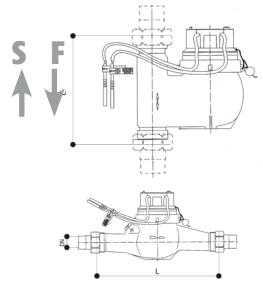
149300061	WZ COMPACT V	Qp 3,5	WZM	Dn 25 - L 260 mm	RADIO
149300062	WZ COMPACT V	Qp 6	WZM	Dn 25 - L 260 mm	RADIO
149300063	WZ COMPACT V	Qp 10	WZM	Dn 40 - L 300 mm	RADIO
149300071	WZ COMPACT V	Qp 3,5	WZM - S	Dn 25 - L 135 mm	RADIO
149300072	WZ COMPACT V	Qp 6	WZM - S	Dn 25 - L 135 mm	RADIO
149300073	WZ COMPACT V	Qp 10	WZM - S	Dn 40 - L 150 mm	RADIO
149300081	WZ COMPACT V	Qp 3,5	WZM - F	Dn 25 - L 135 mm	RADIO
149300082	WZ COMPACT V	Qp 6	WZM - F	Dn 25 - L 135 mm	RADIO
149300083	WZ COMPACT V	Qp 10	WZM - F	Dn 40 - L 150 mm	RADIO



Compact electronic heating meter with direct visual reading complete with temperature sensors Pt 100, 8 figures digit, 2 registers for heating and cooling

IVR 493

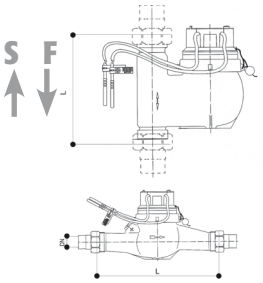
149300501	WZ COMPACT V vario S KLIMA	Qp 3,5	WZM	Dn 25 - L 260 mm	Vis.reading
149300502	WZ COMPACT V vario S KLIMA	Qp 6	WZM	Dn 25 - L 260 mm	Vis.reading
149300503	WZ COMPACT V vario S KLIMA	Qp 10	WZM	Dn 40 - L 300 mm	Vis.reading
149300511	WZ COMPACT V vario S KLIMA	Qp 3,5	WZM - S	Dn 25 - L 135 mm	Vis.reading
149300512	WZ COMPACT V vario S KLIMA	Qp 6	WZM - S	Dn 25 - L 135 mm	Vis.reading
149300513	WZ COMPACT V vario S KLIMA	Qp 10	WZM - S	Dn 40 - L 150 mm	Vis.reading
149300521	WZ COMPACT V vario S KLIMA	Qp 3,5	WZM - F	Dn 25 - L 135 mm	Vis.reading
149300522	WZ COMPACT V vario S KLIMA	Qp 6	WZM - F	Dn 25 - L 135 mm	Vis.reading
149300523	WZ COMPACT V vario S KLIMA	Qp 10	WZM - F	Dn 40 - L 150 mm	Vis.reading



Compact electronic heating meter with M-Bus data transmission complete with temperature sensors Pt 100, 8 figures digit and M-Bus integrated interface, 2 registers for heating and cooling, includes battery with 10+2 years lifetime

IVR 493

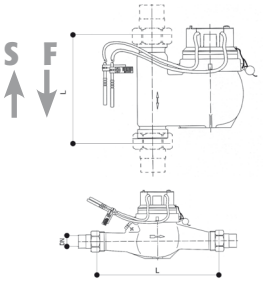
149300531	WZ COMPACT IV S	Qp 3,5	WZM	Dn 25 - L 260 mm	M-Bus
149300532	WZ COMPACT IV S	Qp 6	WZM	Dn 25 - L 260 mm	M-Bus
149300533	WZ COMPACT IV S	Qp 10	WZM	Dn 40 - L 300 mm	M-Bus
149300541	WZ COMPACT IV S	Qp 3,5	WZM - S	Dn 25 - L 135 mm	M-Bus
149300542	WZ COMPACT IV S	Qp 6	WZM - S	Dn 25 - L 135 mm	M-Bus
149300543	WZ COMPACT IV S	Qp 10	WZM - S	Dn 40 - L 150 mm	M-Bus
149300551	WZ COMPACT IV S	Qp 3,5	WZM - F	Dn 25 - L 135 mm	M-Bus
149300552	WZ COMPACT IV S	Qp 6	WZM - F	Dn 25 - L 135 mm	M-Bus
149300553	WZ COMPACT IV S	Qp 10	WZM - F	Dn 40 - L 150 mm	M-Bus



