Hydrothermal Systems

COMPARATO®

C

24·2025 Catalogue

Reliable by nature.

Excellence **MADE IN ITALY**

SINCE 1968

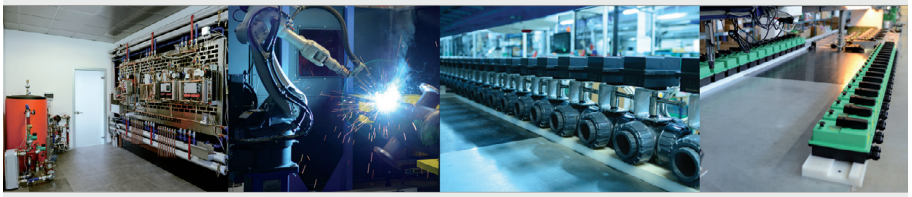
Gestione Qualita' Certificata ISO 9001 ANCCP

ON REQUEST

c UL us LISTED IND. CONT. EQ. 2TD8

RINA 1861

FACTORY



A modern layout designed to **maximise results in productivity, quality** and **logistics**, highly engineered to optimise internal flows, with well-defined and specialised areas according to the processes performed, and with the possibility for future major expansions of the production area.

A strongly implemented R&D department, with design in digital prototyping and 3D prototype printing with FDM technology directly in plastic. **Laboratories equipped with state-of-the-art testing and research systems**. We created environments that **encourage the exchange of ideas**, a necessary condition for **development, the growth of internal know-how** and the **creation of new products precursory of future needs**.

A new state-of-the-art site designed to join production and offices in a single industrial hub and ensure immediate communication; a new **logistics centre strategically located**, to store and ship finished products.

New test and inspection rooms (for individual products and prototypes); new painting plant; plasma cutting; new robotic welding island and automatic actuator assembling lines.
New pipe cutter and new packing line.

MISSION

Flow management and temperature control through **RELIABLE** and **LONG-LASTING** hydrothermal systems: we provide solutions according to the Customer's needs that stand out on the market for **TECHNOLOGY** and **INNOVATION** .

VISION

Simplification and improvement of everyday life in terms of **EFFICIENCY**, **ENERGY SAVING** and **SUSTAINABILITY**, a source of inspiration for new generations, a model of **MADE IN ITALY EXCELLENCE** and **QUALITY**.

OUR VALUES

Our work joins **PASSION** and **TECHNOLOGY**.

- Customer Orientation
- Research & Innovation
- Integrity and Transparency
- Sense of belonging
- Team working
- Sense of urgency and punctuality in delivery
- Effective and efficient results
- Focus on people
- Safety in the workplace
- Respect for the environment

OUR STATEMENT

"Reliable by nature." was born out of the desire to express **COMPARATO's** DNA and encapsulates a more than fifty-year-long history through which the company has always pursued product quality, in order to offer its partners the best solutions. This sentence also reflects the respect and care for the Nature that surrounds us, values that are now too neglected by a world in constant motion. This is why the image chosen by **COMPARATO** is reminiscent of **Mother Nature**: an elegant and refined woman, diving into today's world, where the search for domestic comfort needs to keep pace with **ECOSUSTAINABILITY** and **ENERGY SAVING**.

"Reliable by nature." is a concept born under the sign of innovation: **Mother Nature presents COMPARATO's products as the fruit sprouted from the tree of technology.**

ORIGINS and HISTORY

NELLO COMPARATO

1968

Nello Comparato founded Comparato Nello s.a.s. as the natural evolution of an accredited craft business, taking advantage of the recognition of an important industrial patent relating to "**DIASOL**".

1971

The success of "DIASOL" opens up space for **Motorised Zone Valves**, under the brand name DIT - HYDROTHERMAL DEVICES

DIASOL

1975

The company strengthened its industrial footprint by moving to Carcare. The production is integrated with "**CONTER ZONE BOXES**", which allow to split consumptions thanks to 'hour meters'.

1980

When Nello's sons **Roberto** and **Paolo** finally joined the company, they set up a management with a great team spirit, which principles are still those of the founder: **enthusiasm**, **determination** and **respect**.

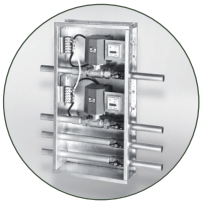
DIAMANT

1990

The staff growth gives the company a new shape and production expands into a **new factory**. Meanwhile, relations with **foreign markets** are being strengthened.

1998

Building on the experience gained thanks to the zone boxes, **COMPARATO** becomes one of the first companies to introduce "**Hydraulic Interface Units for direct metering**" to the market.



CONTER

2009

Relations with foreign markets are intensified by using **leading importers**.

2011

Headquarter and Production are united in a single industrial cluster with very high development potential, designed to maximise results in productivity, quality and logistics. That's how **Ferrania plant** was born. The new logistics gave rise to important strategic investments in the production departments: the **automatic assembly lines** for actuators and the **automatic welding islands** for power plant components.

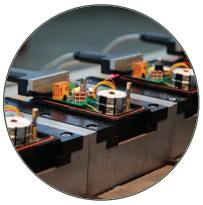
HEAD-QUARTER

2016

COMPARATO decided to direct its investments in **product engineering**, by shifting the focus to their **"smart" core**, intelligent solutions that match the new home automation trends to maximise domestic comfort.

2018

The entry of **Thomas**, Nello's nephew, allows the principles of experience and tradition to blend with **dynamism** and **innovation**, all united by the value of passion.



ASSEMBLY LINES

2022

Thanks to significant investments in innovation and technology, **COMPARATO** moved the management of motorised valves to the **CLOUD**, allowing the entry of its products in **IoT**.

TODAY

Today COMPARATO is facing new challenges with the same energy that has characterized it since its inception through solutions that anticipate market trends, utilizing new multimedia communication channels, and investing in the energy and digital transition with the goals of an industry strongly oriented towards automation and new production technologies to improve working conditions, create new business models, increase plant productivity, and improve product quality.

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MICRODIAM
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CLIMA PDC
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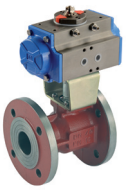

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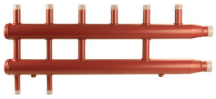

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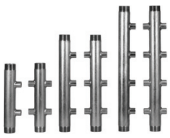

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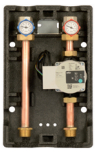

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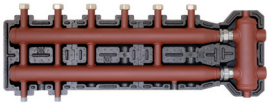

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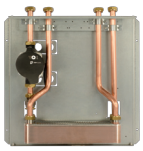

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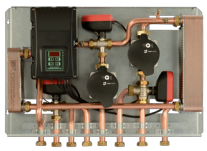

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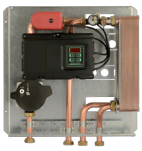

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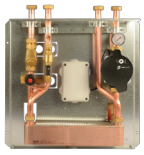

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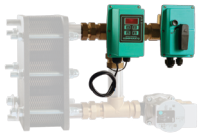

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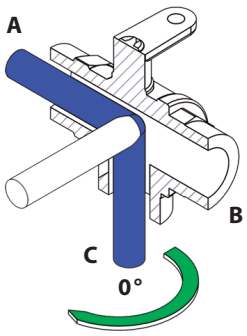
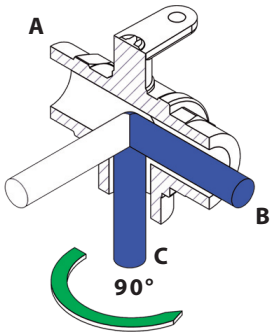
VERTICAL 3-WAY ball valve
3-HALL BALL: **MIXER / DIVERTER**

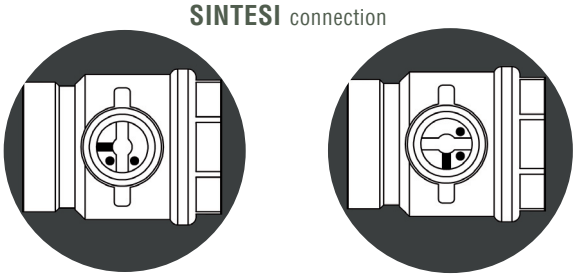
0° POSITION



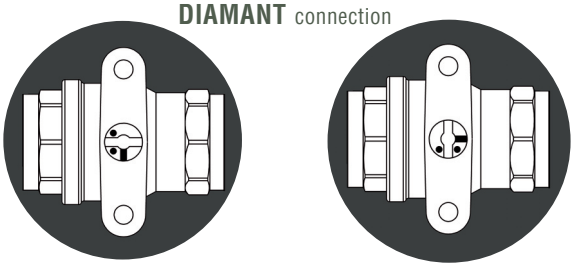
90° POSITION



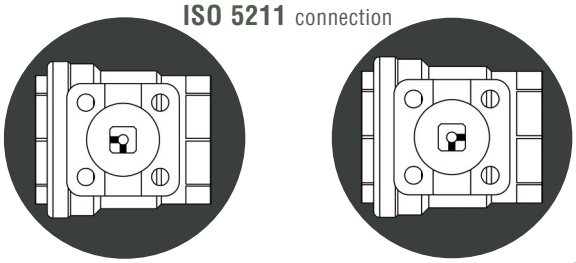
SINTESI connection



DIAMANT connection

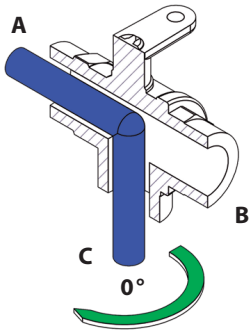


ISO 5211 connection

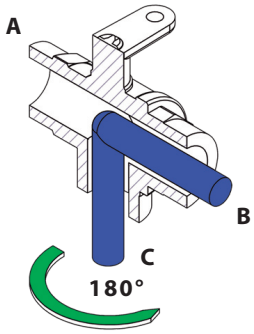


VERTICAL 3-WAY ball valve
2-HALL BALL: **DIVERTER**

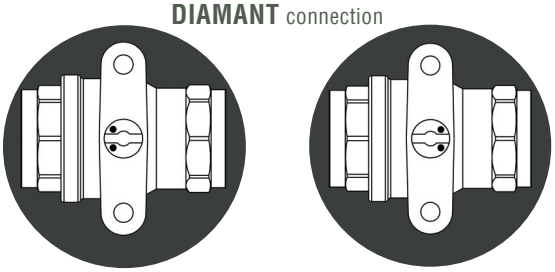
0° POSITION



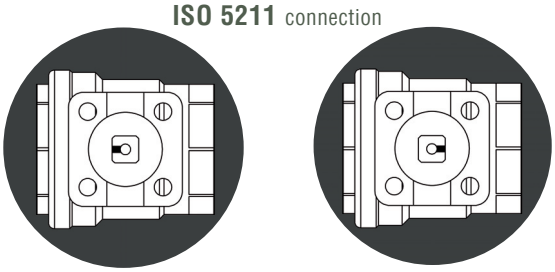
180° POSITION

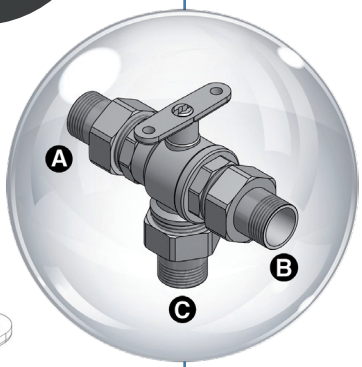


DIAMANT connection

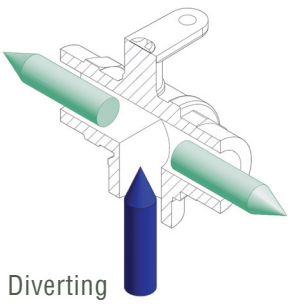


ISO 5211 connection

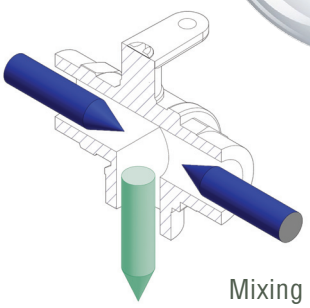




APPLICATION

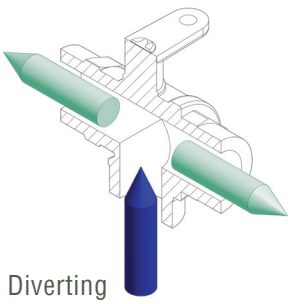


Diverting



Mixing

APPLICATION



Diverting

HORINZONTAL 3-WAY ball valve
“T”-PORT: DIVERTER

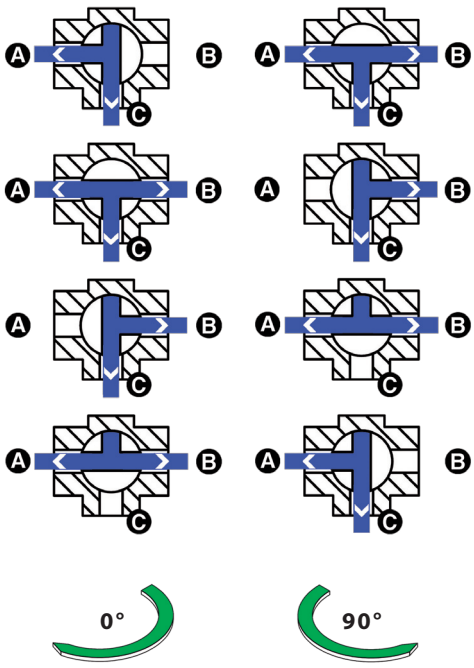
BALL POSITIONING

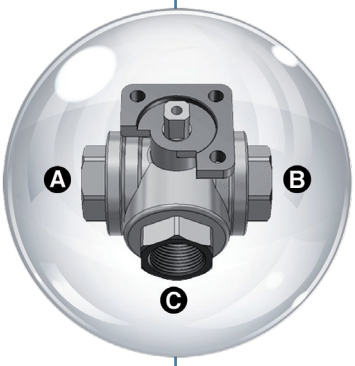
POSITION T1 - T4

POSITION T4 - T3

POSITION T3 - T2

POSITION T2 - T1

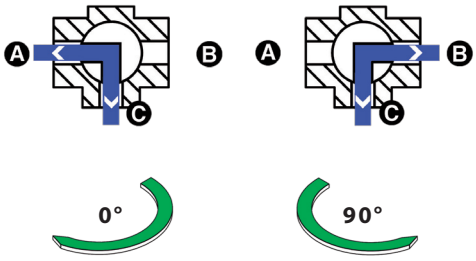




HORINZONTAL 3-WAY ball valve
“L”-PORT: DIVERTER

BALL POSITIONING

POSITION L1 - L2



Technical Information on Motorised Valves

You can find all technical information related to Motorised Valves, to Actuators and to ball valves on technical data sheets. These are available in both printed and electronic versions (you can download them from our website **www.comparato.com**).

Operating time [sec] time that is necessary to the actuator for the nominal rotation. The nominal rotation, both clock and anti-clockwise, can take place on 90° and 180° angles, according to actuator type.

Torque [Nm] torque for which the actuator can be used for continuous service.

DN [mm] nominal passage diameter of the valve.

PN [bar] valve nominal pressure. It corresponds to the maximum pressure value the valve can bear in the heaviest hydraulic functioning.

Δp max maximum differential pressure among valve ways in closing condition.

Kv_s coefficient water rate, expressed in m^3/h (from 10°C to 25°C with mass density equal to 1.000 kg/m3) that passes through two ways of the valve in complete opening with pressure drop 100 kPa (1 bar) Δp.

$$Kvs = \frac{Q}{\sqrt{\Delta p}}$$

where:
Q is the rate in m^3/h
Δp is the pressure drop in bar.

IP class protection the first figure indicates protection index against intrusion of solid objects and dusts while the second figure indicates the protection index against intrusion of liquid.

Level	Solid bodies	Liquids
IP44	Protected against solid bodies with dimensions superior to 1 mm	Protected against splashes of water from any direction
IP54	Complete protection against dust	Protected against splashes of water from any direction
IP65	Totally protected against dust	Protected against water jets form any direction
IP67	Totally protected against dust	Protected against temporary immersion
IP68	Totally protected against dust	Protected against continuous immersion

2-POINT electrical connection the actuator needs an electrical fixed supply on two wire for closing and a further electrical supply on the third wire for opening. The control device must be a "switch" one. The operation Is ON/OFF (fully open / fully closed). The actuator does not absorbe electrical supply at the end.

3-POINT electrical connection the actuator needs an electrical supply on first and second wire for closing and an electrical supply on first and third wire for opening. The control device can be both "modulating" (regulation and mixing) or "ON-OFF" (interception and diverting). The actuator does not absorbe electrical supply at the end.

"ALL IN ONE" patented system that allows you, thanks to a selector (Sintesi) or a Jumper, to set actuator electrical control from 2- to 3- point according to plant needs.

Diamix L Compamix L besides all the functions of standard version Diamix L or Compamix L, mixing / thermo-regulating valve has a specific software which allows the actuator to make autonomously all processes of thermal disinfection in plants with recirculation ring and, in this way, the danger of presence and **proliferation of legionella bacteria is noticeably reduced**. The multiple variables connected to the realization of plants where this equipment can be installed are so numerous that it is impossible to totally exclude the risk.

DIMMIX to assist in selecting **Diamix L / Compamix L** motorised mixing valves used in domestic hot water mixing systems, **the DIMMIX software is available for free on the website. It allows for the sizing of mixing/temperature control valves.**

Certificates all certificates for each family of actuators are available on our web site **www.comparato.com**

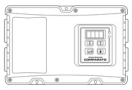
- CE 2006/42/EC Machinery Directive;
- CE 2014/35/UE Low voltage Directive;
- CE 2014/30/UE electro magnetic compatibility Directive.

HVAC MOTORISED BALL VALVES

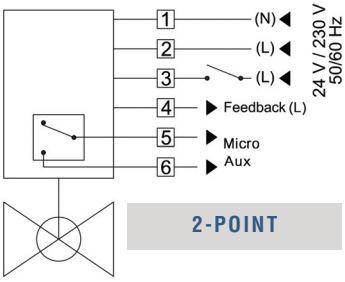
SINTESI

ALL IN ONE: 2-POINT • 3-POINT

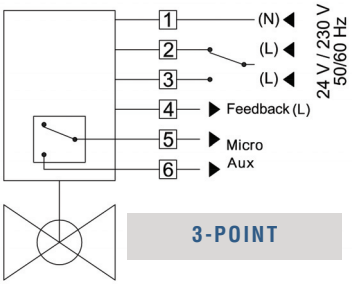
- **TORQUE:** 8 Nm (15 sec version: 5 Nm)
- **CLASS PROTECTION:** IP54
- ONE EXTRA MICRO-SWITCH FREE ON OPENING INCLUDED
- 110V ON REQUEST



Suitable for Control Units see p. 34

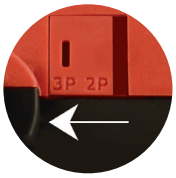


2-POINT

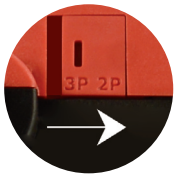


3-POINT

ALL IN ONE



select **3P** for **3-POINT**



select **2P** for **2-POINT**

Operating times **35 sec • 90°**

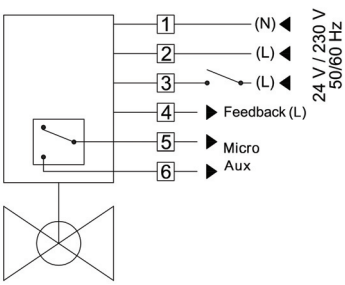
CODE	FOR BALL VALVE		POWER SUPPLY	
SY2221B	2- or 3-WAY • BY-PASS	90°	230V	50/60 Hz
SY2421B	2- or 3-WAY • BY-PASS	90°	24V	50/60 Hz

Operating times **15 sec • 90°**

CODE	FOR BALL VALVE		POWER SUPPLY	
SY2221BA	2- or 3-WAY • BY-PASS	90°	230V	50/60 Hz
SY2421BA	2- or 3-WAY • BY-PASS	90°	24V	50/60 Hz

2-POINT ON / OFF

- **TORQUE:** 8 Nm (15 sec version: 5 Nm)
- **CLASS PROTECTION:** IP54
- ONE EXTRA MICRO-SWITCH FREE ON OPENING INCLUDED
- 110V ON REQUEST



Operating times **45 sec • 90°**

CODE	FOR BALL VALVE		POWER SUPPLY	
SR2221U	2- or 3-WAY • BY-PASS	90°	230V	50/60 Hz
SR2421U	2- or 3-WAY • BY-PASS	90°	24V	50/60 Hz

Operating times **15 sec • 90°**

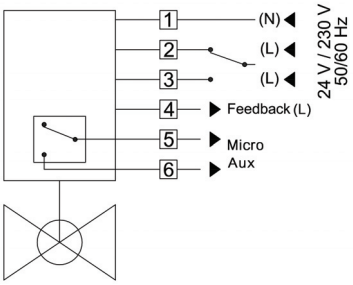
CODE	FOR BALL VALVE		POWER SUPPLY	
SR2221BA	2- or 3-WAY • BY-PASS	90°	230V	50/60 Hz
SR2421BA	2- or 3-WAY • BY-PASS	90°	24V	50/60 Hz

SINTESI

3-POINT MODULANTING

- **TORQUE:** 8 Nm (15 sec version: 5 Nm)
- **CLASS PROTECTION:** IP54
- ONE EXTRA MICRO-SWITCH FREE ON OPENING INCLUDED
- 110V ON REQUEST

Suitable for Control Units see p. 34



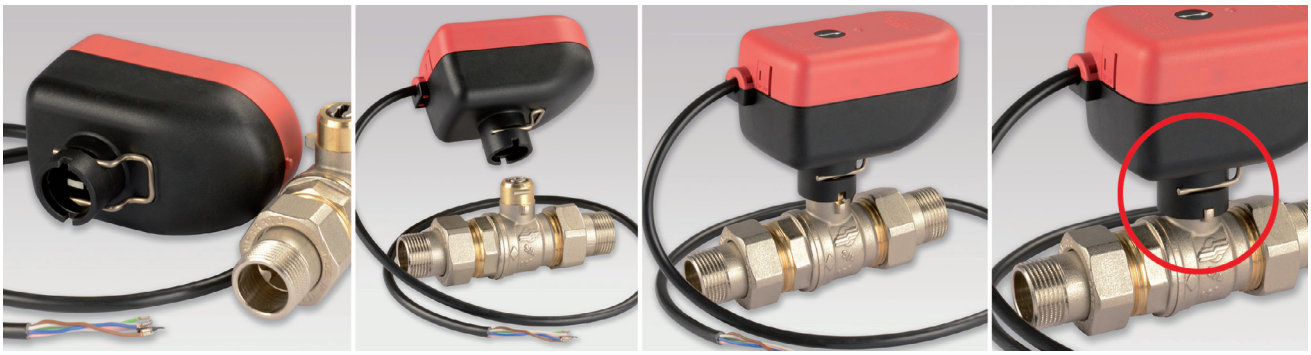
Operating times **35 sec • 90°**				
CODE	FOR BALL VALVE		POWER SUPPLY	
SS2221B	2- or 3-WAY • BY-PASS	90°	230V	50/60 Hz
SS2421B	2- or 3-WAY • BY-PASS	90°	24V	50/60 Hz

Operating times **15 sec • 90°**				
CODE	FOR BALL VALVE		POWER SUPPLY	
SS2221BA	2- or 3-WAY • BY-PASS	90°	230V	50/60 Hz
SS2421BA	2- or 3-WAY • BY-PASS	90°	24V	50/60 Hz

Operating times **120 sec • 90°**				
CODE	FOR BALL VALVE		POWER SUPPLY	
SS2221BC2	2- or 3-WAY • BY-PASS	90°	230V	50/60 Hz
SS2421BC2	2- or 3-WAY • BY-PASS	90°	24V	50/60 Hz

DETAIL OF SINTESI FAST PUSH CONNECTION

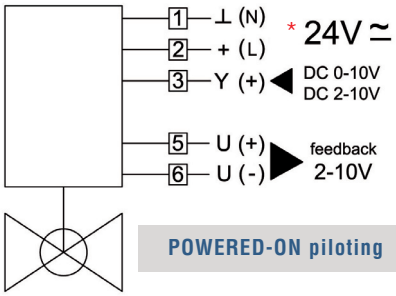
NO TOOL NEEDED, NO NEED TO REMOVE THE SPRING CLIP



SINTESI SMART

PROPORTIONAL CONTROL

- **TORQUE:** 8 Nm
- **CLASS PROTECTION:** IP54
- **POSITION FEEDBACK :** 2 ÷ 10V

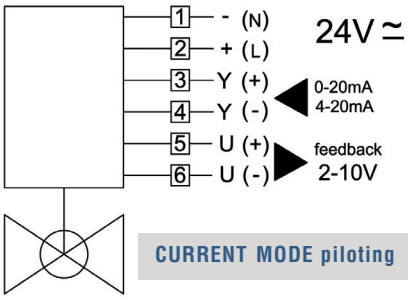


POWERED-ON piloting

* DC or AC power supply with single half-wave

CODE		POWER SUPPLY	CONTROL	OPERATING TIMES
SM4010F030	90°	24V AC / DC	0÷10V	30 sec
SM4010F060	90°	24V AC / DC	0÷10V	60 sec
SM4010F120	90°	24V AC / DC	0÷10V	120 sec
SM4210F030	90°	24V AC / DC	2÷10V	30 sec
SM4210F060	90°	24V AC / DC	2÷10V	60 sec
SM4210F120	90°	24V AC / DC	2÷10V	120 sec

For the 230V 50/60 Hz and double half-wave version, please contact our Technical Office.



CURRENT MODE piloting

CODE		POWER SUPPLY	CONTROL	OPERATING TIMES
SM4020T030	90°	24V AC / DC	0÷20mA	30 sec
SM4020T060	90°	24V AC / DC	0÷20mA	60 sec
SM4020T120	90°	24V AC / DC	0÷20mA	120 sec
SM4420T030	90°	24V AC / DC	4÷20mA	30 sec
SM4420T060	90°	24V AC / DC	4÷20mA	60 sec
SM4420T120	90°	24V AC / DC	4÷20mA	120 sec

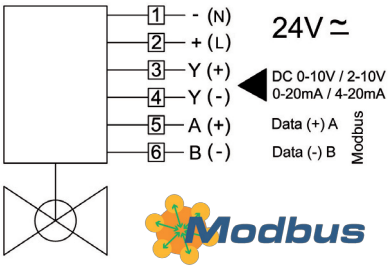
SINTESI SMART accessories • Current mode piloting

DESCRIPTION
For 100...240V 50/60 Hz power supply replace 4 with 2 in the code
e.g.: SM**4**420T030 becomes SM**2**420T030
For a 12V DC replace 4 with 5 in the code
e.g.: SM**4**420T060 becomes SM**5**420T060
NOT AVAILABLE FOR THE 30-SECOND VERSION

SINTESI SMART MODBUS

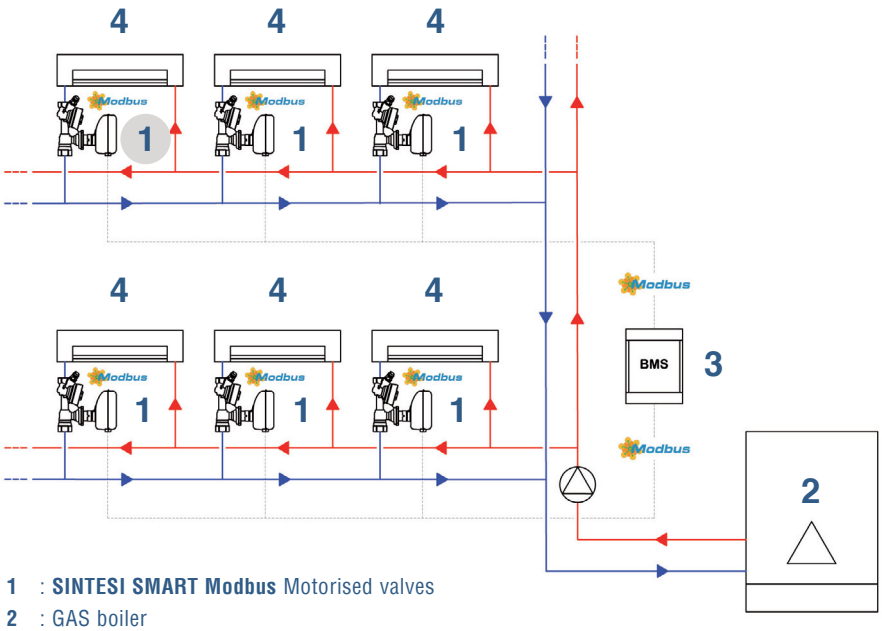
MODBUS COMMUNICATION

- **TORQUE:** 8 Nm
- **CLASS PROTECTION:** IP54
- **PROGRAMABLE OPERATING TIMES WITH MODBUS** (30 to 120s)
- **POSITION FEEDBACK:** Modbus



CODE		POWER SUPPLY	COMMUNICATION PROTOCOL	
SMMODBUS	90°	24V AC / DC	Modbus - RTU	

EXAMPLE OF USE: FANCOIL HEATING

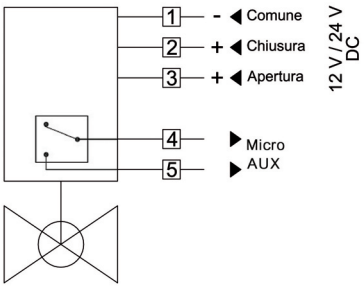


1 : **SINTESI SMART Modbus** Motorised valves
2 : GAS boiler
3 : BMS
4 : Fancoil

SINTESI DC

DIRECT CURRENT: 2-POINT • 3-POINT ON / OFF - FAST

- **TORQUE:** 8 Nm (3 sec version: 5 Nm)
- **CLASS PROTECTION:** IP54

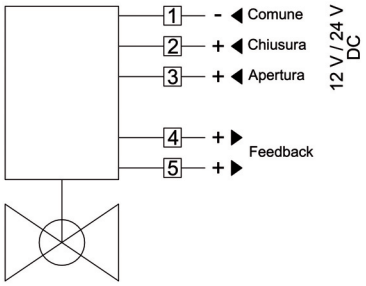


1 EXTRA MICRO-SWITCH free on opening

CODE	∠	POWER SUPPLY	OPERATING TIMES
SY2421DCT	90°	24V DC	3 sec
SY2421DCC	90°	24V DC	5 sec
SY2521DCT	90°	12V DC	3 sec
SY2521DCC	90°	12V DC	5 sec

DIRECT CURRENT: 2-POINT • 3-POINT ON / OFF

- **TORQUE:** 8 Nm
- **CLASS PROTECTION:** IP54



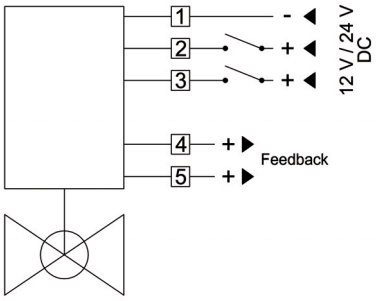
VOLTAGE FEEDBACK with open and closed valve

CODE	∠	POWER SUPPLY	OPERATING TIMES
SDC42T030	90°	24V DC	30 sec
SDC42T060	90°	24V DC	60 sec
SDC42T120	90°	24V DC	120 sec
SDC52T060	90°	12V DC	60 sec
SDC52T120	90°	12V DC	120 sec

SINTESI DC

DIRECT CURRENT: 3 POSITION

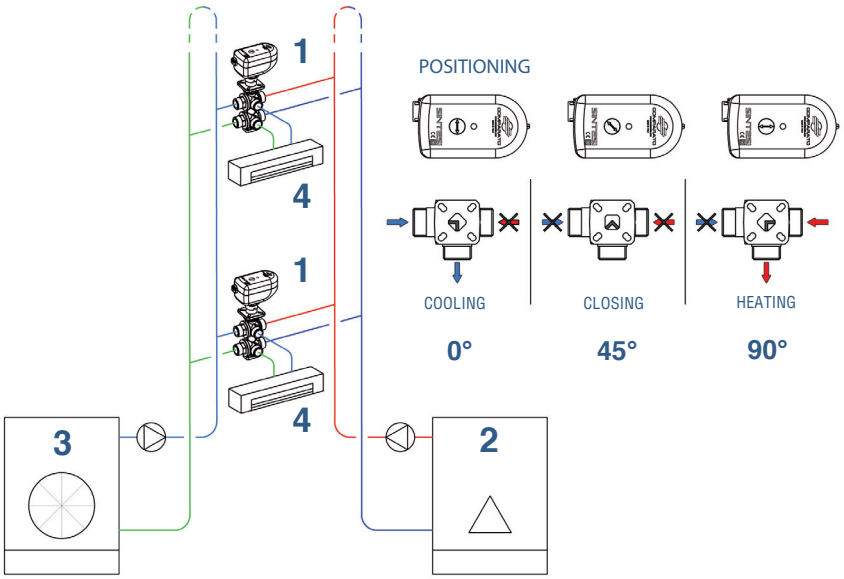
- **TORQUE:** 8 Nm
- **CLASS PROTECTION:** IP54



VOLTAGE FEEDBACK with open and closed valve

CODE		POWER SUPPLY	OPERATING TIMES
SDC43T030	0°- 45°- 90°	24V DC	30 sec
SDC43T060	0°- 45°- 90°	24V DC	60 sec
SDC43T120	0°- 45°- 90°	24V DC	120 sec
SDC53T060	0°- 45°- 90°	12V DC	60 sec
SDC53T120	0°- 45°- 90°	12V DC	120 sec

EXAMPLE OF USE: 4-PIPE SYSTEM



1 : SINTESI DC 6-WAY Motorised valve
2 : GAS boiler
3 : Chiller
4 : Fancoil

2-WAY MM, full bore

CODE	CONNECTION		DN	PN	Kv_s
SC2A2A	1/2"	90°	15	16	16,3
SC2B2A	3/4"	90°	20	16	29,5
SC2C2A	1"	90°	25	16	43

INSULATION AVAILABLE P.21

2-WAY MF, full bore

CODE	CONNECTION		DN	PN	Kv_s
SC2A2A9	1/2"	90°	15	16	16,3
SC2B2A9	3/4"	90°	20	16	29,5
SC2C2A9	1"	90°	25	16	43

90° ROTATION 3-HOLE BALL • 3-WAY MMM MIXING / DIVERTING, full bore

CODE	CONNECTION		DN	PN	Kv_s
SC3A3A	1/2"	90°	15	16	6
SC3B3A	3/4"	90°	20	16	11,5
SC3C3A	1"	90°	25	16	18,3

INSULATION AVAILABLE P.21
Ball positioning p.6

BY-PASS, full bore

CODE	CONNECTION		DN	PN	Kv_s
SC4A4A	1/2"	90°	15	16	16,3 / 0,8
SC4B4A	3/4"	90°	20	16	29,5 / 1,9
SC4C4A	1"	90°	25	16	43 / 2,9

TELESCOPIC BY-PASS: FLOW-RETURN SPAN 1/2" AND 3/4" 50÷60 mm • 1" 55÷60 mm
ON REQUEST: BALL VALVE AVAILABLE WITHOUT BY-PASS TEE

2-WAY MF square, full bore

CODE	CONNECTION		DN	PN	Kv_s
SC2B2A9L	3/4"	90°	20	16	11,5

2-WAY MM EQUAL PERCENTAGE, full bore

technical focus p. 18

REGULATING DISC

CODE	CONNECTION		DN	PN	Kv_S
SC2A2AK2	1/2"	90°	20	16	2,5
SC2A2AK4	1/2"	90°	20	16	4

ON REQUEST KV_S 1,0 / 1,6 / 6,3

INSULATION AVAILABLE P.21

"T"-PORT • 3-WAY MMM MIXING, full bore

MIXING

CODE	CONNECTION		DN	PN	Kv_S
SC3B3L	3/4"	90°	20	16	11,0

2-WAY MM, full bore

SOLAR THERMAL PLANTS

CODE	CONNECTION		DN	PN	Kv_S
SC2A2ASD1	1/2"	90°	15	16	16,3
SC2B2ASD1	3/4"	90°	20	16	29,5
SC2C2ASD1	1"	90°	25	16	43

Suitable for TEMPERATURE up to 160°C • Carbografite and silicone sealings

90° ROTATION 3-HOLE BALL • 3-WAY MMM MIXING / DIVERTING, full bore

SOLAR THERMAL PLANTS

CODE	CONNECTION		DN	PN	Kv_S
SC3A3ASD1	1/2"	90°	15	16	6
SC3B3ASD1	3/4"	90°	20	16	11,5
SC3C3ASD1	1"	90°	25	16	18,3

Suitable for TEMPERATURE up to 160°C • Carbografite and silicone sealings
Ball positioning p.6

2-WAY FF EQUAL PERCENTAGE • Regulating

REGULATING DISC

CODE + Kv_s	CONNECTION	DN	PN	Δp max
SC2ARKV _	1/2"	15	16	3,4 bar
SC2BRKV _	3/4"	20	16	3,4 bar
SC2CRKV _	1"	25	16	3,4 bar
SC2DRKV _	1"1/4	32	16	3,4 bar
SC2ERKV _	1"1/2	40	16	3,4 bar
SC2FRKV _	2"	50	16	3,4 bar

PLEASE ADD THE LETTER CORRESPONDING TO THE DESIRED KV_S AT THE END OF THE CODE

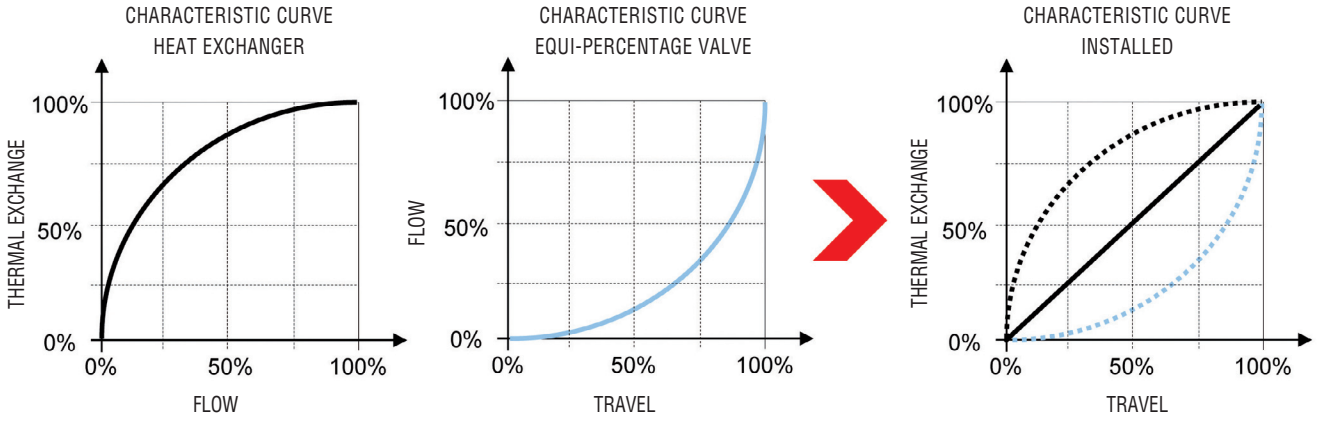
CODE EXAMPLE: SC2ARKV**A**

FOR THE BALL VALVE WITH NO REGULATION DISC CONTACT OUR OFFICES

AVAILABLE KV_S

	0,25	0,4	0,63	1	1,6	2,5	4	6,3	8,6	10	16	25	40
DN 15	A	B	C	D	E	F	G	H					
DN 20							G	H	I	J			
DN 25								H		J	K		
DN 32										J	K	L	
DN 40											K	L	
DN 50												L	M

EQUAL-PERCENTAGE CURVE TECHNICAL FOCUS



3-WAY FFF EQUAL PERCENTAGE • Regulating

REGULATING DISC

CODICE + Kv_s		CONNECTION	DN	PN	Δp max
SFERA **"T"**					
SC3ARKV	_	1/2"	15	16	3,4 bar
SC3BRKV	_	3/4"	20	16	3,4 bar
SC3CRKV	_	1"	25	16	3,4 bar
SC3DRKV	_	1"1/4	32	16	3,4 bar
SC3ERKV	_	1"1/2	40	16	3,4 bar
SC3FRKV	_	2"	50	16	3,4 bar

PLEASE ADD THE LETTER CORRESPONDING TO THE DESIRED KV_S AT THE END OF THE CODE

CODE EXAMPLE: SC3ARKV**A**

FOR THE BALL VALVE WITH NO REGULATION DISC CONTACT OUR OFFICES

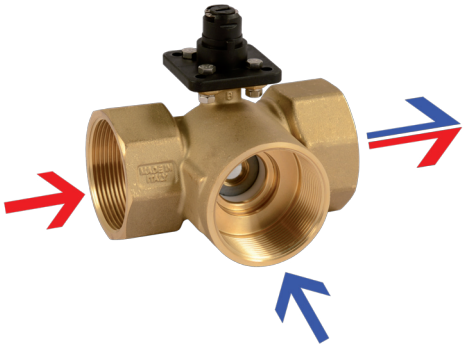
AVAILABLE KV_S

	0,25	0,4	0,63	1	1,6	2,5	4	6,3	10	16	25	40
DN 15	A	B	C	D	E	F	G	H				
DN 20							G	H	J			
DN 25								H	J	K		
DN 32									J	K	L	
DN 40										K	L	
DN 50											L	M

EQUAL-PERCENTAGE CURVE TECHNICAL FOCUS

In general, the heat exchange is described with a typically non-linear relationship between flow and exchanged heat. **COMPARATO ball valves**, with their equi-percentage characteristic obtained thanks to special regulating discs, allow to compensate the non-linearity and to obtain a characteristic curve installed, as shown here. It's easy to see that the stability of the adjustment is positively affected by the action of the constant-gain actuator.

OPERATION



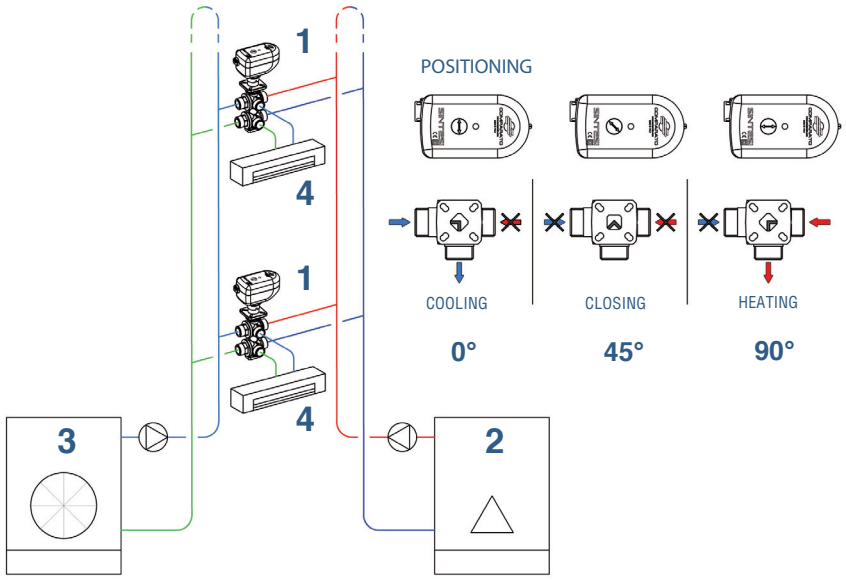
6-WAY • 4-pipe system

CODE	CONNECTION	DN	PN	Kv_s	
SC6A15F	1/2" F	15	16	1,25	*
SC6B15M	3/4" M	15	16	1,25	*
SC6B20F	3/4" F	20	16	2,8	*
SC6B20M	3/4" M	20	16	2,8	*

* KV max with no disc installed

Disc kit for Kv selection INCLUDED

EXAMPLE OF USE: 4-PIPE SYSTEM



1 : SINTESI DC 6-WAY Motorised valve
2 : GAS boiler
3 : Chiller
4 : Fancoil

Insulation 2-WAY • for ball valve p. 16

CODE	CONNECTION	DN	
CBSC2A2A	1/2"	15	
CBSC2B2A	3/4"	20	
CBSC2C2A	1"	25	

Insulation 3-WAY • for ball valve p. 16

CODE	CONNECTION	DN	
CBSC3A3A	1/2"	15	
CBSC3B3A	3/4"	20	
CBSC3C3A	1"	25	

Accessories

CONNECTION KIT ISO 5211

CODE	DESCRIPTION	
AIST01	Connection kit for ISO 5211 ball valve F03 - 9 and F05 - 11 • h 17 mm	

SPACER

CODE	DESCRIPTION	
DISN04	THERMAL BREAK spacer	

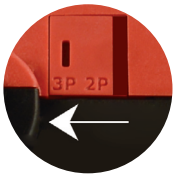
SINTESI ALL IN ONE

actuator ball valve

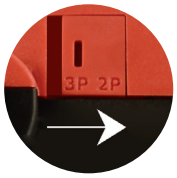
ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 35 sec 90°
- **CLASS PROTECTION:** IP54
- **POWER SUPPLY:** 230V • 50/60 Hz
- WITH 1 EXTRA MICRO-SWITCH FREE ON OPENING
- BALL VALVES WITH CAPS AND TANGS
- **INSULATION AVAILABLE P.21**

ALL IN ONE



select **3P** for **3-POINT**



select **2P** for **2-POINT**

2-WAY MM, full bore

CODE	CONNECTION	DN	PN	Kv_s	
SY2221A2AB	1/2"	15	16	16,3	
SY2221B2AB	3/4"	20	16	29,5	
SY2221C2AB	1"	25	16	43	

2-WAY MF, full bore

CODE	CONNECTION	DN	PN	Kv_s	
SY2221A2A9B	1/2"	15	16	16,3	
SY2221B2A9B	3/4"	20	16	29,5	
SY2221C2A9B	1"	25	16	43	

3-WAY MMM DIVERTING, full bore

CODE	CONNECTION	DN	PN	Kv_s	
SY2221A3AB	1/2"	15	16	6	
SY2221B3AB	3/4"	20	16	11,5	
SY2221C3AB	1"	25	16	18,3	

Ball positioning p.6

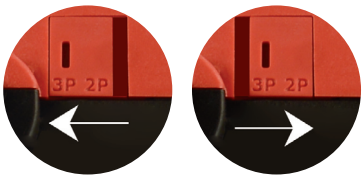
SINTESI ALL IN ONE

actuator ball valve

ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 35 sec 90°
- **CLASS PROTECTION:** IP54
- **POWER SUPPLY:** 230V • 50/60 Hz
- WITH 1 EXTRA MICRO-SWITCH FREE ON OPENING
- BALL VALVES WITH CAPS AND TANGS

ALL IN ONE



select **3P** for **3-POINT**

select **2P** for **2-POINT**

BY-PASS, full bore

CODE	CONNECTION	DN	PN	Kv_s	
SY2221A4AB	1/2"	15	16	16,3 / 0,8	
SY2221B4AB	3/4"	20	16	29,5 / 1,9	
SY2221C4AB	1"	25	16	43 / 2,9	

2-WAY MF square, full bore

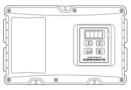
CODE	CONNECTION	DN	PN	Kv_s	
SY2221B2A9BL	3/4"	20	16	11,5	

Actuator

Diamant 2000 • COMPARATO connection

ALL IN ONE: 2-POINT • 3-POINT

- **TORQUE:** 11 Nm
- **OPERATING TIMES:** 35 SEC 90°
- **CLASS PROTECTION:** IP65



Suitable for
Control Units
see p. 34

ALL IN ONE JUMPER
for selecting 2-POINT or 3-POINT

CODE	FOR BALL VALVE		POWER SUPPLY	
DY222	2- or 3-WAY • BY-PASS	90°	230V	50/60 Hz
DY212	2- or 3-WAY • BY-PASS	90°	110V	50/60 Hz
DY242	2- or 3-WAY • BY-PASS	90°	24V	50/60 Hz
DY322	3 WAY	180°	230V	50/60 Hz
DY312	3 WAY	180°	110V	50/60 Hz
DY342	3 WAY	180°	24V	50/60 Hz

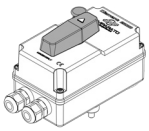
Accessories

Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: DY2221

EXTRA
MICRO-SWITCH

ID	DESCRIPTION
1	1 extra micro switch in opening position
2	2 extra micro switches in opening and closing position

MANUAL OVERRIDE



ID	DESCRIPTION
A	Manual override

35-second version available

OPERATING TIMES

ID	DESCRIPTION
Q	4 second version for 90° - 5 Nm - 50 Hz
D	12 second version for 90° - 11 Nm - 50 Hz
C8	106 second version for 90° - 11 Nm - 50/60 Hz
32	320 second version for 90° - 11 Nm - 50/60 Hz

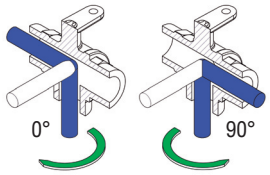
Manual emergency opening not available.
4 and 12 second versions, 60 Hz available on request.