Compact electronic heating meter with Radio data transmission complete with temperature sensors Pt 100, 8 figures digit, 2 registers for cooling and heating and integrated radio transmission interface

IVR 493

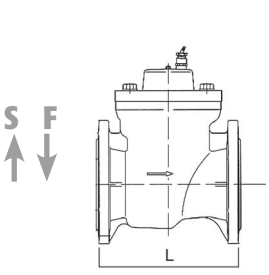
149300561	WZ COMPACT V KLIMA	Qp 3,5	WZM	Dn 25 - L 260 mm	RADIO
149300562	WZ COMPACT V KLIMA	Qp 6	WZM	Dn 25 - L 260 mm	RADIO
149300563	WZ COMPACT V KLIMA	Qp 10	WZM	Dn 40 - L 300 mm	RADIO
149300571	WZ COMPACT V KLIMA	Qp 3,5	WZM - S	Dn 25 - L 135 mm	RADIO
149300572	WZ COMPACT V KLIMA	Qp 6	WZM - S	Dn 25 - L 135 mm	RADIO
149300573	WZ COMPACT V KLIMA	Qp 10	WZM - S	Dn 40 - L 150 mm	RADIO
149300581	WZ COMPACT V KLIMA	Qp 3,5	WZM - F	Dn 25 - L 135 mm	RADIO
149300582	WZ COMPACT V KLIMA	Qp 6	WZM - F	Dn 25 - L 135 mm	RADIO
149300583	WZ COMPACT V KLIMA	Qp 10	WZM - F	Dn 40 - L 150 mm	RADIO



Volumetric heat meter, includes a volumetric unit WOLTMANN type, impulse interface, twin Sensor set Pt 100, data contol and Et visual display, volume and thermal leap, powered by long term battery.
Optional interfaces are available for Radio and M-Bus data transmission.

IVR 494

149420001	MEGASPLIT	WZM	da Qp	15	Dn 50	L. 270
149250001	MEGASPLIT	WZM	da Qp	25	Dn 65	L 300
149430001	MEGASPLIT	WZM	da Qp	40	Dn 80	L 300
149440001	MEGASPLIT	WZM	da Qp	60	Dn 100	L 360
149450001	MEGASPLIT	WZM S / F	da Qp	100	Dn 125	L 250
149460001	MEGASPLIT	WZM S / F	da Qp	150	Dn 150	L 300
149480001	MEGASPLIT	WZM S / F	da Qp	250	Dn 200	L 350



Set of connection pipes for MK units

IVR pipes

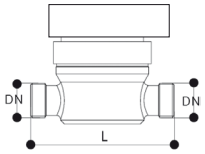
4A00000A14	Set of 4 connection pipes for DHS/DCW/ Heating line
4A00000A15	Set of 5 connection pipes for DHS/DCW/ Heating line / GW

Compact electronic heat meter, MID approved, complete with temperature sensor Pt 500 display a 8 digit
2 pulse connections (2 pulse meters for DHW/DCW)

IVR 492	149202011	G2 COMPACT 15 Qp 1,5 Dn 3/4" Direct visual reading L 110
	149202021	G2 COMPACT 25 Qp 2,5 Dn 1" Direct visual reading L 130

Compact electronic heat meter, MID approved, complete with temperature sensor Pt 500 display a 8 digit
2 pulse connections (2 pulse meters for DHW/DCW), M-BUS data transmission

IVR 492	149202012	G2 COMPACT 15 Qp 1,5 Dn 3/4" M-Bus data transmission L 110
	149202022	G2 COMPACT 25 Qp 2,5 Dn 1" M-Bus data transmission L 130

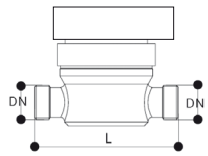


COM-KLIMA electronic heat meter, MID approved, complete with temperature sensor Pt 500 display a 8 digit
2 pulse connections (2 pulse meters for DHW/DCW) – automatic Switch calories / frigories