Diamant 2000 · COMPARATO connection

2-WAY MM, full bore

CODE	CONNECTION		DN	PN	Kv_s
DC2A2A	1/2"	90°	15	16	16,3
DC2B2A	3/4"	90°	20	16	29,5
DC2C2A	1"	90°	25	16	43

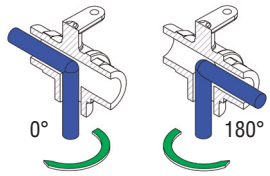
90° ROTATION 3-HOLE BALL • 3-WAY MMM MIXING / DIVERTING, full bore



CODE	CONNECTION		DN	PN	Kv_s
DC3B3A	3/4"	90°	20	16	11,5
DC3C3A	1"	90°	25	16	18,3

3-hole version to be combined with the **90°** version actuator

180° ROTATION 2-HOLE BALL • 3-WAY MMM DIVERTING, full bore



CODE	CONNECTION		DN	PN	Kv_s
DC3B2A	3/4"	180°	20	16	11,5
DC3C2A	1"	180°	25	16	18,3

2-hole version to be combined with the **180°** version actuator

BY-PASS, full bore

CODE	CONNECTION		DN	PN	Kv_s
STRAIGHT UNION tangs					
DC4B4A	3/4"	90°	20	16	29,5 / 1,9
DC4C4AST	1" *	90°	25	16	43 / 2,9
ECCENTRIC UNION tangs					
DC4B4A2	3/4"	90°	20	16	29,5 / 1,9

* without by-pass tee
STRAIGHT tangs: flow-return span 60mm
ECCENTRIC tangs: flow-return span 55÷70mm
On request: ball valve 3/4" available without by-pass tee

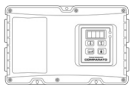
Diamant 2000 · COMPARATO connection

actuator ball valve

ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 35 sec 90°
- **CLASS PROTECTION:** IP65
- **POWER SUPPLY:** 230V • 50/60 Hz

- BALL VALVES WITH CAPS AND TANGS



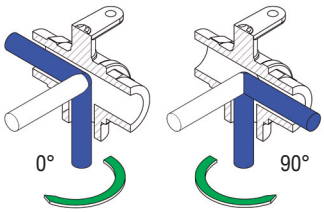
Suitable for Control Units see p. 34

2-WAY MM

CODE	CONNECTION	DN	PN	Kv_s
DY222A2A	1/2"	15	16	16,3
DY222B2A	3/4"	20	16	29,5
DY222C2A	1"	25	16	43

3-WAY MMM DIVERTING / MIXING

CODE	CONNECTION	DN	PN	Kv_s
3-HOLE 90° BALL				
DY222B3A	3/4"	20	16	11,5
DY222C3A	1"	25	16	18,3



BY-PASS

CODE	CONNECTION	DN	PN	Kv_s
STRAIGHT UNION tangs				
DY222B4A	3/4"	20	16	29,5 / 1,9
DY222C4A	1" *	25	16	43 / 2,9
ECCENTRIC UNION tangs				
DY222B4A2	3/4"	20	16	43 / 2,9

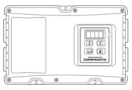
* without by-pass tee

STRAIGHT tangs: flow-return span 60mm
ECCENTRIC tangs: flow-return span 55÷70mm
On request: ball valve 3/4" available without by-pass tee
Not suitable for control units

Diamant 2000 ISO • ISO 5211 connection

ALL IN ONE: 2-POINT • 3-POINT

- **TORQUE:** 11 Nm
- **OPERATING TIMES:** 35 SEC 90°
- **CLASS PROTECTION:** IP65
- TO BE COUPLE TO ISO 5211
  F03 - F05 BALL VALVES □9 - □11



Suitable for Control Units see p. 34

ALL IN ONE JUMPER
for selecting 2-POINT or 3-POINT

CODE	FOR BALL VALVE		POWER SUPPLY	
DY222G	2- or 3-WAY • BY-PASS	90°	230V	50/60 Hz
DY212G	2- or 3-WAY • BY-PASS	90°	110V	50/60 Hz
DY242G	2- or 3-WAY • BY-PASS	90°	24V	50/60 Hz
DY322G	3 WAY	180°	230V	50/60 Hz
DY312G	3 WAY	180°	110V	50/60 Hz
DY342G	3 WAY	180°	24V	50/60 Hz

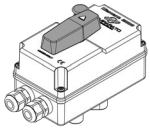
Accessories

Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: DY222G1

EXTRA MICRO-SWITCH

ID	DESCRIPTION
1	1 extra micro switch in opening position
2	2 extra micro switches in opening and closing position

MANUAL OVERRIDE



ID	DESCRIPTION
A	Manual override

35-second version available

OPERATING TIMES

ID	DESCRIPTION
Q	4 second version for 90° - 5 Nm - 50 Hz
D	12 second version for 90° - 11 Nm - 50 Hz
C8	106 second version for 90° - 11 Nm - 50/60 Hz
32	320 second version for 90° - 11 Nm - 50/60 Hz

Manual emergency opening not available.
4 and 12 second versions, 60 Hz available on request.

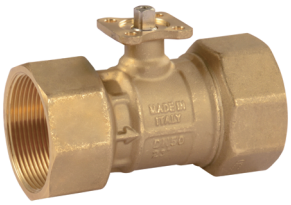
Diamant 2000 ISO · ISO 5211 connection

2-WAY FF, full bore

CODE	CONNECTION		DN	PN	Kv_s
DC2S2P5	1/4"	90°	-	40	5,4
DC2R2P5	3/8"	90°	10	40	6
DC2A2P5	1/2"	90°	15	40	16,3
DC2B2P5	3/4"	90°	20	40	29,5
DC2C2P5	1"	90°	25	40	43
DC2D2P5	1"1/4 *	90°	32	40	89

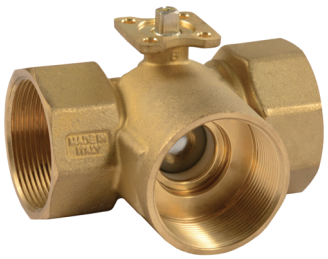
* maximum differential pressure 25 bar, for 40 bar please see Compact section
IT CANNOT BE MOTORISED WITH 4 SEC. ACTUATOR

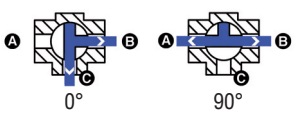
2-WAY FF, reduced bore

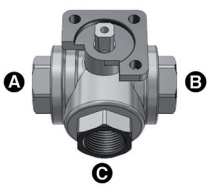


CODE	CONNECTION		DN	PN	Kv_s	Δp max
DC2A2R5	1/2"	90°	15	16	17	3,4 bar
DC2B2R5	3/4"	90°	20	16	10,5	3,4 bar
DC2C2R5	1"	90°	25	16	18,7	3,4 bar
DC2D2R5	1"1/4	90°	32	16	27,9	3,4 bar
DC2E2R5	1"1/2	90°	40	16	25	3,4 bar
DC2F2R5	2"	90°	50	16	42,5	3,4 bar

3-WAY FFF, MIXING / DIVERTING, reduced bore





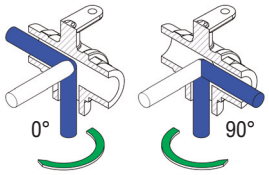


CODE	CONNECTION		DN	PN	Kv_s	Δp max
DC3A3R5	1/2"	90°	15	16	6	3,4 bar
DC3B3R5	3/4"	90°	20	16	4,8	3,4 bar
DC3C3R5	1"	90°	25	16	8,6	3,4 bar
DC3D3R5	1"1/4	90°	32	16	12,8	3,4 bar
DC3E3R5	1"1/2	90°	40	16	11,5	3,4 bar
DC3F3R5	2"	90°	50	16	19,5	3,4 bar

• **To receive the motorized valve pre-assembled, the assembly cost is € 8.00 each, or € 14.00 each with the spacer**
• Please always quote our part number on the order • Technical data sheets are available on the web site **www.comparato.com**

Diamant 2000 ISO • ISO 5211 connection

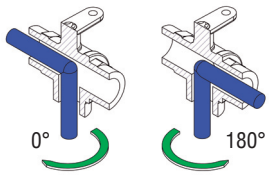
90° ROTATION 3-HOLE BALL • 3-WAY MMM MIXING / DIVERTING, full bore



CODE	CONNECTION		DN	PN	Kv_s
DC3A3E5	1/2"	90°	15	25	6
DC3B3E5	3/4"	90°	20	16	11,5
DC3C3E5	1" *	90°	25	16	18,3

* maximum differential pressure 10 bar, for 16 bar please see Compact section
IT CANNOT BE MOTORISED WITH 4 SEC. ACTUATOR

180° ROTATION 2-HOLE BALL • 3-WAY MMM DIVERTING, full bore

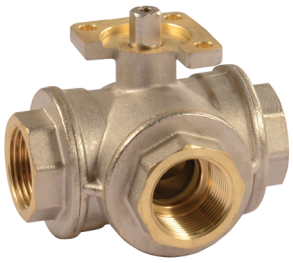


CODE	CONNECTION		DN	PN	Kv_s
DC3A2E5	1/2"	180°	15	25	6
DC3B2E5	3/4"	180°	20	16	11,5
DC3C2E5	1" *	180°	25	16	18,3

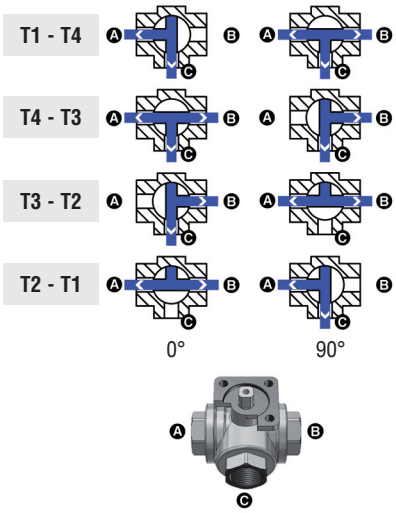
* maximum differential pressure 10 bar, for 16 bar please see Compact section
IT CANNOT BE MOTORISED WITH 4 SEC. ACTUATOR

Diamant 2000 ISO • ISO 5211 connection

"T"-PORT • 3-WAY FFF DIVERTING, full bore



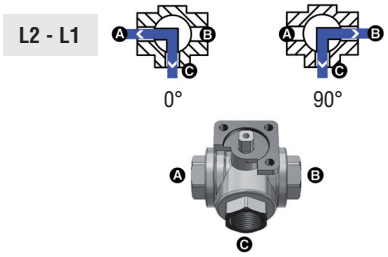
BALL POSITIONING



CODE	CONNECTION		DN	PN	Kv_s
DC3S6E5	1/4"	90°	-	30	2,8
DC3R6E5	3/8"	90°	10	30	3
DC3A6E5	1/2"	90°	15	30	3,9
DC3B6E5	3/4" *	90°	20	30	7,9

* maximum differential pressure 16 bar, for 30 bar please see Compact section
IT CANNOT BE MOTORISED WITH 4 SEC. ACTUATOR

"L"-PORT • 3-WAY FFF DIVERTING, full bore



CODE	CONNECTION		DN	PN	Kv_s
DC3S5E5	1/4"	90°	-	30	2,8
DC3R5E5	3/8"	90°	10	30	3
DC3A5E5	1/2"	90°	15	30	3,9
DC3B5E5	3/4" *	90°	20	30	7,9

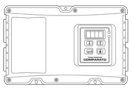
* maximum differential pressure 16 bar, for 30 bar please see Compact section
IT CANNOT BE MOTORISED WITH 4 SEC. ACTUATOR

• **To receive the motorized valve pre-assembled, the assembly cost is € 8.00 each, or € 14.00 each with the spacer**
• Please always quote our part number on the order • Technical data sheets are available on the web site **www.comparato.com**

Microdiam

2-POINT or 3-POINT actuator

- **TORQUE:** 5 Nm
- **OPERATING TIMES:** 48 SEC 90°
- **CLASS PROTECTION:** IP44
- FOR MANIFOLDS with INTERAXIS 50mm



Suitable for Control Units see p. 34

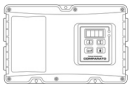
CODE	FOR BALL VALVE		POWER SUPPLY	
2-POINT				
MR222N	2 WAY	90°	230V 50/60 Hz	
MR242N	2 WAY	90°	24V 50/60 Hz	
3-POINT				
MS222N	2 WAY	90°	230V 50/60 Hz	
MS242N	2 WAY	90°	24V 50/60 Hz	

2-WAY ball valve MF, with cap and tang, full bore

CODE	CONNECTION	DN	PN	Kv_s	
MC2A2DN	1/2"	15	16	16,3	
MC2B2DN	3/4"	20	16	29,5	

2-POINT ON / OFF Motorised valve, 2-WAY MF, with cap and tang, full bore

- **OPERATING TIMES:** 48 SEC 90°
- **CLASS PROTECTION:** IP44
- **POWER SUPPLY:** 230V • 50/60 Hz
- FOR MANIFOLDS with INTERAXIS 50mm



Suitable for Control Units see p. 34

CODE	CONNECTION	DN	PN	Kv_s	
MR222A2DN	1/2"	15	16	16,3	
MR222B2DN	3/4"	20	16	29,5	

Accessori

Add the numbers and/or letters listed in the "**ID**" column corresponding to the selected accessories at the end of the base model code. Code example: MR222A2DN**1**

EXTRA MICRO-SWITCH

ID	DESCRIPTION	
1	1 extra micro switch in opening position	

Automatic switching between HP and boiler

Clima PDC

3-WAY DIVERTING

- **CLASS PROTECTION:** IP67
- **POWER SUPPLY:** 230V 50/60 Hz
- **110V VERSION AVAILABLE ON REQUEST**
- **BUILT-IN ELECTRONICS**

FUNCTIONS:

- Automatic switching between HP and boiler according to outdoor temperature
- Control of the diverting valve to the DHW heater
- Data storage of the working time of HP and boiler
- Modbus-RTU protocol for remote management
- Comparato PDCtool software for the communication between PC and Motorised valve

CODE	CONNECTION	Kv_s	DN	PN	Δp max	
MMM						
CLIMAPCDCB	3/4"	11,5	20	16	16	bar
CLIMAPCDCC	1"	18,3	25	16	16	bar
FFF						
CLIMAPCDFA	1/2"	6	15	25	25	bar
CLIMAPCDFB	3/4"	11,5	20	16	16	bar
CLIMAPCDFC	1"	18,3	25	16	16	bar
CLIMAPCCFD	1"1/4	27,2	32	10	10	bar
CLIMAPCCFE	1"1/2	47,3	40	10	6	bar
CLIMAPCCFF	2"	73	50	10	4	bar

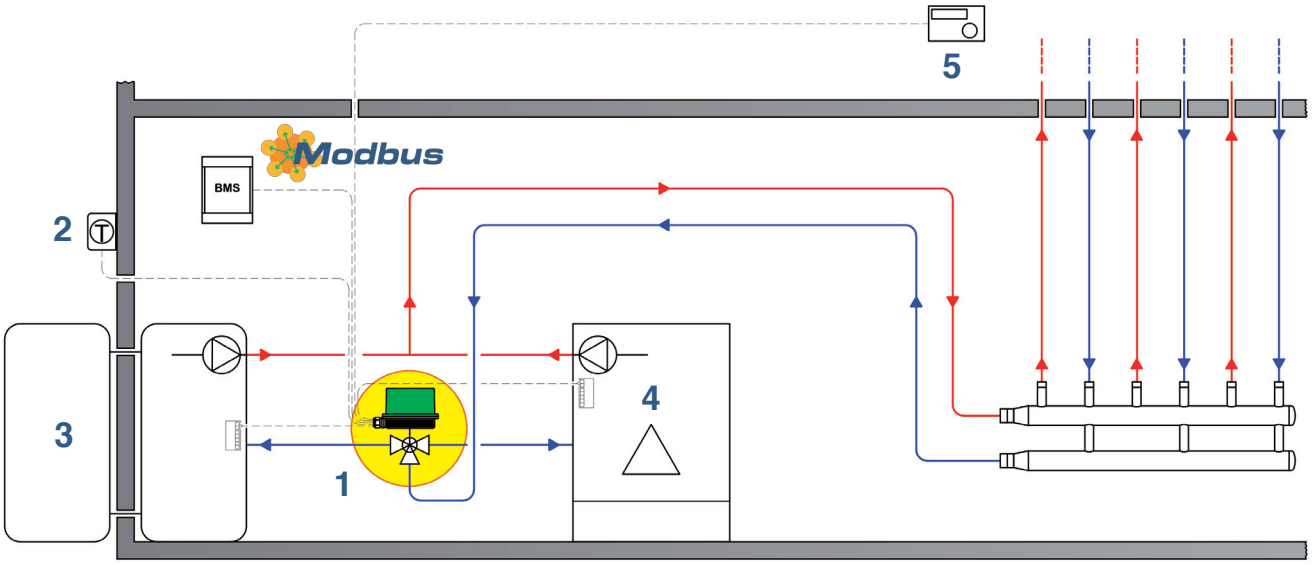
Accessori

Add the numbers and/or letters listed in the **"ID"** column corresponding to the selected accessories at the end of the base model code. Code example: CLIMAPCDCB**K**

ID	DESCRIPTION		NOTES
K	Brass immersion temperature probe		G 1/8" - pocket not included
04	24V 50-60 Hz version		
D1	Spacer for insulation		up to 1" starting from 1"1/4
D2	Spacer for insulation and manual override		up to 1" starting from 1"1/4

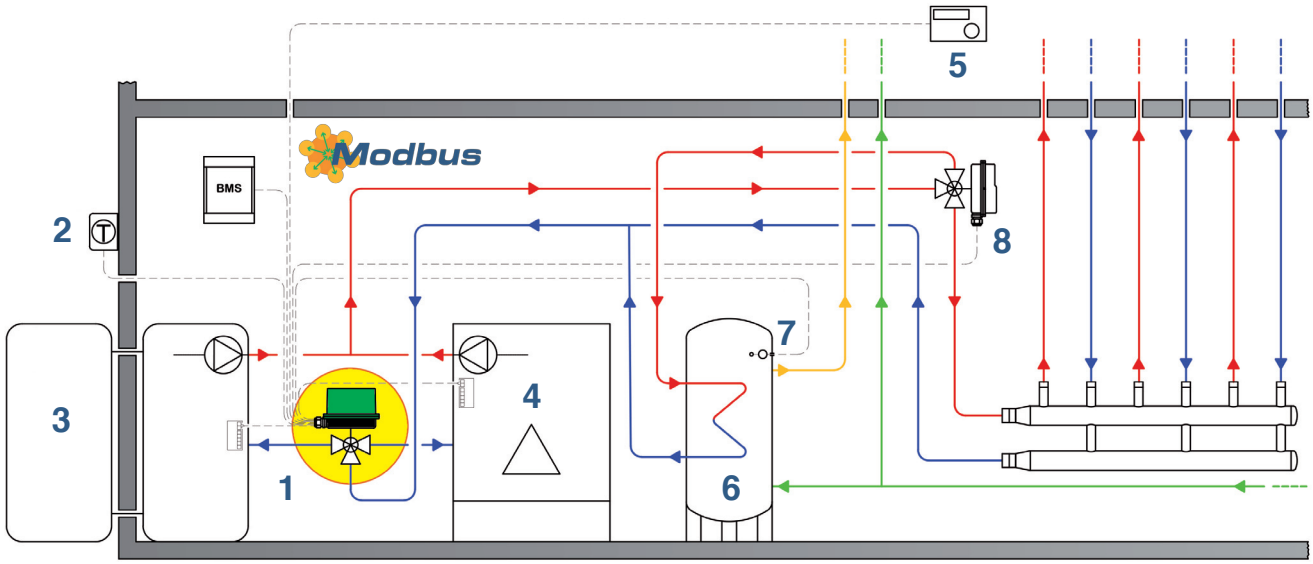
CODE	DESCRIPTION	
USBMOD	Modbus - USB interface	

EXAMPLE OF USE: HEAT PUMP / BOILER SWITCHING



1 : **CLIMA PDC**
2 : Outdoor temperature probe
3 : Heat pump
4 : Boiler
5 : Room thermostat

EXAMPLE OF USE: DIVERTING VALVE CONTROL FOR DHW BOILER



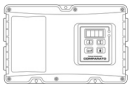
1 : **CLIMA PDC**
2 : Outdoor temperature probe
3 : Heat pump
4 : Boiler
5 : Room thermostat
6 : DHW heater
7 : DHW heater's temperature probe
8 : Diverting actuated valve

Regulation control units

high / medium temperature low temperature

PID electronic controlled temperature regulators for 3-POINT MODULATING motorised valves with Modbus-RTU remote management

REGULATORS CAN BE MATCHED WITH ALL COMPARATO MOTORISED VALVES WITH MODULATING 3-POINT CONTROL AND 230V POWER SUPPLY - MARKED WITH THE FOLLOWING SYMBOLS:



Suitable for Control Units see p. 34

Temperature probe included

FUNCTIONS:

- Fixed-point temperature control
- Temperature control with weather compensation function for high/medium temperature systems
- Fixed-point temperature control with remote setpoint setting (0-10V)

CODE
CPSMB0

FUNCTIONS:

- Temperature control for RADIANT PANELS
- Fixed-point or weather compensation heating
- Fixed-point or dew point tracking cooling
- Summer / winter switching
- Control of the indoor dehumidification system

CODE
CPRMB0

Accessories

Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: CPSMB0**K**

ID	DESCRIPTION
K	Brass immersion temperature probe (G 1/8" - pocket not included)

CODE	DESCRIPTION
RFSONDAE	External temperature probe for weather compensation

FOR CODE **CPRMB0**

CODE	DESCRIPTION
RFTRUEE10	Temperature and humity probe for anti-condensing function

HVAC • INDUSTRIAL field
Motorised valves

Diamant PRO · COMPARATO connection

ALL IN ONE: 2-POINT • 3-POINT

- **TORQUE:** 11 Nm
- **OPERATING TIMES:** 35 SEC 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES

Suitable for Control Units see p. 34

ALL IN ONE JUMPER
for selecting 2-POINT or 3-POINT

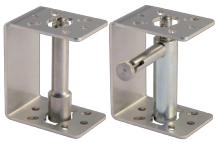
CODE	FOR BALL VALVE		POWER SUPPLY	
DY222P2	2- or 3-WAY	90°	230V	50/60 Hz
DY212P2	2- or 3-WAY	90°	110V	50/60 Hz
DY242P2	2- or 3-WAY	90°	24V	50/60 Hz
DY322P2	3 WAY	180°	230V	50/60 Hz
DY312P2	3 WAY	180°	110V	50/60 Hz
DY342P2	3 WAY	180°	24V	50/60 Hz

COMPARATO connection
ADSTD1 ADSTD2

COMPARATO connection

COMPARATO connection

DIDM01 DIDM02



ISO F03/F04/F05 connection

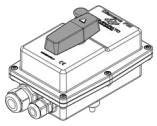
CODE	DESCRIPTION
ADSTD1	COMPARATO • COMPARATO spacer
ADSTD2 *	COMPARATO • COMPARATO spacer with manual override
DIDM01	COMPARATO • ISO 5211 spacer
DIDM02 *	COMPARATO • ISO 5211 spacer with opening lever

* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

Accessories

Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: DY222P2**A**

MANUAL OVERRIDE



ID	DESCRIPTION
A	Emergency manual override

35-second version available

OPERATING TIMES

ID	DESCRIPTION
Q	4 second version for 90° - 5 Nm - 50 Hz
D	12 second version for 90° - 11 Nm - 50 Hz
C8	106 second version for 90° - 11 Nm - 50/60 Hz
32	320 second version for 90° - 11 Nm - 50/60 Hz

Emergency manual override not available. 4 and 12 second versions, 60 Hz available on request.

ANTI-CONDENSATION KIT

ID	DESCRIPTION
R	Helps to prevent condensation

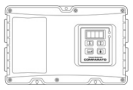
Not suitable for 4 and 12 second versions.

Actuator

Diamant PRO ISO · ISO 5211 connection

ALL IN ONE: 2-POINT • 3-POINT

- **TORQUE:** 11 Nm
- **OPERATING TIMES:** 35 SEC 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES
- MANUAL OPENING
- ISO 5211 F03 - F05 □9 - □11



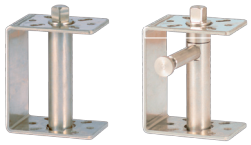
Suitable for Control Units see p. 34

ALL IN ONE JUMPER
for selecting 2-POINT or 3-POINT

CODE	FOR BALL VALVE	∠	POWER SUPPLY
DY222F2A	2- or 3-WAY	90°	230V 50/60 Hz
DY212F2A	2- or 3-WAY	90°	110V 50/60 Hz
DY242F2A	2- or 3-WAY	90°	24V 50/60 Hz
DY322F2A	3 WAY	180°	230V 50/60 Hz
DY312F2A	3 WAY	180°	110V 50/60 Hz
DY342F2A	3 WAY	180°	24V 50/60 Hz

ISO F03 / F05 connection

DIDM01ISO DIDM02ISO



ISO F03 / F04 / F05 connection

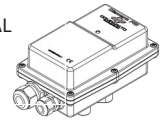
CODICE	DESCRIZIONE
DIDM01ISO	ISO 5211 • ISO 5211 spacer
DIDM02ISO *	ISO 5211 • ISO 5211 spacer with opening lever

* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

Accessories

Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: DY222F2A**Q**

WITHOUT MANUAL OVERRIDE



ID	DESCRIPTION
delete **A**	Without emergency manual override

OPERATING TIMES

ID	DESCRIPTION
Q	4 second version for 90° - 5 Nm - 50 Hz
D	12 second version for 90° - 11 Nm - 50 Hz
C8	106 second version for 90° - 11 Nm - 50/60 Hz
32	320 second version for 90° - 11 Nm - 50/60 Hz

Emergency manual override not available. 4 and 12 second versions, 60 Hz available on request.

ANTI-CONDENSATION KIT

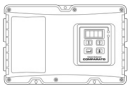
ID	DESCRIPTION
R	Helps to prevent condensation

Not suitable for 4 and 12 second versions.

Compact PRO

ALL IN ONE: 2-POINT • 3-POINT

- **TORQUE:** 22 Nm
- **OPERATING TIMES:** 45 sec 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES
- MANUAL OPENING
- ISO 5211 F03-F05 □9-□11



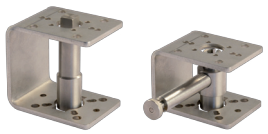
Suitable for Control Units see p. 34

ALL IN ONE JUMPER
for selecting 2-POINT or 3-POINT

CODE	FOR BALL VALVE		POWER SUPPLY	
CY2222P	2- or 3-WAY	90°	230V	50/60 Hz
CY2122P	2- or 3-WAY	90°	110V	50/60 Hz
CY2422P	2- or 3-WAY	90°	24V	50/60 Hz
CY3222P	3 WAY	180°	230V	50/60 Hz
CY3122P	3 WAY	180°	110V	50/60 Hz
CY3422P	3 WAY	180°	24V	50/60 Hz

ISO F03 / F05 connection

DICOM35 DICO05ADC



ISO F03 / F04 / F05 connection

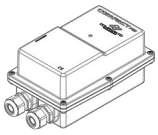
CODE	DESCRIPTION	
DICOM35	ISO 5211 • ISO 5211 spacer	
DICO05ADC *	ISO 5211 • ISO 5211 spacer with opening lever	

* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

Accessories

Add the numbers and/or letters listed in the **"ID"** column corresponding to the selected accessories at the end of the base model code. Code example: CY2222P**SA**

WITHOUT MANUAL OVERRIDE



ID	DESCRIPTION
SA	Without emergency manual override

OPERATING TIMES

ID	DESCRIPTION
9	9 second version for 90° - 22 Nm - 50/60 Hz

Emergency manual override not available.

ANTI-CONDENSATION KIT

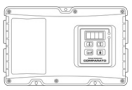
ID	DESCRIPTION
R	Helps to prevent condensation

Actuator

Universal PRO

ALL IN ONE: 2-POINT • 3-POINT

- **TORQUE:** 40 Nm
- **OPERATING TIMES:** 55 sec 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES
- MANUAL OPENING
- ISO 5211 F05-F07 □11-□14



Suitable for Control Units see p. 34

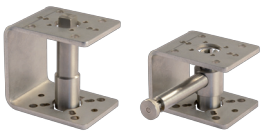
ALL IN ONE JUMPER
for selecting 2-POINT or 3-POINT

CODE	FOR BALL VALVE	∠	POWER SUPPLY	
UY2222P	2- or 3-WAY	90°	230V	50 Hz
UY2122P	2- or 3-WAY	90°	110V	50 Hz
UY2422P	2- or 3-WAY	90°	24V	50 Hz
UY3222P	3 WAY	180°	230V	50 Hz
UY3122P	3 WAY	180°	110V	50 Hz
UY3422P	3 WAY	180°	24V	50 Hz

versione 60 Hz a richiesta

ISO F05 / F07 connection

DICOM57 DICO07ADC



ISO F03 / F04 / F05 / F07 connection

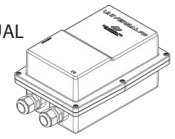
CODE	DESCRIPTION
DICOM57	ISO 5211 • ISO 5211 spacer
DICO07ADC *	ISO 5211 • ISO 5211 spacer with opening lever

* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

Accessories

Add the numbers and/or letters listed in the "**ID**" column corresponding to the selected accessories at the end of the base model code. Code example: UY2222P**SA**

WITHOUT MANUAL OVERRIDE



ID	DESCRIPTION
SA	Without emergency manual override

OPERATING TIMES

ID	DESCRIPTION
S	14 second version for 90° - 40 Nm - 50/60 Hz
T	32 second version for 90° - 40 Nm - 50/60 Hz

ANTI-CONDENSATION KIT

ID	DESCRIPTION
R	Helps to prevent condensation

Diamant PRO IP68 · ISO 5211 connection

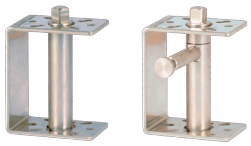
ALL IN ONE: 2 PUNTI • 3 PUNTI / WATERPROOF

- **TORQUE:** 11 Nm
- **OPERATING TIMES:** 35 SEC 90°
- **CLASS PROTECTION:** IP68
- 2 EXTRA MICRO SWITCHES
- 1,5m CAVO FROR
- ISO 5211 F03 - F05 □9 - □11

CODE	FOR BALL VALVE		POWER SUPPLY	
DH2222P	2- or 3-WAY	90°	230V	50/60 Hz
DH2122P	2- or 3-WAY	90°	110V	50/60 Hz
DH2422P	2- or 3-WAY	90°	24V	50/60 Hz
DH3222P	3 WAY	180°	230V	50/60 Hz
DH3122P	3 WAY	180°	110V	50/60 Hz
DH3422P	3 WAY	180°	24V	50/60 Hz

ISO F03 / F05 connection

DIDM01ISO DIDM02ISO



ISO F03 / F04 / F05 connection

CODE	DESCRIPTION
DIDM01ISO	ISO 5211 • ISO 5211 spacer
DIDM02ISO	ISO 5211 • ISO 5211 spacer with opening lever

Accessories

Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: DH2222P**Q**

OPERATING TIMES

ID	DESCRIPTION
Q	4 second version for 90° - 5 Nm - 50 Hz
D	12 second version for 90° - 11 Nm - 50 Hz
C8	106 second version for 90° - 11 Nm - 50/60 Hz
32	320 second version for 90° - 11 Nm - 50/60 Hz

4 and 12 second versions, 60 Hz available on request.

Compact PRO IP68

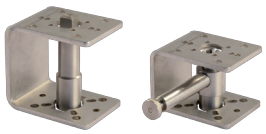
ALL IN ONE: 2 PUNTI • 3 PUNTI / WATERPROOF

- **TORQUE:** 22 Nm
- **OPERATING TIMES:** 45 SEC 90°
- **CLASS PROTECTION:** IP68
- 2 EXTRA MICRO SWITCHES
- 1,5m CAVO FROR
- ISO 5211 F03 - F05 □9 - □11

CODE	FOR BALL VALVE		POWER SUPPLY	
CH2222P	2- or 3-WAY	90°	230V	50/60 Hz
CH2122P	2- or 3-WAY	90°	110V	50/60 Hz
CH2422P	2- or 3-WAY	90°	24V	50/60 Hz
CH3222P	3 WAY	180°	230V	50/60 Hz
CH3122P	3 WAY	180°	110V	50/60 Hz
CH3422P	3 WAY	180°	24V	50/60 Hz

ISO F03 / F05 connection

DICOM35 DICO05ADC



ISO F03 / F04 / F05 connection

CODE	DESCRIPTION
DICOM35	ISO 5211 • ISO 5211 spacer
DICO05ADC	ISO 5211 • ISO 5211 spacer with opening lever

Universal PRO IP68

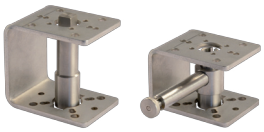
ALL IN ONE: 2-POINT • 3-POINT / WATERPROOF

- **TORQUE:** 40 Nm
- **OPERATING TIMES:** 55 SEC 90°
- **CLASS PROTECTION:** IP68
- 2 EXTRA MICRO SWITCHES
- 1,5m CAVO FROR
- ISO 5211 F05 - F07 □11 - □14

CODE	FOR BALL VALVE		POWER SUPPLY	
UH2222P	2- or 3-WAY	90°	230V	50 Hz
UH2122P	2- or 3-WAY	90°	110V	50 Hz
UH2422P	2- or 3-WAY	90°	24V	50 Hz
UH3222P	3 WAY	180°	230V	50 Hz
UH3122P	3 WAY	180°	110V	50 Hz
UH3422P	3 WAY	180°	24V	50 Hz

ISO F05 / F07 connection

DICOM57 DICO07ADC

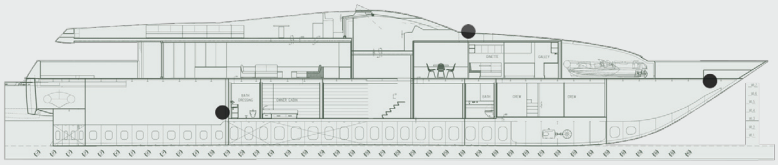


ISO F03 / F04 / F05 / F07 connection

CODE	DESCRIPTION
DICOM57	ISO 5211 • ISO 5211 spacer
DICO07ADC	ISO 5211 • ISO 5211 spacer with opening lever

NAUTICAL Sector

Motorised valves for: seacocks, decantation tanks, chains washing systems, motorised bilge pumping systems, waste water and grey water systems, deviation of onboard water, mixed DHW, automatic water storage in onboard tanks (ex. desalination systems), embark of safe drinking water, ballast pumping systems, oil systems, sludge systems, window washing systems, motorised manifolds for bilge pumping aspiration systems, general fluid regulation.



● Motorised valve application

1 Seacocks detail

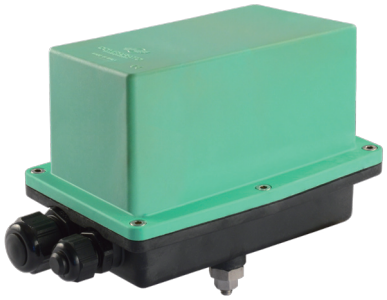
2 RISER: nautical exhaust system

3 Bilge pumping aspiration systems

Diamant DC · COMPARATO connection

ALL IN ONE: 2-POINT • 3-POINT / DIRECT CURRENT

- **TORQUE:** 11 Nm
- **OPERATING TIMES:** 12 SEC 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES
- For DC versions with MANUAL OVERRIDE on the top, PROPORTIONAL CONTROL and FAIL SAFE see DIAMANT PILOT p. 52

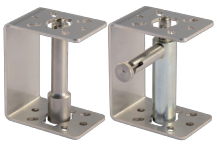


CODE	FOR BALL VALVE		POWER SUPPLY	
DY252PC	2- or 3-WAY	90°	12V DC	
DY242PC	2- or 3-WAY	90°	24V DC	
DY352PC	3 WAY	180°	12V DC	
DY342PC	3 WAY	180°	24V DC	

COMPARATO connection
ADSTD1 ADSTD2

COMPARATO connection

COMPARATO connection
DIDM01 DIDM02



ISO F03/F04/F05 connection

CODE	DESCRIPTION	
ADSTD1	COMPARATO • COMPARATO spacer	
ADSTD2 *	COMPARATO • COMPARATO spacer with manual override	
DIDM01	COMPARATO • ISO 5211 spacer	
DIDM02 *	COMPARATO • ISO 5211 spacer with opening lever	

Accessories

Add the numbers and/or letters listed in the **"ID"** column corresponding to the selected accessories at the end of the base model code. Code example: DY252PC**1**

OPERATING TIMES

ID	DESCRIPTION	
1	1 second version for 90° - 5 Nm	
T	3 second version for 90° - 11 Nm	
C	5 ssecond version for 90° - 11 Nm	
S	8 second version for 90° - 11 Nm	
3	30 second version for 90° - 11 Nm	

Diamant DC ISO · ISO 5211 connection

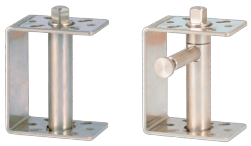
ALL IN ONE: 2-POINT • 3-POINT / DIRECT CURRENT

- **TORQUE:** 11 Nm
- **OPERATING TIMES:** 12 SEC 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES
- For DC versions with MANUAL OVERRIDE on the top, PROPORTIONAL CONTROL and FAIL SAFE see DIAMANT PILOT p. 52
- ISO 5211 F03 - F05 □9 - □11

CODE	FOR BALL VALVE		POWER SUPPLY	
DY252PCF	2- or 3-WAY	90°	12V DC	
DY242PCF	2- or 3-WAY	90°	24V DC	
DY352PCF	3 WAY	180°	12V DC	
DY342PCF	3 WAY	180°	24V DC	

ISO F03 / F05 connection

DIDM01ISO DIDM02ISO



ISO F03 / F04 / F05 connection

CODE	DESCRIPTION	
DIDM01ISO	ISO 5211 • ISO 5211 spacer	
DIDM02ISO	ISO 5211 • ISO 5211 spacer with opening lever	

Accessories

Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: DY252PCF1

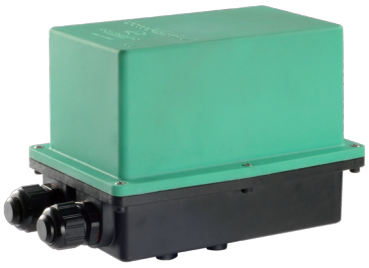
OPERATING TIMES

ID	DESCRIPTION	
1	1 second version for 90° - 5 Nm	
T	3 second version for 90° - 11 Nm	
C	5 second version for 90° - 11 Nm	
S	8 second version for 90° - 11 Nm	
3	30 second version for 90° - 11 Nm	

Compact DC

ALL IN ONE: 2-POINT • 3-POINT / DIRECT CURRENT

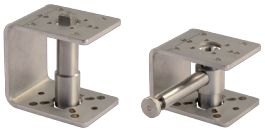
- **TORQUE:** 22 Nm
- **OPERATING TIMES:** 30 SEC 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES
- For DC versions with MANUAL OVERRIDE on the top, PROPORTIONAL CONTROL and FAIL SAFE see COMPACT PILOT p. 54
- ISO 5211 F03 - F05 □9 - □11



CODE	FOR BALL VALVE		POWER SUPPLY	
CY252PC	2- or 3-WAY	90°	12V DC	
CY242PC	2- or 3-WAY	90°	24V DC	
CY352PC	3 WAY	180°	12V DC	
CY342PC	3 WAY	180°	24V DC	

ISO F03 / F05 connection

DICOM35 DICO05ADC



ISO F03 / F04 / F05 connection

CODE	DESCRIPTION	
DICOM35	ISO 5211 • ISO 5211 spacer	
DICO05ADC	ISO 5211 • ISO 5211 spacer with opening lever	

Accessories

Add the numbers and/or letters listed in the **"ID"** column corresponding to the selected accessories at the end of the base model code. Code example: CY252PC**D**

OPERATING TIMES

ID	DESCRIPTION
D	10 second version for 90° - 22 Nm

Actuator

Universal DC

ALL IN ONE: 2-POINT • 3-POINT / DIRECT CURRENT

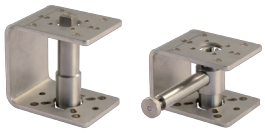
- **TORQUE:** 40 Nm
- **OPERATING TIMES:** 20 SEC 90°
- **CLASS PROTECTION:** IP67

- 2 EXTRA MICRO SWITCHES
- For DC versions with MANUAL OVERRIDE on the top, PROPORTIONAL CONTROL and FAIL SAFE see UNIVERSAL PILOT p. 56
- ISO 5211 F05 - F07 ☐11 - ☐14

CODE	FOR BALL VALVE		POWER SUPPLY	
UY252PC	2- or 3-WAY	90°	12V DC	
UY242PC	2- or 3-WAY	90°	24V DC	
UY352PC	3 WAY	180°	12V DC	
UY342PC	3 WAY	180°	24V DC	

ISO F05 / F07 connection

DICOM57 DICO07ADC



ISO F03 / F04 / F05 / F07 connection

CODE	DESCRIPTION	
DICOM57	ISO 5211 • ISO 5211 spacer	
DICO07ADC	ISO 5211 • ISO 5211 spacer with opening lever	

Accessories

Add the numbers and/or letters listed in the **"ID"** column corresponding to the selected accessories at the end of the base model code. Code example: UY252PC**7**

OPERATING TIMES

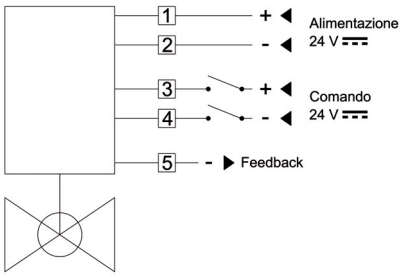
ID	DESCRIPTION
7	70 second version for 90° - 40 Nm

Motorised valve • 2-WAY BRASS

Diamant DC ZOOTEC • ISO 5211 connection

ON / OFF functioning • LIVESTOCK FARMS

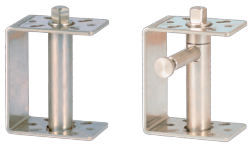
- **TORQUE:** 11 Nm
- **OPERATING TIMES:** 1,5 sec 90°
- **CLASS PROTECTION:** IP67
- POWERED-ON FEEDBACK WITH OPEN VALVE
- ISO 5211 F03-F05 □9 - □11
- THE ACTUATORS ARE SUPPLIED IN CLOSING POSITION



CODE	FOR BALL VALVE		POWER SUPPLY	
DY242ZC	2- or 3-WAY	90°	24V DC	

ISO F03 / F05 connection

DIDM01ISO DIDM02ISO



ISO F03 / F04 / F05 connection

CODE	DESCRIPTION	
DIDM01ISO	ISO 5211 • ISO 5211 spacer	
DIDM02ISO	ISO 5211 • ISO 5211 spacer with opening lever	

Accessories

POWER CABLE

CODE	DESCRIPTION	
RFCAVZ00	Cable with M12 female connector • 5 poles • 1,5m length	

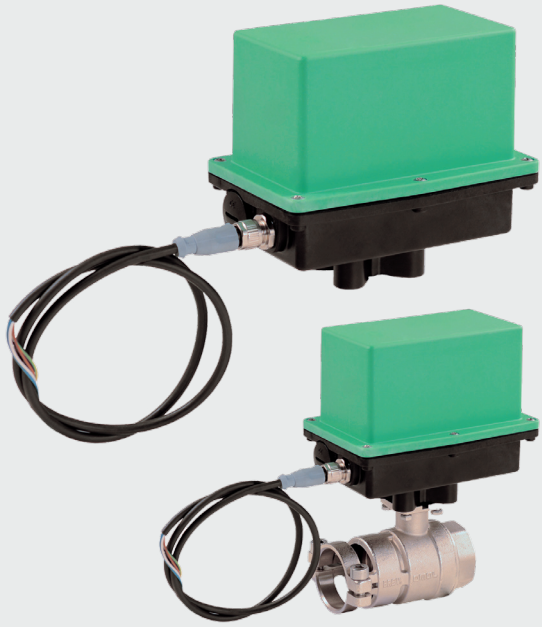
BALL VALVE

CODE	DESCRIPTION	
DC2D2Z5	Brass ball valve DN32 with fast connection for LIVESTOCK FARMS	

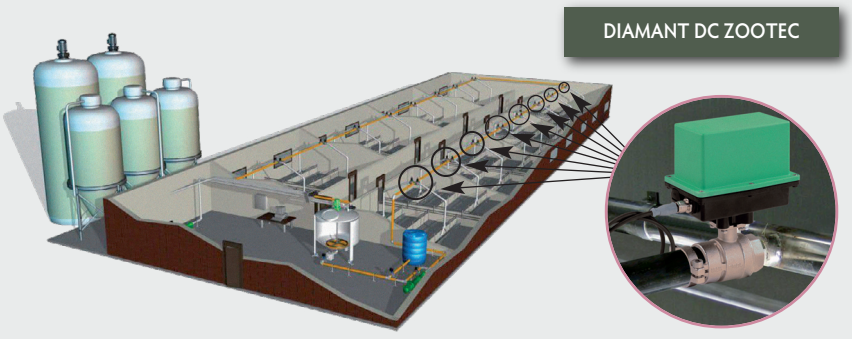
LIVESTOCK farms

DIAMANT DC ZOOTEC

MOTORISED VALVE



- 24V DC power supply
- ON/OFF functioning ultra-fast - 1,5 sec.
- High starting torque - 14 Nm
- Specific electric control for power supply management systems
- Electrical connections via M12 connector or terminal block
- Integrated overload protection
- Position feedback via dry contacts
  or output phases for valve open and closed
- IP67 class protection
- External housing in technopolymer for aggressive environments
- Stainless steel external components
- Silicone seals
- ISO 5211 F03/F05 connection to the valve



Diamant CLIMA • Compact CLIMA

ELECTRONIC THERMOSTAT included

All applications in which the valve manoeuvring depends on **DETECTED TEMPERATURE**

- **OPERATING TIMES:**
  DIAMANT CLIMA 35 SEC 90° - 11 Nm
  COMPACT CLIMA 45 SEC 90° - 22 Nm
- **CLASS PROTECTION:** IP67
- **110V VERSION ON REQUEST**

CODE	V	
DIAMANT CLIMA • COMPARATO connection		
CLIMA230D	230V 50 / 60 Hz	
CLIMA24D	24V 50 / 60 Hz	

For SPACERS see p. 36

CODE	V	
DIAMANT CLIMA • ISO 5211 connection		
CLIMA230DF	230V 50 / 60 Hz	
CLIMA24DF	24V 50 / 60 Hz	

For SPACERS see p. 37

CODE	V	
COMPACT CLIMA		
CLIMA230C	230V 50 / 60 Hz	
CLIMA24C	24V 50 / 60 Hz	

For SPACERS see p. 38

Accessories

Add the numbers and/or letters listed in the **"ID"** column corresponding to the selected accessories at the end of the base model code. Code example: CLIMA230D**8**

ID	DESCRIPTION		NOTES
8	Optional input / outlet cable		
K	Brass immersion temnperature probe		G 1/8" - pocket not included

CODE	DESCRIPTION		
RFSONDAE	Brass immersion temnperature probe		

Diamant CRONO • Compact CRONO

PROGRAM CLOCK onboard

All applications in which the valve manoeuvring must be at **INTERVALS** or **SCHEDULED**

- **OPERATING TIMES:**
  DIAMANT CRONO 35 SEC 90° - 11 Nm
  COMPACT CRONO 45 SEC 90° - 22 Nm
- **CLASS PROTECTION:** IP67
- **110V VERSION ON REQUEST**

CODE	V	
DIAMANT CRONO • COMPARATO connection • **DAY** version		
CRONO230DD	230V 50 / 60 Hz	
CRONO24DD	24V 50 / 60 Hz	
DIAMANT CRONO • COMPARATO connection • **WEEK** version		
CRONO230DW	230V 50 / 60 Hz	
CRONO24DW	24V 50 / 60 Hz	

For SPACERS see p. 36

CODE	V	
DIAMANT CRONO • ISO 5211 connection • **DAY** version		
CRONO230DDF	230V 50 / 60 Hz	
CRONO24DDF	24V 50 / 60 Hz	
DIAMANT CRONO • ISO 5211 connection • **WEEK** version		
CRONO230DWF	230V 50 / 60 Hz	
CRONO24DWF	24V 50 / 60 Hz	

For SPACERS see p. 37

CODE	V	
COMPACT CRONO • DAY version		
CRONO230CD	230V 50 / 60 Hz	
CRONO24CD	24V 50 / 60 Hz	
COMPACT CRONO • WEEK version		
CRONO230CW	230V 50 / 60 Hz	
CRONO24CW	24V 50 / 60 Hz	

For SPACERS see p. 38

Diamant PILOT

TABLE for code configuration

- **TORQUE:** 11 Nm
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES AND POSITIONING FEEDBACK 2-10V
- For version without manual opening please contact our Technical Department

0	**DIAMANT PILOT**	
	DP	Diamant PILOT
1	**CONTROL TYPE**	
	Y	2 - 3 point ON-OFF
	T	3 positions 0° - 45° - 90°
	S	3 positions 0° - 90° - 180°
	A	0 - 20 mA
	B	4 - 20 mA
	V	0 - 10V
	W	2 - 10V
	P	PWM1
	Q	PWM2
2	**ROTATION ANGLE**	
	2 *	90°
	3 *	180°
3	**POWER SUPPLY**	
	2	100... 240V 50/60 Hz
	4	24V AC/DC
	5 **	12V DC
4	**CONNECTION TO THE BALL VALVE**	
	C	Comparato connection
	F	ISO 5211 F03-F05 □9-□11 connection
5	**FAIL SAFE IN CASE OF POWER FAILURE**	
	A	opening position
	C	closing position
	I	intermediate position
	0	not present
6	**EMERGENCY MANUAL OPENING**	
	A	present
7	**OPERATING TIME**	
	Q ***	15 sec / 90°
	T	30 sec / 90°
	S	60 sec / 90°
	C	120 sec / 90°
8	**HEATING RESISTANCE**	
	R	present
	0	not present