IVR 492	149202051	G2 COM-KLIMA 15 Qp 1,5 Dn 3/4" Direct visual reading L 110
	149202061	G2 COM-KLIMA 25 Qp 2,5 Dn 1" Direct visual reading L 130

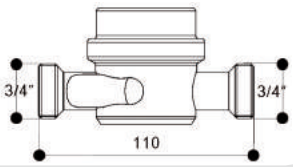
COM-KLIMA electronic heat meter, MID approved, complete with temperature sensor Pt 500 display a 8 digit
2 pulse connections (2 pulse meters for DHW/DCW) – automatic Switch calories / frigories - M-BUS data transmission

IVR 492	149202052	G2 COM-KLIMA 15 Qp 1,5 Dn 3/4" M-Bus data transmission L 110
	149202062	G2 COM-KLIMA 25 Qp 2,5 Dn 1" M-Bus data transmission L 130



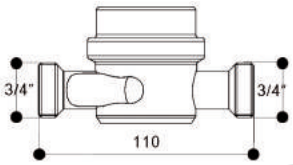
VOLUMETRIC METER FOR DHW

IVR 491	149102031	G2 SCUL/15 DHW Q3 2,5 Direct visual reading 3/4"
	149102032	G2 SCUL/15 DHW Q3 2,5 M-BUS data transmission 3/4"



VOLUMETRIC METER FOR DCW

IVR 491	149102011	G2 SFUL/15 DCW Q3 2,5 Direct visual reading 3/4"
	149102012	G2 SFUL/15 DCW Q3 2,5 M-BUS data transmission 3/4"



TWO PIECES FITTINGS (Techem / G2)

IVR 312	131205002	Two pieces fitting with flat seat 1/2" x 3/4"
	131207002	Two pieces fitting with flat seat 3/4" x 1"
	131210002	Two pieces fitting with flat seat 1" x 11/4"

T FITTING for G2 heat meter

IVR 495	149502100	T Fitting for G2 meters sensor connection 5mm 1/2"
	149502101	T Fitting for G2 meters sensor connection 5mm 3/4"
	149502102	T Fitting for G2 meters sensor connection 5mm 1"

T FITTING for Techem meters connection

IVR 429	142910707	3/4"x3/4" T Fitting with connection for sensor from Techem meters
	142911010	1"x1" T Fitting with connection for sensor from Techem meters

G2 VOLUME Meter for DHW/DCW, pulse output signal Reed type, rotary piston display, rotary counter

IVR 493	149302001	G2 CACML/25 Qp 3,5 DN 25
	149302002	G2 CACML/30 Qp 6 DN 30
	149302003	G2 CACML/40 Qp 10 DN 40
	149302004	G2 CACML/50 Qp 15 DN 50
	149302011	G2 CACML-VA/25 Qp 3,5 DN 25 VERTICAL UPSTREAM
	149302012	G2 CACML-VA/30 Qp 6 DN 30 VERTICAL UPSTREAM
	149302013	G2 CACML-VA/40 Qp 10 DN 40 VERTICAL UPSTREAM
	149302021	G2 CACML-VD/25 Qp 3,5 DN 25 VERTICAL UPSTREAM
	149302022	G2 CACML-VD/30 Qp 6 Dn 30 Vertical Downstream
	149302023	G2 CACML-VD/40 Qp 10 Dn 40 Vertical Downstream

G2 VOLUMETRIC HEAT METER WOLTMANN tyoe, pre-arranged for with a reed pulse-emitting device

IVR 494	149402201	G2 WELC DN 50 - Qp 15 L 200
	149402251	G2 WELC DN 65 - Qp 25 L 200
	149402301	G2 WELC DN 80 - Qp 40 L 225
	149402401	G2 WELC DN100 - Qp 60 L 250
	149402501	G2 WELC DN125 - Qp 100 L 250
	149402601	G2 WELC DN150 - Qp 150 L 300
	149402801	G2 WELC DN200 - Qp 250 L 350
	149402901	G2 WELC DN250 - Qp 400 L 450
	149402951	G2 WELC DN300 - Qp 600 L 500

IVR 494

149402981	G2 CONTROL FOR THERMAL ENERGY CALCULATION UC, complete with sensors PT500, display a 8 digit. Twin connections for meters DHW/DCW, pulse emitting device included for CACML / WELC meters
149402982	M-BUS output option – for CACML / WELC meters
149402983	KLIMA option - PTB – for CACML / WELC meters