* option n.2 is mandatory for the 3-position 0°-45°-90° control, option n.3 is mandatory for the 0°-90°-180° control

** not available with 15 sec operating time

*** not available with 12V DC power supply

COMPARATO CONNECTION

ISO 5211 CONNECTION

CODE EXAMPLE

0	1	2	3	4	5	6	7	8
DP	W	2	2	F	C	A	S	R

COMPARATO connection

ADSTD1

COMPARATO connection

COMPARATO connection

DIDM01

ISO F03/F04/F05 connection

CODE	DESCRIPTION	
ADSTD1	COMPARATO • COMPARATO spacer	
DIDM01	COMPARATO • ISO 5211 spacer	

ISO F03 / F05 connection

DIDM01ISO

ISO F03 / F04 / F05 connection

CODE	DESCRIPTION	
DIDM01ISO	ISO 5211 • ISO 5211 spacer	

Compact PILOT

TABLE for code configuration

- **TORQUE:** 22 Nm
- **CLASS PROTECTION:** IP67
- ISO 5211 F03 - F05 □9 - □11
- 2 EXTRA MICRO SWITCHES AND POSITIONING FEEDBACK 2-10V
- For version without manual opening please contact our Technical Department

0	**COMPACT PILOT**	
	CP	Compact PILOT
1	**CONTROL TYPE**	
	Y	2 - 3 point ON-OFF
	T	3 positions 0° - 45° - 90°
	S	3 positions 0° - 90° - 180°
	A	0 - 20 mA
	B	4 - 20 mA
	V	0 - 10V
	W	2 - 10V
	P	PWM1
	Q	PWM2
2	**ROTATION ANGLE**	
	2 *	90°
	3 *	180°
3	**POWER SUPPLY**	
	2	100... 240V 50/60 Hz
	4	24V AC/DC
	5 **	12V DC
4	**CONNECTION TO THE BALL VALVE**	
	F	ISO 5211 F03-F05 □9-□11 connection
5	**FAIL SAFE IN CASE OF POWER FAILURE**	
	A	opening position
	C	closing position
	I	intermediate position
	0	not present
6	**EMERGENCY MANUAL OPENING**	
	A	present
7	**OPERATING TIME**	
	Q ***	15 sec / 90°
	T	30 sec / 90°
	S	60 sec / 90°
	C	120 sec / 90°
8	**HEATING RESISTANCE**	
	R	present
	0	not present

* option n.2 is mandatory for the 3-position 0°-45°-90° control, option n.3 is mandatory for the 0°-90°-180° control

** not available with 15 sec operating time

*** not available with 12V DC power supply

CODE EXAMPLE

0	1	2	3	4	5	6	7	8
CP	Y	2	2	F	C	A	S	R

ISO F03 / F05 connection

DICOM35

ISO F03 / F04 / F05 connection

CODE	DESCRIPTION	
DICOM35	ISO 5211 • ISO 5211 spacer	

Universal PILOT

TABLE for code configuration

- **TORQUE:** 40 Nm
- **CLASS PROTECTION:** IP67
- ISO 5211 F05 - F07 □11 - □14
- 2 EXTRA MICRO SWITCHES AND POSITIONING FEEDBACK 2-10V
- For version without manual opening please contact our Technical Department

0	**UNIVERSAL PILOT**	
	UP	Universal PILOT
1	**CONTROL TYPE**	
	Y	2 - 3 point ON-OFF
	T	3 positions 0° - 45° - 90°
	S	3 positions 0° - 90° - 180°
	A	0 - 20 mA
	B	4 - 20 mA
	V	0 - 10V
	W	2 - 10V
	P	PWM1
	Q	PWM2
2	**ROTATION ANGLE**	
	2 *	90°
	3 *	180°
3	**POWER SUPPLY**	
	2	100... 240V 50/60 Hz
	4	24V AC/DC
	5	12V DC
4	**CONNECTION TO THE BALL VALVE**	
	F	ISO 5211 F05-F07 □11-□14 connection
5	**FAIL SAFE IN CASE OF POWER FAILURE**	
	A **	opening position
	C **	closing position
	I **	intermediate position
	0	not present
6	**EMERGENCY MANUAL OPENING**	
	A	present
7	**OPERATING TIME**	
	T	30 sec / 90°
	S	60 sec / 90°
	C	120 sec / 90°
8	**HEATING RESISTANCE**	
	R	present
	0	not present

* option n.2 is mandatory for the 3-position 0°-45°-90° control, option n.3 is mandatory for the 0°-90°-180° control

** for Fail Safe with 180° rotation control, please contact our Technical Department

CODE EXAMPLE								
0	1	2	3	4	5	6	7	8
UP	Y	2	2	F	C	A	S	R

ISO F05 / F07 connection

DICOM57

ISO F03 / F04 / F05 / F07 connection

CODE	DESCRIPTION	
DICOM57	ISO 5211 • ISO 5211 spacer	

Diamant SMART PRO

TABLE for code configuration

- **TORQUE:** 11 Nm
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES AND POSITIONING FEEDBACK 2-10V
- For version without manual opening please contact our Technical Department

0	**DIAMANT SMART PRO**	
	DSP	Diamant SMART PRO
1	**ROTATION ANGLE**	
	2	90°
	3	180°
2	**POWER SUPPLY**	
	2	100... 240V 50/60 Hz
	4	12-24V AC/DC
3	**CONNECTION TO THE BALL VALVE**	
	C	Comparato connection
	F	ISO 5211 F03-F05 □9-□11 connection
4	**COMMUNICATION TYPE**	
	M	Modbus
	W	Wi-Fi
5	**FAIL SAFE IN CASE OF POWER FAILURE**	
	F	present
	0	not present
6	**EMERGENCY MANUAL OPENING**	
	A	present

COMPARATO CONNECTION

ISO 5211 CONNECTION

FAIL SAFE FOCUS p. 64

Wi-Fi FOCUS p. 64

INTEGRATED WEB SERVER
NO APP NEEDED FOR THE CONNECTION

CODE EXAMPLE

0	1	2	3	4	5	6
DSP	2	4	F	M	F	A

COMPARATO connection

ADSTD1

COMPARATO connection

COMPARATO connection

DIDM01

ISO F03/F04/F05 connection

CODE	DESCRIPTION	
ADSTD1	COMPARATO • COMPARATO spacer	
DIDM01	COMPARATO • ISO 5211 spacer	

ISO F03 / F05 connection

DIDM01ISO

ISO F03 / F04 / F05 connection

CODE	DESCRIPTION	
DIDM01ISO	ISO 5211 • ISO 5211 spacer	

Compact SMART PRO

TABLE for code configuration

- **TORQUE:** 22 Nm
- **CLASS PROTECTION:** IP67
- ISO 5211 F03 - F05 □9 - □11
- 2 EXTRA MICRO SWITCHES AND POSITIONING FEEDBACK 2-10V
- For version without manual opening please contact our Technical Department

0	**COMPACT SMART PRO**	
	CSP	Compact SMART PRO
1	**ROTATION ANGLE**	
	2	90°
	3	180°
2	**POWER SUPPLY**	
	2	100... 240V 50/60 Hz
	4	12 - 24V AC/DC
3	**CONNECTION TO THE BALL VALVE**	
	F	ISO 5211 F03-F05 □9-□11 connection
4	**COMMUNICATION TYPE**	
	M	Modbus
	W	Wi-Fi
5	**FAIL SAFE IN CASE OF POWER FAILURE**	
	F	present
	0	not present
6	**EMERGENCY MANUAL OPENING**	
	A	present

FAIL SAFE FOCUS p. 64

Wi-Fi FOCUS p. 64

INTEGRATED WEB SERVER
NO APP NEEDED FOR THE CONNECTION

CODE EXAMPLE						
0	1	2	3	4	5	6
CSP	2	4	F	M	F	A

ISO F03 / F05 connection

DICOM35

ISO F03 / F04 / F05 connection

CODE	DESCRIPTION	
DICOM35	ISO 5211 • ISO 5211 spacer	

Universal SMART PRO

TABLE for code configuration

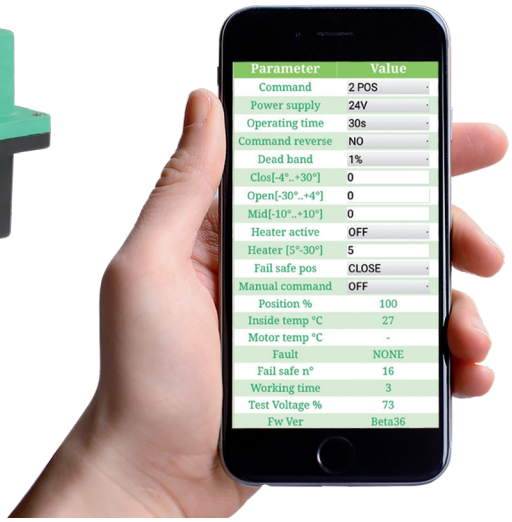
- **COPPIA:** 40 Nm
- **GRADO DI PROTEZIONE:** IP67
- ISO 5211 F05 - F07 □11 - □14
- 2 EXTRA MICRO SWITCHES AND POSITIONING FEEDBACK 2-10V
- For version without manual opening please contact our Technical Department

0	**UNIVERSAL SMART PRO**	
	USP	Universal SMART PRO
1	**ROTATION ANGLE**	
	2	90°
	3	180°
2	**POWER SUPPLY**	
	2	100... 240V 50/60 Hz
	4	12 - 24V AC/DC
3	**CONNECTION TO THE BALL VALVE**	
	F	ISO 5211 F05-F07 □11-□14 connection
4	**COMMUNICATION TYPE**	
	M	Modbus
	W	Wi-Fi
5	**FAIL SAFE IN CASE OF POWER FAILURE**	
	F *	present
	0	not present
6	**EMERGENCY MANUAL OPENING**	
	A	present

* for Fail Safe with 180° rotation control, please contact our Technical Department

FAIL SAFE FOCUS p. 64

Wi-Fi FOCUS p. 64



INTEGRATED WEB SERVER
NO APP NEEDED FOR THE CONNECTION

CODE EXAMPLE						
0	1	2	3	4	5	6
USP	2	4	F	M	F	A

ISO F05 / F07 connection

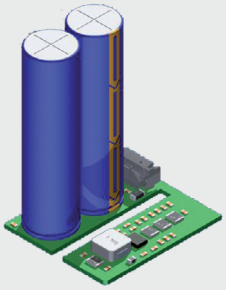
DICOM57

ISO F03 / F04 / F05 / F07 connection

CODE	DESCRIPTION	
DICOM57	ISO 5211 • ISO 5211 spacer	

SMART PRO / PILOT

FAIL SAFE FOCUS



This system stores energy and then uses it to move the actuator in a “safe” position in case of power failure.

The supercapacitor technology ensures fast recharging times and reliability over time.

Thanks to a Wi-Fi or Modbus communication interface, you can select the safety position (open, closed, mid-position), check the charge status and display the number of times any power failure occurred.

SMART PRO

WI-FI FOCUS

INTEGRATED WEB SERVER
no APP needed for the connection

Funtioning setup

Local control

Monitoring

Diagnostics

SMART PRO

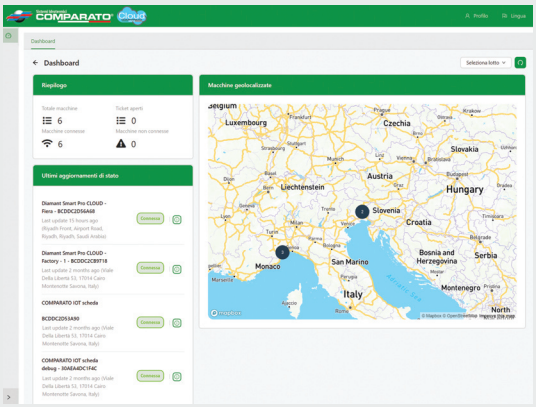
COMPARATO CLOUD

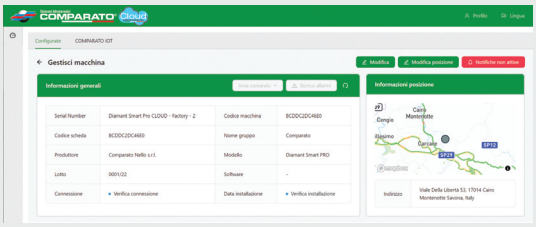
INNOVATIVE MANAGEMENT
MADE IN COMPARATO

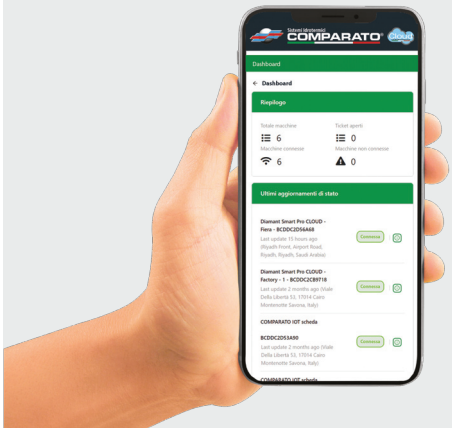
MULTIFUNCTIONAL SMART PRO ACTUATORS completely controlled thanks to **COMPARATO CLOUD**. The Wi-Fi gateway installed inside Smart PRO actuators allows the connection to any Wi-Fi or Ethernet network, creating a direct link between actuated valve and **COMPARATO CLOUD**.

DIAMANT **SMART PRO CLOUD**

COMPARATO CLOUD is a web platform designed for forwarding commands and for getting information from the connected actuated valves, and for processing data to make it available for the user, creating an advanced IoT infrastructure for remote management.





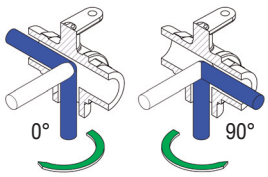


Diamant PRO · COMPARATO connection

2-WAY MM, full bore

CODE	CONNECTION		DN	PN	Kv_s
DC2A2A	1/2"	90°	15	16	16,3
DC2B2A	3/4"	90°	20	16	29,5
DC2C2A	1"	90°	25	16	43

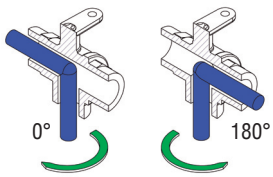
90° ROTATION 3-HOLE BALL • 3-WAY MMM MIXING / DIVERTING, full bore



CODE	CONNECTION		DN	PN	Kv_s
DC3B3A	3/4"	90°	20	16	11,5
DC3C3A	1"	90°	25	16	18,3

3-hole version to be combined with the **90°** version actuator

180° ROTATION 2-HOLE BALL • 3-WAY MMM DIVERTING, full bore



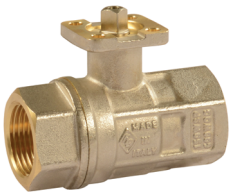
CODE	CONNECTION		DN	PN	Kv_s
DC3B2A	3/4"	180°	20	16	11,5
DC3C2A	1"	180°	25	16	18,3

2-hole version to be combined with the **180°** version actuator

BRASS Valve

PRO Range • ISO 5211 connection

2-WAY FF, full bore



CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **ISO 5211** connection					
DC2S2P5	1/4"	90°	-	40	5,4
DC2R2P5	3/8"	90°	10	40	6
DC2A2P5	1/2"	90°	15	40	16,3
DC2B2P5	3/4"	90°	20	40	29,5
DC2C2P5	1"	90°	25	40	43
DC2D2P5	1"1/4 *	90°	32	40	89

* maximum differential pressure 25 bar, for 40 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series					
DC2D2P5	1"1/4	90°	32	40	89
UC2E2M5	1"1/2	90°	40	40	230
UC2F2M5	2" **	90°	50	40	265

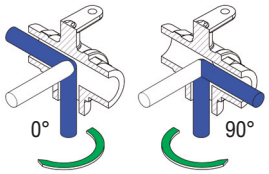
** maximum differential pressure 25 bar, for 40 bar please see Universal series

CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series					
UC2F2M5	2"	90°	50	40	265
UC2G2M5	2"1/2	90°	65	25	540
UC2H2M5	3"	90°	80	16	873
UC2I2M5	4" ***	90°	100	16	1.390

*** maximum differential pressure 6 bar

PRO Range · ISO 5211 connection

90° ROTATION 3-HOLE BALL • 3-WAY FFF MIXING / DIVERTING, full bore



CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **ISO 5211** connection					
DC3A3E5	1/2"	90°	15	25	6
DC3B3E5	3/4"	90°	20	16	11,5
DC3C3E5	1" *	90°	25	16	18,3

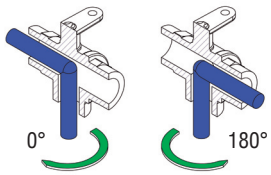
* maximum differential pressure 25 bar, for 40 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series					
DC3C3E5	1"	90°	25	16	18,3
UC3D3E5	1"1/4	90°	32	10	27,2
UC3E3E5	1"1/2 **	90°	40	10	47,3

** maximum differential pressure 6 bar, for 10 bar please see Universal series

CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series					
UC3E3E5	1"1/2	90°	40	10	47,3
UC3F3E5	2"	90°	50	10	73

180° ROTATION 2-HOLE BALL • 3-WAY FFF DIVERTING, full bore



CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **ISO 5211** connection					
DC3A2E5	1/2"	180°	15	25	6
DC3B2E5	3/4"	180°	20	16	11,5
DC3C2E5	1" *	180°	25	16	18,3

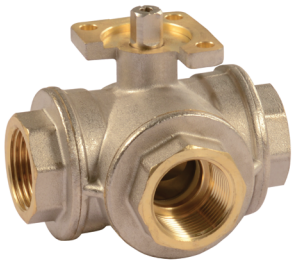
* maximum differential pressure 25 bar, for 40 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series					
DC3C2E5	1"	180°	25	16	18,3
UC3D2E5	1"1/4	180°	32	10	27,2
UC3E2E5	1"1/2 **	180°	40	10	47,3

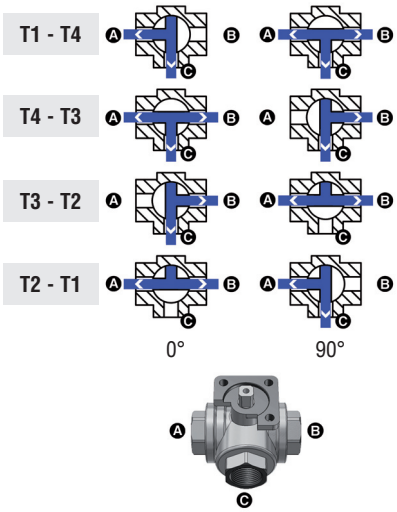
** maximum differential pressure 6 bar, for 10 bar please see Universal series

CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series					
UC3E2E5	1"1/2	180°	40	10	47,3
UC3F2E5	2"	180°	50	10	73

"T"-PORT • 3-WAY FFF DIVERTER, full bore



BALL POSITIONING



CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **ISO 5211** connection					
DC3S6E5	1/4"	90°	-	30	2,8
DC3R6E5	3/8"	90°	10	30	3
DC3A6E5	1/2"	90°	15	30	3,9
DC3B6E5	3/4" *	90°	20	30	7,9

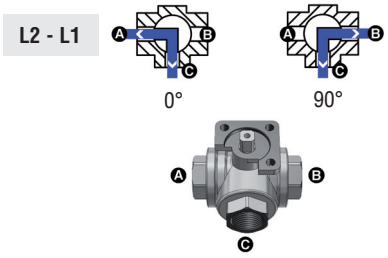
* maximum differential pressure 25 bar, for 40 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series					
DC3B6E5	3/4"	90°	20	30	7,9
UC3C6E5	1"	90°	25	16	13
UC3D6E5	1"1/4 **	90°	32	10	20,7

** maximum differential pressure 6 bar, for 10 bar please see Universal series

CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series					
UC3D6E5	1"1/4	90°	32	10	20,7
UC3E6E5	1"1/2	90°	40	10	38,7
UC3F6E5	2"	90°	50	10	54

"L"-PORT • 3-WAY FFF DIVERTER, full bore



CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **ISO 5211** connection					
DC3S5E5	1/4"	90°	-	30	2,8
DC3R5E5	3/8"	90°	10	30	3
DC3A5E5	1/2"	90°	15	30	3,9
DC3B5E5	3/4" *	90°	20	30	7,9

* maximum differential pressure 25 bar, for 40 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series					
DC3B5E5	3/4"	90°	20	30	7,9
UC3C5E5	1"	90°	25	16	13
UC3D5E5	1"1/4 **	90°	32	10	20,7

** maximum differential pressure 6 bar, for 10 bar please see Universal series

CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series					
UC3D5E5	1"1/4	90°	32	10	20,7
UC3E5E5	1"1/2	90°	40	10	38,7
UC3F5E5	2"	90°	50	10	54

AISI 316 Valve

PRO Range · ISO 5211 connection

2-WAY FF, full bore

CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **ISO 5211** connection					
DC2A2B	1/2"	90°	15	64	19,2
DC2B2B	3/4"	90°	20	64	35
DC2C2B	1" *	90°	25	64	64,5

* maximum differential pressure 25 bar, for 64 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series					
DC2C2B	1"	90°	25	64	64,5
UC2D2B5	1"1/4	90°	32	64	103,8
UC2E2B5	1"1/2 **	90°	40	64	174

** maximum differential pressure 40 bar, for 64 bar please see Universal series

CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series					
UC2E2B5	1"1/2	90°	40	64	174
UC2F2B5	2" ***	90°	50	64	301,3

*** maximum differential pressure 25 bar

FLOW CONTROL version, on request

V-BALL

Valves with a 'V' port are suitable for liquids, gases, and steam

The V-BALL shape transforms a standard ON-OFF ball valve into a CONTROL valve.

FOR FURTHER INFORMATION PLEASE CONTACT OUR TECHNICAL DEPARTMENT

+39 019 510.371 • info@comparato.com

STEAM version, on request

AVAILABLE FOR SYSTEMS WITH STEAM TEMPERATURES UP TO 175°C
AND 9 bar MAXIMUM PRESSURE

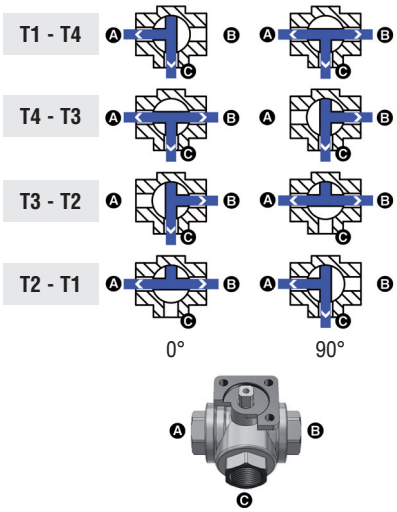
FOR FURTHER INFORMATION PLEASE CONTACT OUR TECHNICAL DEPARTMENT

+39 019 510.371 • info@comparato.com

PRO Range • ISO 5211 connection

"T"-PORT • 3-WAY FFF DIVERTER, reduced bore

BALL POSITIONING



CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **ISO 5211** connection					
DC3S6B5	1/4"	90°	-	64	4
DC3R6B5	3/8"	90°	10	64	4
DC3A6B5	1/2" *	90°	15	64	5,2

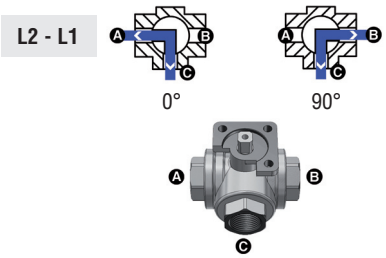
* maximum differential pressure 25 bar, for 64 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series					
DC3A6B5	1/2"	90°	15	64	5,2
UC3B6B5	3/4"	90°	20	64	8,4
UC3C6B5	1" **	90°	25	64	12

** maximum differential pressure 40 bar, for 64 bar please see Universal series

CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series					
UC3C6B5	1"	90°	25	64	12
UC3D6B5	1"1/4	90°	32	64	19

"L"-PORT • 3-WAY FFF DIVERTER, reduced bore



CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **ISO 5211** connection					
DC3S5B5	1/4"	90°	-	64	4
DC3R5B5	3/8"	90°	10	64	4
DC3A5B5	1/2" *	90°	15	64	5,2

* maximum differential pressure 25 bar, for 64 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series					
DC3A5B5	1/2"	90°	15	64	5,2
UC3B5B5	3/4"	90°	20	64	8,4
UC3C5B5	1" **	90°	25	64	12

** maximum differential pressure 40 bar, for 64 bar please see Universal series

CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series					
UC3C5B5	1"	90°	25	64	12
UC3D5B5	1"1/4	90°	32	64	19

2-WAY with connection kit, full bore

CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **COMPARATO** connection · **FF THREADED** connections					
DC2R2C3D3	3/8"	90°	10	16	4,8
DC2A2C3D3	1/2"	90°	15	16	12
DC2B2C3D3	3/4"	90°	20	16	23
DC2C2C3D3	1"	90°	25	16	46
DC2D2C3D3	1"1/4	90°	32	16	66
DC2E2C3D3	1"1/2" *	90°	40	16	105
DIAMANT series **COMPARATO** connection · **TO BE GLUED** connections					
DC2R2C4D3	16 (3/8")	90°	10	16	4,8
DC2A2C4D3	20 (1/2")	90°	15	16	12
DC2B2C4D3	25 (3/4")	90°	20	16	23
DC2C2C4D3	32 (1")	90°	25	16	46
DC2D2C4D3	40 (1"1/4)	90°	32	16	66
DC2E2C4D3	50 (1"1/2") *	90°	40	16	105

* maximum differential pressure 10 bar, for 16 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

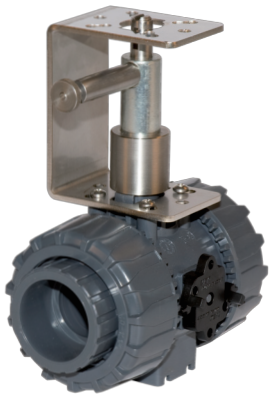
CODE	CONNECTION		DN	PN	Kv_s
COMPACT series · **FF THREADED** connections					
UC2E2C3D3	1"1/2	90°	40	16	105
UC2F2C3D3	2" **	90°	50	16	204
COMPACT series · **TO BE GLUED** connections					
UC2E2C4D3	50 (1"1/2)	90°	40	16	105
UC2F2C4D3	63 (2") **	90°	50	16	204

** maximum differential pressure 10 bar, for 16 bar please see Universal series

CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series · **FF THREADED** connections					
UC2F2C3D3	2"	90°	50	16	204
UC2G2C3D3	2"1/2	90°	65	16	315
UC2H2C3D3	3" ***	90°	80	16	426
UNIVERSAL series · **TO BE GLUED** connections					
UC2F2C4D3	63 (2")	90°	50	16	204
UC2G2C4D3	75 (2"1/2)	90°	65	16	315
UC2H2C4D3	90 (3") ***	90°	80	16	426

*** maximum differential pressure 10 bar

2-WAY with spacer and emergency manual override, full bore



CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **COMPARATO** connection • **FF THREADED**					
DC2R2C3D4	3/8"	90°	10	16	4,8
DC2A2C3D4	1/2"	90°	15	16	12
DC2B2C3D4	3/4"	90°	20	16	23
DC2C2C3D4	1"	90°	25	16	46
DC2D2C3D4	1"1/4	90°	32	16	66
DC2E2C3D4	1"1/2" *	90°	40	16	105
DIAMANT series **COMPARATO** connection • **TO BE GLUED**					
DC2R2C4D4	16 (3/8")	90°	10	16	4,8
DC2A2C4D4	20 (1/2")	90°	15	16	12
DC2B2C4D4	25 (3/4")	90°	20	16	23
DC2C2C4D4	32 (1")	90°	25	16	46
DC2D2C4D4	40 (1"1/4)	90°	32	16	66
DC2E2C4D4	50 (1"1/2") *	90°	40	16	105

* maximum differential pressure 10 bar, for 16 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS
IT CANNOT BE MOTORISED WITH ACTUATOR EQUIPPED WITH MANUAL OVERRIDE

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series • **FF THREADED**					
UC2E2C3D4	1"1/2	90°	40	16	105
UC2F2C3D4	2" **	90°	50	16	204
COMPACT series • **TO BE GLUED**					
UC2E2C4D4	50 (1"1/2)	90°	40	16	105
UC2F2C4D4	63 (2") **	90°	50	16	204

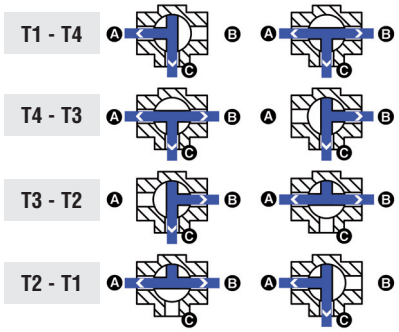
** maximum differential pressure 10 bar, for 16 bar please see Universal series
IT CANNOT BE MOTORISED WITH ACTUATOR EQUIPPED WITH MANUAL OVERRIDE

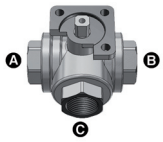
CODE	CONNECTION		DN	PN	Kv_s
UNIVERSAL series • **FF THREADED**					
UC2F2C3D4	2"	90°	50	16	204
UC2G2C3D4	2"1/2	90°	65	16	315
UC2H2C3D4	3" ***	90°	80	16	426
UNIVERSAL series • **TO BE GLUED**					
UC2F2C4D4	63 (2")	90°	50	16	204
UC2G2C4D4	75 (2"1/2)	90°	65	16	315
UC2H2C4D4	90 (3") ***	90°	80	16	426

*** maximum differential pressure 10 bar
IT CANNOT BE MOTORISED WITH ACTUATOR EQUIPPED WITH MANUAL OVERRIDE

"T"-PORT • 3-WAY with connection kit, full bore

BALL POSITIONING





CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **COMPARATO** connection • **FF THREADED**					
DC3R6C3D3	3/8"	90°	10	16	2,2
DC3A6C3D3	1/2"	90°	15	16	3,3
DC3B6C3D3	3/4"	90°	20	16	8,1
DC3C6C3D3	1"	90°	25	16	12,3
DC3D6C3D3	1"1/4	90°	32	16	23,4
DC3E6C3D3	1"1/2 *	90°	40	16	28,5
DIAMANT series **COMPARATO** connection • **TO BE GLUED**					
DC3R6C4D3	16 (3/8")	90°	10	16	2,2
DC3A6C4D3	20 (1/2")	90°	15	16	3,3
DC3B6C4D3	25 (3/4")	90°	20	16	8,1
DC3C6C4D3	32 (1")	90°	25	16	12,3
DC3D6C4D3	40 (1"1/4)	90°	32	16	23,4
DC3E6C4D3	50 (1"1/2) *	90°	40	16	28,5

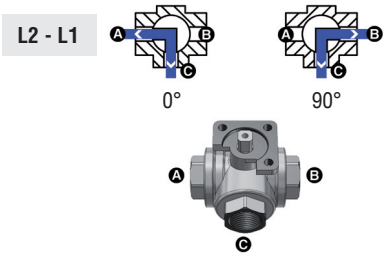
* maximum differential pressure 10 bar, for 16 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series • **FF THREADED**					
UC3E6C3D3	1"1/2	90°	40	16	28,5
UC3F6C3D3	2"	90°	50	16	54
COMPACT series • **TO BE GLUED**					
UC3E6C4D3	50 (1"1/2)	90°	40	16	28,5
UC3F6C4D3	63 (2")	90°	50	16	54

PVC-U Valve

PRO Range

"L"-PORT • 3-WAY with connection kit, full bore



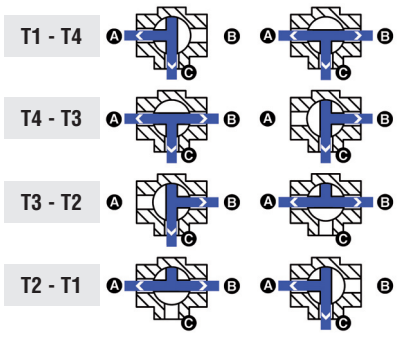
CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **COMPARATO** connection • **FF THREADED**					
DC3R5C3D3	3/8"	90°	10	16	2,9
DC3A5C3D3	1/2"	90°	15	16	4,4
DC3B5C3D3	3/4"	90°	20	16	9
DC3C5C3D3	1"	90°	25	16	16
DC3D5C3D3	1"1/4	90°	32	16	28,5
DC3E5C3D3	1"1/2 **	90°	40	16	37,2
DIAMANT series **COMPARATO** connection • **TO BE GLUED**					
DC3R5C4D3	16 (3/8")	90°	10	16	2,9
DC3A5C4D3	20 (1/2")	90°	15	16	4,4
DC3B5C4D3	25 (3/4")	90°	20	16	9
DC3C5C4D3	32 (1")	90°	25	16	16
DC3D5C4D3	40 (1"1/4)	90°	32	16	28,5
DC3E5C4D3	50 (1"1/2) **	90°	40	16	37,2

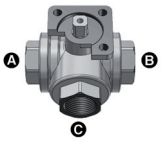
* maximum differential pressure 10 bar, for 16 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series • **FF THREADED**					
UC3E5C3D3	1"1/2	90°	40	16	37,2
UC3F5C3D3	2"	90°	50	16	73,2
COMPACT series • **TO BE GLUED**					
UC3E5C4D3	50 (1"1/2)	90°	40	16	37,2
UC3F5C4D3	63 (2")	90°	50	16	73,2

"T"-PORT · 3-WAY with spacer and emergency manual override, full bore

BALL POSITIONING





CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **COMPARATO** connection · **FF THREADED**					
DC3R6C3D4	3/8"	90°	10	16	2,2
DC3A6C3D4	1/2"	90°	15	16	3,3
DC3B6C3D4	3/4"	90°	20	16	8,1
DC3C6C3D4	1"	90°	25	16	12,3
DC3D6C3D4	1"1/4	90°	32	16	23,4
DC3E6C3D4	1"1/2 *	90°	40	16	28,5
DIAMANT series **COMPARATO** connection · **TO BE GLUED**					
DC3R6C4D4	16 (3/8")	90°	10	16	2,2
DC3A6C4D4	20 (1/2")	90°	15	16	3,3
DC3B6C4D4	25 (3/4")	90°	20	16	8,1
DC3C6C4D4	32 (1")	90°	25	16	12,3
DC3D6C4D4	40 (1"1/4)	90°	32	16	23,4
DC3E6C4D4	50 (1"1/2) *	90°	40	16	28,5

* maximum differential pressure 10 bar, for 16 bar please see Compact series

TO BE MOTORISED WITH 11 Nm ACTUATORS

IT CANNOT BE MOTORISED WITH ACTUATOR EQUIPPED WITH MANUAL OVERRIDE

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series · **FF THREADED**					
UC3E6C3D4	1"1/2	90°	40	16	28,5
UC3F6C3D4	2"	90°	50	16	54
COMPACT series · **TO BE GLUED**					
UC3E6C4D4	50 (1"1/2)	90°	40	16	28,5
UC3F6C4D4	63 (2")	90°	50	16	54

IT CANNOT BE MOTORISED WITH ACTUATOR EQUIPPED WITH MANUAL OVERRIDE

PVC-U Valve

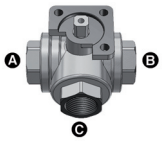
PRO Range

"L"-PORT • 3-WAY with spacer and emergency manual override, full bore

L2 - L1

0°

90°



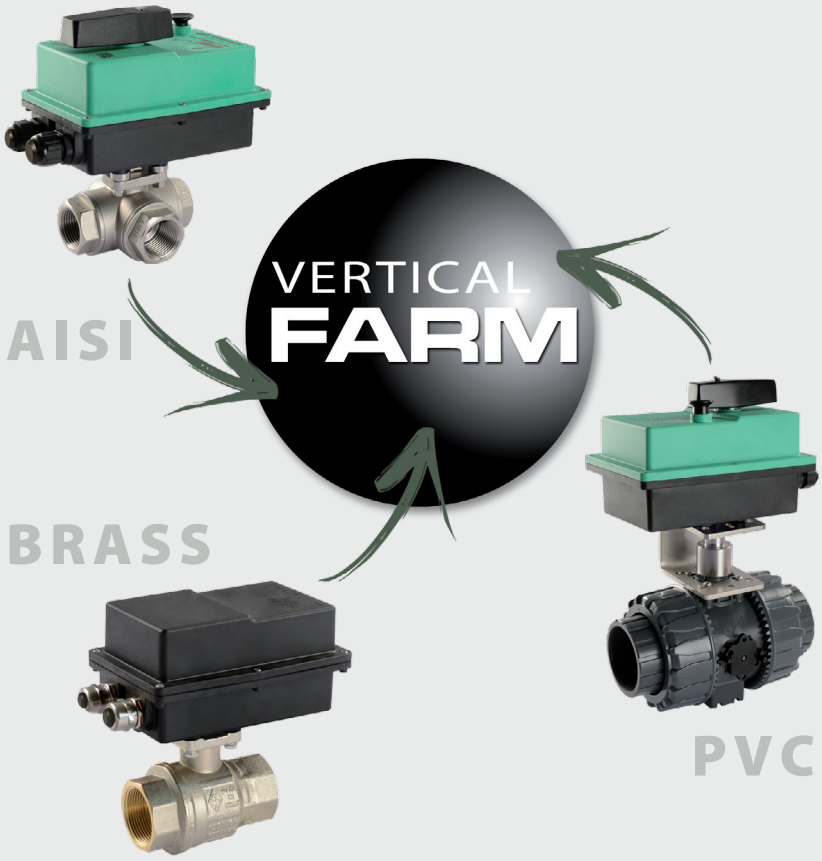
CODE	CONNECTION		DN	PN	Kv_s
DIAMANT series **COMPARATO** connection • **FF THREADED**					
DC3R5C3D4	3/8"	90°	10	16	2,9
DC3A5C3D4	1/2"	90°	15	16	4,4
DC3B5C3D4	3/4"	90°	20	16	9
DC3C5C3D4	1"	90°	25	16	16
DC3D5C3D4	1"1/4	90°	32	16	28,5
DC3E5C3D4	1"1/2 **	90°	40	16	37,2
DIAMANT series **COMPARATO** connection • **TO BE GLUED**					
DC3R5C4D4	16 (3/8")	90°	10	16	2,9
DC3A5C4D4	20 (1/2")	90°	15	16	4,4
DC3B5C4D4	25 (3/4")	90°	20	16	9
DC3C5C4D4	32 (1")	90°	25	16	16
DC3D5C4D4	40 (1"1/4)	90°	32	16	28,5
DC3E5C4D4	50 (1"1/2) **	90°	40	16	37,2

* maximum differential pressure 10 bar, for 16 bar please see Compact series
TO BE MOTORISED WITH 11 Nm ACTUATORS
IT CANNOT BE MOTORISED WITH ACTUATOR EQUIPPED WITH MANUAL OVERRIDE

CODE	CONNECTION		DN	PN	Kv_s
COMPACT series • **FF THREADED**					
UC3E5C3D4	1"1/2	90°	40	16	37,2
UC3F5C3D4	2"	90°	50	16	73,2
COMPACT series • **TO BE GLUED**					
UC3E5C4D4	50 (1"1/2)	90°	40	16	37,2
UC3F5C4D4	63 (2")	90°	50	16	73,2

IT CANNOT BE MOTORISED WITH ACTUATOR EQUIPPED WITH MANUAL OVERRIDE

MOTORISED VALVES



Motorised valve · **2-WAY CAST IRON** flanged, full bore

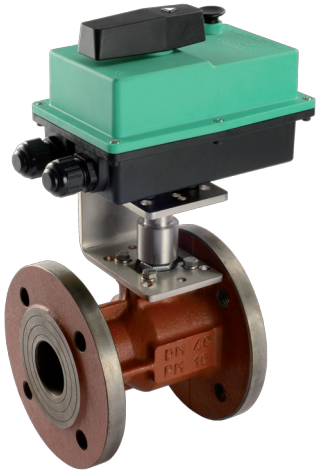
PRO Range · ISO 5211 connection

actuator ball valve

Compact PRO ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 45 SEC 90°
- **CLASS PROTECTION:** IP67

- Manual opening
- 2 extra micro switches
- Different operating times and accessories see p. 38
- Not available with spacer for insulation



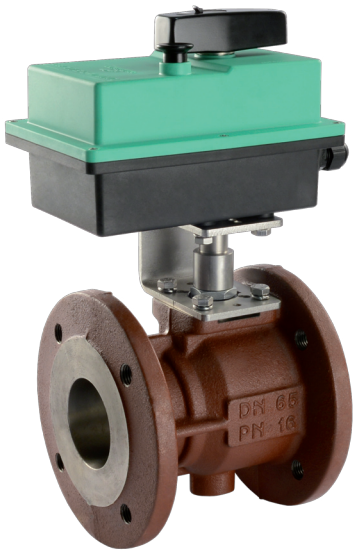
CODE	CONNECTION	DN	PN	Kv_s
Power supply **230 V · 50 / 60 Hz**				
CY222AC2F6	PN16 Flange	25	16	64,5
CY222AD2F6	PN16 Flange *	32	16	103,8
Power supply **24 V · 50 / 60 Hz**				
CY242AC2F6	PN16 Flange	25	16	64,5
CY242AD2F6	PN16 Flange *	32	16	103,8

* maximum differential pressure 10 bar

Universal PRO ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 55 SEC 90°
- **CLASS PROTECTION:** IP67

- Manual opening
- 2 extra micro switches
- Different operating times and accessories see p. 39
- Not available with spacer for insulation



CODE	CONNECTION	DN	PN	Kv_s
Power supply **230 V · 50 Hz**				
UY222AD2F6	PN16 Flange	32	16	103,8
UY222AE2F6	PN16 Flange	40	16	174
UY222AF2F6	PN16 Flange	50	16	301,3
Power supply **24 V · 50 Hz**				
UY242AD2F6	PN16 Flange	32	16	103,8
UY242AE2F6	PN16 Flange	40	16	174
UY242AF2F6	PN16 Flange	50	16	301,3

Motorised valve • **2-WAY CAST IRON** flanged, full bore

Universal

2-POINT • 3-POINT

- **CLASS PROTECTION:** IP67

- Manual opening
- 2 extra micro switches
- Versions with proportional control available on request

CODE	OPERATING TIME 90°	DN	PN
Power supply **100... 240 V • 50 / 60 Hz**			
U22C2G2F6	27 SEC	65	16
U22C2H2F6	27 SEC	80	16
U22C2I2F6	50 SEC	100	16
U22C2L2F6	50 SEC	125	16
U22C2M2F6	50 SEC	150	16
Power supply **24 V • AC / DC**			
U24C2G2F6	27 SEC	65	16
U24C2H2F6	27 SEC	80	16
U24C2I2F6	50 SEC	100	16
U24C2L2F6	50 SEC	125	16
U24C2M2F6	50 SEC	150	16

Motorised valve • **3-WAY CAST IRON** flanged DIVERTER, full bore

Universal

2-POINT • 3-POINT

- **CLASS PROTECTION:** IP67

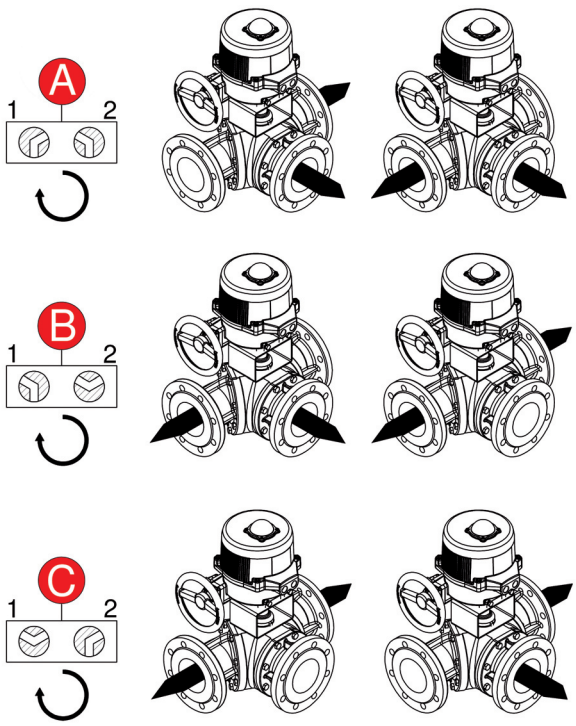
- Manual opening
- 2 extra micro switches
- Not suitable for mixing

CODE	OPERATING TIME 120°	DN	PN
Power supply **100... 240 V • 50 / 60 Hz**			
U22C3F2F6 *	12 SEC	50	16
U22C3G2F6 *	12 SEC	65	16
U22C3H2F6 *	36 SEC	80	16
U22C3I2F6 *	36 SEC	100	16
U22C3L2F6 *	67 SEC	125	16
U22C3M2F6 *	67 SEC	150	16
Power supply **24 V • AC / DC**			
U24C3F2F6 *	12 SEC	50	16
U24C3G2F6 *	12 SEC	65	16
U24C3H2F6 *	36 SEC	80	16
U24C3I2F6 *	36 SEC	100	16
U24C3L2F6 *	67 SEC	125	16
U24C3M2F6 *	67 SEC	150	16

* **add the letter corresponding to the ball position at the end of the code**

PLEASE INDICATE THE POSITION OF THE BALL WHEN ORDERING

1. STARTING position
2. Position AFTER 120° CLOCKWISE



Motorised valve · BUTTERFLY WAFER

PRO Range · ISO 5211 connection

actuator ball valve

Compact PRO ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 45 sec 90°
- **CLASS PROTECTION:** IP67
- **NITRILE SEALING**

- Manual opening
- 2 extra micro switches
- Different operating times and accessories see p. 38
- **Butterfly valves are supplied in opening position and must be installed in open position only.**

CODE	CONNECTION	DN	PN	Kv_s
Power supply **230 V · 50 / 60 Hz**				
CY222AE2G6	Wafer	32 / 40	16	62
Power supply **24 V · 50 / 60 Hz**				
CY242AE2G6	Wafer	32 / 40	16	62

Universal PRO ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 55 sec 90°
- **CLASS PROTECTION:** IP67
- **NITRILE SEALING**

- Manual opening
- 2 extra micro switches
- Different operating times and accessories see p. 38
- **Butterfly valves are supplied in opening position and must be installed in open position only.**

CODE	CONNECTION	DN	PN	Kv_s
Power supply **230 V · 50 Hz**				
UY222AF2G6	Wafer	50	16	79
UY222AG2G6	Wafer	65	16	174
UY222AH2G6	Wafer	80	16	275
UY222AI2G6	Wafer	100	6	496
Power supply **24 V · 50 Hz**				
UY242AF2G6	Wafer	50	16	79
UY242AG2G6	Wafer	65	16	174
UY242AH2G6	Wafer	80	16	275
UY242AI2G6	Wafer	100	6	496

Motorised valve • BUTTERFLY WAFER

Universal

2-POINT • 3-POINT

- **CLASS PROTECTION:** IP67
- **NITRILE SEALING**
- Manual opening
- 2 extra micro switches
- Versions with proportional control available on request
- **Butterfly valves are supplied in opening position and must be installed in open position only.**

CODE	CONNECTION	OPERATING TIME 90°	DN	PS
Power supply **100... 240 V • 50 / 60 Hz**				
U22C5I2F6	Wafer	27 SEC	100	16
U22C5L2F6	Wafer	27 SEC	125	16
U22C5M2F6	Wafer	50 SEC	150	16
U22C5N2F6	Wafer	50 SEC	200	16
U22C5O2F6	Wafer	50 SEC	250	16
Power supply **24 V • AC / DC**				
U24C5I2F6	Wafer	27 SEC	100	16
U24C5L2F6	Wafer	27 SEC	125	16
U24C5M2F6	Wafer	50 SEC	150	16
U24C5N2F6	Wafer	50 SEC	200	16
U24C5O2F6	Wafer	50 SEC	250	16

Accessories

Add the numbers and/or letters listed in the **"ID"** column corresponding to the selected accessories at the end of the base model code.

ID	DESCRIPTION
E	EPDM sealing version
X	Version with STAINLESS STEEL lens
L	LUG version

SEAL MATERIAL FOCUS

NITRILE SEALING

- Range temperature: +5°C / +85°C
- Applications: general industrial circuits with untreated water

EPDM SEALING

- Range temperature: -10°C / +120°C
- Applications: potable water / general industrial circuits

SPACERS

Actuator with **COMPARATO** connection
Ball valve with **COMPARATO** connection

CODE	DESCRIPTION
spacer height: **h 90 mm**	
ADSTD1	spacer
RFASDN90	component: control rod
spacer height: **h 90 mm** · with **MANUAL OVERRIDE**	
ADSTD2 *	spacer
RFAPDCN *	component: control rod with manual override

* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

Actuator with **COMPARATO** connection
Ball valve with **ISO F03 / F04 / F05** connection

CODE	DESCRIPTION
spacer height: **h 90 mm**	
DIDM01	spacer
RFASDI90	component: control rod
spacer height: **h 90 mm** · with **MANUAL OVERRIDE**	
DIDM02 *	spacer
RFAPDCI *	component: control rod with manual override

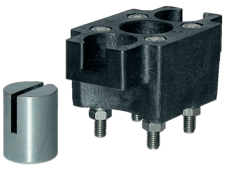
* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

Actuator with **ISO F03 / F05** connection
Ball valve with **ISO F03 / F04 / F05** connection

CODE	DESCRIPTION
spacer height: **h 90 mm**	
DIDM01ISO	spacer
RFASDI90ISO	component: control rod
spacer height: **h 90 mm** · with **MANUAL OVERRIDE**	
DIDM02ISO *	spacer
RFAPDCISO *	component: control rod with manual override

* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

CONNECTION KIT



Actuator with **COMPARATO** connection
Ball valve with **ISO F03** connection

CODE	DESCRIPTION	
AIDM01	connection kit with metal joint	

Actuator with **COMPARATO** connection
Ball valve with **PVC 2-WAY / 3-WAY** connection

CODE	DESCRIPTION	
spacer height: **h 50 mm**		
DIDM03PVC	connection kit	
RFASDPVC	component: control rod	
spacer height: **h 90 mm** • with **MANUAL OVERRIDE**		
DIDM02PVC *	connection kit	
RFAPDPVC *	component: control rod with manual override	

* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

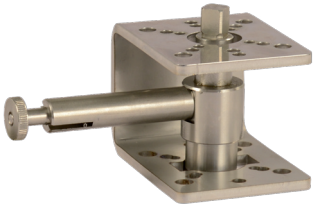
PLEASE SPECIFY WHEN ORDERING THE DIAMETER OF BALL VALVES

CAPS and TANGS

CODE	DESCRIPTION	
STRAIGHT cap		
AC3412	straight 1/2" - tang 3/4"	
AC0134	straight 3/4" - tang 1"	
AC1141	straight 1" - tang 1"1/4	
ECCENTRIC cap		
AC0134E	eccentric 3/4" - tang 1"	

Compact PRO

SPACERS



Actuator with **ISO F03 / F05** connection
Ball valve with **ISO F03 / F04 / F05** connection

CODE	DESCRIPTION
spacer height: **h 90 mm**	
DICOM35	spacer
RFASC90	component: control rod
spacer height: **h 66 mm** · with **MANUAL OVERRIDE**	
DICO05ADC *	spacer
RFAPCDC *	component: control rod with manual override

* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

PVC CONNECTION KIT

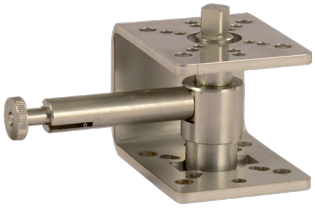
Actuator with **ISO F03 / F05** connection
Ball valve with **PVC 2-WAY / 3 -WAY** connection

CODE	DESCRIPTION
spacer height: **h 66 mm**	
DICO03PVC	connection kit
RFASUPVC	component: control rod
spacer height: **h 90 mm** · with **MANUAL OVERRIDE**	
DICO02PVC *	connection kit
RFAPUPVC *	component: control rod with manual override

* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

PLEASE SPECIFY WHEN ORDERING THE DIAMETER OF BALL VALVES

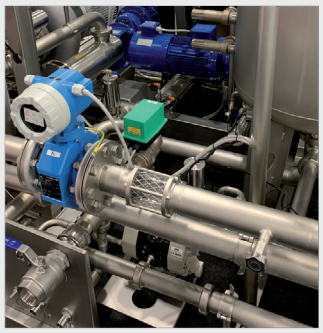
SPACERS



Actuator with **ISO F05 / F07** connection Ball valve with **ISO F03 / F04 / F05 / F07** connection		
CODE	DESCRIPTION	
spacer height: **h 90 mm**		
DICOM57	spacer	
RFASU90	component: control rod	
spacer height: **h 66 mm** • with **MANUAL OVERRIDE**		
DICO07ADC *	spacer	
RFAPUDC *	component: control rod with manual override	

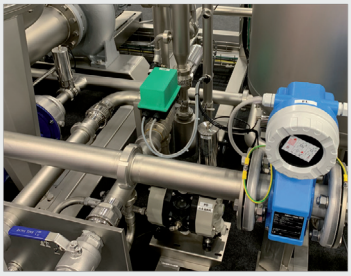
* Not suitable for actuators with EMERGENCY MANUAL OVERRIDE

WINEMAKING PLANTS







MOTORISED VALVES for the WINEMAKING sector and SPARE PARTS

Diamant PRO • COMPARATO connection

ALL IN ONE: 2-POINT • 3-POINT

- **TORQUE:** 11 Nm
- **OPERATING TIMES:** 35 SEC 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES
- ANTI-CONDENSATION KIT

ALL IN ONE JUMPER
for selecting 2-POINT or 3-POINT

CODE	FOR BALL VALVE		POWER SUPPLY	
DY242P2R	2- or 3-WAY	90°	24V	50/60 Hz
DY342P2R	3 WAY	180°	24V	50/60 Hz

2-WAY MM with spacer and manual opening for THERMAL BREAK, full bore

- MAXIMUM FLUID TEMPERATURE: 50°C

CODE	CONNECTION		DN	PN	Kv_s
DC2A2AD9	1/2"	90°	15	16	16,3
DC2B2AD9	3/4"	90°	20	16	29,5
DC2C2AD9	1"	90°	25	16	43

3-WAY MMM with spacer and manual opening for THERMAL BREAK, full bore

- MAXIMUM FLUID TEMPERATURE: 50°C
- BALL POSITIONING P. 6

CODE	CONNECTION		DN	PN	Kv_s
MIXING - DIVERTING 3-HOLE 90° BALL					
DC3B3AD9	3/4"	90°	20	16	11,5
DC3C3AD9	1"	90°	25	16	18,3
DIVERTING 2-HOLE 180° BALL					
DC3B2AD9	3/4"	180°	20	16	11,5
DC3C2AD9	1"	180°	25	16	18,3

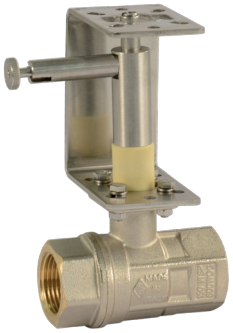
- 3-hole version to be combined with the **90°** version actuator • DY242P2R
- 2-hole version to be combined with the **180°** version actuator • DY342P2R

BRASS valve with THERMAL BREAK

Diamant PRO · COMPARATO connection

2-WAY FF with spacer and manual opening for THERMAL BREAK, full bore

- MAXIMUM FLUID TEMPERATURE: 50°C

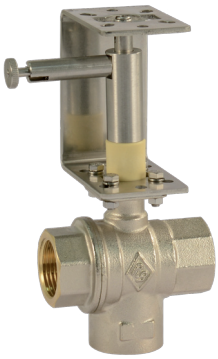


CODE	CONNECTION		DN	PN	Kv_s
DC2S2P5D9	1/4"	90°	-	40	5,4
DC2R2P5D9	3/8"	90°	10	40	6
DC2A2P5D9	1/2"	90°	15	40	16,3
DC2B2P5D9	3/4"	90°	20	40	29,5
DC2C2P5D9	1"	90°	25	40	43
DC2D2P5D9	1"1/4 *	90°	32	40	89

* maximum differential pressure 25 bar, for 40 bar please see Compact series p. 93

3-WAY FFF with spacer and manual opening for THERMAL BREAK, full bore

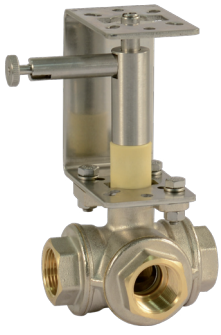
- MAXIMUM FLUID TEMPERATURE: 50°C
- BALL POSITIONING P. 6 - 7



CODE	CONNECTION		DN	PN	Kv_s
MIXING - DIVERTING 3-HOLE 90° BALL					
DC3A3E5D9	1/2"	90°	15	25	6
DC3B3E5D9	3/4"	90°	20	16	11,5
DC3C3E5D9	1" *	90°	25	16	18,3
DIVERTING 2-HOLE 180° BALL					
DC3A2E5D9	1/2"	180°	15	25	6
DC3B2E5D9	3/4"	180°	20	16	11,5
DC3C2E5D9	1" *	180°	25	16	18,3

* maximum differential pressure 10 bar, for 16 bar please see Compact series p. 95

- 3-hole version to be combined with the **90°** version actuator • DY242P2R
- 2-hole version to be combined with the **180°** version actuator • DY342P2R



CODE	CONNECTION		DN	PN	Kv_s
DIVERTING "T"-PORT 90°					
DC3A6E5D9	1/2"	90°	15	30	3,9
DC3B6E5D9	3/4" *	90°	20	30	7,9
DIVERTING "L"-PORT 90°					
DC3A5E5D9	1/2"	90°	15	30	3,9
DC3B5E5D9	3/4" *	90°	20	30	7,9

* maximum differential pressure 16 bar, for 30 bar please see Compact series p. 94

PRO Range • ISO 5211 connection

Compact PRO ALL IN ONE: 2-POINT • 3-POINT

- **TORQUE:** 22 Nm
- **OPERATING TIMES:** 45 SEC 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES
- ANTI-CONDENSATION KIT
- ISO 5211 F03-F05 □9-□11

ALL IN ONE JUMPER
for selecting 2-POINT or 3-POINT

CODE	FOR BALL VALVE		POWER SUPPLY	
CY2422PSAR	2- or 3-WAY	90°	24V	50/60 Hz
CY3422PSAR	3 WAY	180°	24V	50/60 Hz

Universal PRO ALL IN ONE: 2-POINT • 3-POINT

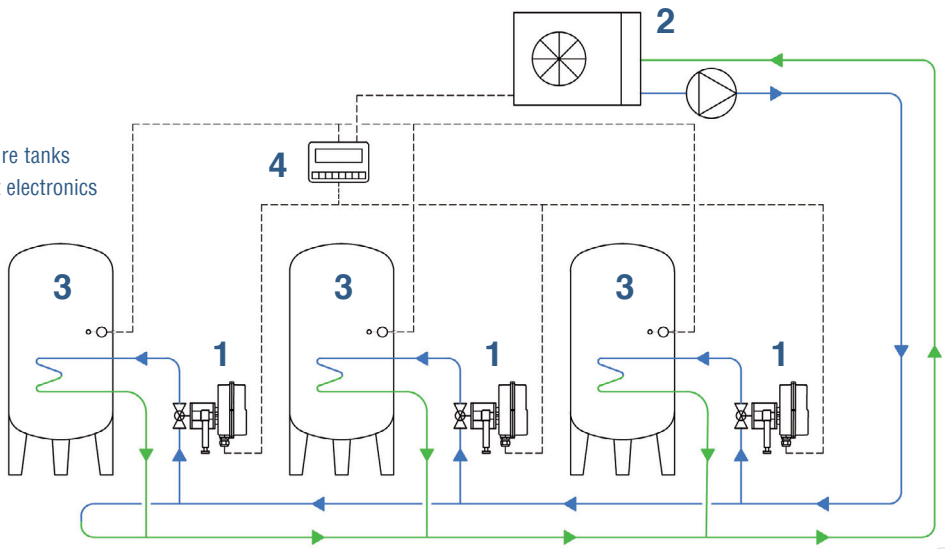
- **TORQUE:** 40 Nm
- **OPERATING TIMES:** 55 SEC 90°
- **CLASS PROTECTION:** IP67
- 2 EXTRA MICRO SWITCHES
- ANTI-CONDENSATION KIT
- ISO 5211 F05-F07 □11-□14

ALL IN ONE JUMPER
for selecting 2-POINT or 3-POINT

CODE	FOR BALL VALVE		POWER SUPPLY	
UY2422PSAR	2- or 3-WAY	90°	24V	50 Hz
UY3422PSAR	3 WAY	180°	24V	50 Hz

EXAMPLE OF USE: WINEMAKING SYSTEM

1 : Diamant PRO
Compact PRO
Universal PRO
2 : Chiller
3 : Controlled-temperature tanks
4 : External management electronics



PRO Range • ISO 5211 connection

Compact PRO ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 45 SEC 90°
- **CLASS PROTECTION:** IP67
- **MAXIMUM FLUID TEMPERATURE:** 50°C
- POWER SUPPLY: 24V 50/60 Hz
- 2 EXTRA MICRO SWITCHES
- ANTI-CONDENSATION KIT

THERMAL BREAK and **MANUAL OPENING**

CODE	CONNECTION	DN	PN	Kv_s
POWER SUPPLY **24 V**				
CY242RD2M5D9	1"1/4	32	40	89
CY242RE2M5D9	1"1/2	40	40	230
CY242RF2M5D9	2" *	50	40	265

* maximum differential pressure 25 bar

Universal PRO ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 55 SEC 90°
- **CLASS PROTECTION:** IP67
- **MAXIMUM FLUID TEMPERATURE:** 50°C
- POWER SUPPLY: 24V 50 Hz
- 2 EXTRA MICRO SWITCHES
- ANTI-CONDENSATION KIT

THERMAL BREAK and **MANUAL OPENING**

CODE	CONNECTION	DN	PN	Kv_s
POWER SUPPLY **24 V**				
UY242RF2M5D9	2"	50	40	265
UY242RG2M5D9	2"1/2	65	25	540
UY242RH2M5D9	3"	80	16	873
UY242RI2M5D9	4" *	100	16	1.390

* maximum differential pressure 6 bar

Motorised valves **3-WAY BRASS with THERMAL BREAK**

PRO Range • ISO 5211 connection

Compact PRO ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 45 SEC 90°
- **CLASS PROTECTION:** IP67
- **MAXIMUM FLUID TEMPERATURE:** 50°C
- POWER SUPPLY: 24V 50/60 Hz
- 2 EXTRA MICRO SWITCHES
- ANTI-CONDENSATION KIT
- BALL POSITIONING P. 6

THERMAL BREAK and **MANUAL OPENING**

CODE	CONNECTION	DN	PN	Kv_s
MIXING - DIVERTING 3-HOLE 90° BALL				
CY242RC3E5D9	1"	25	16	18,3
CY242RD3E5D9	1"1/4	32	10	27,2
CY242RE3E5D9	1"1/2 *	40	10	47,3
DIVERTING 2-HOLE 180° BALL				
CY342RC2E5D9	1"	25	16	18,3
CY342RD2E5D9	1"1/4	32	10	27,2
CY342RE2E5D9	1"1/2 *	40	10	47,3

* maximum differential pressure 6 bar

Universal PRO ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 55 SEC 90°
- **CLASS PROTECTION:** IP67
- **MAXIMUM FLUID TEMPERATURE:** 50°C
- POWER SUPPLY: 24V 50/60 Hz
- 2 EXTRA MICRO SWITCHES
- ANTI-CONDENSATION KIT
- BALL POSITIONING P. 6

THERMAL BREAK and **MANUAL OPENING**

CODE	CONNECTION	DN	PN	Kv_s
MIXING - DIVERTING 3-HOLE 90° BALL				
UY242RE3E5D9	1"1/2	40	10	47,3
UY242RF3E5D9	2"	50	10	73
DIVERTING 2-HOLE 180° BALL				
UY342RE2E5D9	1"1/2	40	10	47,3
UY342RF2E5D9	2"	50	10	73

Motorised valves **3-WAY BRASS with THERMAL BREAK**

PRO Range • ISO 5211 connection

Compact PRO ALL IN ONE: 2-POINT • 3-POINT

- **OPERATING TIMES:** 45 SEC 90°
- **CLASS PROTECTION:** IP67
- **MAXIMUM FLUID TEMPERATURE:** 50°C
- POWER SUPPLY: 24V 50/60 Hz
- 2 EXTRA MICRO SWITCHES
- ANTI-CONDENSATION KIT
- BALL POSITIONING P. 7

THERMAL BREAK and **MANUAL OPENING**

CODE	CONNECTION	DN	PN	Kv_s
DIVERTING "T"-PORT				
CY242RB6E5D9	3/4"	20	30	7,9
CY242RC6E5D9	1"	25	16	13
CY242RD6E5D9	1"1/4 *	32	10	20,7
DIVERTING "L"-PORT				
CY242RB5E5D9	3/4"	20	30	7,9
CY242RC5E5D9	1"	25	16	13
CY242RD5E5D9	1"1/4 *	32	10	20,7

* maximum differential pressure 6 bar

Universal PRO ALL IN ONE: 2-POINT • 3-POINT

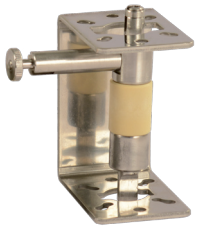
- **OPERATING TIMES:** 55 SEC 90°
- **CLASS PROTECTION:** IP67
- **MAXIMUM FLUID TEMPERATURE:** 50°C
- POWER SUPPLY: 24V 50/60 Hz
- 2 EXTRA MICRO SWITCHES
- ANTI-CONDENSATION KIT
- BALL POSITIONING P. 7

THERMAL BREAK and **MANUAL OPENING**

CODE	CONNECTION	DN	PN	Kv_s
DIVERTING "T"-PORT				
UY242RD6E5D9	1"1/4	32	10	20,7
UY242RE6E5D9	1"1/2	40	10	38,7
UY242RF6E5D9	2"	50	10	54
DIVERTING "L"-PORT				
UY242RD5E5D9	1"1/4	32	10	20,7
UY242RE5E5D9	1"1/2	40	10	38,7
UY242RF5E5D9	2"	50	10	54

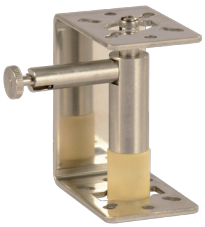
PRO Range • ISO 5211 connection

Diamant PRO



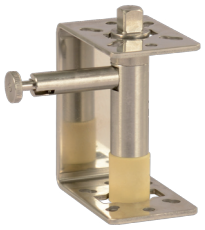
Actuator with **COMPARATO** connection
Ball valve with **COMPARATO** connection

CODE	DESCRIPTION
spacer height: **90 mm**	
ADSTD9	spacer
RFAPTTN	component: control rod with manual override



Actuator with **COMPARATO** connection
Ball valve with **ISO 5211 F03 / F04 / F05** connection

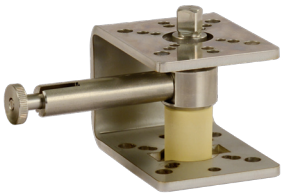
CODE	DESCRIPTION
spacer height: **90 mm**	
DIDMD9	spacer
RFAPTTI	component: control rod with manual override



Actuator with **ISO 5211 F03 / F05** connection
Ball valve with **ISO 5211 F03 / F04 / F05** connection

CODE	DESCRIPTION
spacer height: **90 mm**	
DIDMD9ISO	spacer
RFAPTTF	component: control rod with manual opening

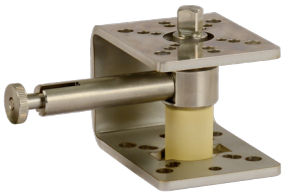
Compact PRO



Actuator with **ISO 5211 F03 / F05** connection
Ball valve with **ISO 5211 F03 / F04 / F05** connection

CODE	DESCRIPTION
spacer height: **66 mm**	
DICO05AD9	spacer
RFAPCTT	component: control rod with manual override

Universal PRO



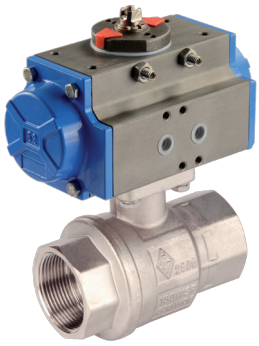
Actuator with **ISO 5211 F05 / F07** connection
Ball valve with **ISO 5211 F03 / F04 / F05 / F07** connection

CODE	DESCRIPTION
spacer height: **66 mm**	
DICO07AD9	spacer
RFAPUTT	component: control rod with manual override

UNIVERSAL PNEUMATIC

Universal Pneumatic

2-WAY BRASS FF, full bore

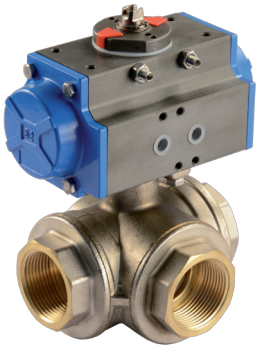


CODE	Ø	PN		CODE	Ø	PN
SPRING RETURN actuator				**DOUBLE ACTING** actuator		
P7000460014	1/4"	40		P7000450014 *	1/4"	40
P7000460038	3/8"	40		P7000450038 *	3/8"	40
P7000460012	1/2"	40		P7000450012 *	1/2"	40
P7000460034	3/4"	40		P7000450034 *	3/4"	40
P7000460001	1"	40		P7000450001 *	1"	40
P7000460114	1"1/4	40		P7000450114 *	1"1/4	40
P7000460112	1"1/2	40		P7000450112	1"1/2	40
P7000460002	2"	40		P7000450002	2"	40
P7000460212	2"1/2	25		P7000450212	2"1/2	25
P7000460003	3"	16		P7000450003	3"	16
P7000460004	4"	16		P7000450004	4"	16

* connection kit for solenoid valve: BADA32

"T"-PORT • 3-WAY FFF DIVERTING, full bore

- **FOR VERSION SUPPLY "L" PORT please add "L" to the basic code**
- **Ball positioning see p. 7**

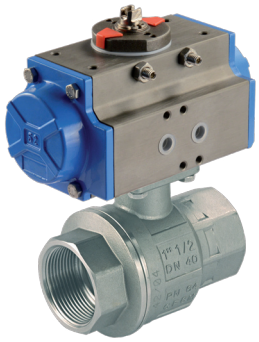


CODE	Ø	PN		CODE	Ø	PN
SPRING RETURN actuator				**DOUBLE ACTING** actuator		
P7000660012	1/2"	30		P7000650012 *	1/2"	30
P7000660034	3/4"	30		P7000650034	3/4"	30
P7000660001	1"	16		P7000650001	1"	16
P7000660114	1"1/4	10		P7000650114	1"1/4	10
P7000660112	1"1/2	10		P7000650112	1"1/2	10
P7000660002	2"	10		P7000650002	2"	10

* connection kit for solenoid valve: BADA32

2-WAY AISI 316 FF, full bore

- **FOR 3-WAY VERSION AND OTHER MODELS QUOTATIONS ON REQUEST**

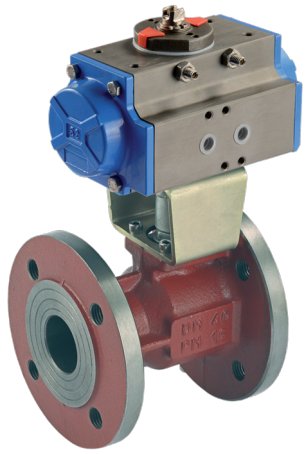


CODE	Ø	PN		CODE	Ø	PN
SPRING RETURN actuator				**DOUBLE ACTING** actuator		
P7000830012	1/2"	64		P7000820012 *	1/2"	64
P7000830034	3/4"	64		P7000820034 *	3/4"	64
P7000830001	1"	64		P7000820001 *	1"	64
P7000830114	1"1/4	64		P7000820114 *	1"1/4	64
P7000830112	1"1/2	64		P7000820112	1"1/2	64
P7000830002	2"	64		P7000820002	2"	64

* connection kit for solenoid valve: BADA32

Universal Pneumatic

2-WAY FLANGED CAST IRON, full bore

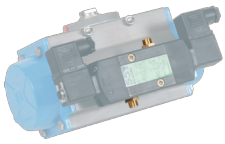


CODE	DN	PN
SPRING RETURN actuator		
P7300220001	25	40
P7300220114	32	40
P7300220112	40	40
P7300220002	50	40
P7300220212	65	40
P7300220003	80	40
P7300220004	100	40
P7300220005	125	40
P7300220006	150	25

CODE	DN	PN
DOUBLE ACTING actuator		
P7300120001	25	40
P7300120114	32	40
P7300120112	40	40
P7300120002	50	40
P7300120212	65	40
P7300120003	80	40
P7300120004	100	40
P7300120005	125	40
P7300120006	150	25

Accessories

NAMUR MONOSTABILE SOLENOID VALVE 3/2 - 5/2



SPEED REGULATOR FOR NAMUR SOLENOID VALVE

CONNECTION FOR SOLENOID VALVE NAMUR KIT

LIMIT-SWITCHES BOX IP65

*** NECESSARY EXCLUSIVELY FOR THOSE CODES WITH ASTERISK**

CODE	DESCRIPTION
EVN24AC	NAMUR solenoid valve 24V AC
EVN24DC	NAMUR solenoid valve 24V DC
EVN110AC50	NAMUR solenoid valve 110V AC 50Hz
EVN220AC	NAMUR solenoid valve 230V AC
RVN	Speed regulator for NAMUR solenoid valve
BADA32 *	Connection kit for Namur solenoid valve for double effect pneumatic actuator DA 32
BMFC	Box with 2 electromechanical limit switch
BMFCDA32 *	Box with 2 electromechanical limit switch for DA 32

OTHER MODELS AVAILABLE ON REQUEST

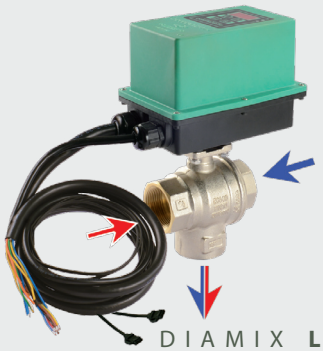
FOR INFORMATION, PLEASE CONTACT OUR OFFICES

+39 019 510.371 • info@comparato.com

COMPARATO TOOL

SPECIFIC TOOLS for MIXING VALVES AT YOUR SERVICE!

COMPARATO softwares make the access to all functions of the actuated valves with built-in electronics easy: thanks to a RS485 serial port with Modbus RTU communication protocol it is possible to set all values and settings easily and to monitor the functioning status of the plant.



DIAMIX L

Modbus

DIMMIX
valve size calculations for **DIAMIX L** and **COMPAMIX L** actuated valves

LEGIOTOOL
datalogger function for Anti-Legionella cycles for **DIAMIX L** and **COMPAMIX L** mixing valves

MIXTOOL
programming and control of **DIAMIX PLUS** and **COMPAMIX PLUS** mixing valves

PRTOOL
management and programming of **DIAMIX PR** and **COMPAMIX PR** mixing valves for radiant panel

CLIMA PDC TOOL
management of **CLIMA PDC** diverting valves for hybrid system with heat pump

MIXING VALVES: REGULATION with BUILT-IN ELECTRONICS

DIAMIX
COMPAMIX

Fixed-point

102

DIAMIX PLUS
COMPAMIX PLUS Modbus

Fixed-point
High-temperature weather compensation function
Setpoint signal 0–10V

104

DIAMIX PR
COMPAMIX PR Modbus

Radiant panels

106

DIAMIX L
COMPAMIX L Modbus

Domestic water
Anti-Legionella

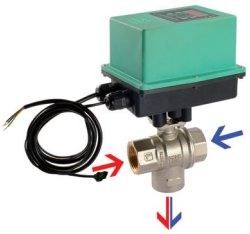
108

Diamix • Compamix

FIXED-point

- **OPERATING TIMES:**
  DIAMIX 35 SEC 90°
  COMPAMIX 45 SEC 90°
- **ADJUSTMENT RANGE:** -15°C to 90°C
- **CLASS PROTECTION:** IP67
- **POWER SUPPLY:** 230V 50/60 Hz
- **110V VERSION ON REQUEST**

FUNCTIONS:
- Fixed-point temperature control



CODE	CONNECTION	Kv_s	DN	PN	Δp max
VERTICAL MIXED OUTLET · MMM					
DIAMIXNB	3/4"	11,5	20	16	16 bar
DIAMIXNC	1"	18,3	25	16	16 bar
VERTICAL MIXED OUTLET · FFF					
DIAMIXNFA	1/2"	6	15	25	25 bar
DIAMIXNFB	3/4"	11,5	20	16	16 bar
DIAMIXNFC	1"	18,3	25	16	16 bar
COMPAMIXD	1"1/4	27,2	32	10	10 bar
COMPAMIXE	1"1/2	47,3	40	10	6 bar
COMPAMIXF	2"	73	50	10	4 bar
HORIZONTAL-LINE MIXED OUTLET · FFF					
DIAMIXNFAM *	1/2"	6 **	15	16	3,4 bar
DIAMIXNFBM *	3/4"	4,8 **	20	16	3,4 bar
DIAMIXNFCM *	1"	8,6 **	25	16	3,4 bar
DIAMIXNFDM *	1"1/4	12,8 **	32	16	3,4 bar
DIAMIXNFEM *	1"1/2	11,5 **	40	16	3,4 bar
DIAMIXNFFM *	2"	19,5 **	50	16	3,4 bar
VERTICAL-LINE MIXED OUTLET					
DIAMIXNFBV *	3/4" MMM	6,7 **	20	16	3,5 bar
DIAMIXNFCV *	1" MMM	11,4 **	25	16	3,5 bar
DIAMIXNFDV *	1"1/4 MMM	17,5 **	32	16	3,5 bar
DIAMIXNFEV *	1"1/2 FFF	26,8 **	40	16	3,5 bar
DIAMIXNFFV *	2" FFF	52,6 **	50	16	3,5 bar

* only for heating/cooling application

** the value refers to the most disadvantaged way (L)

4 SECOND VERSION • **FAST**

FAST VERSION

CODE	CONNECTION	Kv_s	DN	PN	Δp max
VERTICAL MIXED OUTLET · FFF					
DIAMIXNFAQ	1/2"	6	15	25	25 bar

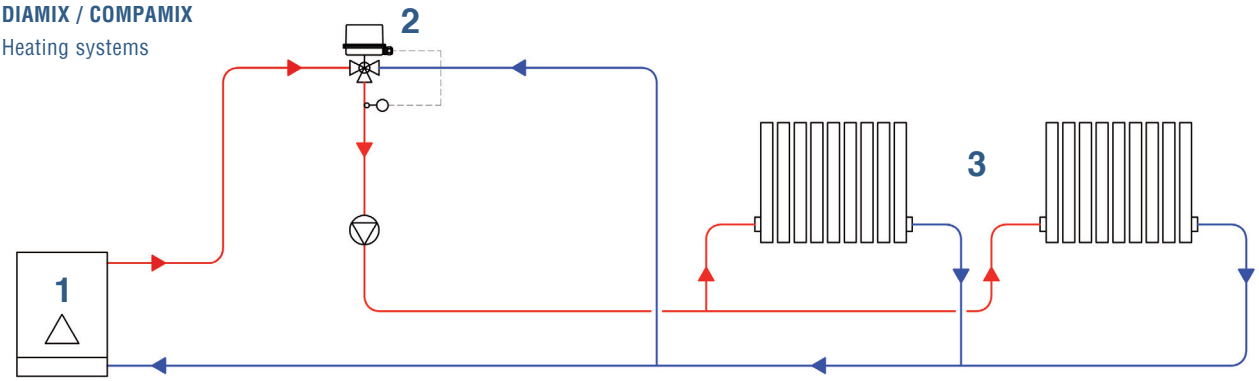
Accessories

Add the numbers and/or letters listed in the **"ID"** column corresponding to the selected accessories at the end of the base model code. Code example: DIAMIXNB**K**

ID	DESCRIPTION	NOTES
K	Brass immersion temperature probe	G 1/8" - pocket not included
04	24V 50-60 Hz version	
D1	Spacer for insulation	Diamix - h 90 Compamix - h 90
D2	Spacer for insulation and manual opening	Diamix - h 90 Compamix - h 66

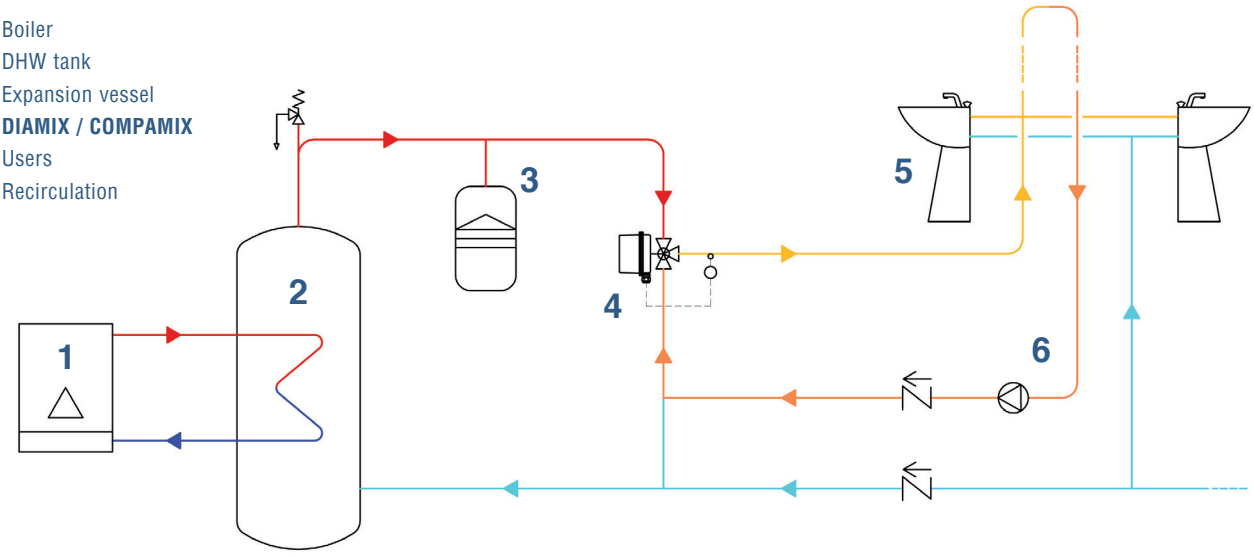
EXAMPLE OF USE: HEATING

1 : Boiler
2 : **DIAMIX / COMPAMIX**
3 : Heating systems



EXAMPLE OF USE: DOMESTIC

1 : Boiler
2 : DHW tank
3 : Expansion vessel
4 : **DIAMIX / COMPAMIX**
5 : Users
6 : Recirculation

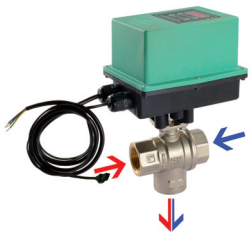


Diamix PLUS • Compamix PLUS

FIXED-point • HIGHT-TEMPERATURE weather compensation • Setpoint 0 - 10V Modbus

- **OPERATING TIMES:**
  DIAMIX PLUS 35 SEC 90°
  COMPAMIX PLUS 45 SEC 90°
- **ADJUSTMENT RANGE:** -15°C to 90°C
- **CLASS PROTECTION:** IP67
- **POWER SUPPLY:** 230V 50/60 Hz
- **110V VERSION ON REQUEST**

FUNCTIONS:
- Fixed-point temperature control
- Temperature control with weather compensation function, high/medium temperature systems
- Remote control of the temperature, fixed-point, remote setpoint setting with 0-10V signal
- Remote management with Modbus-RTU protocol
- Comparato MixTool software for the communication between PC and mixing valve



CODE	CONNECTION	Kv_s	DN	PN	Δp max
VERTICAL MIXED OUTLET · MMM					
DIAMIXPB	3/4"	11,5	20	16	16 bar
DIAMIXPC	1"	18,3	25	16	16 bar
VERTICAL MIXED OUTLET · FFF					
DIAMIXPFA	1/2"	6	15	25	25 bar
DIAMIXPFB	3/4"	11,5	20	16	16 bar
DIAMIXPFC	1"	18,3	25	16	16 bar
COMPAMIXPD	1"1/4	27,2	32	10	10 bar
COMPAMIXPE	1"1/2	47,3	40	10	6 bar
COMPAMIXPF	2"	73	50	10	4 bar
HORIZONTAL-LINE MIXED OUTLET · FFF					
DIAMIXPFAM *	1/2"	6 **	15	16	3,4 bar
DIAMIXPFBM *	3/4"	4,8 **	20	16	3,4 bar
DIAMIXPFCM *	1"	8,6 **	25	16	3,4 bar
DIAMIXPFDM *	1"1/4	12,8 **	32	16	3,4 bar
DIAMIXPFEM *	1"1/2	11,5 **	40	16	3,4 bar
DIAMIXPFFM *	2"	19,5 **	50	16	3,4 bar
VERTICAL-LINE MIXED OUTLET					
DIAMIXPFBV *	3/4" MMM	6,7 **	20	16	3,5 bar
DIAMIXPFCV *	1" MMM	11,4 **	25	16	3,5 bar
DIAMIXPFDV *	1"1/4 MMM	17,5 **	32	16	3,5 bar
DIAMIXPFEV *	1"1/2 FFF	26,8 **	40	16	3,5 bar
DIAMIXPFFV *	2" FFF	52,6 **	50	16	3,5 bar

* only for heating/cooling application

** the value refers to the most disadvantaged way (L)

4 SECOND VERSION • **FAST**

FAST VERSION

CODE	CONNECTION	Kv_s	DN	PN	Δp max
VERTICAL MIXED OUTLET · FFF					
DIAMIXPFAQ	1/2"	6	15	25	25 bar

Accessories

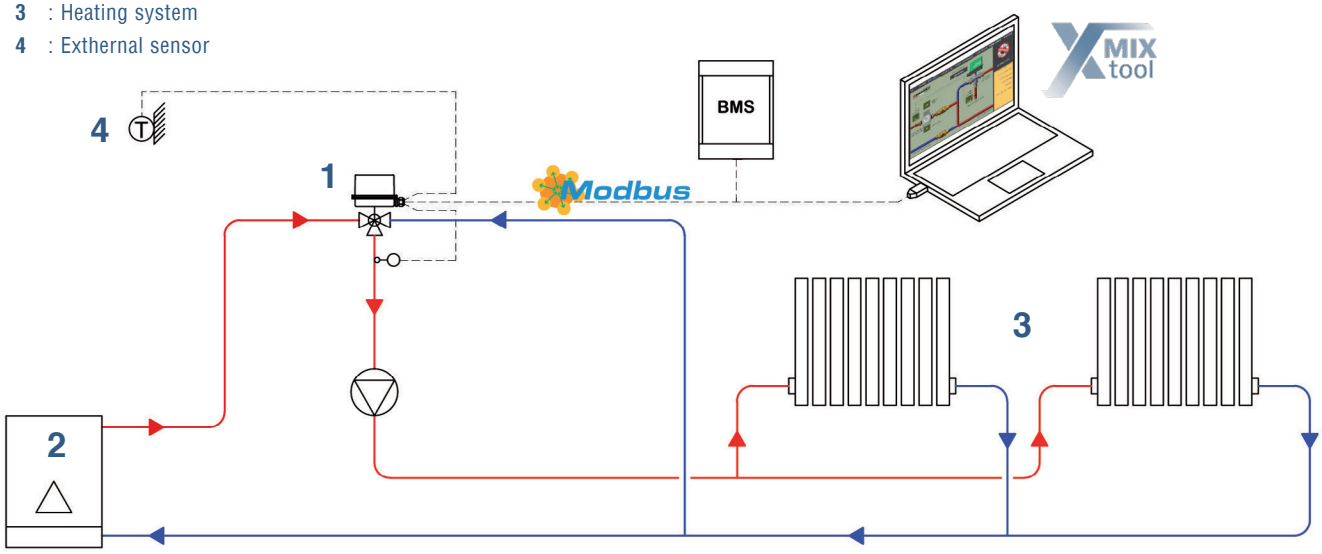
Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: DIAMIXPB**K**

ID	DESCRIPTION	NOTES
K	Brass immersion temperature probe	G 1/8" - pocket not included
04	24V 50-60 Hz version	
D1	Spacer for insulation	Diamix PLUS - h 90 Compamix PLUS - h 90
D2	Spacer for insulation and manual opening	Diamix PLUS - h 90 Compamix PLUS - h 66

CODE	DESCRIPTION
RFSONDAE	Sensor for external temperature for weather compensation
USBMOD	Modbus - USB interface

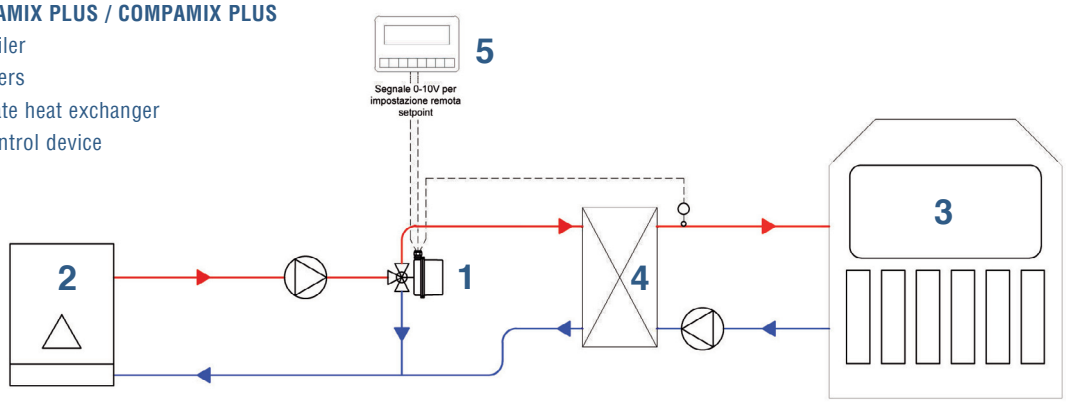
EXAMPLE OF USE: HEATING

1 : **DIAMIX PLUS / COMPAMIX PLUS**
2 : Boiler
3 : Heating system
4 : Exthernal sensor



EXAMPLE OF USE: REMOTE SETPOINT ADJUSTMENT

1 : **DIAMIX PLUS / COMPAMIX PLUS**
2 : Boiler
3 : Users
4 : Plate heat exchanger
5 : Control device

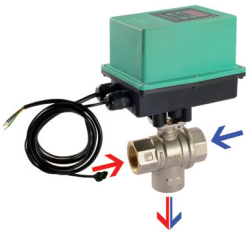


Diamix PR • Compamix PR

RADIANT PANELS

- **OPERATING TIMES:**
  DIAMIX PR 35 SEC 90°
  COMPAMIX PR 45 SEC 90°
- **CLASS PROTECTION:** IP67
- **POWER SUPPLY:** 230V 50/60 Hz
- **110V VERSION ON REQUEST**
- **ADJUSTMENT RANGE:** 24°C to 50°C Heating
  10°C to 30°C Cooling

FUNCTIONS:
- RADIANT PANELS temperature regulation
- Fixed-point or weather compensation function
- Fixed-point or dew-point temperature tracking cooling
- Summer/winter switching
- Dehumidifier system control
- Remote management with Modbus-RTU protocol
- Comparato PRTool software for the communication between PC and mixing valve



CODE	CONNECTION	Kv_s	DN	PN	Δp max
VERTICAL MIXED OUTLET · MMM					
DIAMIXPBPR	3/4"	11,5	20	16	16 bar
DIAMIXPCPR	1"	18,3	25	16	16 bar
VERTICAL MIXED OUTLET · FFF					
DIAMIXPFAPR	1/2"	6	15	25	25 bar
DIAMIXPFBPR	3/4"	11,5	20	16	16 bar
DIAMIXPFCPR	1"	18,3	25	16	16 bar
COMPAMIXPDPR	1"1/4	27,2	32	10	10 bar
COMPAMIXPEPR	1"1/2	47,3	40	10	6 bar
COMPAMIXPFPR	2"	73	50	10	4 bar
HORIZONTAL-LINE MIXED OUTLET · FFF					
DIAMIXPFAPRM	1/2"	6 *	15	16	3,4 bar
DIAMIXPFBPRM	3/4"	4,8 *	20	16	3,4 bar
DIAMIXPFCPRM	1"	8,6 *	25	16	3,4 bar
DIAMIXPFDPRM	1"1/4	12,8 *	32	16	3,4 bar
DIAMIXPFEPRM	1"1/2	11,5 *	40	16	3,4 bar
DIAMIXPFFPRM	2"	19,5 *	50	16	3,4 bar
VERTICAL-LINE MIXED OUTLET					
DIAMIXPFBPRV	3/4" MMM	6,7 *	20	16	3,5 bar
DIAMIXPFCPRV	1" MMM	11,4 *	25	16	3,5 bar
DIAMIXPFDPRV	1"1/4 MMM	17,5 *	32	16	3,5 bar
DIAMIXPFEPRV	1"1/2 FFF	26,8 *	40	16	3,5 bar
DIAMIXPFFPRV	2" FFF	52,6 *	50	16	3,5 bar

* the value refers to the most disadvantaged way (L)

Accessories

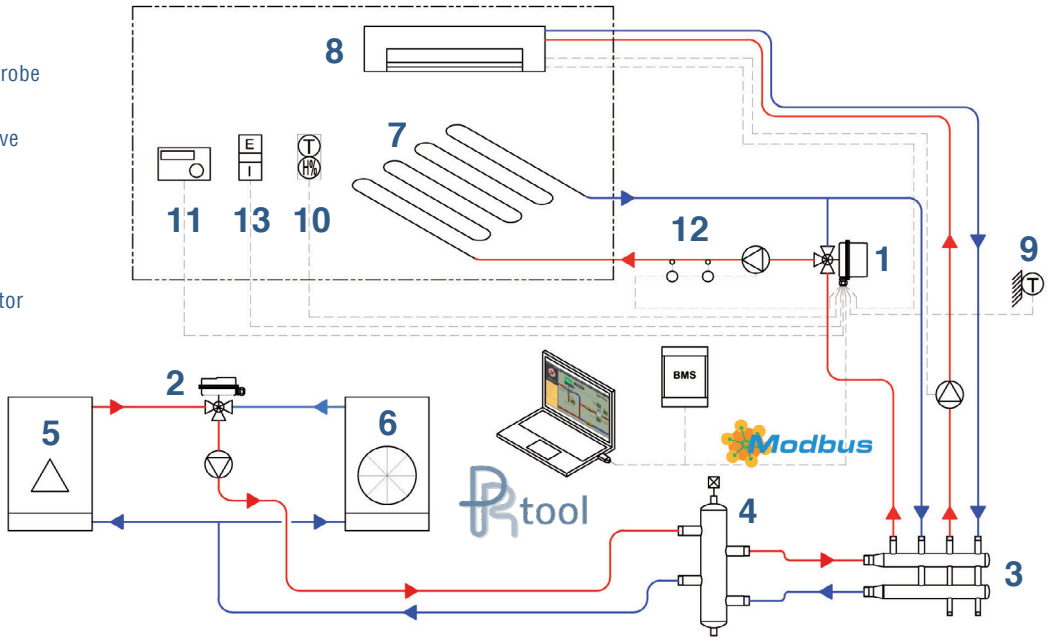
Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: DIAMIXPBPR**K**

ID	DESCRIPTION	NOTES
K	Brass immersion temperature probe	G 1/8" - pocket not included
04	24V 50-60 Hz version	
D1	Spacer for insulation	Diamix PR - h 90 Compamix PR - h 90
D2	Spacer for insulation and manual opening	Diamix PR - h 90 Compamix PR - h 66

CODE	DESCRIPTION
RFSONDAE	Sensor for external temperature for weather compensation
AL24VDC	Power supply 24 V DC
RFTRUEE10	Temperature and humity probe for anti-condensing function
see p. 202	Room thermostat
USBMOD	Modbus-USB interface

EXAMPLE OF USE: RADIANT PANEL HEATING / COOLING

1 : **DIAMIX PR / COMPAMIX PR**
2 : Diamant PRO / Compact PRO / Universal PRO
3 : DIACOL manifold
4 : DIACOM hydraulic separator
5 : Boiler
6 : Chiller
7 : Radiant panel system
8 : Dehumidifier
9 : External temperature probe for climatic function
10 : Temperature and relative humidity sensor
11 : Room thermostat
12 : Safety thermostats heating / cooling
13 : Summer / winter selector



Diamix L • Compamix L

ANTI-LEGIONELLA FUNCTION

- **OPERATING TIMES:**
  DIAMIX L 12 SEC 90°
  COMPAMIX L 45 SEC 90°
- **ADJUSTMENT RANGE:** 30°C to 65°C
- **CLASS PROTECTION:** IP67
- **POWER SUPPLY:** 230V 50/60 Hz
- **110V VERSION ON REQUEST**

FUNCTIONS:
- Domestic hot water mixing
- Programmable thermal disinfection cycle
- Completed cycle storage
- Recirculation pump hour scheduling
- Remote management with Modbus-RTU protocol
- Comparato LegioTool software for the communication between PC and mixing valve
- Comparato DIMmix software for Mixing Valve sizing

CODE	CONNECTION	Kv_s	DN	PN	Δp max
VERTICAL MIXED OUTLET · MMM					
DIAMIXPBL *	3/4"	11,5	20	16	16 bar
DIAMIXPCL *	1"	18,3	25	16	16 bar
VERTICAL MIXED OUTLET · FFF					
DIAMIXPFAL *	1/2"	6	15	25	25 bar
DIAMIXPFBL *	3/4"	11,5	20	16	16 bar
DIAMIXPFCL *	1"	18,3	25	16	16 bar
COMPAMIXPDL	1"1/4	27,2	32	10	10 bar
COMPAMIXPEL	1"1/2	47,3	40	10	6 bar
COMPAMIXPFL	2"	73	50	10	4 bar

* Power supply 230V 60Hz on request

ANTI-LEGIONELLA FUNCTION FOCUS

Besides all the functions of standard version, Diamix L or Compamix L mixing / thermo-regulating valve has a specific software which allows the actuator to make autonomously all processes of thermal disinfection in plants with recirculation ring. In this way, the danger **of presence and proliferation of legionella bacteria is noticeably reduced**. The multiple variables connected to the realization of plants where this equipment can be installed are so numerous that it is impossible to totally exclude the risk.