IVR 495

149500034	TCH TWIN SET OF SENSOR CONNECTORS FOR IVR 494 34 mm - 1/2"
149500050	TCH TWIN SET OF SENSOR CONNECTORS FOR IVR 494 50 mm - 1/2"
149500085	TCH TWIN SET OF SENSOR CONNECTORS FOR IVR 494 85 mm - 1/2"
149500100	TCH TWIN SET OF SENSOR CONNECTORS FOR IVR 494 100 mm - 1/2"
149500120	TCH TWIN SET OF SENSOR CONNECTORS FOR IVR 494 120 mm - 1/2"
149502001	G2 TWIN SET OF CONNECTORS DN 65 FOR WELC / CACML
149502002	G2 TWIN SET OF CONNECTORS DN 80 - DN125 FOR WELC
149502003	G2 TWIN SET OF CONNECTORS DN150 - DN200 FOR WELC
149502004	G2 TWIN SET OF CONNECTORS DN250 - DN300 FOR WELC

IVR 495

149502050	G2 TWIN SET OF SENSORS PT500 5mm - 3mt FOR CACML / WELC
149502051	G2 TWIN SET OF SENSORS PT500 5mm - 10mt FOR CACML / WELC
149502060	G2 TWIN SET OF SENSORS PT500 6mm - 3mt FOR CACML / WELC
149502061	G2 TWIN SET OF SENSORS PT500 6mm - 10mt FOR CACML / WELC

IVR 335

335800105	M-Bus Signal Converter, 2 pulse connections, wall fix option, 0,23 Ah battery
335800106	M-Bus Signal Converter, 2 pulse connections, DIN type fixing, battery 0,23 Ah battery

IVR Covers

335800410	LEFT INSULATION COVER FOR HEATING/COOLING LINE
335800411	RIGHT INSULATION COVER FOR HEATING/COOLING LINE
1847A1012	INSULATION COVER FOR MANIFOLDS: 1" IVR 802, 803, 701, 702, 703
1847A1212	INSULATION COVER FOR MANIFOLDS: 1"1/4 IVR 802, 803, 701, 702, 703
335800420	INSULATION COVER FOR HYDRAULIC SEPARATOR IVR 330

IVR 823-4

182300101	Electrothermal head 230V NC m30x1,5
182300110	Electrothermal head 230V NO m30x1,5
182400101	Electrothermal head 24V NC m30x1,5
182400110	Electrothermal head 24V N0 m30x1,5

IVR Circulat.

335895331	CIRCULATOR SALMSON NYL 33-15 L130-1" *
335895332	CIRCULATOR SALMSON NYL 33-25 L130-1" 1/2 *
335895711	ELECTRONIC CIRCULATOR auto-adjusting variable speed WILO STRATOS-PICO L130-1"
335895712	ELECTRONIC CIRCULATOR auto-adjusting variable speed WILO STRATOS-PICO L130-1"1/2

* or alternative equivalent WILO model

IVR 496-7-8

149600250	Control unit for M-Bus transmission for 250 meters
149600120	Control unit for M-Bus transmission for 120 meters
149600060	Control unit for M-Bus transmission for 60 meters
149600020	Control unit for M-Bus transmission for 20 meters
149700001	MODEM
149800001	SOFTWARE DOKOM CS (version for 20, 60, 120 or 250 meters)
149800002	SOFTWARE MBSHEET
149800003	SOFTWARE FService

IVR 825

182500001	Room thermostat
182510501	Programmable room analogic /digital thermostat

IVR 900

190000001	Electronic temperature control unit with input and output sensor
190001001	External temperature sensor for control unit IVR 190001001
190002001	External humidity sensor for control unit IVR 19002001

Definition of IVR's cost allocation Kit for Radiators

When it isn't possible nor convenient to install IVR MULTIKLIMA METERING units, IVR suggests an alternative solution for cost allocation, IVR's cost allocation kit is a combination of the following items:

IVR Thermostatic Valve

Installed by the plumber

Limited thermal inertia in compliance with EN215 allows access to energy efficiency schemes and energy efficiency rating benefits.

Version with remote sensor

Accessories: extendable tail piece

IVR Lockshield

Installed by the plumber

Heat Cost Allocator* Radio data transmission

Installed by Techem technicians

In compliance with EN 834 and CE

The supply of Techem's Heat Cost Allocator includes the following services free of charge:

- **Configuration according to the heating element**
- **Installation of the Heat Cost Allocator**
- **Program setting**
- **Safety setting to avoid manumission**
- **Fixing to the heating element**

Version with remote sensor

* The Heat Cost Allocator **DOESN'T REQUIRE A CENTRAL DATA CONTROL DEVICE FOR DATA COLLECTION**

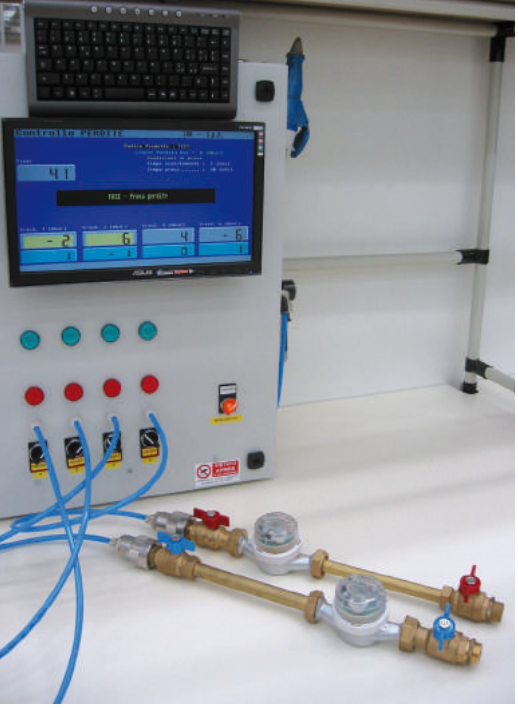
Services provided by Techem:

- Once the installation is terminated Techem will verify the correct functioning of each Heat Cost Allocator by taking out a testing inspection.
- At the end of the Heating season Techem will collect all the consumption data for each household and provide a complete chart necessary for the exact Heat cost consumption calculation for each household.

Additional services:

- If required Techem can collect data over shorter intervals in orders to monitor the Heat cost trend during the cold season.

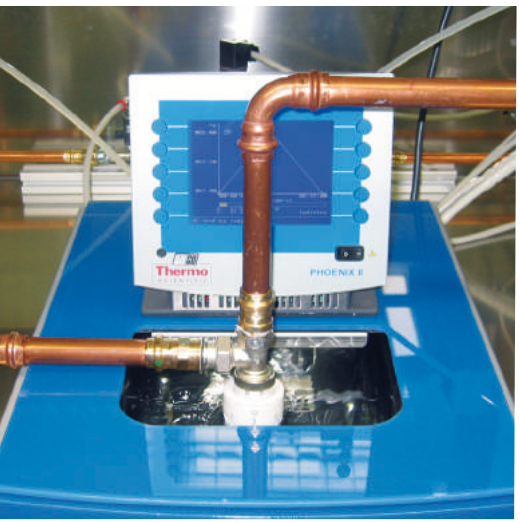
Note:



Assembly and inspection line for IVR MULTIKLIMA UNITS

IVR: A COMPANY IN CONSTANT EVOLUTION

Quality, service and innovation: these are the principles of IVR. The company was founded in 1973, years of hard work and continuous improvement have allowed IVR to gain trust and a reputation of reliability amongst the leading operators of the valve business across over 50 countries worldwide. IVR products have obtained approvals from over 30 certification bodies across the globe. Recognized globally as a top level ballvalve producer for water, gas and industrial applications for 30 years, recently new steps in the constant evolution process are being taken. In 2001 a brand new production plant has been built and investments in state of the art machinery have been made. The IVR R&D department, counting on its long and worthy experience, and following the requests from the marketing and sales, have planned and developed new ranges of products among which valves for heating systems, thermostatic valves, metering units and floor heating equipment. Research and Development become extremely important when the environment is concerned. An environment friendly approach is present at all levels of the production process, great attention is used in the choice of eco-friendly materials. The humane relationships are a main value for IVR; strongly motivated and team oriented people are what make IVR a successful company.



Performance inspection for Thermostatic heads

IVR®
The flow of your success

ICIM

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