Accessories

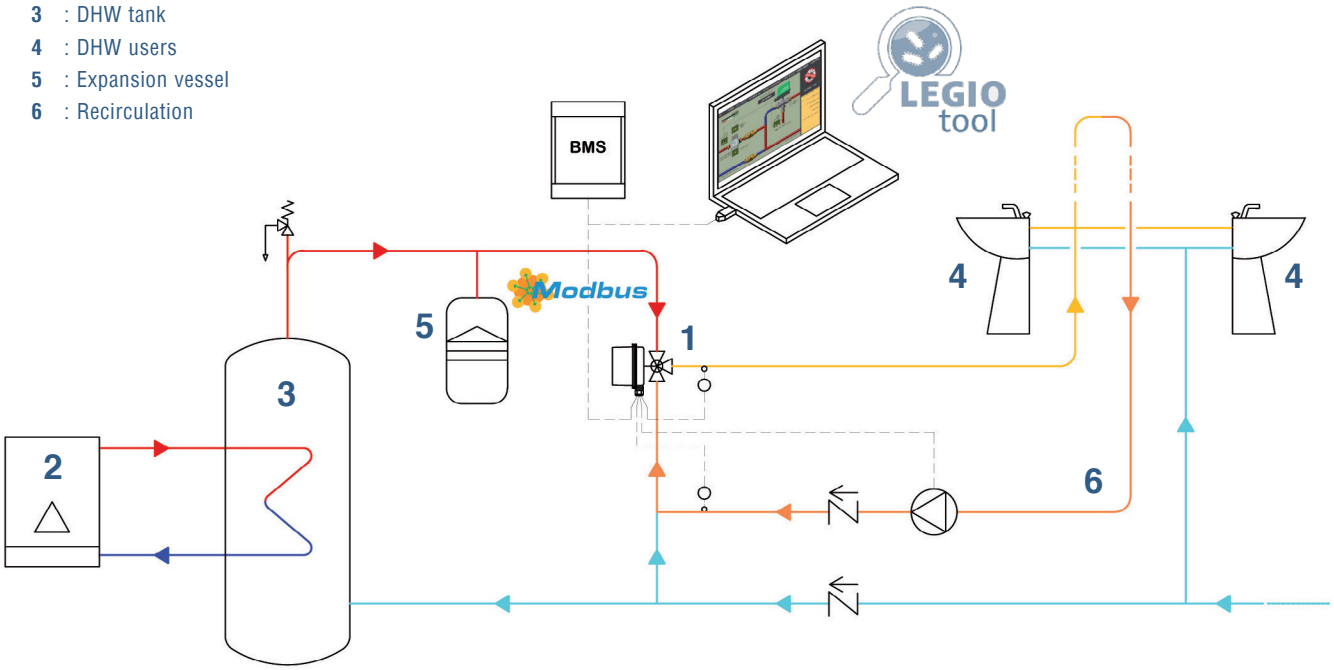
Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code. Code example: DIAMIXPBL**K**

ID	DESCRIPTION		NOTE
K	Brass immersion temperature probe		G 1/8" - pocket not included
04	24V 50-60 Hz version		
D1	Spacer for insulation		Diamix L - h 90 Compamix L - h 90
D2	Spacer for insulation and manual opening		Diamix L - h 90 Compamix L - h 66

CODE	DESCRIPTION		
USBMOD	Modbus-USB interface		

EXAMPLE OF USE: DOMESTIC HOT WATER SYSTEM

1 : **DIAMIX L / COMPAMIX L**
2 : Boiler
3 : DHW tank
4 : DHW users
5 : Expansion vessel
6 : Recirculation



MIXING VALVES
with **BUILT-IN ELECTRONIC**

DIAMIX **L**

DIAMIX **PR**

DIAMIX **PLUS**

A Building Management System is a system designed for buildings, which controls and monitors their systems and their mechanical and electrical equipments. It allows the remote management through a single interface. The manager has full remote access to the control, feedback and programming of each unit. The new generation of Comparato's thermoregulating valves interface with BMS systems through a Modbus-RTU communication protocol.

The Modbus is an open communication protocol which is now the effective standard all around the world. Its easy implementation makes the Modbus very popular in the building automation industry, too.

BALANCING SYSTEMS

SINTESI

PICV Balancing ball valve

- **P.I.C.V.:** PRESSURE INDEPENDENT CONTROL VALVE
- **EQUAL PERCENTAGE BALL PROFILE**
- **SHUT-OFF FUNCTION**
- **APPLICATION EXAMPLE** P. 113

CODE	CONNECTION	DN	PN	Qmax [l/h]
SCPV15A	1/2"	15	25	360
SCPV15B	1/2"	15	25	700
SCPV15C	1/2"	15	25	1.000
SCPV20A	3/4"	20	25	780
SCPV20B	3/4"	20	25	1.150
SCPV25A	1"	25	25	2.200
SCPV25B	1"	25	25	2.700
SCPV32A	1"1/4	25	25	3.000
SCPV32B	1"1/4	25	25	4.000

Diamant · COMPARATO connection

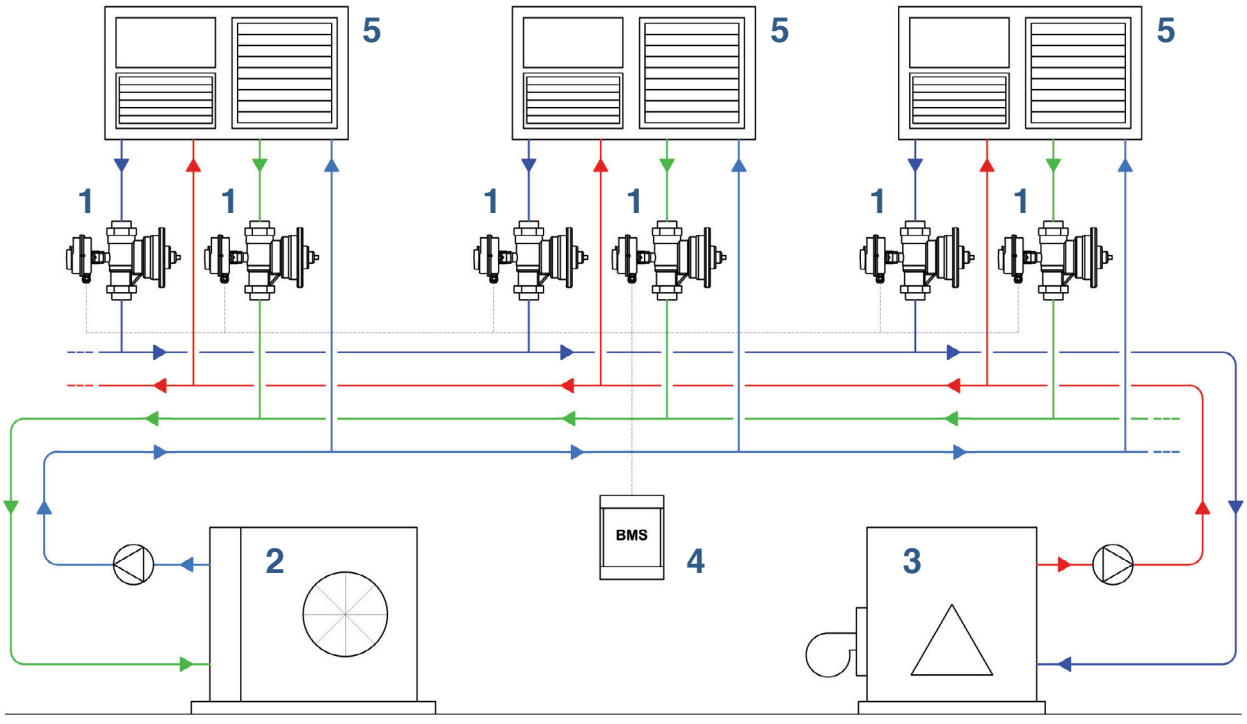
PICV Balancing ball valve

- **P.I.C.V.:** PRESSURE INDEPENDENT CONTROL VALVE
- **EQUAL PERCENTAGE BALL PROFILE**
- **SHUT-OFF FUNCTION**

CODE	CONNECTION	DN	PN	Qmax [l/h]
DCPV40A	1"1/2	40	16	6.000
DCPV40B	1"1/2	40	16	9.000
DCPV50A	2"	50	16	12.000
DCPV50B	2"	50	16	18.000

EXAMPLE OF USE: 4-PIPE HEATING / COOLING SYSTEM

1 : **Diamant PILOT PICV**
2 : Chiller
3 : Boiler
4 : External management electronics
5 : A.H.U.



THE PICV COMBINES THE DIFFERENTIAL PRESSURE CONTROL FUNCTION WITH THE FEATURES OF A REGULATION VALVE AND A 2-WAY CONTROL VALVE.

ePICV

Regulating valves for electronic flow control

FEATURES AND FUNCTIONS

- Pressure-independent flow rate control
- 2-way regulating ball valve with equal percentage profile
- Shut-off function
- Flow sensor with Vortex technology
- Integrated control panel and datalogger function
- Analogue signal 0-10V for flow rate setpoint
- Modbus-RTU remote management

CODE	CONNECTION	DN	PN *	Kvs (m³/h)	FLOW RATE min/max
POWER SUPPLY **230V 50/60 Hz**					
EPICV2215	G1/2"B	15	8	1,2	0,05 ÷ 0,9 m³/h
EPICV2220	G3/4"B	20	8	2,8	0,11 ÷ 1,9 m³/h
EPICV2225	G1"B	25	8	4,7	0,21 ÷ 3,0 m³/h
EPICV2232	G1"1/4B	32	8	7,7	0,3 ÷ 5,1 m³/h
EPICV2240	G1"1/2B	40	8	12,4	0,54 ÷ 9,0 m³/h
POWER SUPPLY **24V 50/60 Hz**					
EPICV2415	G1/2"B	15	8	1,2	0,05 ÷ 0,9 m³/h
EPICV2420	G3/4"B	20	8	2,8	0,11 ÷ 1,9 m³/h
EPICV2425	G1"B	25	8	4,7	0,21 ÷ 3,0 m³/h
EPICV2432	G1"1/4B	32	8	7,7	0,3 ÷ 5,1 m³/h
EPICV2440	G1"1/2B	40	8	12,4	0,54 ÷ 9,0 m³/h

* PN16 version available on request

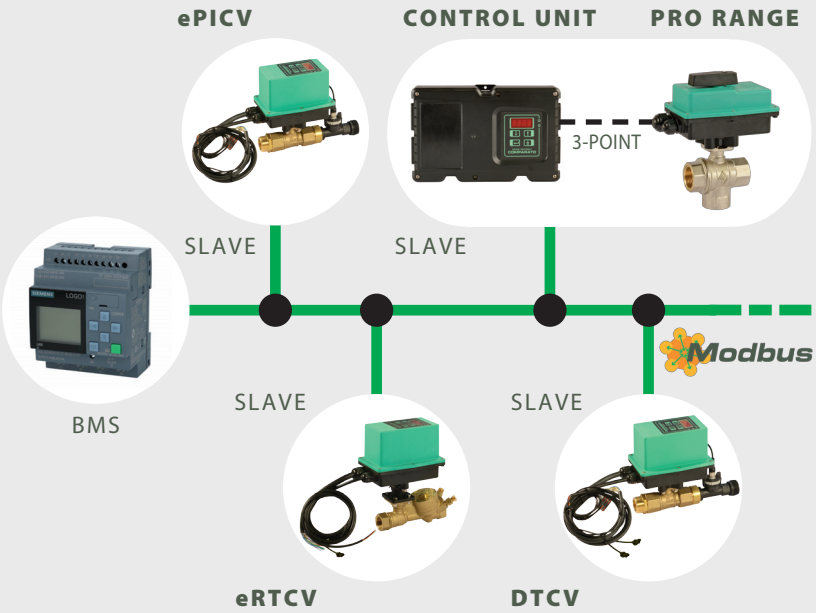
Accessories

CODE	DN
INSULATION	
CBCV15	15
CBCV20	20
CBCV25	25
CBCV32	32
CBCV40	40

Modbus is a communication serial protocol commonly used in industrial automations.

- STANDARD
- EASY TO USE
- RAPIDITY
- NO HARDWARE LIMITS
- RELIABLE COMMUNICATION

SYSTEM ARCHITECTURE



Return temperature regulating valve

eRTCV

Regulating valves for electronic return temperature control

FEATURES AND FUNCTIONS

- Pressure-independent flow rate control
- Return temperature control for heating and/or cooling systems
- Shut-off function
- Contact temperature sensors
- Integrated control panel and datalogger function
- Analogue signal 0-10V for flow rate setpoint
- Modbus-RTU remote management

CODE + Calibration		CONNECTION	DN	PN	FLOW RATE max	
POWER SUPPLY **230V 50/60 Hz**						
ERTCV2215A	_	1/2"	15	25	0,36	m³/h
ERTCV2215B	_	1/2"	15	25	0,70	m³/h
ERTCV2215C	_	1/2"	15	25	1,0	m³/h
ERTCV2220A	_	3/4"	20	25	0,78	m³/h
ERTCV2220B	_	3/4"	20	25	1,15	m³/h
ERTCV2225A	_	1"	25	25	2,2	m³/h
ERTCV2225B	_	1"	25	25	2,7	m³/h
ERTCV2225C	_	1"1/4	25	25	3,0	m³/h
ERTCV2225D	_	1"1/4	25	25	4,0	m³/h
ERTCV2240A	_	1"1/2	40	16	6,0	m³/h
ERTCV2240B	_	1"1/2	40	16	9,0	m³/h
ERTCV2250A	_	2"	50	16	12,0	m³/h
ERTCV2250B	_	2"	50	16	18,0	m³/h

INSERT THE LETTER CORRESPONDING TO THE REGULATOR CALIBRATION AT THE END OF THE CODE

Regulator calibration

A	Radiators
B	Radiant panels
C	Fancoil

CODE + Calibration		CONNECTION	DN	PN	FLOW RATE max	
POWER SUPPLY **24V 50/60 Hz**						
ERTCV2415A	_	1/2"	15	25	0,36	m³/h
ERTCV2415B	_	1/2"	15	25	0,70	m³/h
ERTCV2415C	_	1/2"	15	25	1,0	m³/h
ERTCV2420A	_	3/4"	20	25	0,78	m³/h
ERTCV2420B	_	3/4"	20	25	1,15	m³/h
ERTCV2425A	_	1"	25	25	2,2	m³/h
ERTCV2425B	_	1"	25	25	2,7	m³/h
ERTCV2425C	_	1"1/4	25	25	3,0	m³/h
ERTCV2425D	_	1"1/4	25	25	4,0	m³/h
ERTCV2440A	_	1"1/2	40	16	6,0	m³/h
ERTCV2440B	_	1"1/2	40	16	9,0	m³/h
ERTCV2450A	_	2"	50	16	12,0	m³/h
ERTCV2450B	_	2"	50	16	18,0	m³/h

INSERT THE LETTER CORRESPONDING TO THE REGULATOR CALIBRATION AT THE END OF THE CODE

Regulator calibration

A	Radiators
B	Radiant panels
C	Fancoil

BALANCING Systems

Accessories

CODE	CONNECTION
INSULATION	
CBCV15R	1/2"
CBCV20R	3/4"
CBCV25R	1"
CBCV32R	1"1/4
CBCV40R	1"1/2
CBCV50R	2"

Differential temperature regulating valve

DTCV

Regulating valves for electronic differential temperature control

FEATURES AND FUNCTIONS

- Pressure-independent flow rate control
- Δt ontrol with flow rate limitation
- Δt control with power limitation
- Energy Monitoring
- 2-way regulating ball valve with equal percentage profile
- Shut-off function
- Contact temperature sensors
- Flow sensor with Vortex technology
- Integrated monitoring and control interface
- Analog inputs and digital outputs
- Modbus-RTU remote management

CODE	CONNECTION	DN	PN *	Kvs (m³/h)	FLOW RATE min/max
ALIMENTAZIONE ELETTRICA **230V 50/60 Hz**					
DTCV2215 _	G1/2"B	15	8	1,2	0,05 ÷ 0,9 m³/h
DTCV2220 _	G3/4"B	20	8	2,8	0,11 ÷ 1,9 m³/h
DTCV2225 _	G1"B	25	8	4,7	0,21 ÷ 3,0 m³/h
DTCV2232 _	G1"1/4B	32	8	7,7	0,3 ÷ 5,1 m³/h
DTCV2240 _	G1"1/2B	40	8	12,4	0,54 ÷ 9,0 m³/h
ALIMENTAZIONE ELETTRICA **24V 50/60 Hz**					
DTCV2415 _	G1/2"B	15	8	1,2	0,05 ÷ 0,9 m³/h
DTCV2420 _	G3/4"B	20	8	2,8	0,11 ÷ 1,9 m³/h
DTCV2425 _	G1"B	25	8	4,7	0,21 ÷ 3,0 m³/h
DTCV2432 _	G1"1/4B	32	8	7,7	0,3 ÷ 5,1 m³/h
DTCV2440 _	G1"1/2B	40	8	12,4	0,54 ÷ 9,0 m³/h

* PN16 version available on request

INSERT THE LETTER CORRESPONDING TO THE REGULATOR CALIBRATION AT THE END OF THE CODE

Regulator calibration

A	Radiators
B	Radiant panels
C	Fancoil

Accessories

CODE	DN
INSULATION	
CBCV15	15
CBCV20	20
CBCV25	25
CBCV32	32
CBCV40	40

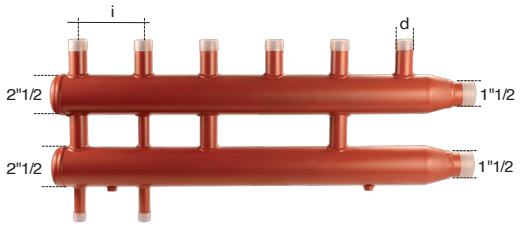
COMPONENTS FOR CENTRAL HEATING SYSTEMS

Diacol 125

DN 25 connections

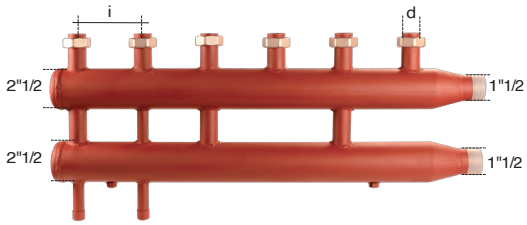
- **INTERAXIS:** 125 mm
- **DUAL**

INOX ON REQUEST



THREAD 1"M

CODE	ZONES	d	i	
C02D01	2	1"	125 mm	
C03D01	3	1"	125 mm	
C04D01	4	1"	125 mm	
C05D01	5	1"	125 mm	
C06D01	6	1"	125 mm	



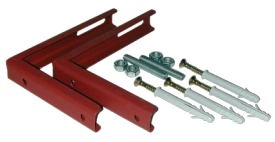
NUT 1"1/4

CODE	ZONES	d	i	
C02D01GR	2	1"	125 mm	
C03D01GR	3	1"	125 mm	
C04D01GR	4	1"	125 mm	
C05D01GR	5	1"	125 mm	
C06D01GR	6	1"	125 mm	

INSULATION

CODE	ZONES	i	
CBC02D01	2	125 mm	
CBC03D01	3	125 mm	
CBC04D01	4	125 mm	
CBC05D01	5	125 mm	
CBC06D01	6	125 mm	

Accessory



FIXING KIT

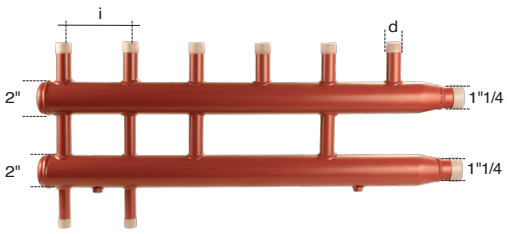
CODE	DESCRIPTION	
KSC1	Support brackets with slots for regulation, screw anchors, threaded screw and nuts	

Diacol 125

DN 20 connections

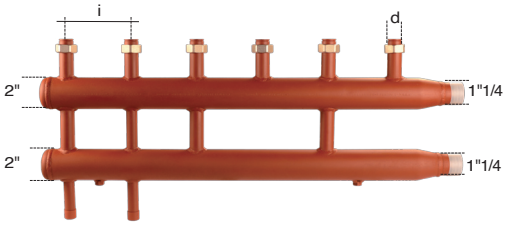
- **INTERAXIS:** 125 mm
- **DUAL**

INOX ON REQUEST



THREAD 3/4"M

CODE	ZONES	d	i	
C02D34	2	3/4"	125 mm	
C03D34	3	3/4"	125 mm	
C04D34	4	3/4"	125 mm	
C05D34	5	3/4"	125 mm	
C06D34	6	3/4"	125 mm	



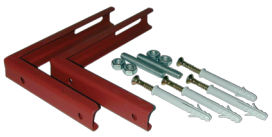
NUT 1"

CODE	ZONES	d	i	
SUITABLE FOR PUMP UNITS				
C02D34GR	2	3/4"	125 mm	
C03D34GR	3	3/4"	125 mm	
C04D34GR	4	3/4"	125 mm	
C05D34GR	5	3/4"	125 mm	
C06D34GR	6	3/4"	125 mm	

INSULATION

CODE	ZONES	i	
CBC02D34	2	125 mm	
CBC03D34	3	125 mm	
CBC04D34	4	125 mm	
CBC05D34	5	125 mm	
CBC06D34	6	125 mm	

Accessory



FIXING KIT

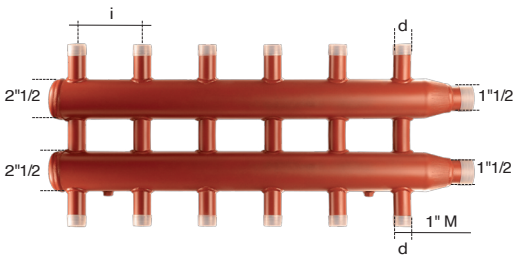
CODE	DESCRIPTION	
KSC1	Support brackets with slots for regulation, screw anchors, threaded screw and nuts	

Diacol 125

DN 25 connections

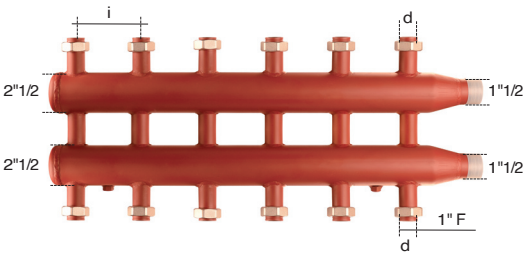
- **INTERAXIS:** 125 mm
- **DUAL**
- **OPPOSED CONNECTIONS**

INOX ON REQUEST



THREAD 1"M

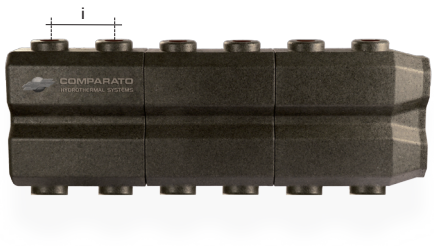
CODE	ZONES	d	i
C21D01	2+1	1"	125 mm
C22D01	2+2	1"	125 mm
C31D01	3+1	1"	125 mm
C32D01	3+2	1"	125 mm
C33D01	3+3	1"	125 mm
C41D01	4+1	1"	125 mm
C42D01	4+2	1"	125 mm
C51D01	5+1	1"	125 mm



NUT 1"1/4

CODE	ZONES	d	i
C21D01GR	2+1	1"	125 mm
C22D01GR	2+2	1"	125 mm
C31D01GR	3+1	1"	125 mm
C32D01GR	3+2	1"	125 mm
C33D01GR	3+3	1"	125 mm
C41D01GR	4+1	1"	125 mm
C42D01GR	4+2	1"	125 mm
C51D01GR	5+1	1"	125 mm

INSULATION



CODE	ZONES	i
CBC21D01	2+1	125 mm
CBC22D01	2+2	125 mm
CBC31D01	3+1	125 mm
CBC32D01	3+2	125 mm
CBC33D01	3+3	125 mm
CBC41D01	4+1	125 mm
CBC42D01	4+2	125 mm
CBC51D01	5+1	125 mm

Accessory

FIXING KIT

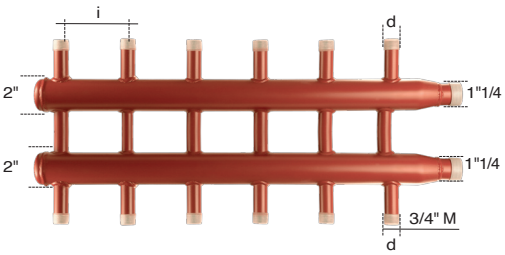
CODE	DESCRIPTION
KSC1	Support brackets with slots for regulation, screw anchors, threaded screw and nuts

Diacol 125

DN 20 connections

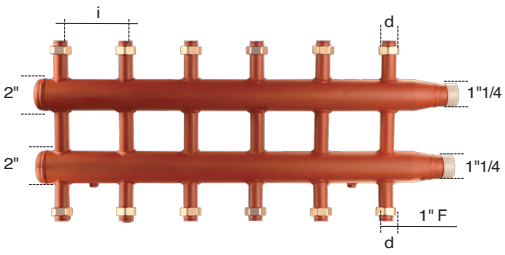
- **INTERAXIS:** 125 mm
- **DUAL**
- **OPPOSED CONNECTIONS**

INOX ON REQUEST



THREAD 3/4"M

CODE	ZONES	d	i	
C21D34	2+1	3/4"	125 mm	
C22D34	2+2	3/4"	125 mm	
C31D34	3+1	3/4"	125 mm	
C32D34	3+2	3/4"	125 mm	
C33D34	3+3	3/4"	125 mm	
C41D34	4+1	3/4"	125 mm	
C42D34	4+2	3/4"	125 mm	
C51D34	5+1	3/4"	125 mm	



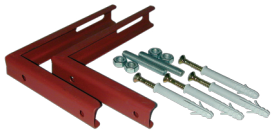
NUT 1"

CODE	ZONES	d	i	
SUITABLE FOR PUMP UNITS				
C21D34GR	2+1	3/4"	125 mm	
C22D34GR	2+2	3/4"	125 mm	
C31D34GR	3+1	3/4"	125 mm	
C32D34GR	3+2	3/4"	125 mm	
C33D34GR	3+3	3/4"	125 mm	
C41D34GR	4+1	3/4"	125 mm	
C42D34GR	4+2	3/4"	125 mm	
C51D34GR	5+1	3/4"	125 mm	

INSULATION

CODE	ZONES	i	
CBC21D34	2+1	125 mm	
CBC22D34	2+2	125 mm	
CBC31D34	3+1	125 mm	
CBC32D34	3+2	125 mm	
CBC33D34	3+3	125 mm	
CBC41D34	4+1	125 mm	
CBC42D34	4+2	125 mm	
CBC51D34	5+1	125 mm	

Accessory



FIXING KIT

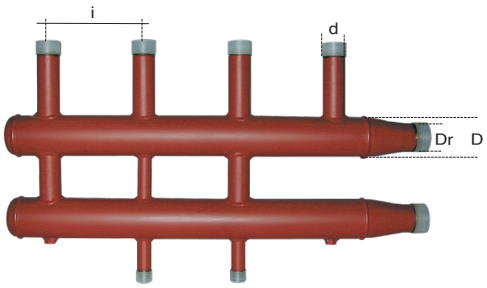
CODE	DESCRIPTION	
KSC1	Support brackets with slots for regulation, screw anchors, threaded screw and nuts	

Diacol 140

DN 25 connections

- **INTERAXIS:** 140 mm
- **DUAL**

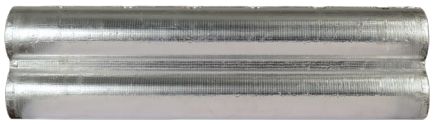
INOX ON REQUEST



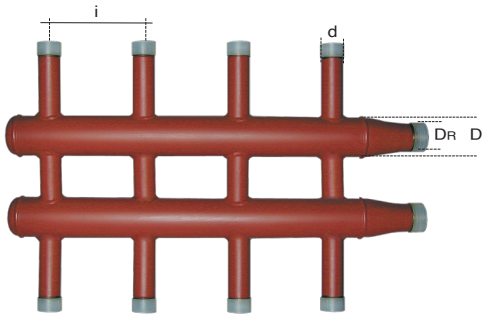
THREAD 1"M

CODE	ZONES	Dr	d	D	i
C2T	2	1"1/4 M	1"	2"	140 mm
C3T	3	1"1/2 M	1"	2"1/2	140 mm
C4T	4	1"1/2 M	1"	3"	140 mm
C5T	5	2"M	1"	3"	140 mm
C6T	6	2"M	1"	3"	140 mm

INSULATION



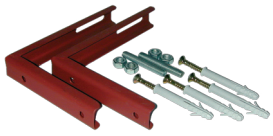
CODE	ZONES	i
CBC2T	2	140 mm
CBC3T	3	140 mm
CBC4T	4	140 mm
CBC5T	5	140 mm
CBC6T	6	140 mm



THREAD 1"M • OPPOSED CONNECTIONS

CODE	ZONES	Dr	d	D	i
C21T	2+1	1"1/2 M	1"	2"1/2	140 mm
C22T	2+2	1"1/2 M	1"	3"	140 mm
C31T	3+1	1"1/2 M	1"	3"	140 mm
C32T	3+2	2"M	1"	3"	140 mm
C33T	3+3	2"M	1"	3"	140 mm
C41T	4+1	2"M	1"	3"	140 mm
C42T	4+2	2"M	1"	3"	140 mm
C51T	5+1	2"M	1"	3"	140 mm

Accessory



FIXING KIT

CODE	DESCRIPTION
KSC1	Support brackets with slots for regulation, screw anchors, threaded screw and nuts

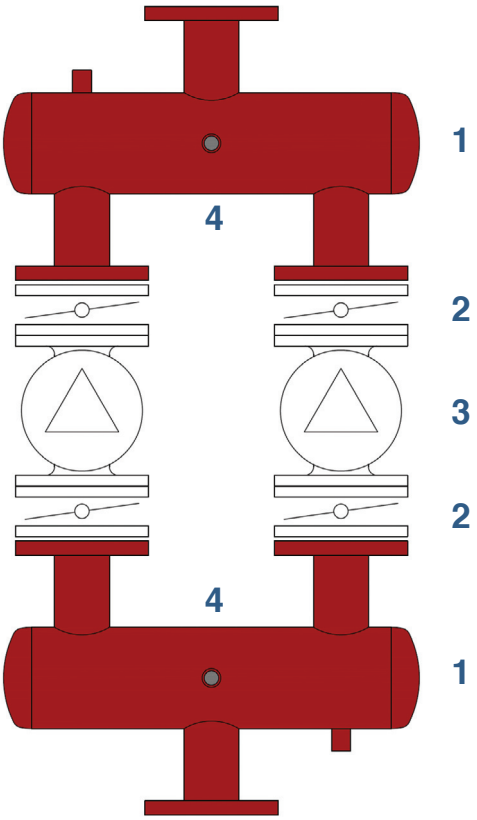
MANIFOLD for parallel coupling of CIRCULATION PUMPS

INOX ON REQUEST

CODE	CONNECTIONS	BODY	INTERAXIS
THREADED			
P001	1" M	2"	260 mm
P114	1"1/4 M	2"1/2	260 mm
P112	1"1/2 M	2"1/2	300 mm
P002	2" M	4"	360 mm

CODE	CONNECTIONS	BODY	INTERAXIS
FLANGED			
P212	DN65	5"	360 mm
P003	DN80	5"	400 mm
P004	DN100	6"	400 mm

EXAMPLE OF USE

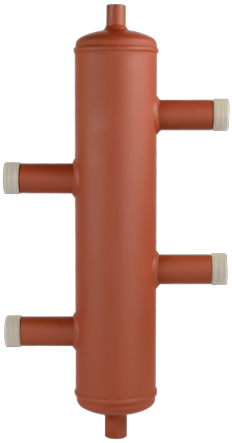


1 : **DIACOP**
2 : Interception valves
3 : Pumps
4 : Sleeve Ø1/2" for manometer

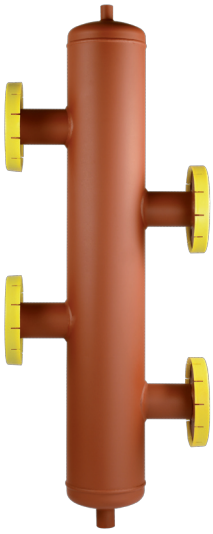
Additional functions of AIR and DEPOSIT SEPARATOR

- Quotations on request for non-standard hydraulic separators according to customer's design

INOX ON REQUEST



CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]			VOLUME [ℓ]
THREADED						
C001	1" M	3"	2	÷	2,8	2,2
C114	1"1/4 M	4"	3,5	÷	5	5
C112	1"1/2 M	4"	5	÷	7,1	6
C002	2" M	5"	8	÷	11,3	12
			Δp 100 daPa		Δp 200 daPa	



CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]			VOLUME [ℓ]
FLANGED						
C212	DN 65	6"	12	÷	17	21
C003	DN 80	8"	18	÷	25,5	42
C004	DN 100	10"	30	÷	42,5	84
C005	DN 125	12"	50	÷	70,5	146
C006	DN 150	16"	70	÷	99	260
C008	DN 200	20"	120	÷	170	548
C010 *	DN 250	800 mm	150	÷	212	1.483
C012 *	DN 300	990 mm	220	÷	315	2.446
			Δp 100 daPa		Δp 200 daPa	

* coaxial connection

INSULATION

CODE	OUTLETS
CBC001	1"
CBC114	1"1/4
CBC112	1"1/2
CBC002	2"
CBC212 *	DN 65
CBC003 *	DN 80
CBC004 *	DN 100

* silver insulation

Diadis

INDEPENDENT 3-CIRCUITS

Hydraulic separators for three independent hydraulic circuits. Uses:
- one boiler that supplies two zones (eg: high and low temperature);
- two independent heating sources that supply the same plant.

INOX ON REQUEST

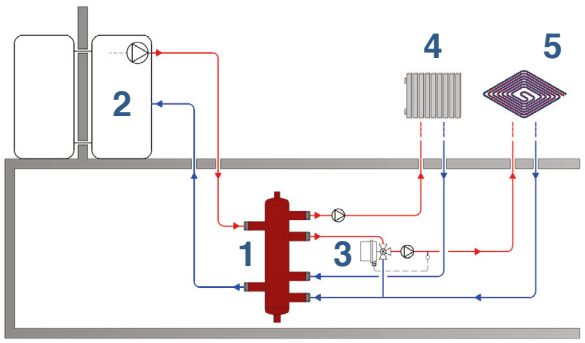
CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]			VOLUME [ℓ]
THREADED						
T001	1" M	3"	2	÷	2,8	2,2
T114	1"1/4 M	4"	3,5	÷	5	5
T112	1"1/2 M	4"	5	÷	7,1	6
T002	2" M	5"	8	÷	11,3	12
			Δp 100 daPa		Δp 200 daPa	

INSULATION

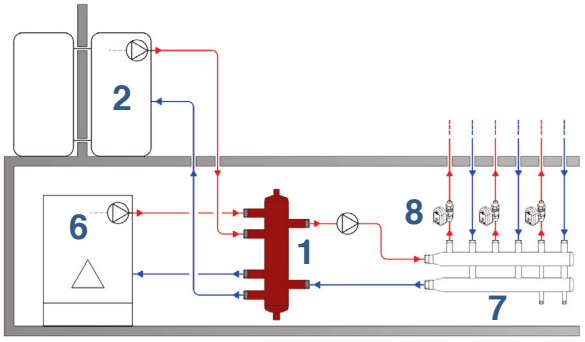
CODE	OUTLETS
CBT001	1"
CBT114	1"1/4
CBT112	1"1/2
CBT002	2"

EXAMPLE OF USE: DUAL USE

HIGH AND LOW TEMPERATURE SYSTEM WITH A SINGLE GENERATOR



HYBRID SYSTEM BOILER + PDC



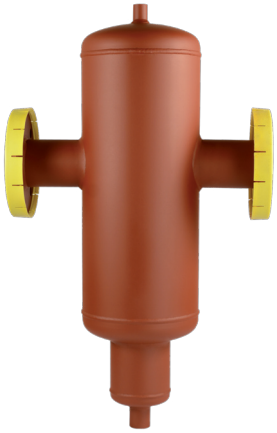
1 : **DIADIS**
2 : Heat pump
3 : DIAMIX PR / COMPAMIX PR mixing valve
4 : Heater plant
5 : Radiant panel plant
6 : Boiler
7 : DIACOL Manifold
8 : SINTESI actuated zone valve

Additional functions of AIR SEPARATOR

- Quotations on request for non-standard deposit separators according to customer's design

INOX ON REQUEST

CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]	VOLUME [ℓ]
THREADED				
DF001	1" M	3"	2 ÷ 2,8	1,7
DF114	1"1/4 M	4"	3,8 ÷ 5,3	3,4
DF112	1"1/2 M	4"	4,1 ÷ 5,8	3,7
DF002	2" M	5"	6,0 ÷ 8,4	6,4
			Δp 100 daPa	Δp 200 daPa



CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]	VOLUME [ℓ]
FLANGED				
DF212	DN 65	6"	10,7 ÷ 15,1	10
DF003	DN 80	8"	17,1 ÷ 24,1	21
DF004	DN 100	10"	34,7 ÷ 49,1	36
DF005	DN 125	12"	51,6 ÷ 73	59
DF006	DN 150	16"	80,4 ÷ 113	119
DF008	DN 200	20"	138 ÷ 195	227
			Δp 100 daPa	Δp 200 daPa

INSULATION

CODE	OUTLETS
CBDF001	1"
CBDF114	1"1/4
CBDF112	1"1/2
CBDF002	2"
CBDF212	DN 65
CBDF003	DN 80
CBDF004	DN 100

Diadef Magnetico

Hydrocyclonic deposit separator with INTEGRATED MAGNET

- Quotations on request for non-standard hydrocyclonic deposit separators according to customer's design

CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]			VOLUME [ℓ]
THREADED						
DFI001	1" M	4"	1,7	÷	2,3	2,6
DFI114	1"1/4 M	5"	2,4	÷	3,5	4,3
DFI112	1"1/2 M	5"	3,3	÷	4,6	4,7
DFI002	2" M	6"	4,8	÷	6,7	8
			Δp 100 daPa		Δp 200 daPa	

CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]			VOLUME [ℓ]
FLANGED						
DFI212	DN 65	8"	8,6	÷	12,1	16
DFI003	DN 80	8"	13,6	÷	18,3	22
DFI004	DN 100	10"	26	÷	36,8	34
			Δp 100 daPa		Δp 200 daPa	

INSULATION

CODE	OUTLETS
CBDFI001	1"
CBDFI114	1"1/4
CBDFI112	1"1/2
CBDFI002	2"
CBDFI212	DN 65
CBDFI003	DN 80
CBDFI004	DN 100

Diafil

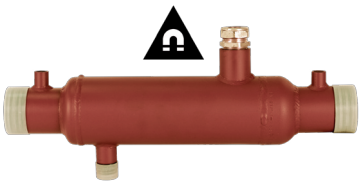
Additional functions of AIR SEPARATOR with INTEGRATED MAGNET

- Accessible for inspection

INOX ON REQUEST

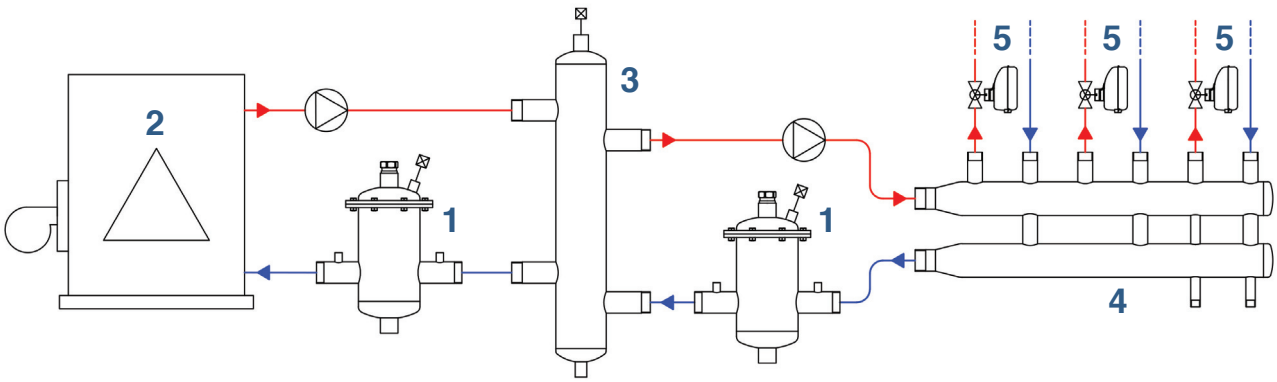
CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]	VOLUME [ℓ]
THREADED				
FT001	1" M	4"	1,6 ÷ 2,3	1,8
FT114	1"1/4 M	4"	2,1 ÷ 2,9	2
FT112	1"1/2 M	5"	3,1 ÷ 4,4	4
FT002	2" M	5"	4,1 ÷ 5,9	4,3
			Δp 100 daPa	Δp 200 daPa

CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]	VOLUME [ℓ]
FLANGED				
FT212	DN 65	8"	7,5 ÷ 10,5	14
FT003	DN 80	8"	9,9 ÷ 14	15
FT004	DN 100	10"	15 ÷ 21	30
			Δp 100 daPa	Δp 200 daPa



In-line connections not inspectable version on request

EXAMPLE OF USE: HEATING PLANT



1 : **DIAFIL magnetic filter**
2 : Boiler
3 : DIACOM hydraulic separator
4 : DIACOL manifold
5 : SINTESI zone motorised valve

Diasep

Air Separator

- Quotations on request for non-standard air separators according to customer's design

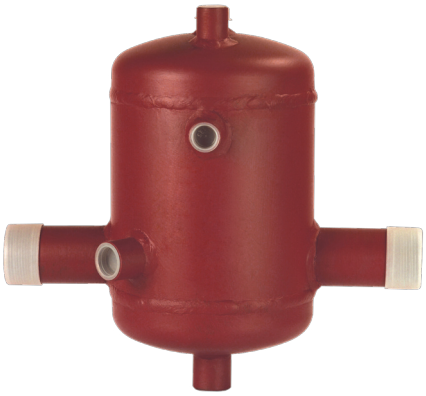
INOX ON REQUEST

SQUARE CONNECTIONS

CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]			VOLUME [ℓ]
THREADED · SQUARE connections						
S001	1" M	4"	2	÷	2,8	2,2
S114	1"1/4 M	5"	3,5	÷	4,9	5
S112	1"1/2 M	6"	4,5	÷	6,4	6
S002	2" M	8"	7,5	÷	10,6	12
			Δp 100 daPa		Δp 200 daPa	

CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]			VOLUME [ℓ]
FLANGED · SQUARE connections						
S212	DN 65	10"	13	÷	18,4	21
S003	DN 80	12"	18	÷	25,4	42
S004	DN 100	16"	30	÷	42,4	84
S005	DN 125	500 mm	50	÷	70,7	146
S006	DN 150	600 mm	70	÷	99	260
S008	DN 200	700 mm	140	÷	198	548
			Δp 100 daPa		Δp 200 daPa	

IN-LINE CONNECTIONS



CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]			VOLUME [ℓ]
THREADED · IN-LINE connections						
SL001	1" M	4"	2	÷	2,8	2,2
SL114	1"1/4 M	5"	3,5	÷	4,9	5
SL112	1"1/2 M	6"	4,5	÷	6,4	6
SL002	2" M	8"	7,5	÷	10,6	12
			Δp 100 daPa		Δp 200 daPa	

CODE	CONNECTIONS	BODY	FLOW RATE [m³/h]			VOLUME [ℓ]
FLANGED · IN-LINE connections						
SL212	DN 65	10"	13	÷	18,4	21
SL003	DN 80	12"	18	÷	25,4	42
SL004	DN 100	16"	30	÷	42,4	84
SL005	DN 125	500 mm	50	÷	70,7	146
SL006	DN 150	600 mm	70	÷	99	260
SL008	DN 200	700 mm	140	÷	198	548
			Δp 100 daPa		Δp 200 daPa	

INAIL safety devices holder

CODE	Ø D	Ø d	
CPS114	2"	1"1/4 M	
CPS112	2"1/2	1"1/2 M	
CPS002	2"	2" M	
CPS212	2"1/2	2"1/2 M	

Deareators

- AIR VENTS NOT INCLUDED

CODE	Ø D1	Ø D2	Ø D3	
DI012	1/2" F	3/8" F	3/8" F	

STAINLESS STEEL manifolds Dias

CODE	OUTLETS	OUTLET	CONNECTIONS	
CX1121220	2	1/2" F	1"1/2" M	
CX1121222	2+2	1/2" F	1"1/2" M	
CX1121230	3	1/2" F	1"1/2" M	
CX1121233	3+3	1/2" F	1"1/2" M	
CX1121240	4	1/2" F	1"1/2" M	
CX1121244	4+4	1/2" F	1"1/2" M	

Diasol

Iron ejector

- Iron ejector for monopipe heating systems
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1 SIMPLE TYPE RETURN ONLY

2 DOUBLE TYPE FLOW AND RETURN

TOOL DimCol FOCUS

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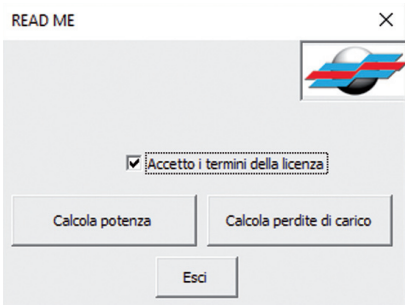
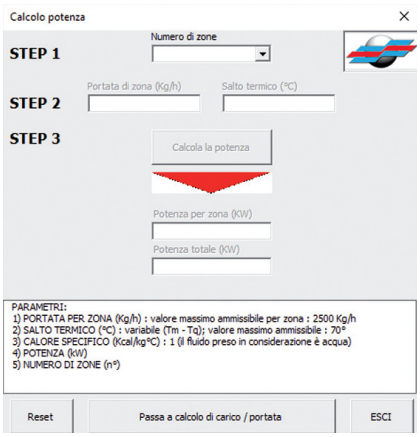
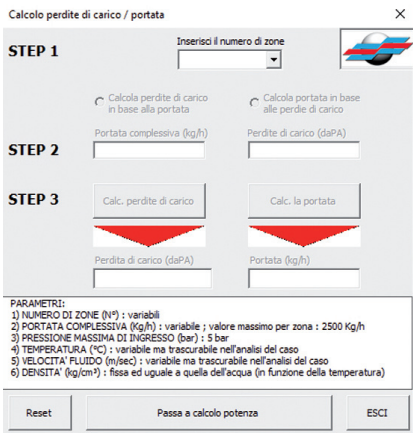






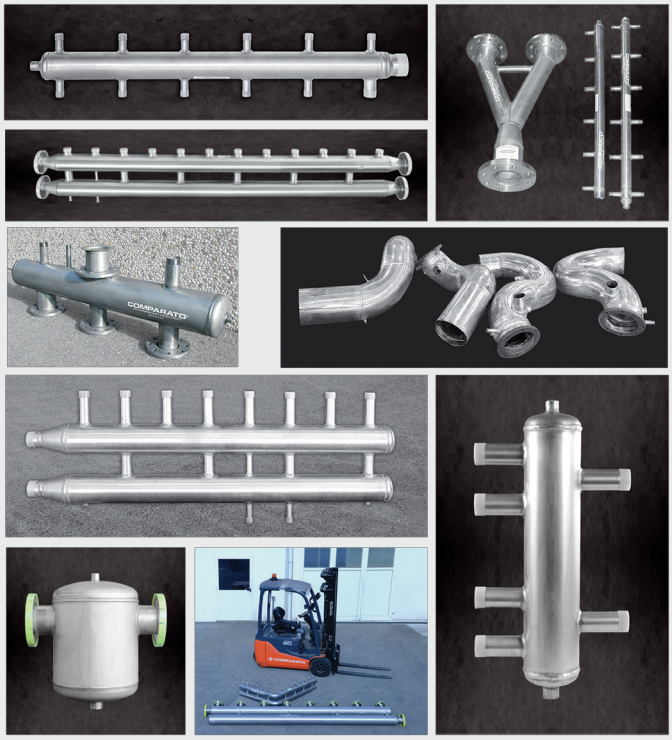
A SELECT THE TYPE OF DESIRED SIZING

B INSERT YOUR VALUES AND SEE THE RESULTS!

SPECIAL EXECUTIONS

available on request with non-standard measures, according to the Customer's drawings.

STAINLESS STEEL

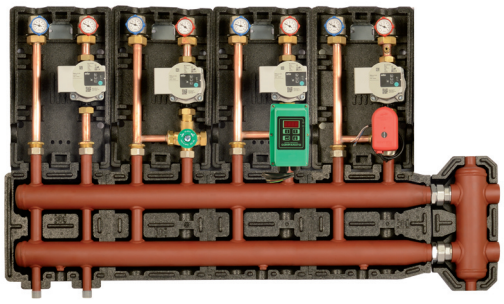


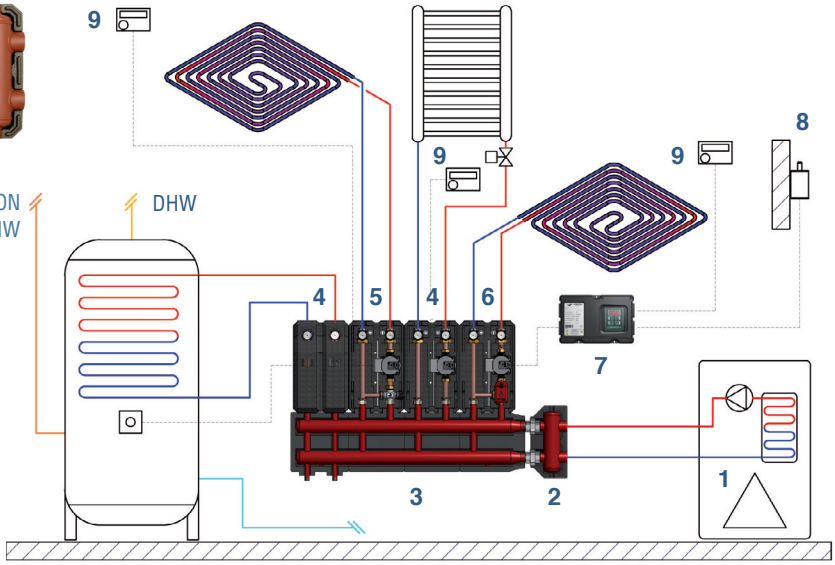
CARBON STEEL

DISTRIBUTION SYSTEMS

Pump units

EXAMPLE OF USE: HEATING PLANT

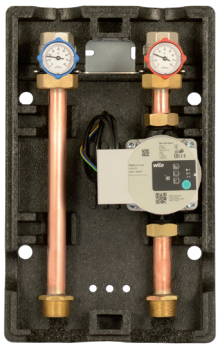




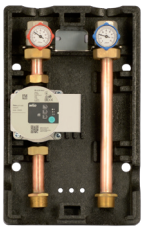
1 : Generator
2 : Diacom Mini
3 : Diacol 125
4 : Direct pump unit
5 : Fixed-point, mixed pump unit
6 : Fixed-point, modulating pump unit
7 : Control units
8 : External probe
for weather compensation function
9 : Room thermostat

DIRECT

- **POWER SUPPLY:** 230V 50/60 Hz
- **INTERAXIS:** 125 mm
- **CONNECTIONS:** 1"
- **UNITS ARE REVERSIBLE. THEY ARE SUPPLIED WITH OULET ON THE RIGHT SIDE AND RETURN ON THE LEFT SIDE.**
- THEY CAN BE MATCHED ALSO TO MANIFOLDS WITH NUT CONNECTION 1" p. 141



REVERSIBLE



REVERSED

INSULATION

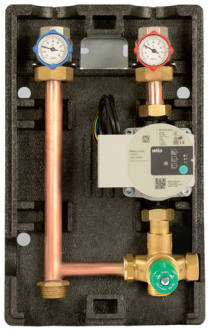
CODE	TYPE	
GR1D00	heating	
GR2D00	heating • high flow rate	
GR1DSC	heating • circulator-ready 1"x130mm	
GR2DSC	heating • circulator-ready 1"1/2x130mm	
GR1DFR	heating / cooling	
GR2DFR	heating / cooling • high flow rate	

Pump units

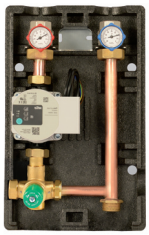
MIXING FIXED-POINT

- **ALIMENTAZIONE ELETTRICA:** 230V 50/60 Hz
- **INTERAXIS:** 125 mm
- **CONNECTIONS:** 1"
- **"T" RANGE:** 30°C / 60°C
- **ENERGY METER KIT** see p. **140**

- **UNITS ARE REVERSIBLE. THEY ARE SUPPLIED WITH OULET ON THE RIGHT SIDE AND RETURN ON THE LEFT SIDE.**
- THEY CAN BE MATCHED ALSO TO MANIFOLDS WITH NUT CONNECTION 1" p. 141



REVERSIBLE



REVERSED

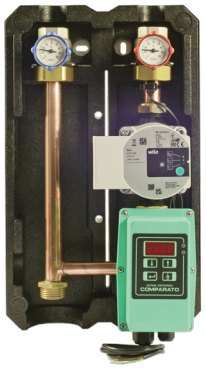
INSULATION

CODE	TYPE
GR1THT	heating
GR2THT	heating • high flow rate
GR1THC	heating • circulator-ready 1"x130mm
GR2THC	heating • circulator-ready 1"1/2x130mm

MIXING ELECTRONIC

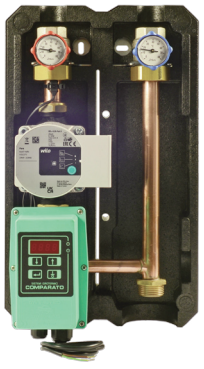
- **POWER SUPPLY:** 230V 50/60 Hz
- **INTERAXIS:** 125 mm
- **CONNECTIONS:** 1"
- **"T" RANGE:** -15°C ÷ +90°C
- **ENERGY METER KIT** see p. **140**

- THEY CAN BE MATCHED ALSO TO MANIFOLDS WITH NUT CONNECTION 1" p. 141



PLANT OUTLET ON THE RIGHT

CODE	TYPE
GR1X0D	heating
GR2X0D	heating • high flow rate
GR1XFD	cooling
GR2XFD	cooling • high flow rate



PLANT OUTLET ON THE LEFT

CODE	TYPE
GR1X0S	heating
GR2X0S	heating • high flow rate
GR1XFS	cooling
GR2XFS	cooling • high flow rate

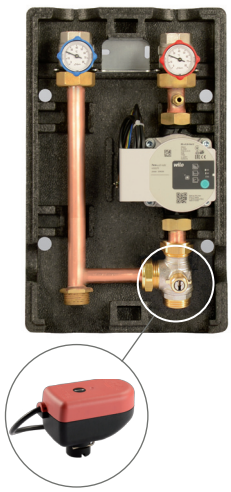
Electronic Mixing units cannot be used in zones that operate in both heating and cooling modes. In the case of **hot/cold** applications in the same zone, refer to the **Modulating Mixing Units** on the following page.

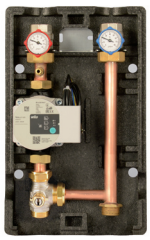
Pump units

MIXING MODULATING

- **POWER SUPPLY:** 230V 50/60 Hz
- **INTERAXIS:** 125 mm
- **CONNECTIONS:** 1"
- **ENERGY METER KIT** see p. **140**

- **UNITS ARE REVERSIBLE. THEY ARE SUPPLIED WITH OULET ON THE RIGHT SIDE AND RETURN ON THE LEFT SIDE.**
- THEY CAN BE MATCHED ALSO TO MANIFOLDS WITH NUT CONNECTION 1" p. 141





REVERSED

INSULATION

REVERSIBLE

for **SINTESI** actuator see **ACCESSORIES**

CODE	TYPE
GR1M00	heating
GR2M00	heating • high flow rate
GR1MSC	heating • circulator-ready 1"x130mm
GR2MSC	heating • circulator-ready 1"1/2x130mm
GR1MFR	heating / cooling
GR2MFR	heating / cooling • high flow rate

Accessories for MIXING MODULATING pump units

MODULATING ACTUATOR

CODE	TECHNICAL FEATURES
SS2221BI	35 sec • 230 V 50-60 Hz • 3-point
SS2221BC2I	120 sec • 230 V 50-60 Hz • 3-point
DISN05	adapter for reversed outlet/return installation

PROPORTIONAL ACTUATOR

CODE	TECHNICAL FEATURES
SM4010F030I	30 sec • 24 V AC/DC • 0 - 10 V
SM4010F030D	30 sec • 24 V AC/DC • 0 - 10 V • Reversed outlet/return installation

CONTROL UNIT FOR RADIANT PANELS WITH ACTUATOR AND CONTACT TEMPERATURE PROBE

CODE	TECHNICAL FEATURES
CGRMS1	230 V 50/60 Hz • For one pump unit

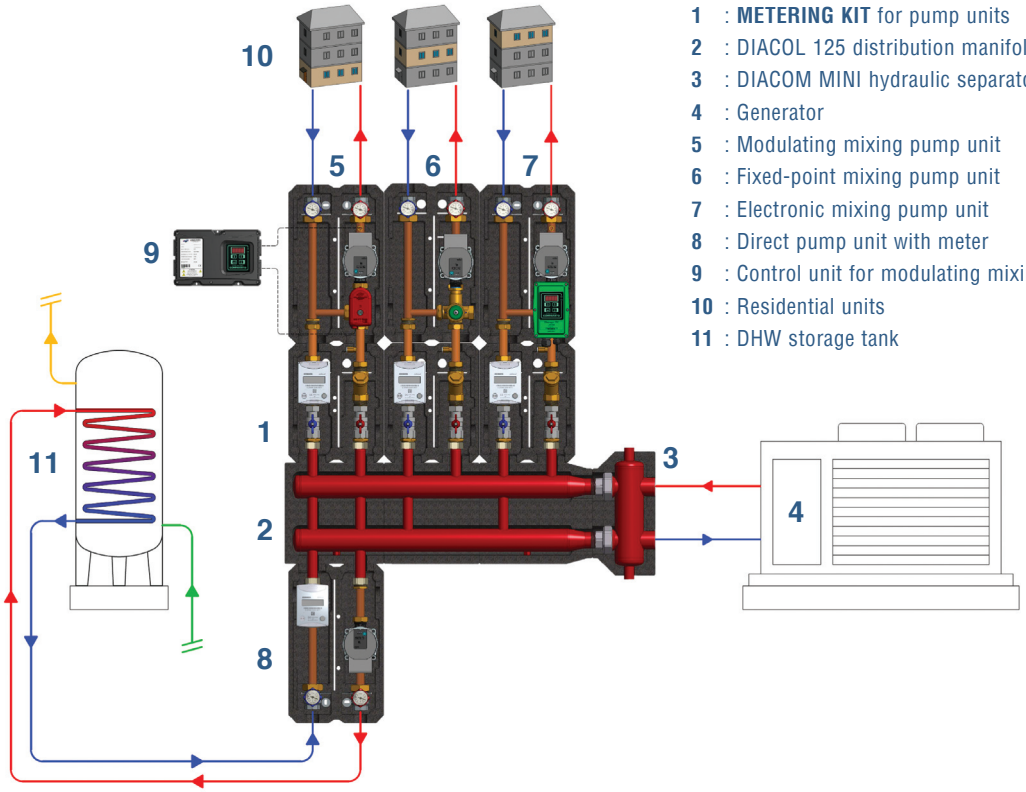
CODE	TECHNICAL FEATURES
RFSONDAE *	Sensor for external temperature for weather compensation
RFTRUEE10 **	Sensor for temperature and relative humidity (24 V)
AL24VDC	Power supply for RFTRUEE10 (24 V)

* probe can be matched to only one regulation unit

** required for anti-condensation function under cooling

Pump units • with energy meter

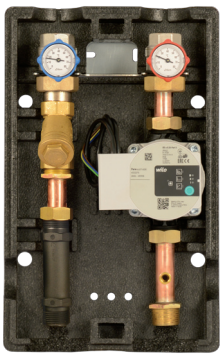
EXAMPLE OF USE: HEATING SYSTEM FOR 3 RESIDENTIAL UNITS WITH ENERGY METERING



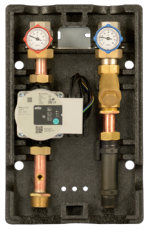
1 : **METERING KIT** for pump units
2 : DIACOL 125 distribution manifold
3 : DIACOM MINI hydraulic separator
4 : Generator
5 : Modulating mixing pump unit
6 : Fixed-point mixing pump unit
7 : Electronic mixing pump unit
8 : Direct pump unit with meter
9 : Control unit for modulating mixing unit
10 : Residential units
11 : DHW storage tank

DIRECT with ENERGY METER READY

- **ALIMENTAZIONE ELETTRICA:** 230V 50/60 Hz
- **INTERAXIS:** 125 mm
- **CONNECTIONS:** 1"
- **STUB PIPE:** 1"x130mm
- **UNITS ARE REVERSIBLE. THEY ARE SUPPLIED WITH OULET ON THE RIGHT SIDE AND RETURN ON THE LEFT SIDE.**
- THEY CAN BE MATCHED ALSO TO MANIFOLDS WITH NUT CONNECTION 1" p. 141



REVERSIBLE



REVERSED

INSULATION

CODE	TYPE	
GR1C00	heating • ready for meter 1"x130mm	
GR1CSC	heating ready for meter and pump 1"x130mm	
GR1CFR	heating / cooling ready for meter 1"x130mm	

Accessories

CODE	DESCRIPTION	
CFCENM01B	mechanical energy meter for heating/cooling DN20 Qp 2,5 m³/h M-Bus	
CFCENU01B	ultrasonic energy meter for heating/cooling DN20 Qp=2.5 mc/h M-Bus reading	
CFCENU01BW	ultrasonic energy meter for heating/cooling DN20 Qp=2.5 mc/h Wireless M-Bus reading	

Energy meter kit

ENERGY METER kit • TO BE INSTALLED BETWEEN MANIFOLD AND PUMP UNITS

for **MIXING** Pump units

- **MIXING FIXED-POINT**
- **MIXING ELECTRONIC**
- **MIXING MODULATING**

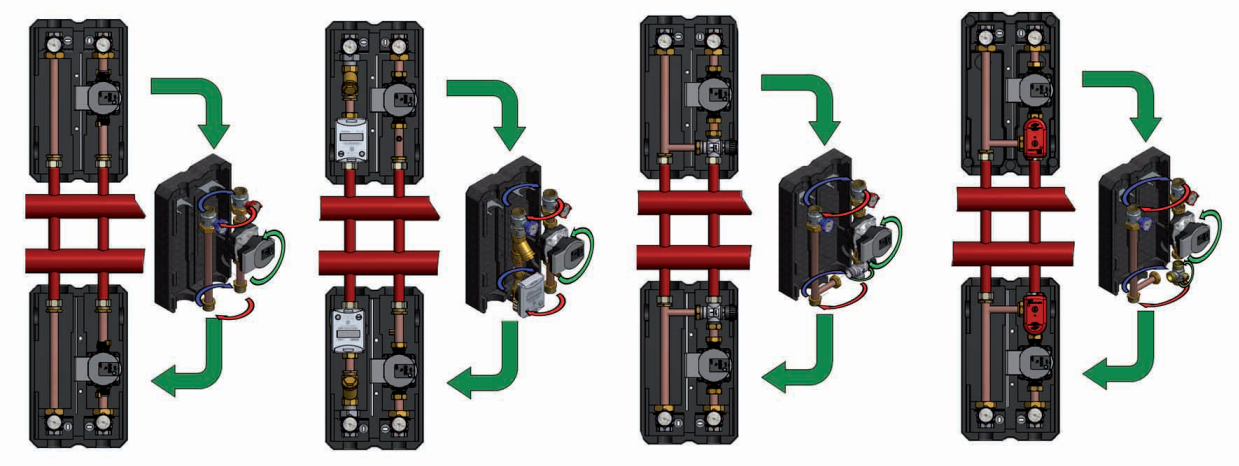
CODE	DESCRIPTION	
GRKCON	Set-up kit for meter 1"x130mm with insulation	

Accessories

CODE	DESCRIPTION	
CFCENM01B	mechanical energy meter for heating/cooling DN20 Qp= 2,5 m^3/h M-Bus	
CFCENU01B	ultrasonic energy meter for heating/cooling DN20 Qp= 2.5 m^3/h M-Bus reading	
CFCENU01BW	ultrasonic energy meter for heating/cooling DN20 Qp= 2.5 m^3/h Wireless M-Bus reading	

STANDARD VERSION vs REVERSED VERSION FOCUS

UPPER SIDE STANDARD VERSION

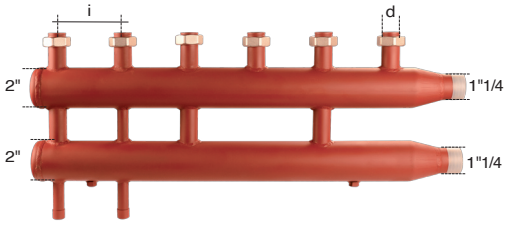


BOTTOM SIDE FLOW/RETURN REVERSED VERSION

Components for **Pump units**

Diacol 125 · dual manifolds

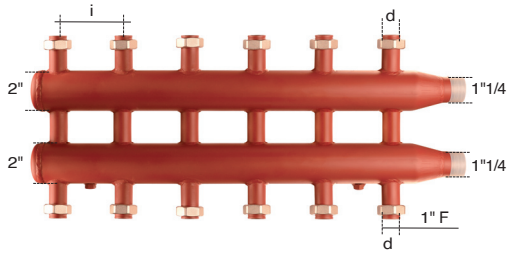
- **NUT JOINT:** 1"
- **INTERAXIS:** 125 mm



DUAL manifolds

CODE	ZONES	d	i	
C02D34GR	2	3/4"	125 mm	
C03D34GR	3	3/4"	125 mm	
C04D34GR	4	3/4"	125 mm	
C05D34GR	5	3/4"	125 mm	
C06D34GR	6	3/4"	125 mm	

CODE	ZONES	i	
CBC02D34	2	125 mm	
CBC03D34	3	125 mm	
CBC04D34	4	125 mm	
CBC05D34	5	125 mm	
CBC06D34	6	125 mm	



DUAL OPPOSED manifolds

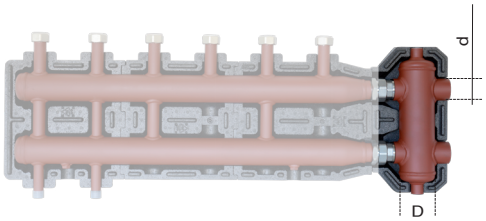
CODE	ZONES	d	i	
C21D34GR	2+1	3/4"	125 mm	
C22D34GR	2+2	3/4"	125 mm	
C31D34GR	3+1	3/4"	125 mm	
C32D34GR	3+2	3/4"	125 mm	
C33D34GR	3+3	3/4"	125 mm	
C41D34GR	4+1	3/4"	125 mm	
C42D34GR	4+2	3/4"	125 mm	
C51D34GR	5+1	3/4"	125 mm	

CODE	ZONES	i	
CBC21D34	2+1	125 mm	
CBC22D34	2+2	125 mm	
CBC31D34	3+1	125 mm	
CBC32D34	3+2	125 mm	
CBC33D34	3+3	125 mm	
CBC41D34	4+1	125 mm	
CBC42D34	4+2	125 mm	
CBC51D34	5+1	125 mm	

Components for **Pump units**

Diacom mini • Compact separator with DIRECT connection to the DIACOL 125 manifold

- FEMALE NUT
- EQUIPPED WITH CONNECTION COUPLING TO THE MANIFOLD

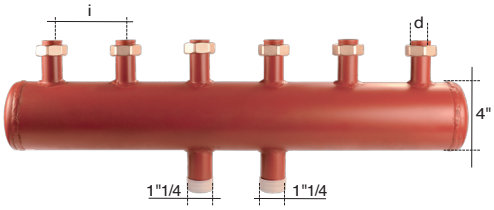


CODE	CONNECTIONS	d	D	
CM114	threaded F	1"1/4	Ø 2"1/2	

CODE	D	
DIACOM MINI INSULATION		
CBCM114	Ø 2"1/2	

Diasys • Multifunction manifold with integrated hydraulic separator

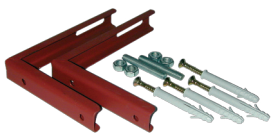
- NUT JOINT: 1"



CODE	ZONES	d	i	
CCI0234GR	2	3/4"	125 mm	
CCI0334GR	3	3/4"	125 mm	
CCI3134GR	3+1	3/4"	125 mm	
CCI3234GR	3+2	3/4"	125 mm	

CODE	ZONES	i	
DIASYS INSULATION			
CBI0234GR	2	125 mm	
CBI0334GR	3	125 mm	
CBI3134GR	3+1	125 mm	
CBI3234GR	3+2	125 mm	

Accessories



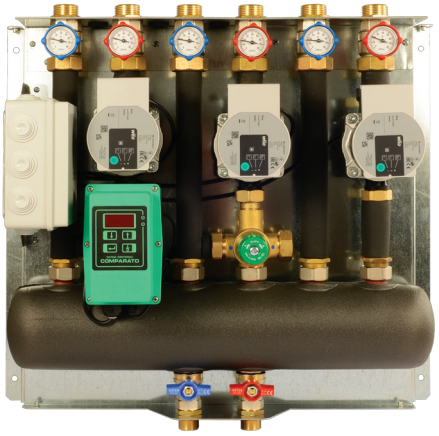
FIXING KIT

CODE	DESCRIPTION	
KSC1	Support brackets with slots for regulation, screw anchors, threaded screw and nuts	

Compact System

Wall-hanging compact distribution unit

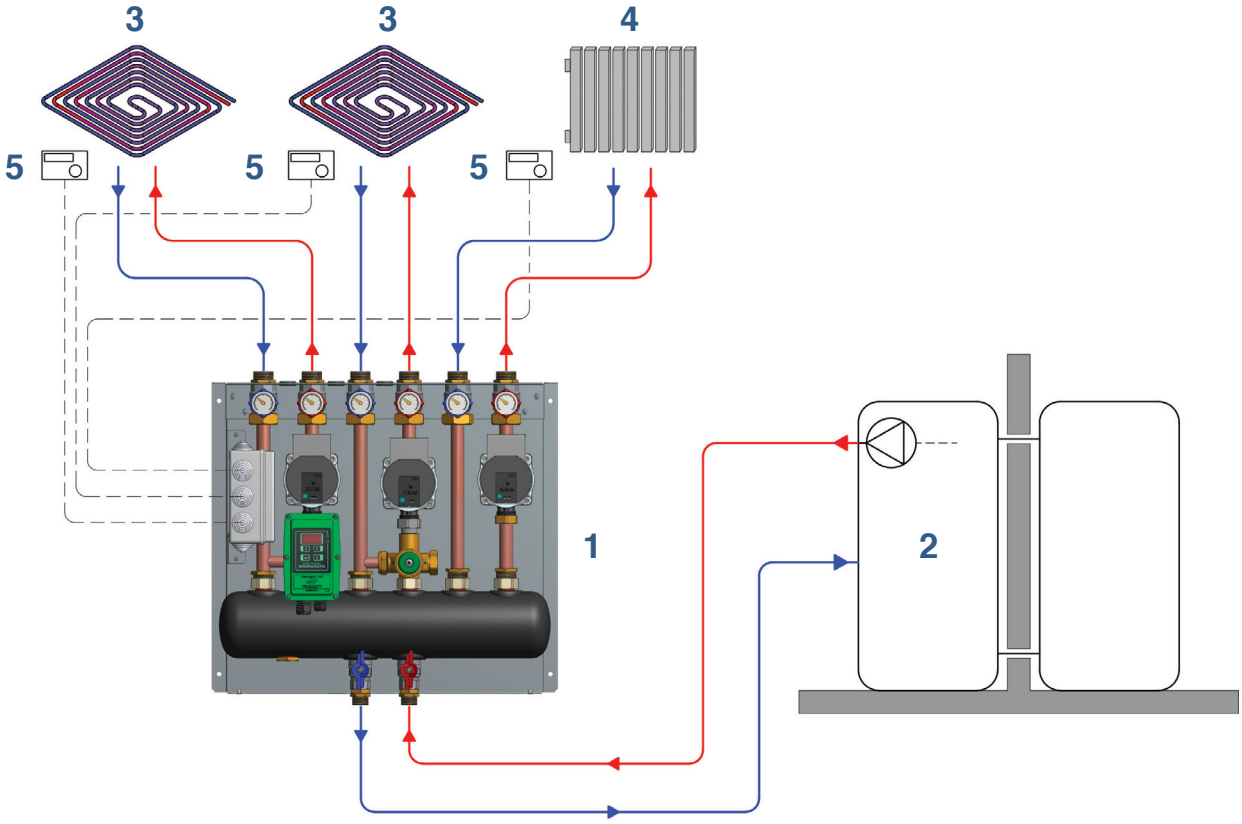
- **POWER SUPPLY:** 230V 50 Hz



COMPACT SYSTEM is a wall-hanging compact distribution unit that regulates singularly each thermal zone, granting the separation between generator and plant. **COMPACT SYSTEM** can be used with heat pumps, gas boilers and biomass boilers and it is suitable for heating and cooling plants.

EXAMPLE OF USE: ZONED HEATING PLANT WITH BOTH HIGH-TEMPERATURE AND LOW-TEMPERATURE ZONES

1 : **COMPACT SYSTEM**
2 : Heat pump (with integrated circulator)
3 : Radiant panel system
4 : Radiator systems
5 : Room thermostat



Compact System

TABLE for code configuration

0	**COMPACT WALL-HANGING PUMP UNIT**	
	SK2	2-zone distribution with hydraulic separator
	SK3	3-zone distribution with hydraulic separator
1	**FUNCTION**	
	0	heating
	R	heating and cooling
2	**1st ZONE TYPE · LEFT**	
	D	direct
	H *	mixing fixed-point 30°C - 60°C
	M	mixing modulating with on-board electronics for radiant panels
3	**2nd ZONE TYPE · CENTRAL**	
	D	direct
	H *	mixing fixed-point 30°C - 60°C
	M	mixing modulating with on-board electronics for radiant panels
4	**3rd ZONE TYPE · RIGHT**	
	0	not present
	D	direct
	H *	mixing fixed-point 30°C - 60°C
	M	mixing modulating with on-board electronics for radiant panels

* heating function only

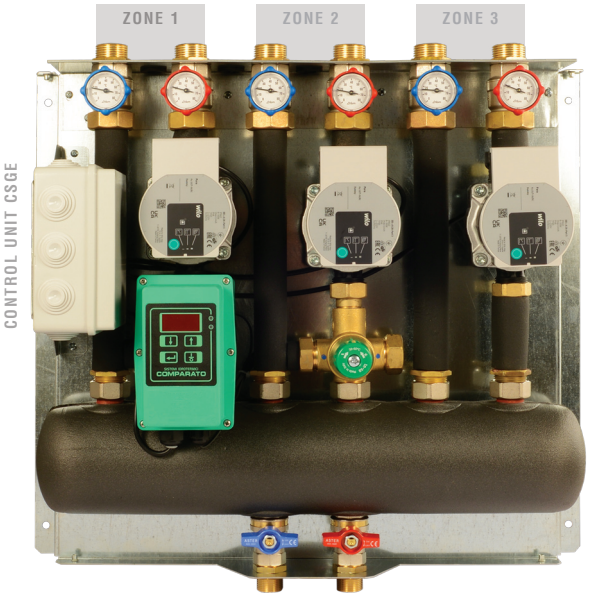
Accessories

CODE	DESCRIPTION
CSGE	Electromechanical management board
CSK	Sheet metal cover, RAL 9010 white powder coating
TEMPERATURE PROBE	
RFSONDAE **	External temperature probe for weather compensation
RFTRUEE10 ***	Temperature and humidity probe

** It can only be combined with mixing modulating zone (M) with on -board electronics

*** It can only be combined with mixing modulating zone (M) and cooling funcion (R)

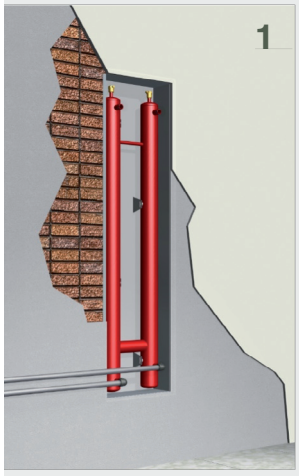
CODE EXAMPLE				
0	1	2	3	4
SK3	0	M	H	D



MICRO BUFFER

BUILD-INTO-WALL FOR HEAT PUMP

AVAILABLE ALSO IN STAINLESS STEEL



Buffer tanks for heat pumps are essential for:

- suppling thermal inertia to the plant
- garanting the hydraulic separation from the plant
- storing enough energy for defrost function

This is the innovative solution that allows to use micro buffer tanks also in apartments or detached small houses thanks to the build-into-wall installation.

FEATURES

- Up to 50l storage
- Build-into-wall installation
- Hydraulic separator integrated function

Please contact our Technical Departement for further information

Under-boiler units

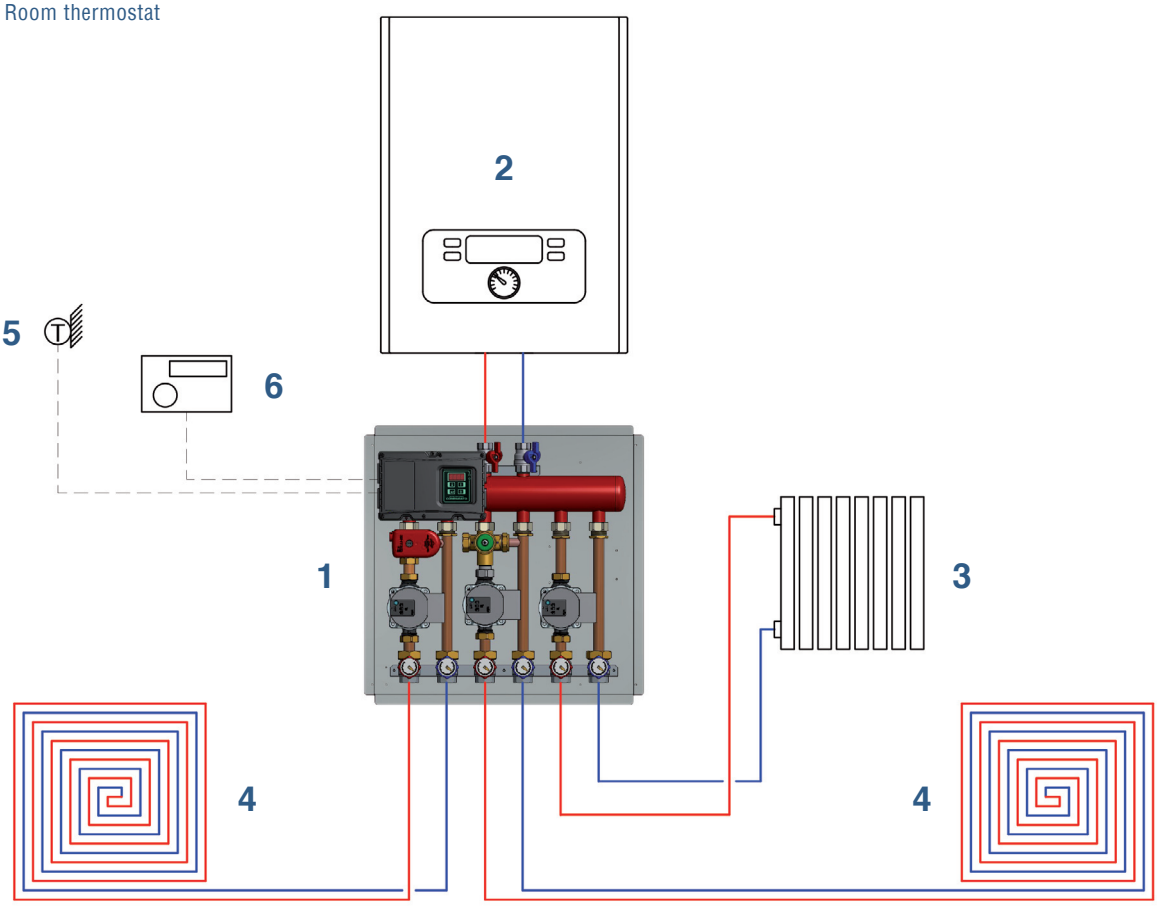
Built-in under-boiler distribution system

- **POWER SUPPLY:** 230V 50 Hz
- **ELECTROMECHANICAL CONTROL UNIT INCLUDED**

UNDER-BOILER UNITS are capable of independently regulating each thermal zone, making the system independent from the generator thanks to the integrated hydraulic separation function. They are suitable for use with heat pumps, gas boilers, and biomass boilers for heating applications.

EXAMPLE OF USE: ZONED HEATING PLANT WITH HIGH AND LOW TEMPERATURE CIRCUITS

1 : **UNDER-BOILER UNIT**
2 : Generator
3 : High temperature heating system
4 : Radiant panel system
5 : External temperature probe for weather compensation function
6 : Room thermostat



Under-boiler units

TABLE for code configuration

0	UNDER-BOILER UNITS PUMP UNIT	
	ST2	2-zone distribution with integrated hydraulic separator
	ST3	3-zone distribution with integrated hydraulic separator

1	1st ZONE TYPE · LEFT	
	D	direct
	H	mixing fixed-point 30°C - 60°C
	M *	mixing modulating with on-board electronics for radiant panels

2	2nd ZONE TYPE · CENTRAL	
	D	direct
	H	mixing fixed-point 30°C - 60°C
	M *	mixing modulating with on-board electronics for radiant panels

3	3rd ZONE TYPE · RIGHT	
	0	not present
	D	direct
	H	mixing fixed-point 30°C - 60°C
	M *	mixing modulating with on-board electronics for radiant panels

* to be combined with the accessories below; for versions with more than one mixing modulating zone, please contact our Technical Department.

Accessories

MODULATING ACTUATOR

CODE	TECHNICAL FEATURES
SS2221BI	35 sec • 230 V 50-60 Hz • 3-point
SS2221BC2I	120 sec • 230 V 50-60 Hz • 3-point

PROPORTIONAL ACTUATOR

CODE	TECHNICAL FEATURES
SM4010F030I	30 sec • 24 V AC/DC • 0 - 10 V

CONTROL UNIT FOR RADIANT PANELS WITH ACTUATOR AND CONTACT TEMPERATURE PROBE

CODE	TECHNICAL FEATURES
CGRMS1	230 V 50/60 Hz • For one MIXING MODULATING group

CODE	DESCRIPTION
RFSONDAE *	External temperature probe for weather compensation

* each probe can be matched to only one mixing modulating zone

CODE EXAMPLE			
0	1	2	3
ST3	M	H	D

Accessory

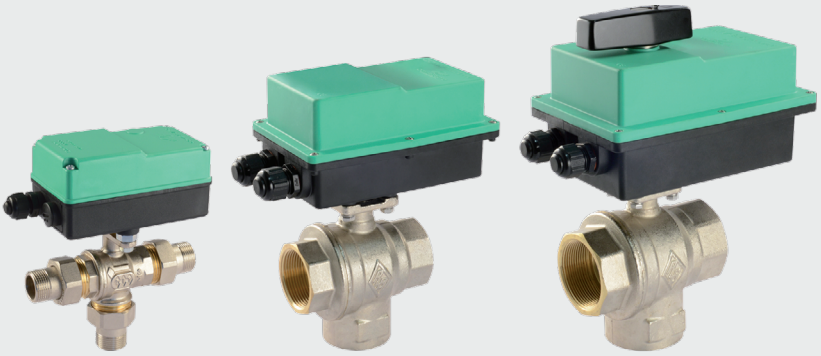
MOULDING AND DOOR

CODE	DESCRIPTION	
QSCCS	Moulding and door	

FAST

Diverting Actuated Valve for

HEAT PUMPS



Diamant 2000
4 SEC.
Motorised valve

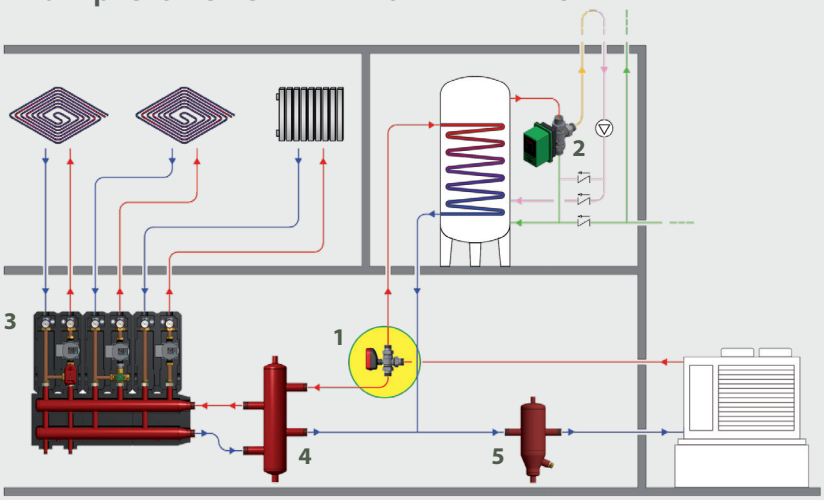
Compact PRO
9 SEC.
Motorised valve

Universal PRO
14 SEC.
Motorised valve

SINTESI
15 SEC.
Motorised valve

SINTESI DC
3 SEC.
Motorised valve

Example of SYSTEM with HEAT PUMP



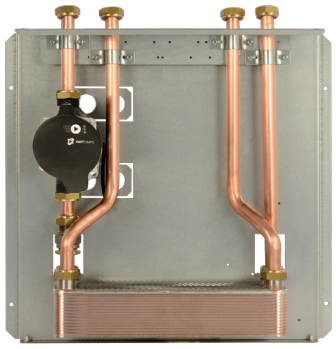
1 : Diverting Actuated Valve **SINTESI**
2 : ANTI-LEGIONELLA Mixing Valve **DIAMIX L • COMPAMIX L**
3 : **PUMP UNIT** with MANIFOLD
4 : Hydraulic Separator **DIACOM**
5 : Hydrociclonic Deposit Separator **DIADEF MAGNETIC**

HYDRAULIC INTERFACES

Ecokam T

Gas boiler separation

- Separation of the gas boiler from the rest of the system with a plate heat exchanger.
- Automatic switching between the solid fuel boiler and the gas boiler.
- Direct use of the solid fuel boiler.



CODE	DESCRIPTION	
ES1P24E	gas boiler power max 24 kW *	
ES1P35E	gas boiler power max 35 kW *	

* THE POWER OF THE SOLID FLUID HEATER DOES NOT INFLUENCE THE HEAT EXCHANGER'S DIMENSION

Accessories

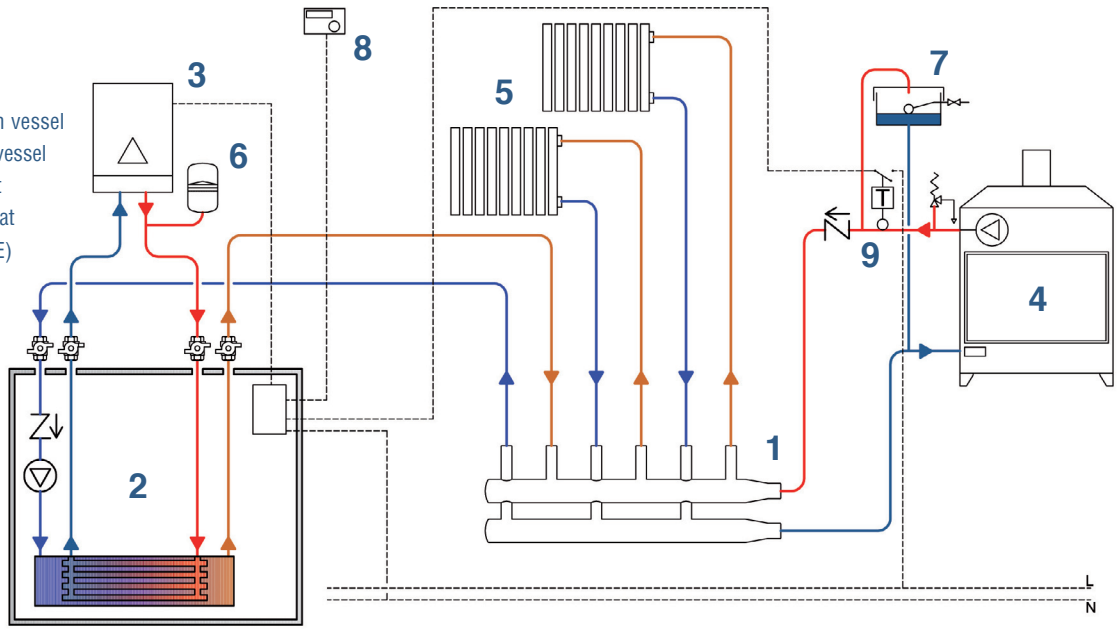
CASING

MANAGEMENT UNIT

CODE	DESCRIPTION
CEK	RAL 9010 white cover
CEGE	Management control unit for automatic switching between the solid fuel boiler and the gas boiler

EXAMPLE OF USE

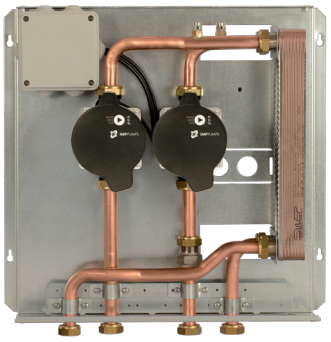
1 : DIACOL manifold
2 : **Ecokam T**
3 : Gas boiler
4 : Solid fuel boiler
5 : Heating plant
6 : Closed expansion vessel
7 : Open expansion vessel
8 : Room thermostat
9 : Contact thermostat (included in CEGE)



Ecokam RC

Separation of the solid fuel boiler

- Separation of the solid fuel boiler from the rest of the system with a plate heat exchanger.
- Automatic switching between the solid fuel boiler and the gas boiler.
- Direct use of the gas boiler.



CODE	DESCRIPTION
ES2P18RCN	source power max 20 kW • 2 pumps
ES2P35RCN	source power max 35 kW • 2 pumps
ES1P18RCIN	source power max 20 kW • 1 pump *
ES1P35RCIN	source power max 35 kW • 1 pump *

* HEATING SIDE

Accessories

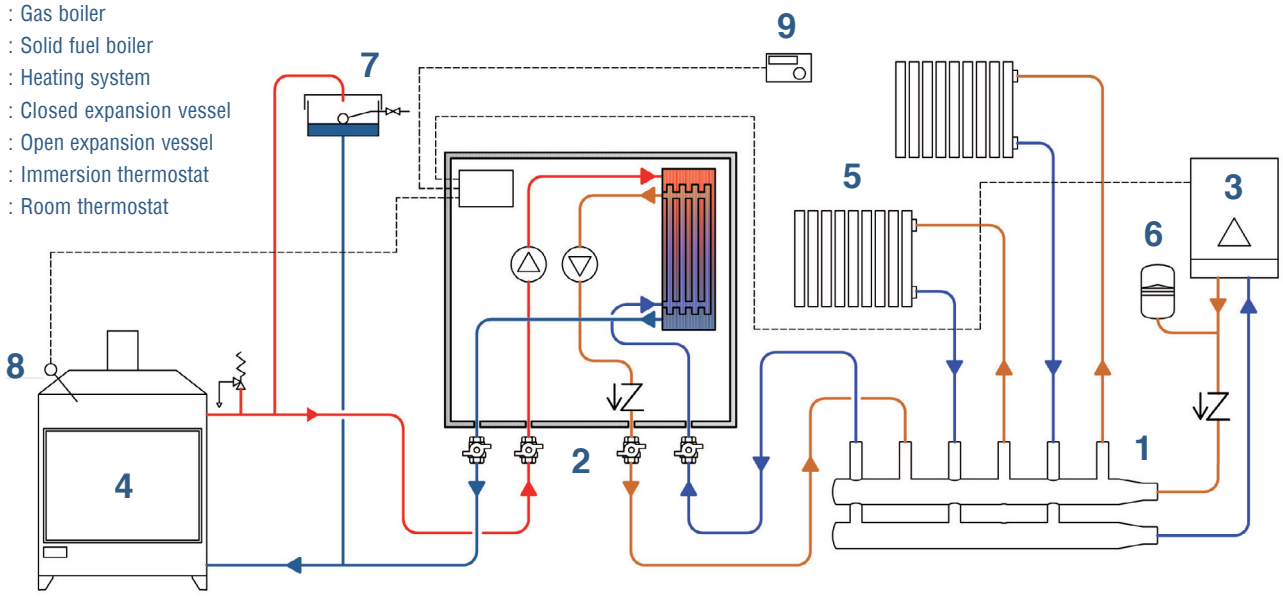
CASING

CODE	DESCRIPTION
CEK	RAL 9010 white cover
Add A *	Anti-condensation system

* ADD "A" AT THE END OF THE BASE MODEL CODE

EXAMPLE OF USE

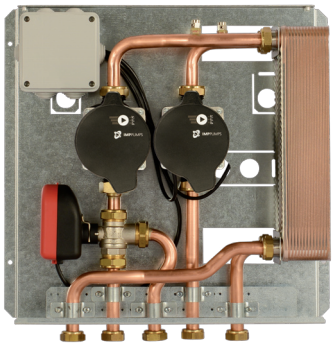
1 : DIACOL manifold
2 : **Ecokam RC**
3 : Gas boiler
4 : Solid fuel boiler
5 : Heating system
6 : Closed expansion vessel
7 : Open expansion vessel
8 : Immersion thermostat
9 : Room thermostat



Ecokam R

Separation of the solid fuel boiler with a motorised valve

- Separation of the solid fuel boiler from the rest of the system with a plate heat exchanger and diverting valve.
- Automatic switching between the solid fuel boiler and the gas boiler.
- Direct use of the gas boiler.



CODE	DESCRIPTION	
ES2P18N	source power max 20 kW • 2 pumps	
ES2P35N	source power max 35 kW • 2 pumps	
ES1P18IN	source power max 20 kW • 1 pump *	
ES1P35IN	source power max 35 kW • 1 pump *	

* HEATING SIDE

Accessories

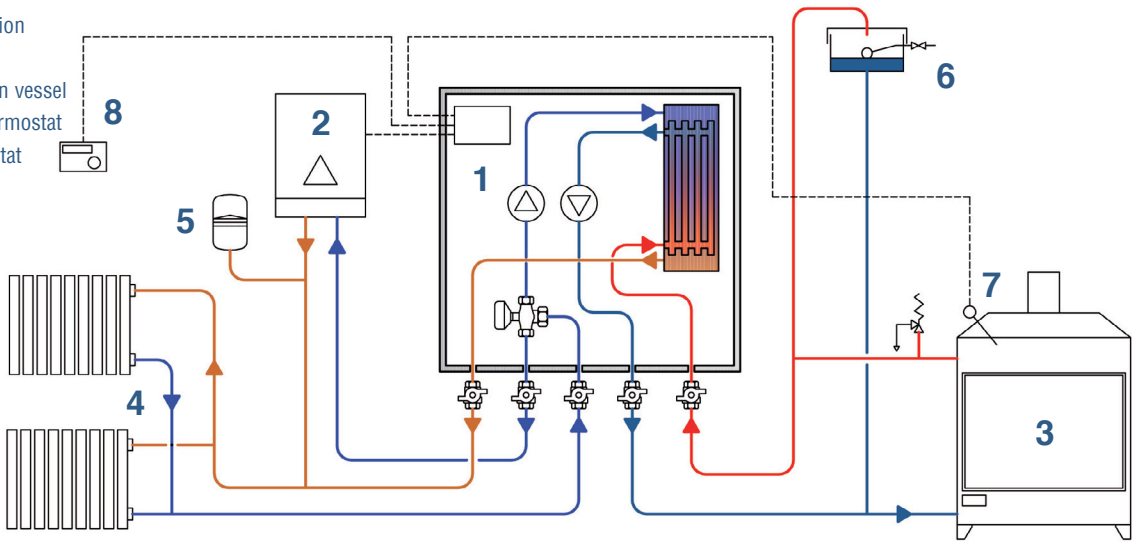
CASING

CODE	DESCRIPTION	
CEK	RAL 9010 white cover	
Add A *	Anti-condensation system	

* ADD "A" AT THE END OF THE BASE MODEL CODE

EXAMPLE OF USE

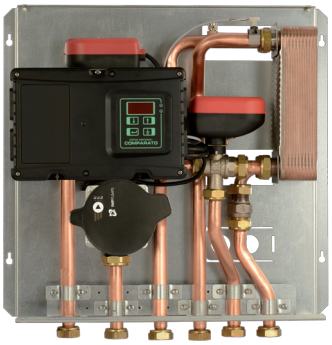
1 : **Ecokam R**
2 : Gas boiler
3 : Solid fuel boiler
4 : Heating plant
5 : Closed expansion vessel
6 : Open expansion vessel
7 : Immersion thermostat
8 : Room thermostat



Ecokam S

Production of domestic hot water, management of the solid fuel boiler.

- Management of the solid fuel boiler for the instant production of DHW and automatic switching with the gas boiler.
- With plate heat exchanger and modulating electronic controller.



CODE	DESCRIPTION	
ES0P18SN	without pump	
ES1P18SN	with pump	

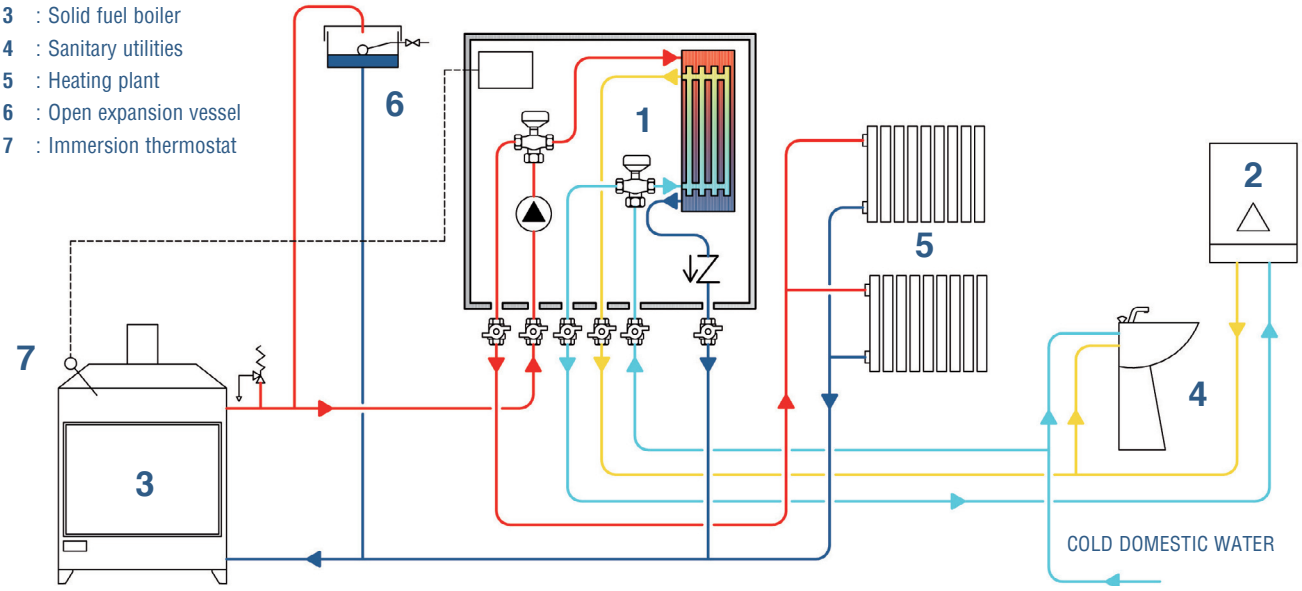
Accessory

CASING

CODE	DESCRIPTION	
CEK	RAL 9010 white cover	

EXAMPLE OF USE

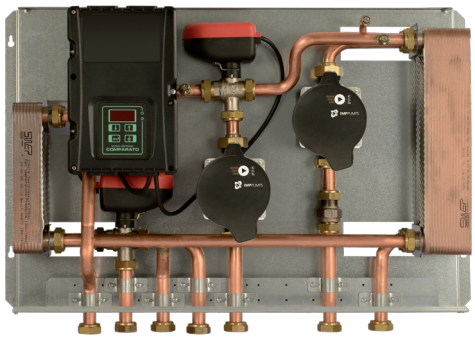
1 : **Ecokam S**
2 : Boiler
3 : Solid fuel boiler
4 : Sanitary utilities
5 : Heating plant
6 : Open expansion vessel
7 : Immersion thermostat



Ecokam RSC

Production of domestic hot water with separation of the solid fuel boiler

- Separation of the solid fuel boiler from the rest of the system with a plate heat exchanger.
- Automatic switching between the solid fuel boiler and the gas boiler.
- With instant DHW production.



CODE	DESCRIPTION	
ES2P18RSC	source power max 20 kW • 2 pumps	
ES2P35RSC	source power max 35 kW • 2 pumps	
ES1P18RSCI	source power max 20 kW • 1 pump *	
ES1P35RSCI	source power max 35 kW • 1 pump *	

* HEATING SIDE

Accessories

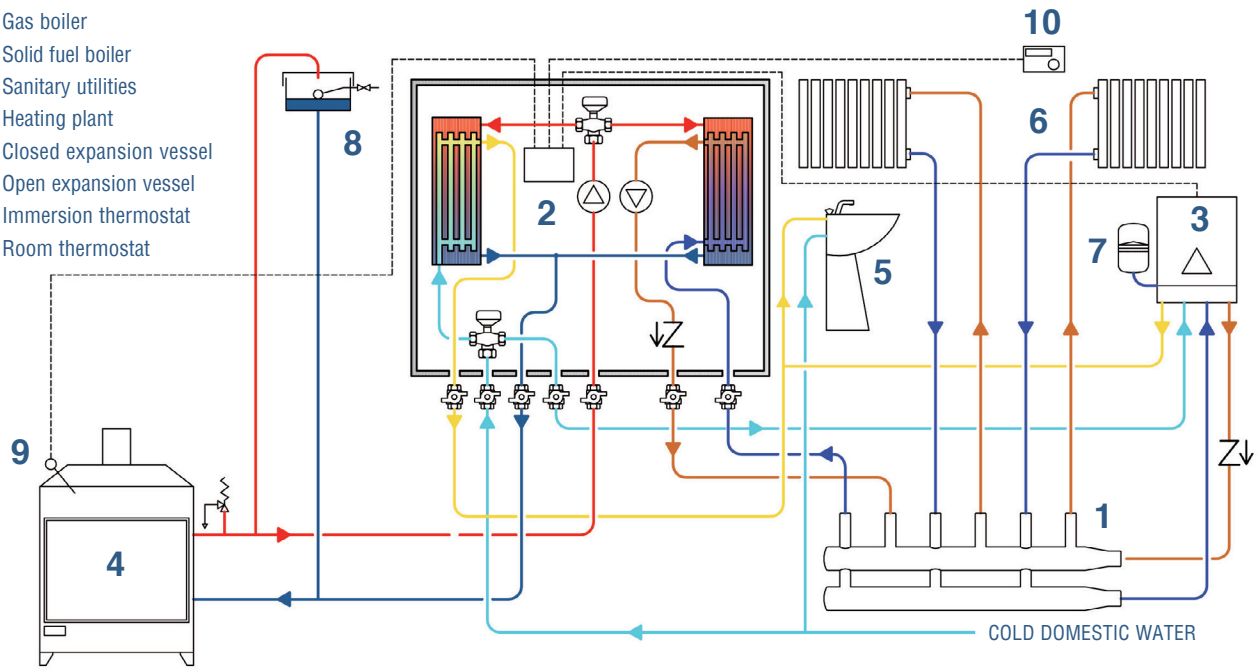
CASING

CODE	DESCRIPTION	
CEKRS	RAL 9010 white cover	
Add A *	Anti-condensation system	

* ADD "A" AT THE END OF THE BASE MODEL CODE

EXAMPLE OF USE

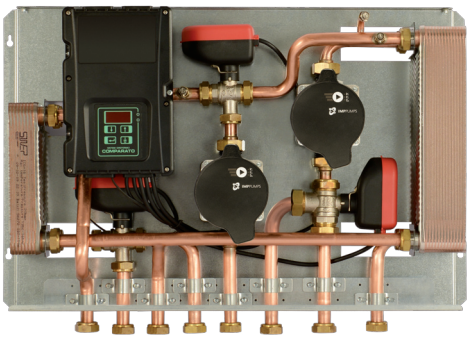
1 : DIACOL manifold
2 : **Ecokam RSC**
3 : Gas boiler
4 : Solid fuel boiler
5 : Sanitary utilities
6 : Heating plant
7 : Closed expansion vessel
8 : Open expansion vessel
9 : Immersion thermostat
10 : Room thermostat



Ecokam RS

Production of domestic hot water with separation of the solid fuel boiler and motorised valve

- Separation of the solid fuel boiler from the rest of the system with a plate heat exchanger and diverter valve.
- Automatic switching between the solid fuel boiler and the gas boiler.
- With instant DHW production.



CODE	DESCRIPTION	
ES2P18RS	source power max 20 kW • 2 pumps	
ES2P35RS	source power max 35 kW • 2 pumps	
ES1P18RSI	source power max 20 kW • 1 pump *	
ES1P35RSI	source power max 35 kW • 1 pump *	

* HEATING SIDE

Accessories

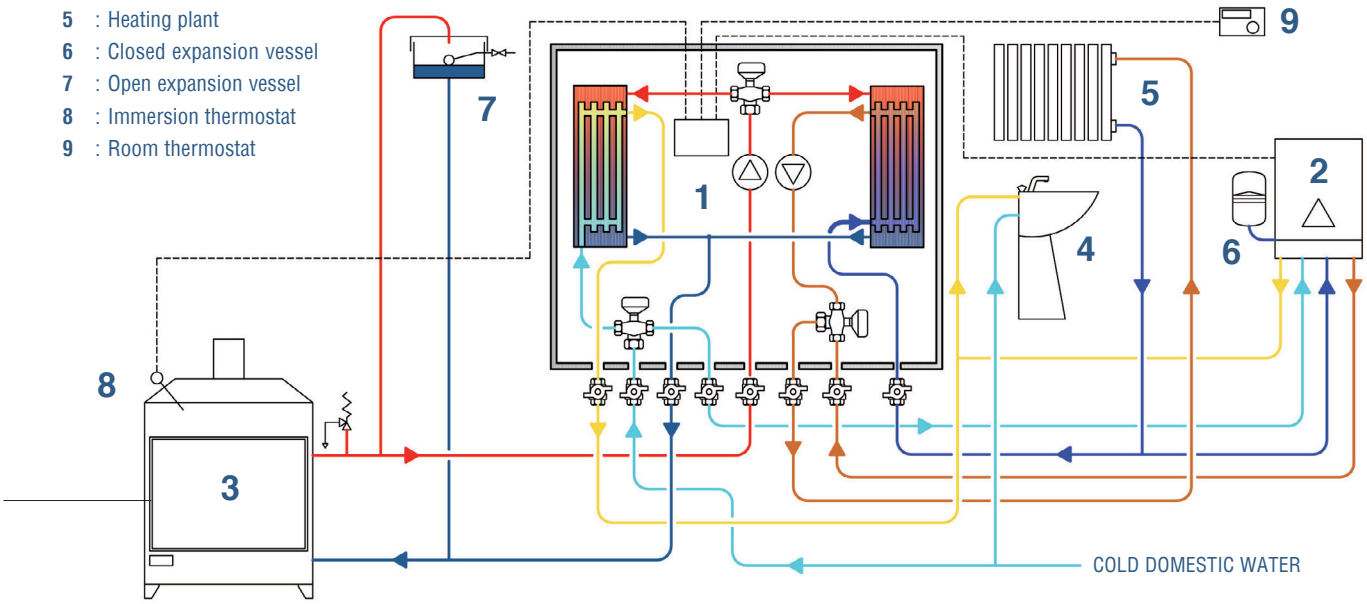
CASING

CODE	DESCRIPTION	
CEKRS	RAL 9010 white cover	
Add A *	Anti-condensation system	

* ADD "A" AT THE END OF THE BASE MODEL CODE

EXAMPLE OF USE

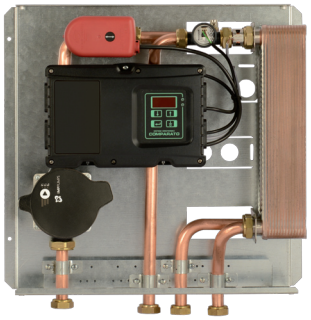
1 : **Ecokam RS**
2 : Gas boiler
3 : Solid fuel boiler
4 : Sanitary utilities
5 : Heating plant
6 : Closed expansion vessel
7 : Open expansion vessel
8 : Immersion thermostat
9 : Room thermostat



Ecosan

Production of domestic hot water

- Use of thermal energy from a technical water storage.
- With plate heat exchanger.
- With modulating electronic controller.



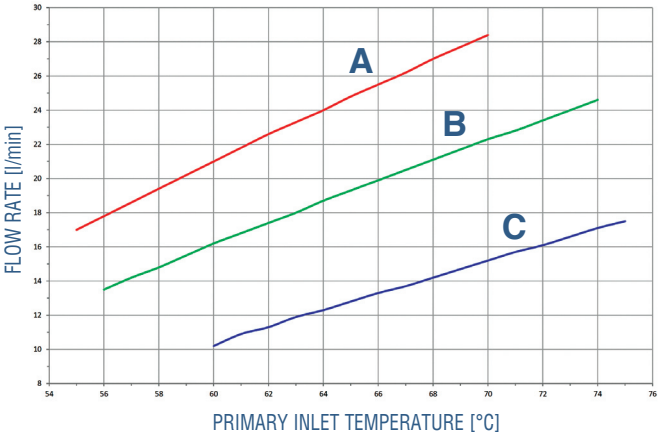
CODE	DESCRIPTION
ECOSP35	power max 35 kW • 1 pump
ECOSP50	power max 50 kW • 1 pump
ECOSP60	power max 60 kW • 1 pump
ECOSI35	power max 35 kW ready for pump 1"x130mm
ECOSI50	power max 50 kW ready for pump 1"x130mm

Accessory

CASING

CODE	DESCRIPTION
CEK	RAL 9010 white cover

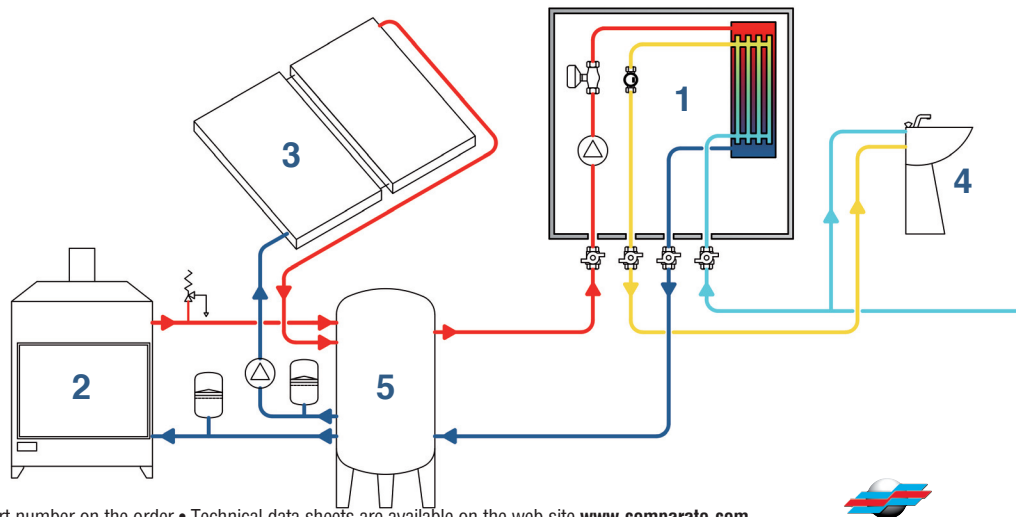
ΔT DOMESTIC HOT WATER 10 / 45°C



A : ECOSP60
B : ECOSP50
C : ECOSP35

EXAMPLE OF USE

1 : **ECOSAN**
2 : Solid fuel boiler
3 : Solar thermal plant
4 : Sanitary utilities
5 : Puffer

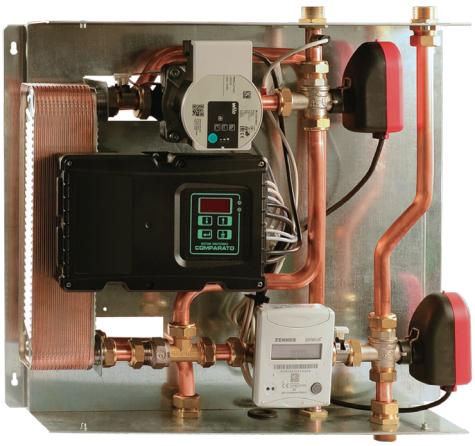


Ecosan PDC

Production of domestic hot water

Modbus

Hydraulic unit for the instant production of domestic hot water, using a plate heat exchanger, for systems equipped with **HEAT PUMPS**. The electronic temperature controller modulates the speed of the primary pump by varying the flow rate, thus maintaining the domestic hot water temperature stable, precisely, and efficiently. Thanks to the high surface area plate heat exchanger, **ECOSAN PDC** can produce DHW with a technical water temperature stored in the buffer tank of only 50°C.

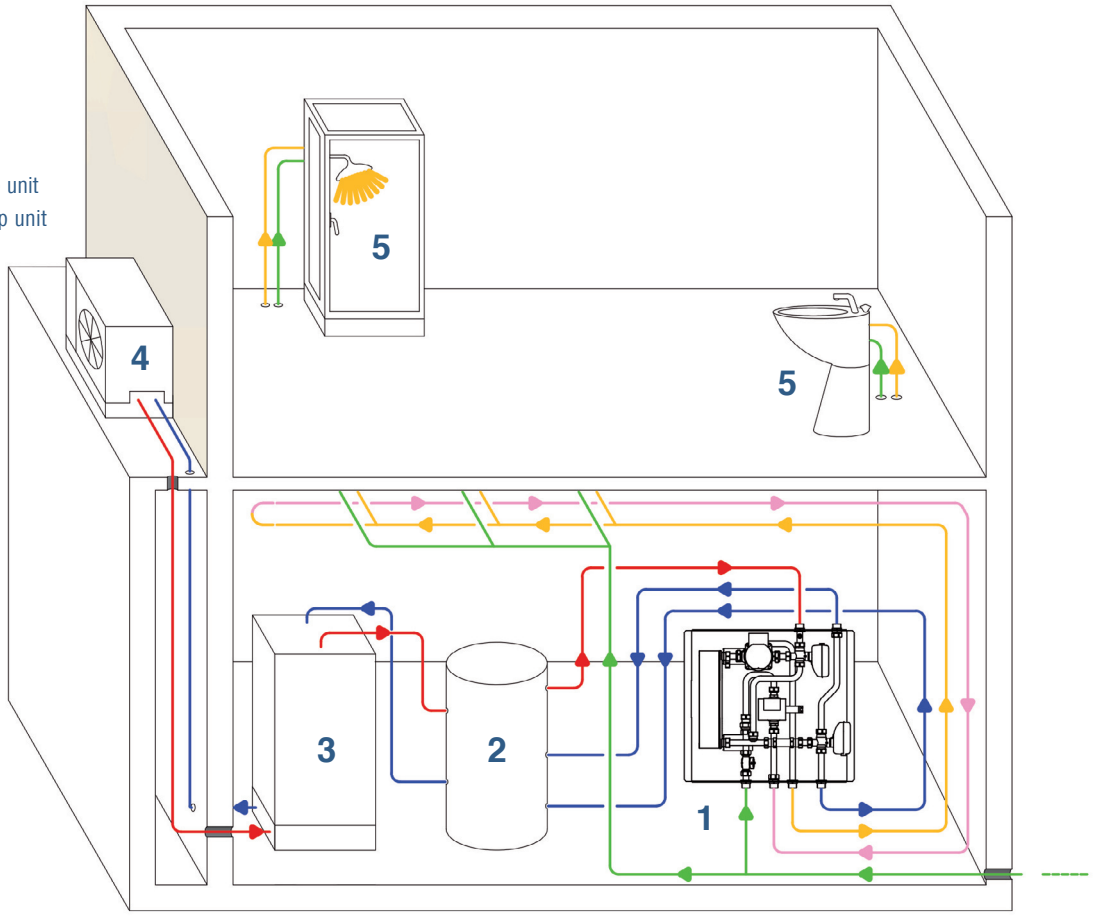


FUNCTIONS

- DHW temperature electronic regulation by modulating the primary flow thanks to a high-efficiency PWM pump
- Primary flow temperature control by using a mixing valve
- DHW recirculation with pump and programmable anti-legionella thermal disinfection cycle
- Primary return diversion by using a 3-way valve for water stratification in the puffer
- Generator activation through immersion probe for puffer
- Direct energy meter
- Modbus-RTU communication protocol for remote management

EXAMPLE OF USE

1 : **ECOSAN PDC**
2 : Puffer
3 : Internal Heat Pump unit
4 : External Heat Pump unit
5 : Sanitary utilities



Ecosan PDC

TABLE for code configuration

0	**ECOSAN PDC**	
	ECOPC	DHW instantaneous production for heat pumps, electronic regulation, Modbus-RTU for remote management by BMS systems
1	**NOMINAL POWER**	
	35	35 kW nominal power plate exchanger
	50	50 kW nominal power plate exchanger
2	**PRIMARY FLOW TEMPERATURE CONTROL**	
	0	not present
	1	present with 3-way mixing valve
3	**EXTRA FUNCTIONS**	
	0	not present
	R	DHW recirculation with pump and anti-legionella thermal disinfection cycle
	D	primary return diversion with 3-way valve for water stratification in the puffer
	3	generator activation through immersion temperature probe for puffer
4	**HEAT METER READY**	
	0	not present
	T	heat meter stub piece 3/4"x110mm

Accessories

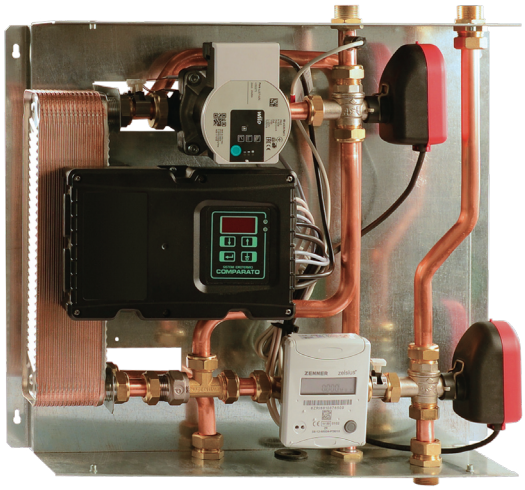
HEAT METER

CODE	DESCRIPTION
CFCENM34B	Mechanical energy meter hot / cold DN15 Qp 1,5 mc/h M-Bus reading
CFCENU34B	Ultrasonic energy meter hot / cold DN15 Qp 1,5 mc/h M-Bus reading
CFCENU34BW	Ultrasonic energy meter hot / cold DN15 Qp 1,5 mc/h Wireless M-Bus readings

WHITE COVER

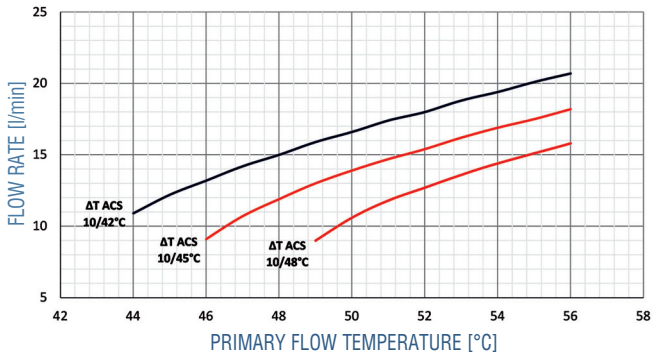
CODE	DESCRIPTION
CPDC	RAL9010 white solid cover

CODE EXAMPLE				
0	1	2	3	4
ECOPC	35	0	R	0

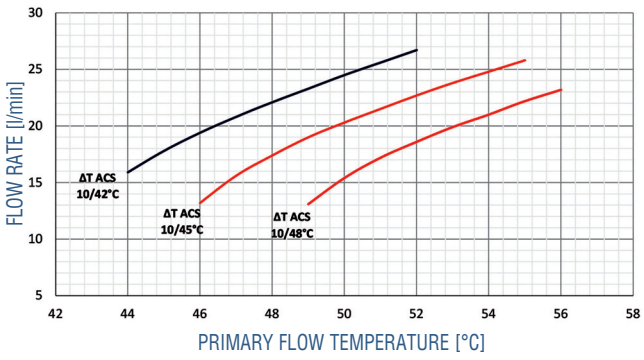


DHW PRODUCTION PERFORMANCE FOCUS

35 kW NOMINAL POWER VERSION

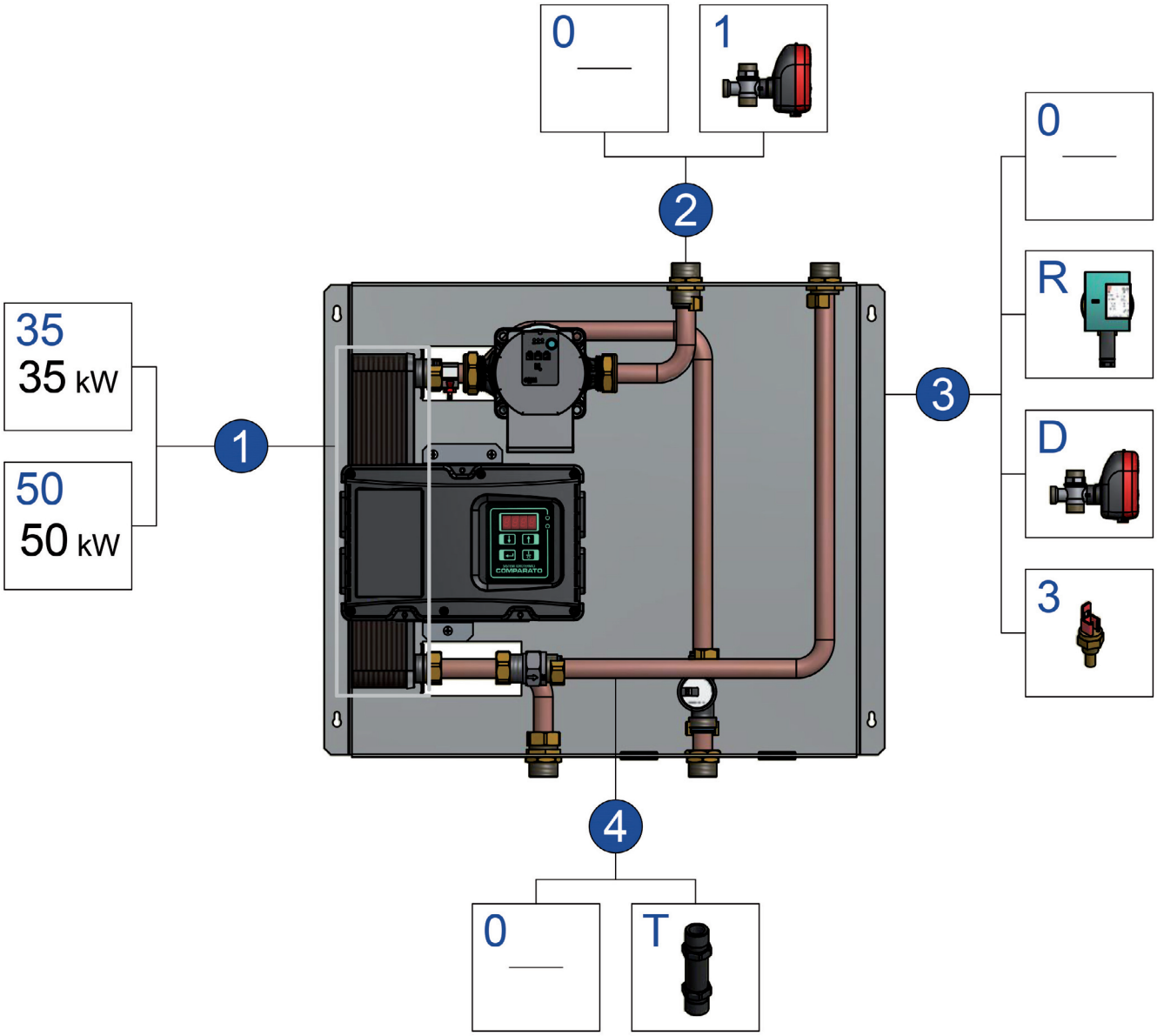


50 kW NOMINAL POWER VERSION



HYDRAULIC INTERFACES

Ecosan PDC



Ecosan PDC L

Production of domestic hot water

Hydraulic unit for DHW instantaneous production using a plate heat exchanger for systems with **HEAT PUMP**. The electronic mixing valve manages the recirculation pump and the anti-legionella disinfection cycle; it also controls the flow temperature to the DHW distribution line. Thanks to the plate heat exchanger with high thermal exchange surface area, **ECOSAN PDC L** can produce DHW with 50°C technical water of the puffer.

FUNCTIONS

- DHW instantaneous production by using a plate heat exchanger
- DHW mixing by using an electronic mixing valve
- Programmable anti-legionella thermal disinfection
- Storage of the anti-legionella cycles realised
- Comparato LegioTool Software for the communication between PC and mixing valve with data download
- Modbus-RTU communication protocol for remote management
- Recirculation return temperature control by PWM modulation pump
- Recirculation pump with time setting

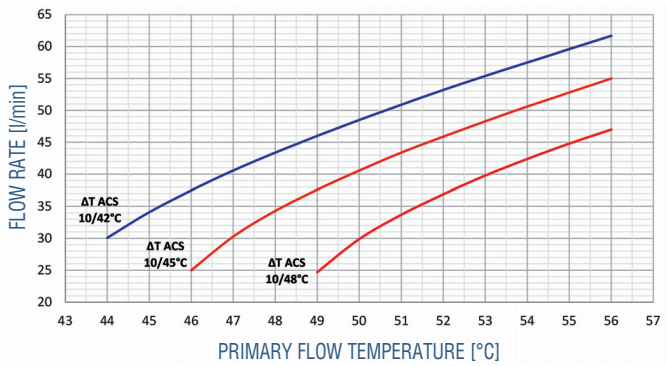
CODE	DESCRIPTION	
ECOSL100	instantaneous production nominal power, ACS 100 kW	
ECOSL150	instantaneous production nominal power, ACS 150 kW	

Accessories

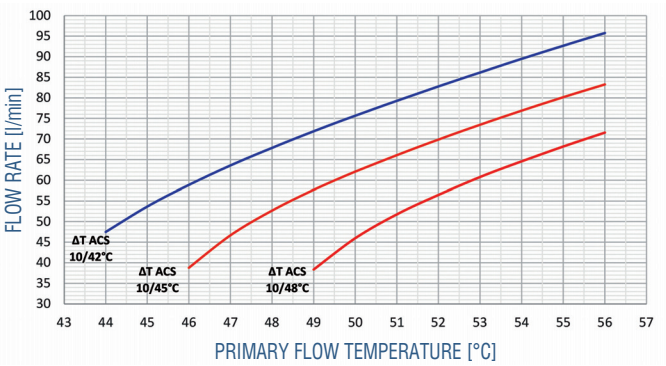
CODE	DESCRIPTION	
CIRPDC	PWM recirculation pump	
USBMOD	USB-Modbus interface	

DHW PRODUCTION PERFORMANCE FOCUS

100 kW NOMINAL POWER VERSION



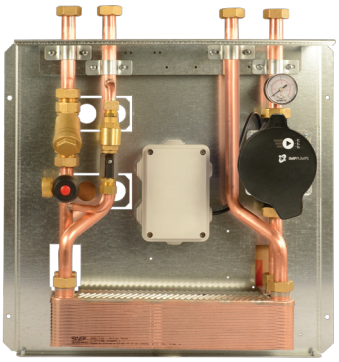
150 kW NOMINAL POWER VERSION



Sep Kit

Hydraulic separation unit to preserve the primary plant

- It hydraulically separates the boiler from heating plant to keep the primary circuit clean.



CODE	DESCRIPTION
ESEP2614	plate exchanger nominal power 26 kW - boiler / 14 kW - heat pump

Accessories

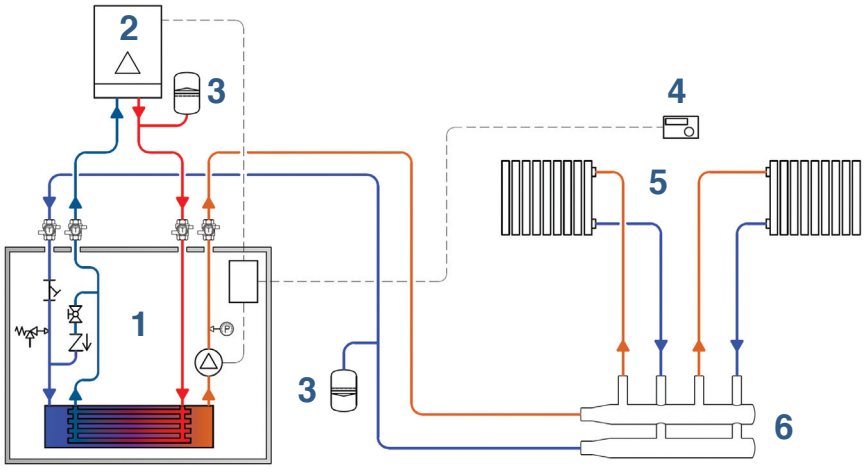
Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code.

ID	DESCRIPTION
V	Interception valves with thermometer
S	Control unit

CODE	DESCRIPTION
CEK	RAL 9010 white cover

EXAMPLE OF USE

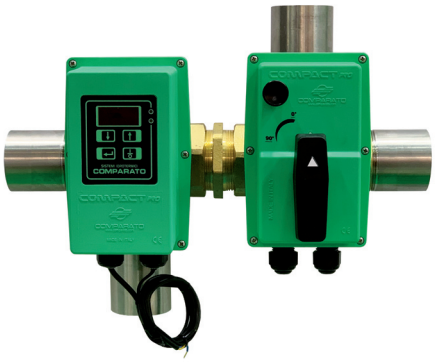
1 : **SEP KIT**
2 : Boiler
3 : Expansion vessel
4 : Room thermostat
5 : Heating plant
6 : Distribution manifold



Ecopool

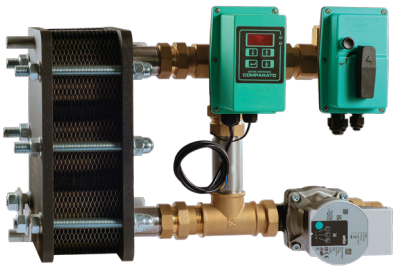
Pool temperature regulation

- Electronic regulation of the supply temperature to the pool.
- Automatic switching between two different energy sources based on the available temperature.
- Remote control capability via RS485 serial port with Modbus-RTU protocol.



CODE	DESCRIPTION	
PK2050	for pools up to 50 m³, 230V AC	
PK2100	for pools from 50 to 100 mc, 230V AC	
PK2200	for pools from 100 to 200 mc, 230V AC	

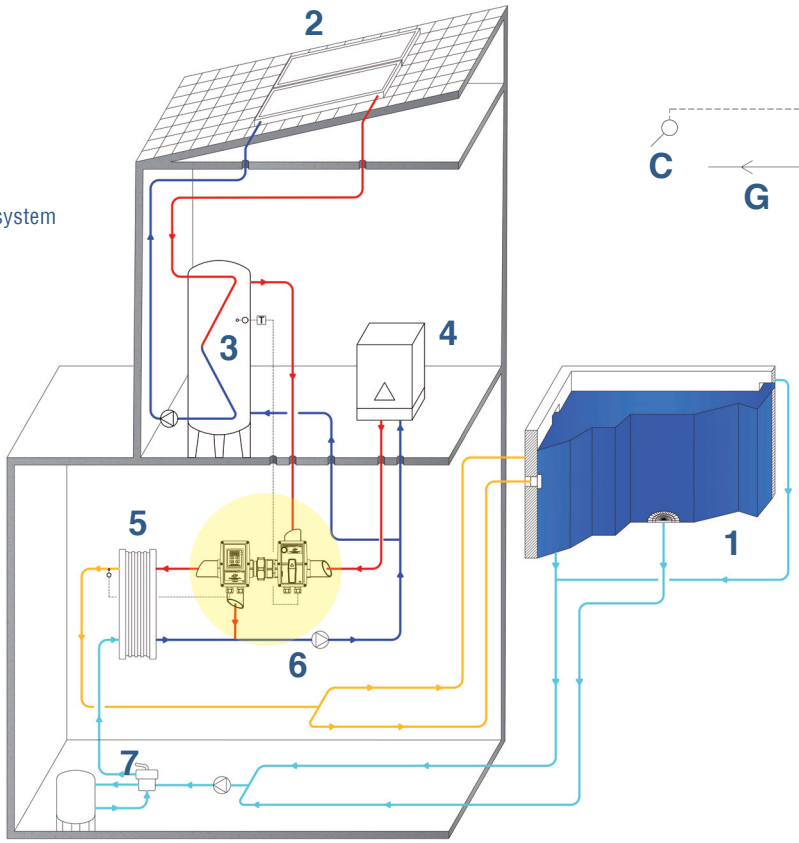
VERSION ON REQUEST

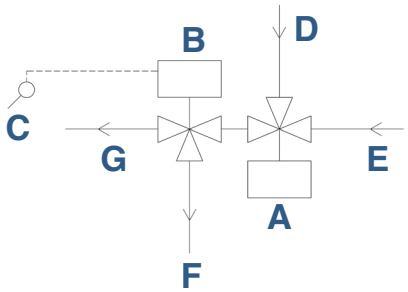


The combination of Compamix mixing valve with Compact PRO diverting valve allows for the automatic management to switch between two different heat sources, such as solar thermal and heat pump, and efficiently controls the temperature of swimming pools.

EXAMPLE OF USE

1 : Swimming pool
2 : Solar panels
3 : Storage tank
4 : Boiler
5 : Heat exchanger
6 : Circulation pump
7 : Water treatment system



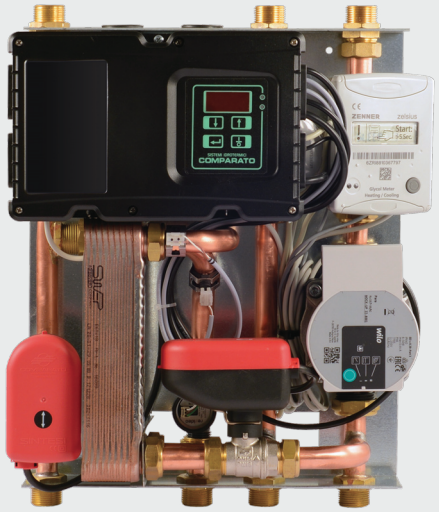


A 3-way diverting motorised valve
B 3-way modulating motorised valve with temperature probe
C Temperature probe on inlet pool
D Flow from source 1
E Flow from source 2
F Return to sources
G Flow to pool exchanger

PLUG&PLAY

EXISTING PLANTS UPGRADING

IMMEDIATE REPLACEMENTS



Our skill of producing according to Customer's request both in terms of functions and size, allows us to offer units that are perfectly interchangeable with others, that are already existing, in order to make a quick installation without any hydraulic nor building works, even for reduced quantities and in case of an original not **COMPARATO** product. Our Technical Department takes advantage of highly qualified staff who follows the project from the beginning, providing an advanced advice with high added value.

COMPARATO GRANTS:

- Same hydraulic connections position
- Any hydraulic connections interaxis variation
- Same overall dimensions
- Same fixing type
- Continuity of service (climatisation, DHW and DCW) in apartments reducing residents' inconveniences

DIRECT METERING

Conter S

Heating/cooling lines and domestic hot and cold water

Hydraulic Interface Unit for management and direct metering for centralised heating and cooling system with centralised DHW production. Direct metering and management of one energy line and domestic hot and cold water lines. Built-in installation.

PREASSEMBLED

CODE	DESCRIPTION
Q3IVHT000Y	Heating / cooling line and domestic water lines DN 15 with meter stub piece, DHW and DCW meters (G3/4"x110mm) and 2-WAY ball valve
Q3IVHT0J0Y	Heating / cooling line and domestic water lines DN 15 with meter stub piece, DHW and DCW meters (G3/4"x110mm), 2-WAY ball valve, and static balancing valve

Accessories

CODE	DESCRIPTION
SR2221U	SINTESI actuator 230V 50Hz, 2-point with auxiliary contact (opening) for zone valve
SR2421U	SINTESI actuator 24V 50Hz, 2-point with auxiliary contact (opening) for zone valve
RFKITCCAB	mechanical energy meter kit for hot / cold DN15 Qp 1,5 m³/h and 2 M-Bus meters for DHW and DCW
QS4CS	frame and door with customised lock
RFCOIBQS42A	energy line insulation

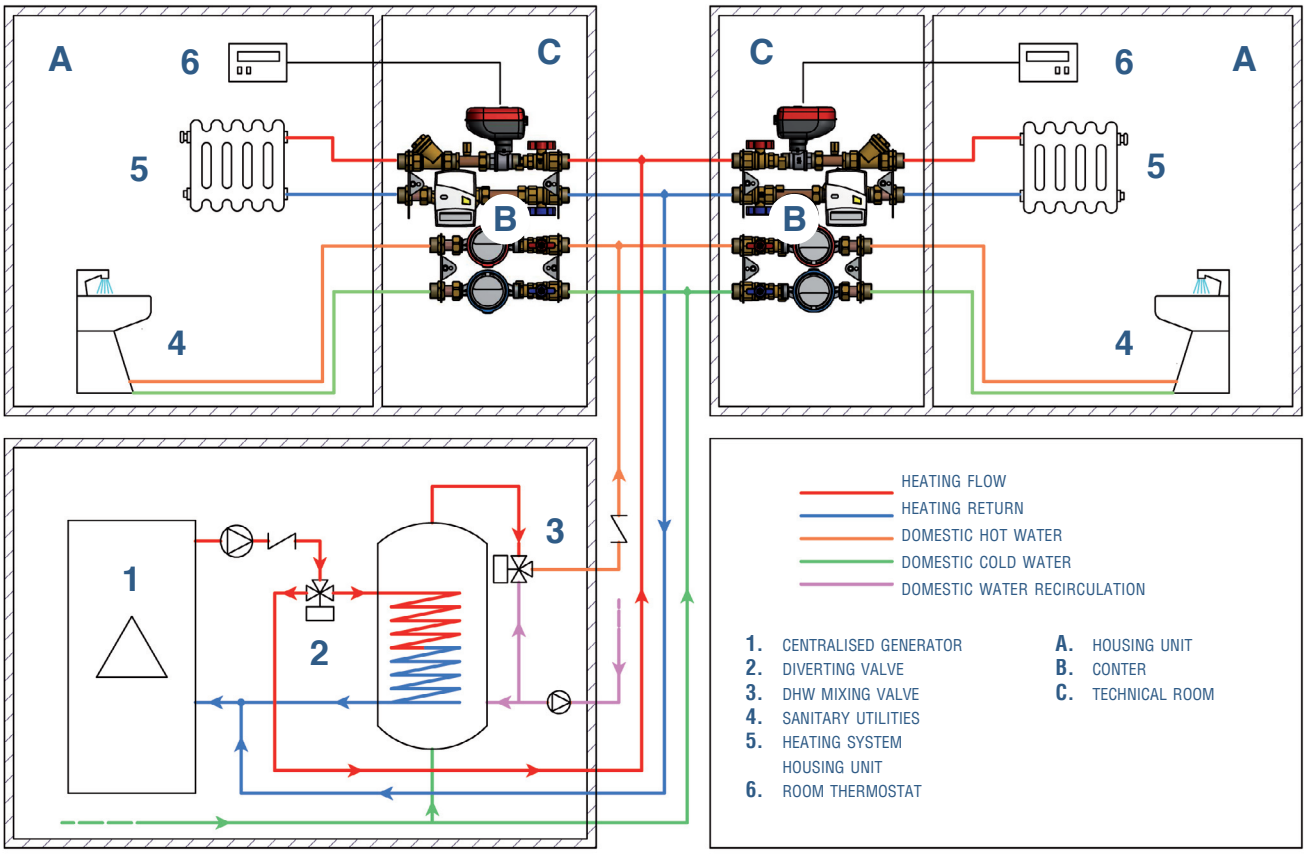
Conter

Heating/cooling lines and domestic hot and cold water

Hydraulic Interface Unit for direct metering and management of heating and cooling systems equipped with centralised domestic hot water production, with direct metering and management of the energy line. Optional hot and cold domestic water lines. Wall-hanging and built-into-wall installation.

MODULAR

EXAMPLE OF USE



Conter

TABLE for code configuration

0	**METERING LINE CONTER**	
	QK0	heating / cooling line **DN15** with meter stub piece (G3/4"x110mm) and **2-WAY** ball valve
	QK1	heating / cooling line **DN15** with meter stub piece (G3/4"x110mm) and **BY-PASS** ball valve
	QK3	heating / cooling line **DN20** with meter stub piece (G1"x130mm) and **2-WAY** ball valve
	QK4	heating / cooling line **DN20** with meter stub piece (G1"x130mm) and **BY-PASS** ball valve
1	**INSULATION**	
	H	energy line
	S	insulated energy line
2	**FLOW REGULATION**	
	0	not required
	J	static balancing valve
	X	dynamic balancing valve
	D	differential pressure control valve - DPCV
	M *	electronic flow regulation - MODFLOW
	P	electronic pump
3	**TYPE OF OUTLET**	
	A	direct
	B **	temperature-controlled

* includes SINTESI modulating actuator, electronic control unit

** option B implies QK0 or QK3 and P in position 2
includes electronic control unit, temperature probe and safety thermostat, hydraulic kit including SINTESI modulating actuator

Accessories

SINTESI ACTUATOR TO BE COMBINED WITH THE ZONE VALVE

CODE	DESCRIPTION
SR2221U	SINTESI actuator 230V 50Hz, 2-point with auxiliary contact (opening) for zone valve
SR2421U	SINTESI actuator 24V 50Hz, 2-point with auxiliary contact (opening) for zone valve
CGQKHT	SINTESI actuator 230V 50Hz with electromechanical control board for zone valve

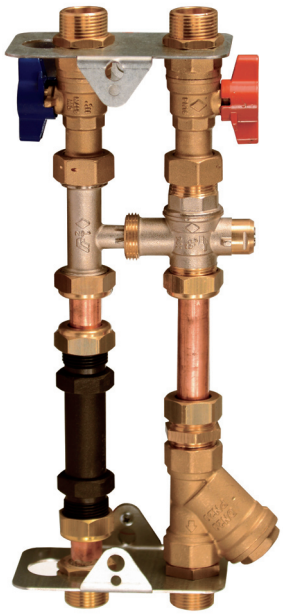
ADDITIONAL SHUT-OFF VALVES

CODE	DESCRIPTION
KIVMG34	pair of additional shut-off ball valves (supplied loose) Ø3/4"
KIVMG01	pair of additional shut-off ball valves (supplied loose) Ø1"

DHW AND RECIRCULATION LINES

CODE	DESCRIPTION
KCACST	DHW line with meter stub piece (G3/4"x110mm) • DN15
KCAFST	DCW line with meter stub piece (G3/4"x110mm) • DN15
KCACST1	DHW line with meter stub piece (G1"x130mm) • DN20
KCAFST1	DCW line with meter stub piece (G1"x130mm) • DN20
KCAT	DHW and DCW lines with replacement fittings for meters (G3/4"x110mm) • DN15
KCAT1	DHW and DCW lines with replacement fittings for meters (G1"x130mm) • DN20
KRIC0	DHW line with localised recirculation system and meter stub piece (G3/4"x110mm) • DN15

CODE EXAMPLE			
0	1	2	3
QK0	H	0	A



Accessories

MID ENERGY METERS

CODE	DESCRIPTION			
CFCENM34B	mechanical energy meter	hot/cold	DN15	Qp=1.5 m³/h M-Bus reading
CFCENU34B	ultrasonic energy meter	hot/cold	DN15	Qp=1.5 m³/h M-Bus reading
CFCENU34BW	ultrasonic energy meter	hot/cold	DN15	Qp=1.5 m³/h M-Bus reading
CFCENM01B	mechanical energy meter	hot/cold	DN20	Qp=2.5 m³/h M-Bus reading
CFCENU01B	ultrasonic energy meter	hot/cold	DN20	Qp=2.5 m³/h M-Bus reading
CFCENU01BW	ultrasonic energy meter	hot/cold	DN20	Qp=2.5 m³/h Wireless M-Bus reading

MID DOMESTIC WATER METERS

CODE	DESCRIPTION			
CFCACSI15	DHW meter	DN15	Q3=2,5 m³/h	with pulse output
CFCAFSI15	DCW meter	DN15	Q3=2,5 m³/h	with pulse output
RFCACS15ZM	DHW meter	DN15	Q3=2,5 m³/h	with M-Bus output
RFCAFS15ZM	DCW meter	DN15	Q3=2,5 m³/h	with M-Bus output
CFCACSI20	DHW meter	DN20	Q3=4,0 m³/h	with pulse output
CFCAFSI20	DCW meter	DN20	Q3=4,0 m³/h	with pulse output

RECESSED METAL ENCLOSURES

CODE	DESCRIPTION	
QSA	sheet metal sheet box	550x390x110mm
QSB	sheet metal sheet box	890x430x160mm
QSC	sheet metal sheet box	550x550x150mm

FRAMES AND SHUTTERS

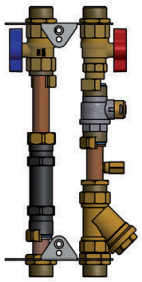
CODE	DESCRIPTION	
QSACS	frame and small door with a customised lock for box code	QSA
QSBCS	frame and small door with a customised lock for box code	QSB
QSCCS	frame and small door with a customised lock for box code	QSC

Conter

INSULATION

0

H



S

J

X

D

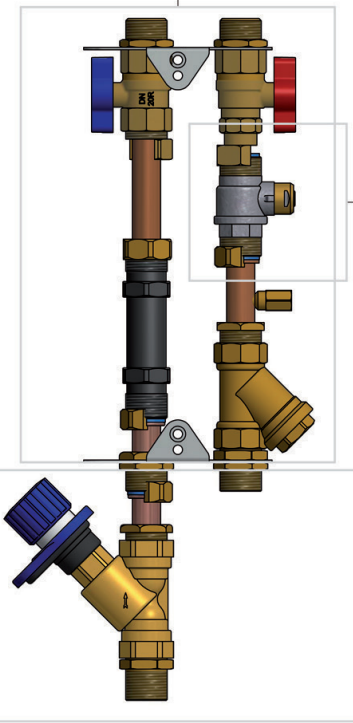
M

P

FLOW RATE CONTROL

1

QK...



2

0

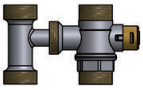
3

0

DN15

1

DN15

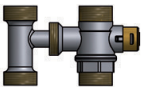


3

DN20

4

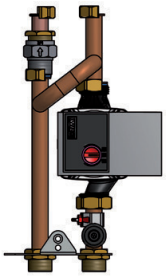
DN20



CONTER METERING LINE

A

B



TYPE OF OUTPUT

DIRECT
output type

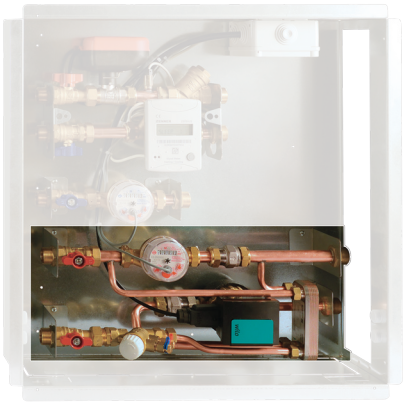
ENERGY LINE		SANITARY LINES	QSA 550x390x110	QSB 890x430x160	QSC 550x550x150
Q K [..] H 0 A (KIVM...)	+	KCAT	●		
Q K [..] H 0 A (KIVM...)	+	KCAFST + KRIC0			●
Q K 0 H [..] A 1	+	KCAT			●
Q K 3 H [..] A 4	+	KCAT		●	
Q K [..] H [..] A	+	KCAFST + KRIC0	Please contact the Technical Department		

CONTROLLED TEMPERATURE
output type

ENERGY LINE		SANITARY LINES	QSA 550x390x110	QSB 890x430x160	QSC 550x550x150
Q K 0 H P B 3	+	KCAT		●	
Q K 0 H P B 3	+	KCAFST + KRIC0	Please contact the Technical Department		

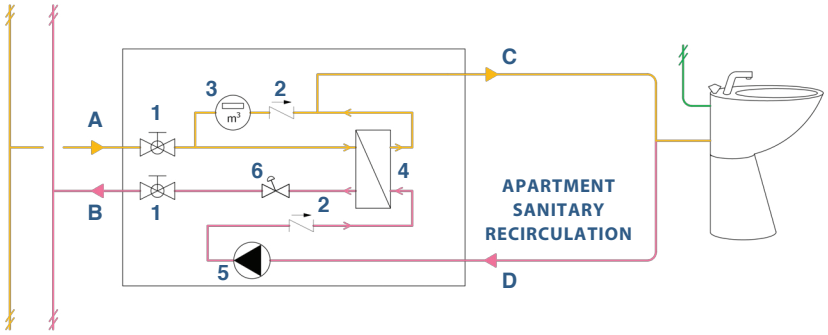
Conter

LOCALISED DHW RECIRCULATION SYSTEM



Code KRICO - DHW line with localised recirculation system and replacement stub piece for meter • DN15

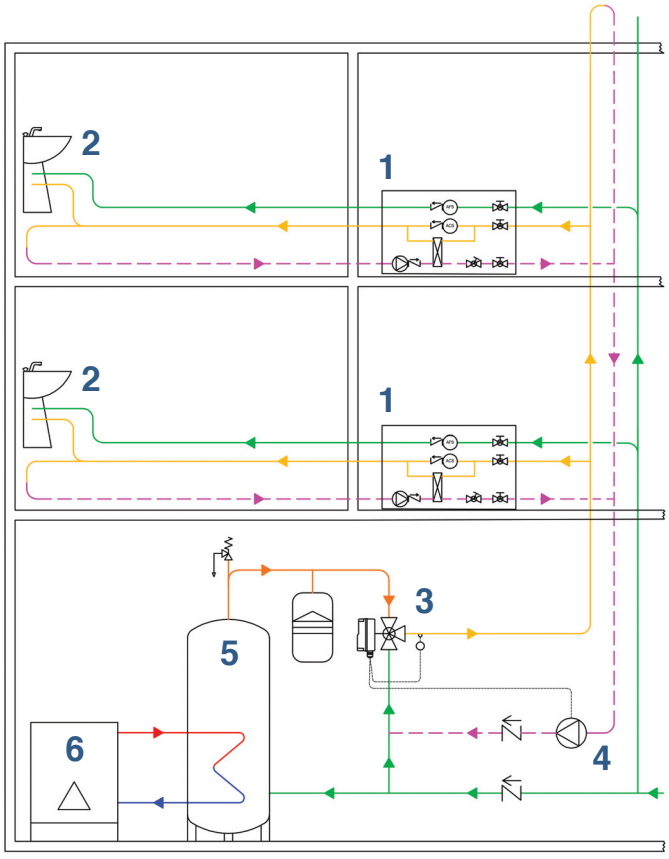
- **MID COMPLIANCE**
- **HYGIENE AND SAFETY**
- **EFFICIENCY AND ENERGY SAVINGS**



CENTRALISED SANITARY RECIRCULATION

- **A** : Hot water inlet from centralised system
- **B** : Return to centralised recirculation
- **C** : Hot water supply to apartment
- **D** : Recirculation return from apartment

- **1** : Shut-off valve
- **2** : Check valve
- **3** : Domestic hot water volumetric meter
- **4** : Plate heat exchanger
- **5** : Recirculation pump
- **6** : Flow limiter



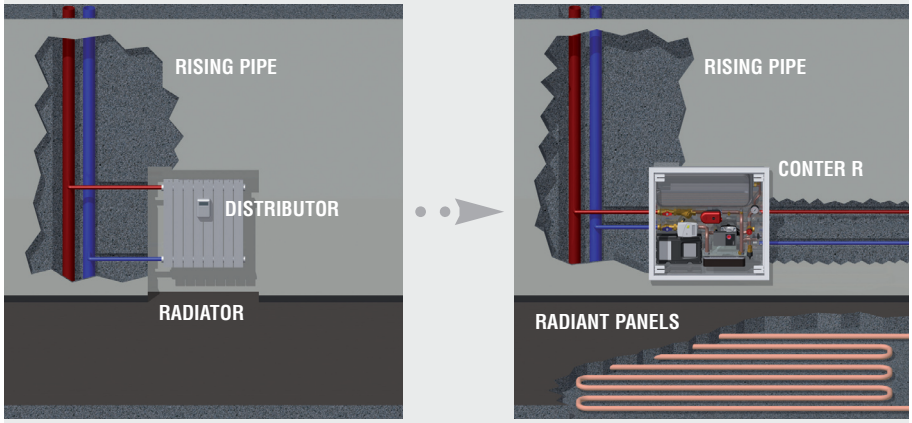
In centralised systems with direct billing of energy and domestic hot water, the standard requires that the hot water delivery time must be kept below 30 seconds, bringing, if necessary, the DHW recirculation line inside the apartment. Comparato localised recirculation system is the functional, reliable, and safe solution that resolves the issue of correct billing for domestic hot water: the system creates, for each individual apartment, an independent localised recirculation loop, separate from the centralised recirculation network. The flow in the apartment's recirculation is ensured by a very low consumption pump, and temperature maintenance is guaranteed by the plate heat exchanger, which transfers heat directly from the main DHW distribution loop.

Cold water
Hot water
Hot water recirculation

- **1** : **CONTER RECIRCULATION**
- **2** : Sanitary utilities apartment
- **3** : DHW mixing valve
- **4** : Centralised recirculation pump
- **5** : Centralised DHW boiler
- **6** : Generator

CONTER R

EXAMPLE OF INSTALLATION
in place of radiator



CONTER R is designed to transform a system with radiators and cost allocators into a new underfloor heating system with direct energy metering.

Main features are:

- Direct metering
- Hydraulic separation between rising main and house plant
- Temperature regulation and control
- Integration with the centralised system to allocate costs

CONSUMPTION DATA COLLECTION

Thanks to the direct energy meter with M-Bus wireless data transmission capabilities, it is possible to complete the reading with the heat distribution data, with no need to change the system architecture.

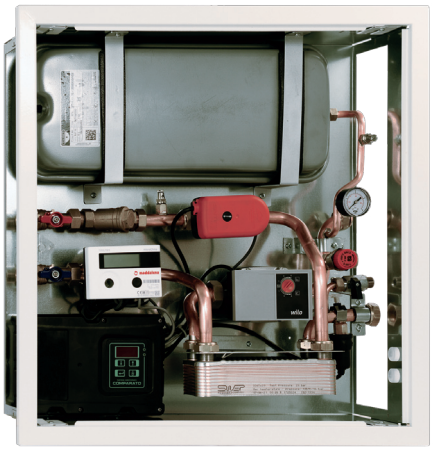
M-Bus wireless

Conter R

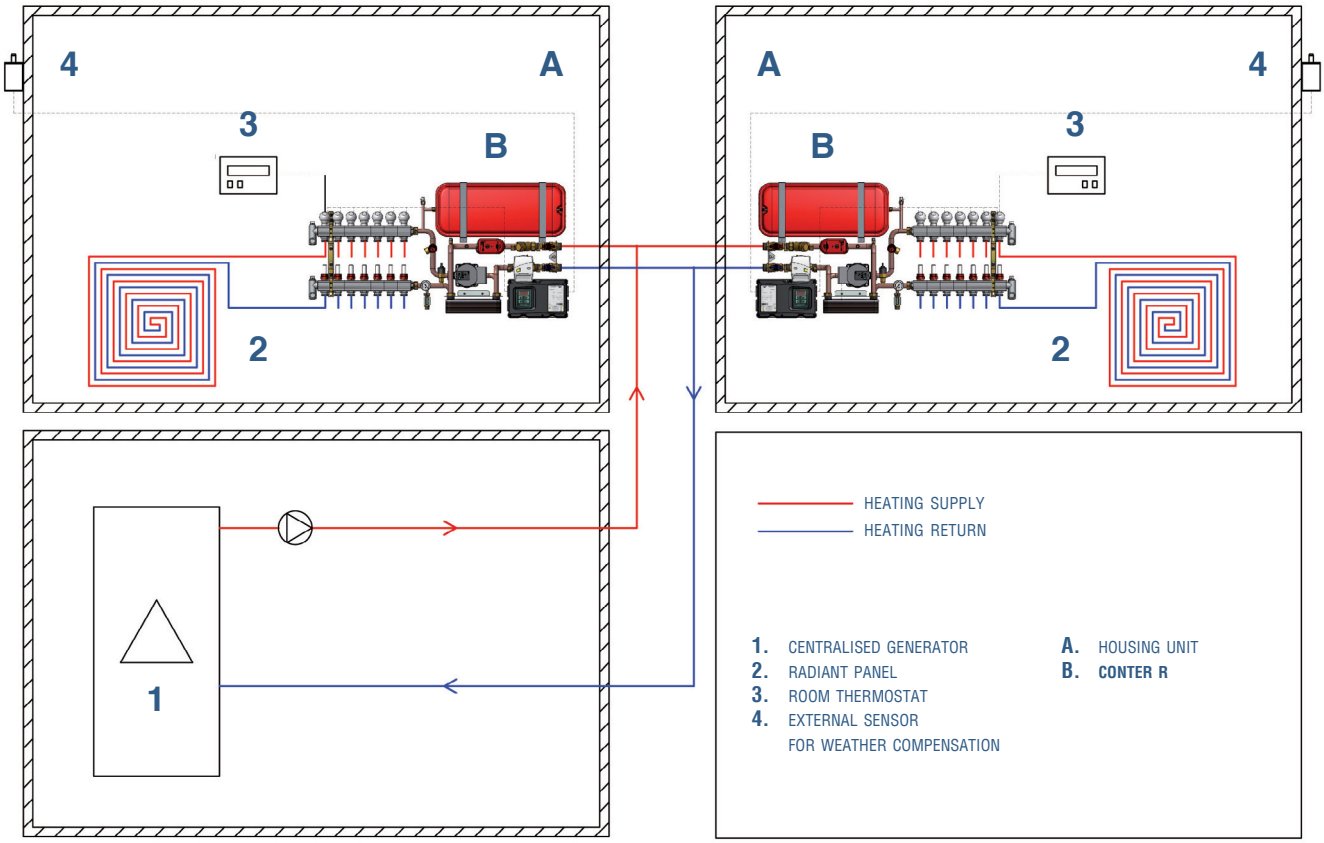
Designed for those who want to replace radiators with radiant panels in a centralised system

IT HAS EVERYTHING YOU NEED TO MANAGE THE NEW RADIANT PANEL SYSTEM.

Hydraulic Interface Unit for direct billing designed for apartment renovations in buildings with a centralised system and heat billing via heat cost allocators. **CONTER R** connects to the distribution system, replacing radiators, and directly measures the energy drawn from the centralised network. It hydraulically separates the housing unit from the centralised system and regulates the supply temperature to the radiant panels.



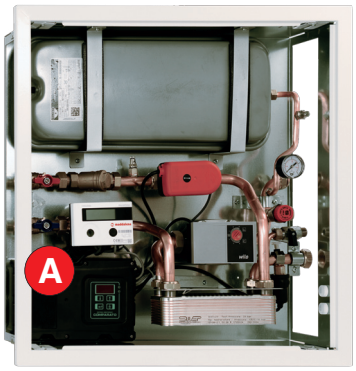
EXAMPLE OF USE

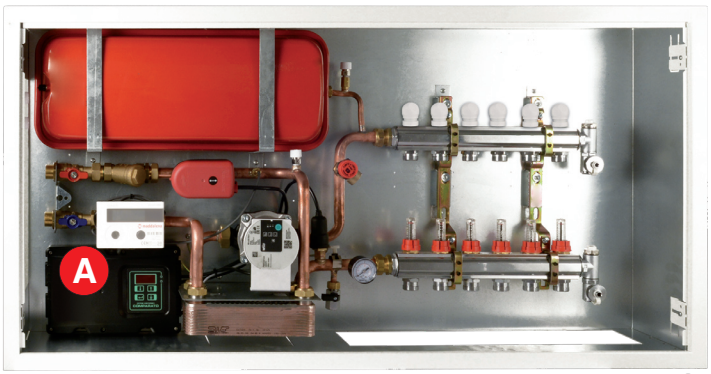


Conter R

Designed for those who want to replace radiators with radiant panels in a centralised system

- IT HAS EVERYTHING YOU NEED TO MANAGE THE NEW RADIANT PANEL SYSTEM.





A : Heat meter

- **Direct metering**
- **Hydraulic separation**
- **Temperature regulation and control**

WITHOUT MANIFOLD VERSION

with replacement energy meter stub piece

CODE	DESCRIPTION
QR00PR	single outlet

WITH MANIFOLD VERSION

with energy meter stub piece

CODE	MANIFOLD TYPE	ZONES
QRC3PR	simple	3
QRT3PR	preset for electrothermal heads	3
QRC4PR	simple	4
QRT4PR	preset for electrothermal heads	4
QRC5PR	simple	5
QRT5PR	preset for electrothermal heads	5
QRC6PR	simple	6
QRT6PR	preset for electrothermal heads	6
QRC7PR	simple	7
QRT7PR	preset for electrothermal heads	7
QRC8PR	simple	8
QRT8PR	preset for electrothermal heads	8

Accessories

Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code.

ID	DESCRIPTION
J	static balancing valve

Accessories

CODE	DESCRIPTION	
QSCCS	frame and cover, without manifold	
QDCS	frame and cover, with manifold	
RFSONDAE	external temperature probe for weather compensation function	
CFCENM34B	mechanical hot/cold energy meter DN15 Qp 1,5 m^3/h M-Bus	
CFCENU34B	ultrasonic hot/cold energy meter DN15 Qp 1,5 m^3/h M-Bus	
CFCENU34BW	ultrasonic hot/cold energy meter DN15 Qp 1,5 m^3/h Wireless M-bus	

Instantaneous DHW Production

Diatech S

Rated power 41 kW • primary temperature > 65°C

Diatech LF

Rated power 50 kW • primary temperature > 55°C

Diatech PDC

Rated power 36 kW • primary temperature = 50°C

DHW instant production

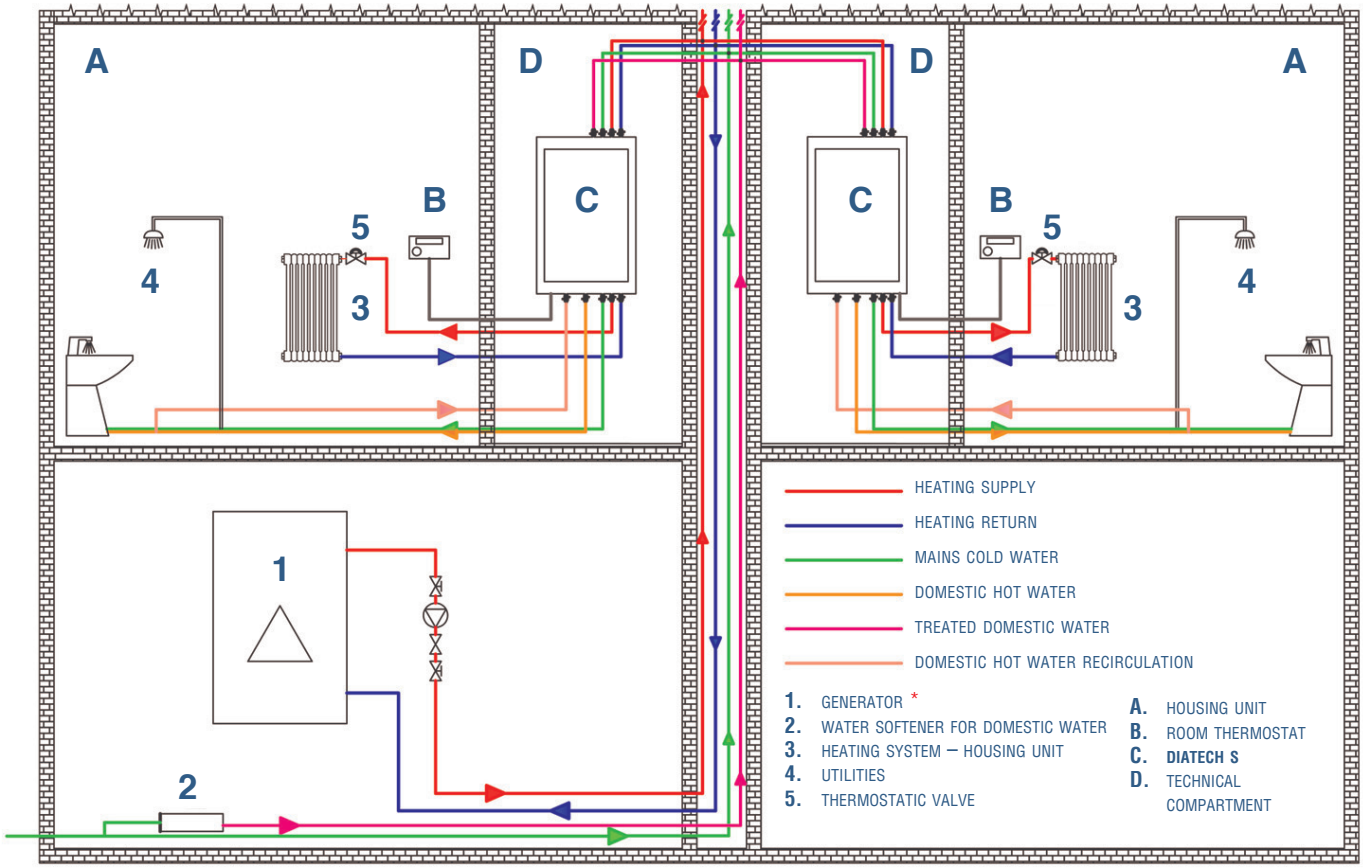
Diatech S

Rated power 41 kW • primary temperature > 65°C

- HEATING AND INSTANT DOMESTIC HOT WATER PRODUCTION

Unit for centralised heating plants with direct metering and heating line management, DCW line and DHW production.

EXAMPLE OF USE



* FOR SYSTEMS WITH CONDENSING BOILERS, PLEASE SEE DIATECH LF P. 183

Diatech S

TABLE for code configuration

0	**DIATECH S**	
	DS	direct heating line and instant production of DHW with energy meter stub piece and DCW meter - rated power 41 kW
1	**KIND OF INSTALLATION**	
	B	basic, template box optional
	W	wall hanging with white casing
2	**PUMP**	
	0	not requested
	P	pump on primary circuit
	8	recirculation on primary circuit
	9	pump on primary circuit and sanitary recirculation
3	**FLOW REGULATION**	
	0	not requested
	J	static balancing valve
	X	dynamic balancing valve
	D	DPCV - differential pressure control valve
	M	Modflow - electronic flow control
4	**TREATED and PRE-HEATED DOMESTIC WATER LINE**	
	0	not requested
	T	treated water meter replacement stub piece (G3/4"x110mm)

Accessories

CODE	DESCRIPTION
DIMA7D	template box - basic model
DIMA8D	template case + treated water line (option 4)
DIMA8DR	template box + sanitary recirculation (option 2)
DIMA9DR	template case + domestic recirculation + treated water line (option 2-4)
DSCS	frame and door with customised lock

MECHANICAL ENERGY METER

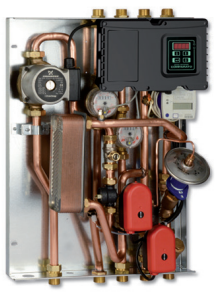
CODE	DESCRIPTION
CFCENM34B	mechanical hot/cold energy meter DN15 Qp 1,5 m³/h M-Bus reading
CFCENU34B	ultrasonic hot/cold energy meter DN15 Qp 1,5 m³/h M-Bus reading
CFCENU34BW	ultrasonic hot/cold energy meter DN15 Qp 1,5 m³/h Wireless M-Bus reading

METERS FOR DOMESTIC WATER

CODE	DESCRIPTION
CFCACSI15	DHW meter DN15 Qn 2,5 m³/h with pulse outputs
CFCAFSI15	DCW meter DN15 Qn 2,5 m³/h with pulse outputs

CODE EXAMPLE				
0	1	2	3	4
DS	B	8	D	T

INSTALLATION FOCUS



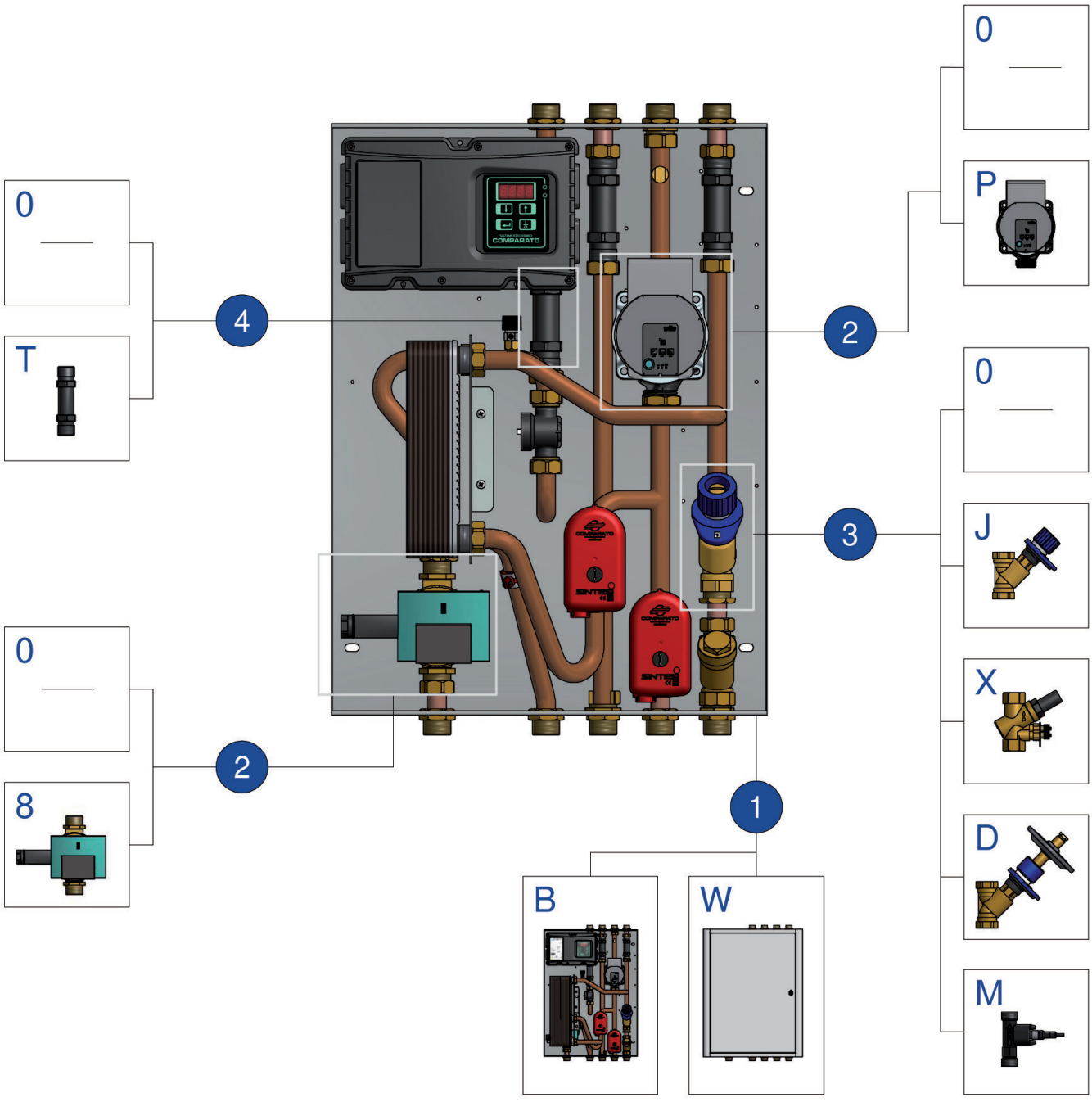
A

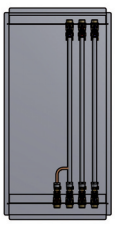
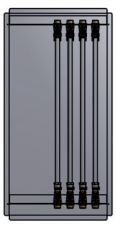
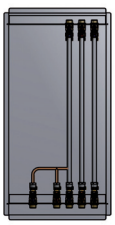
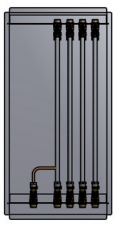
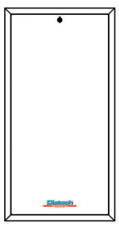
B

C

A basic model **WITHOUT EXTERNAL CASING** option (**A**) can be provided with extra options according to plant requirements. The **BUILT-INTO-WALL** option (**B**) and the elegant **WALL HANGING** option (**C**), with painted casing, are solutions designed for the apartments.

Diatech S



DIMA7D	DIMA8D	DIMA8DR	DIMA9DR	DSCS
				

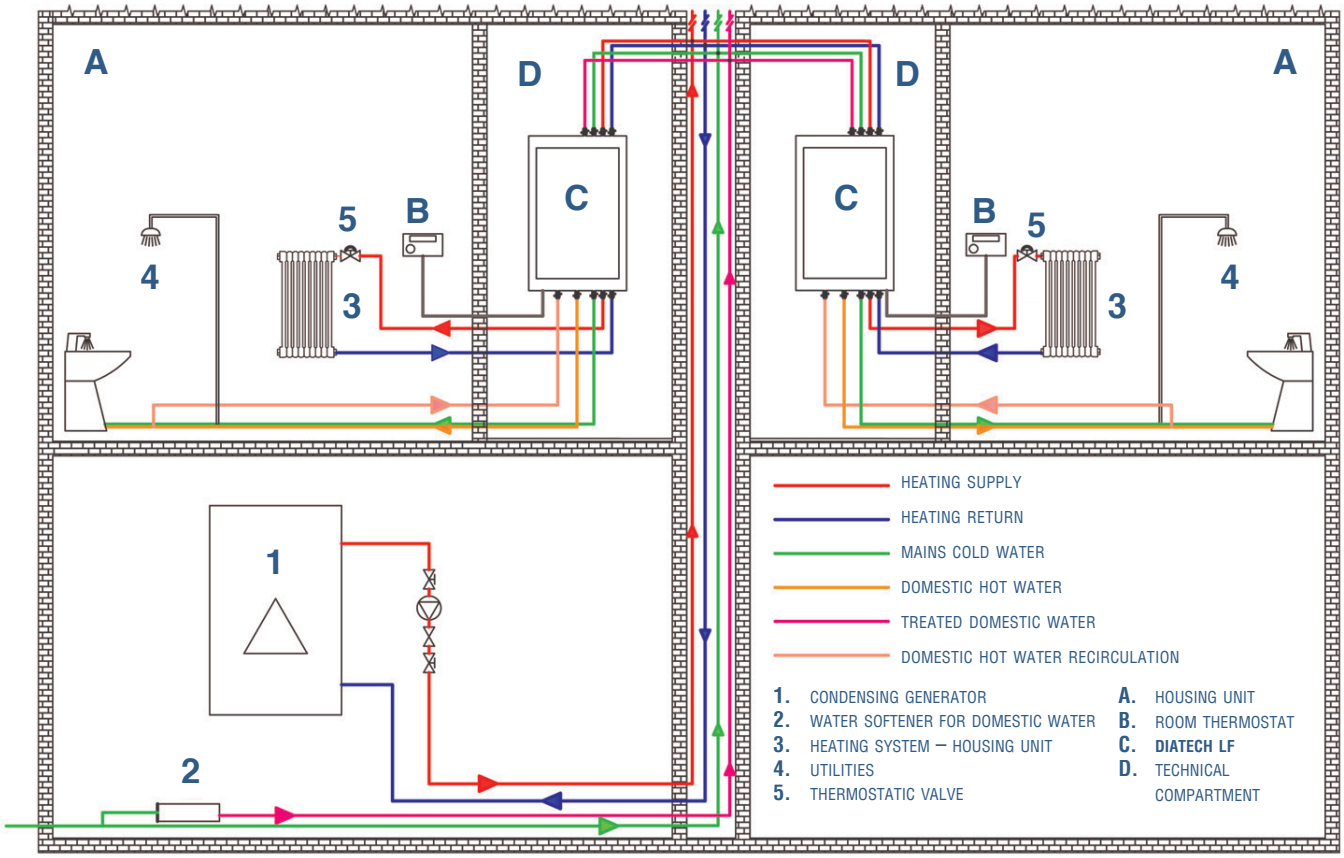
Diatech LF

Rated power 50 kW • primary temperature > 55°C

- HEATING AND INSTANT DOMESTIC HOT WATER PRODUCTION

HIU for centralised heating systems with **CONDENSING BOILERS**, with direct metering and heating line management, DCW line and DHW production.

EXAMPLE OF USE



Diatech LF

TABLE for code configuration

0	**DIATECH LF**	
	LF	direct heating line and instant production of DHW with energy meter stub piece and DCW meter (G3/4"x110mm) - rated power 50 kW
1	**KIND OF INSTALLATION**	
	B	basic, plate box optional
	W	wall hanging with white casing
2	**PUMP**	
	0	not requested
	P	pump on primary circuit
	8	recirculation on primary circuit
3	**FLOW REGULATION**	
	0	not requested
	J	static balancing valve
	X	dynamic balancing valve
	D	DPCV - differential pressure control valve
	M	Modflow – electronic flow control
4	**TREATED and PRE-HEATED DOMESTIC WATER LINE**	
	0	not requested
	T	treated water meter stub piece (G3/4"x110mm)

Accessories

CODE	DESCRIPTION
DIMA7D	template box - basic model
DIMA8D	template case + treated water line (option 4)
DIMA8DR	template box + sanitary recirculation (option 2)
DIMA9DR	template case + domestic recirculation + treated water line (option 2-4)
DSCS	frame and door with customised lock

MECHANICAL ENERGY METER

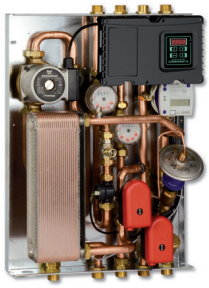
CODE	DESCRIPTION
CFCENM34B	mechanical hot/cold energy meter DN15 Qp 1,5 m³/h M-Bus reading
CFCENU34B	ultrasonic hot/cold energy meter DN15 Qp 1,5 m³/h M-Bus reading
CFCENU34BW	ultrasonic hot/cold energy meter DN15 Qp 1,5 m³/h Wireless M-Bus reading

METERS FOR DOMESTIC WATER

CODE	DESCRIPTION
CFCACSI15	DHW meter DN15 Qn 2,5 m³/h with pulse outputs
CFCAFSI15	DCW meter DN15 Qn 2,5 m³/h with pulse outputs

CODE EXAMPLE				
0	1	2	3	4
LF	B	8	M	T

INSTALLATION FOCUS



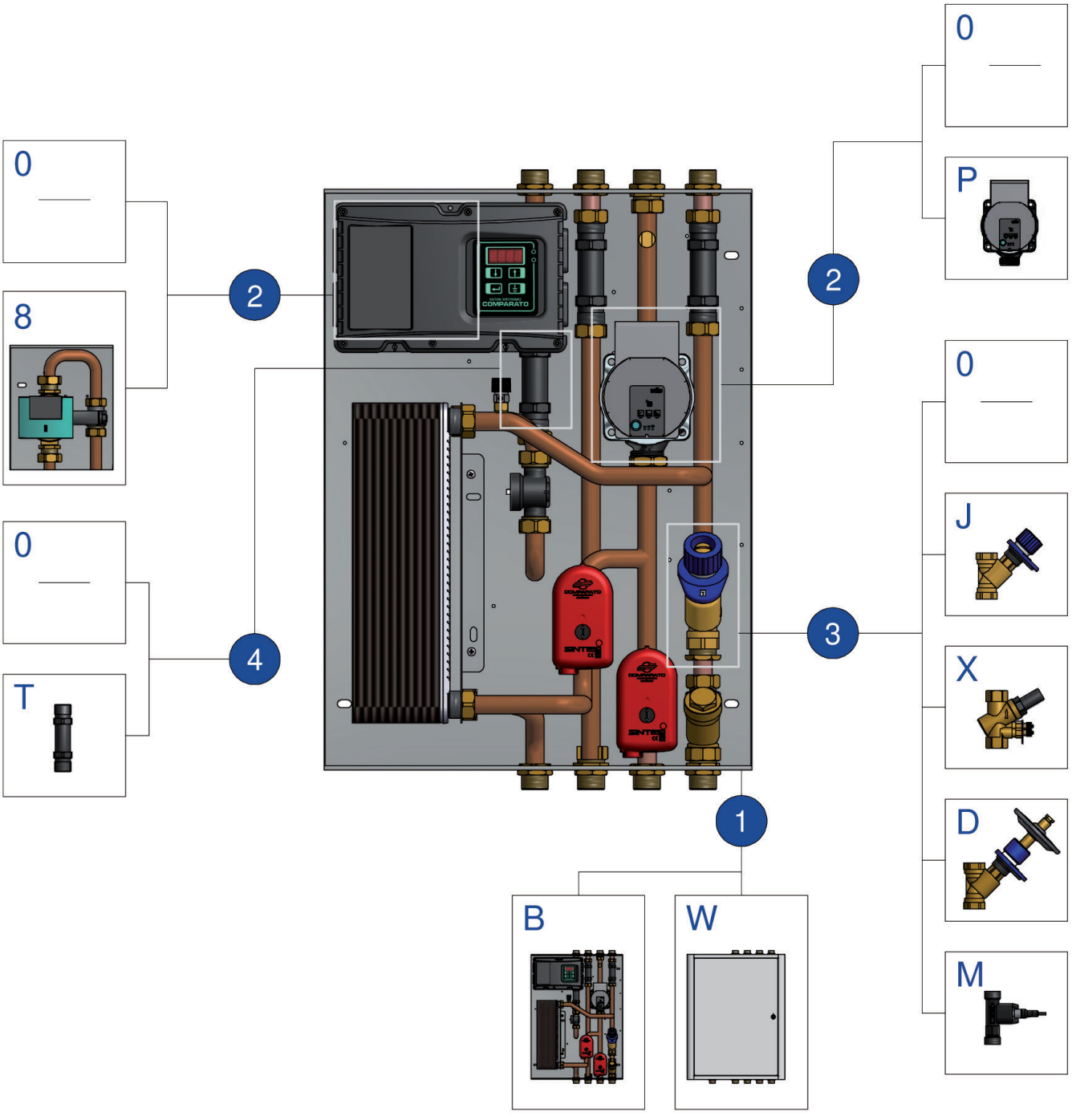
A

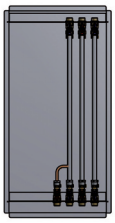
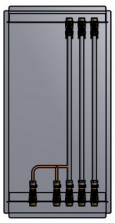
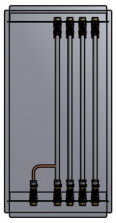
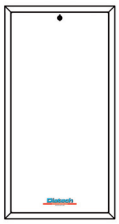
B

C

A basic model **WITHOUT EXTERNAL CASING** option (**A**) can be provided with extra options according to plant requirements. The **BUILT-INTO-WALL** option (**B**) and the elegant **WALL HANGING** option (**C**), with painted casing, are solutions designed for the apartments.

Diatech LF



DIMA7D	DIMA8D	DIMA8DR	DIMA9DR	DSCS
				

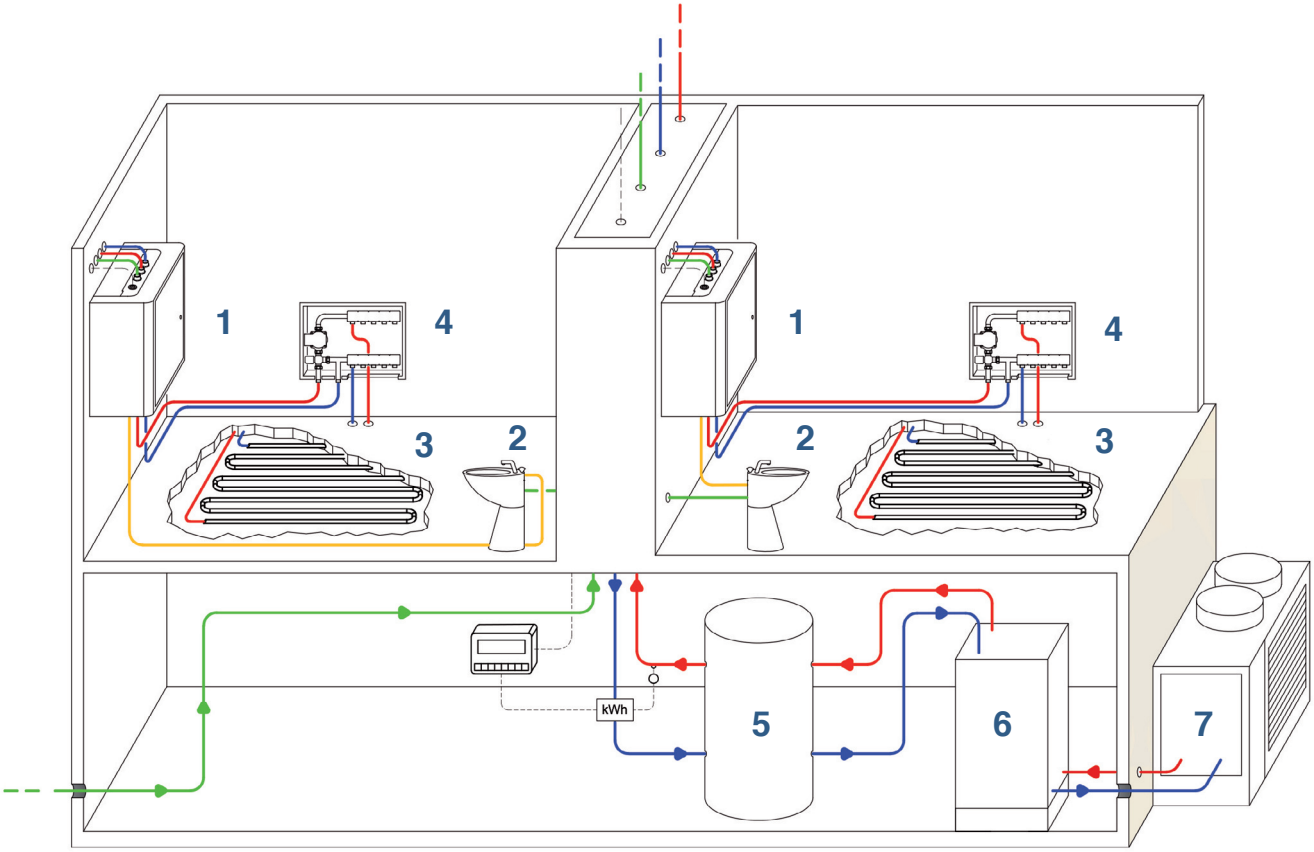
Diatech PDC

Rated power 36 kW • primary temperature = 50°C

- HEATING AND INSTANTANEOUS DOMESTIC HOT WATER PRODUCTION

HIU for central heating systems with **HEAT PUMPS** provided with direct meter, instantaneous DHW production and management of one heating line with controlled temperature. **Thanks to the plate heat exchanger with high thermal exchange surface area, the unit can produce instantaneously 15l/min of DHW (thermal drop 10/45°C) with a distribution network temperature of 50°C.**

EXAMPLE OF USE



1 : **DIATECH PDC**
2 : Users
3 : Radiant panel
4 : Mixing unit
5 : Puffer
6 : HP indoor unit
7 : HP outdoor unit

Diatech PDC

TABLE for code configuration

0	**DIATECH PDC**	
	PC	mixed heating line with DHW instantaneous production for heat pumps with stub pieces for energy and DCW meters (G3/4"x110mm) - rated power 36 kW
1	**KIND OF INSTALLATION**	
	B0	basic
	I 0	built-into-wall (with temporary door)
2	**FLOW REGULATION**	
	0	not provided
	J	static balancing valve
	D	DPCV - differential pressure control valve
	M	Modflow – electronic flow control
3	**TREATED and/or PRE-HEATED SANITARY WATER LINE**	
	0	not provided
	T	stub piece for treated water meter (G3/4"x110mm)

Accessories

CODE	DESCRIPTION
DSM	white cover for wall-hanging version
DSCS	white frame and door for built-into-wall version

MECHANICAL ENERGY METER

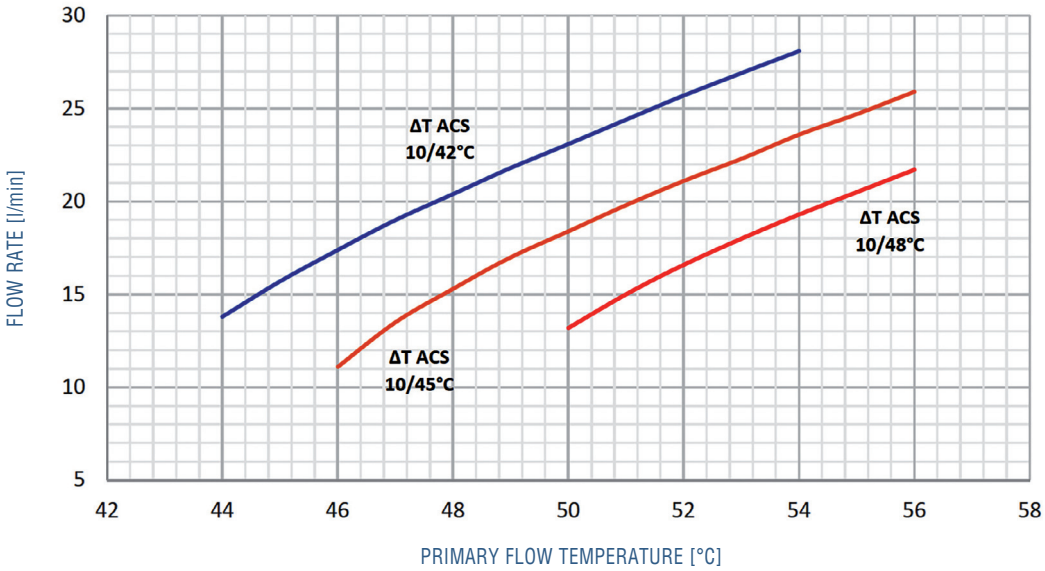
CODE	DESCRIPTION
CFCENM34B	mechanical hot/cold energy meter DN15 Qp 1,5 m³/h M-Bus reading
CFCENU34B	ultrasonic hot/cold energy meter DN15 Qp 1,5 m³/h M-Bus reading
CFCENU34BW	ultrasonic hot/cold energy meter DN15 Qp 1,5 m³/h Wireless M-Bus reading

METERS FOR DOMESTIC WATER

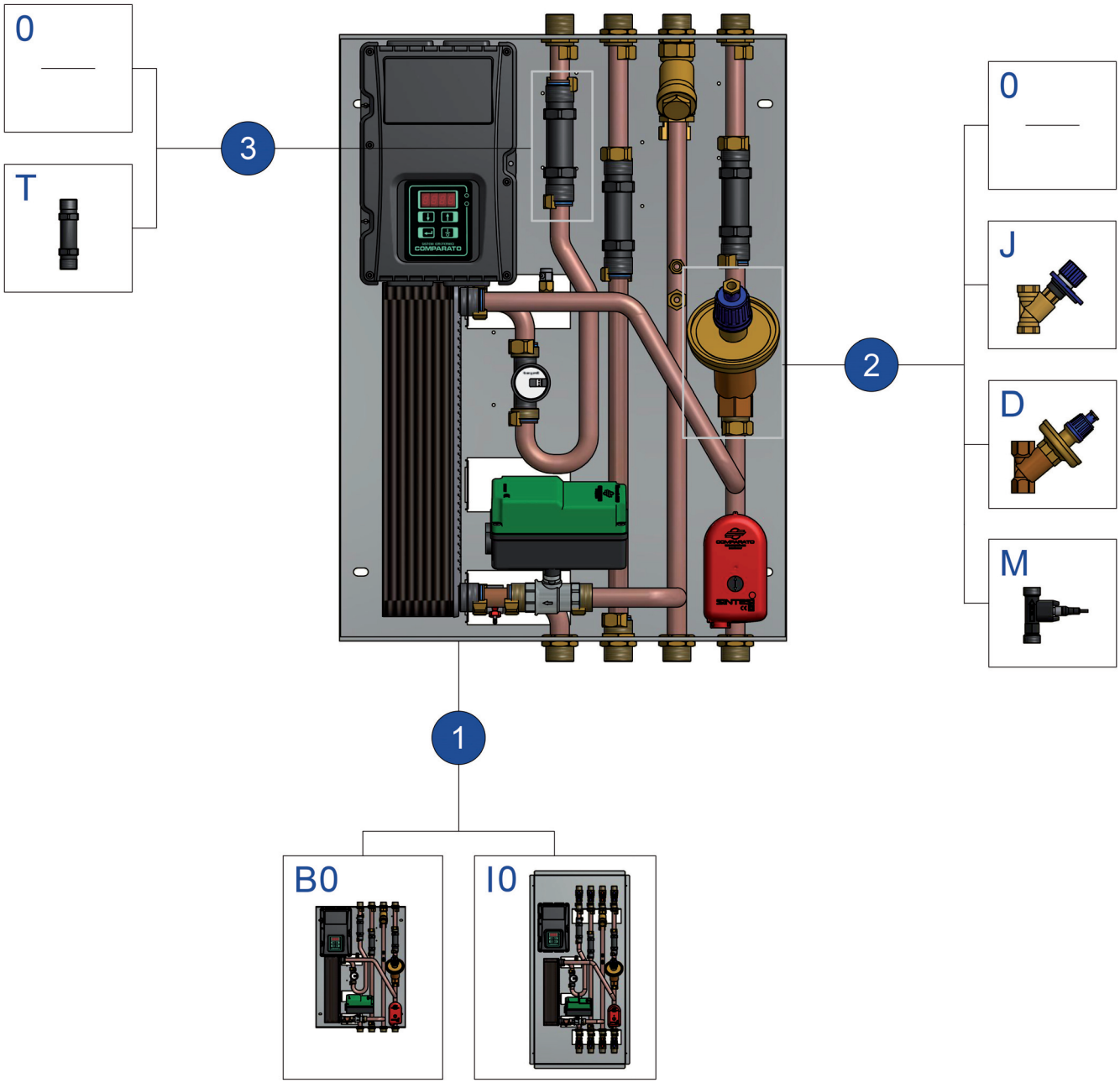
CODE	DESCRIPTION
CFCACSI15	DHW meter DN15 Qn 2,5 m³/h with pulse outputs
CFCAFSI15	DCW meter DN15 Qn 2,5 m³/h with pulse outputs

CODE EXAMPLE			
0	1	2	3
PC	I 0	0	T

DHW PRODUCTION PERFORMANCE FOCUS



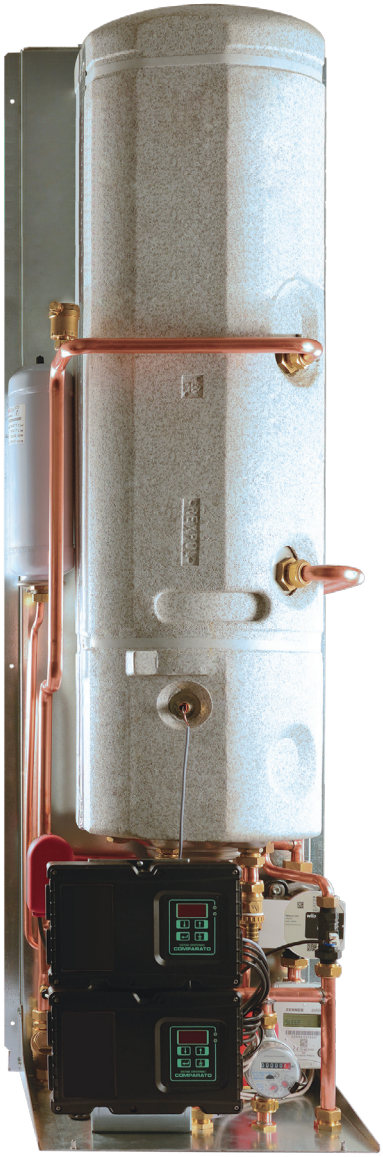
Diatech PDC



Futura AC

Heating and localised domestic hot water production with 50L or 70L accumulative exchanger

HIU for management and direct metering centralised heating systems **WITH DHW TANK** for the localised production of domestic hot water. Direct metering and heating and cooling system management, domestic hot and cold water lines.



EXAMPLE OF USE

Futura AC 50

TABLE for code configuration

0	**FUTURA AC • 50 litre**	
	FAC	direct heating line and localised DHW production with 50-litre accumulation with energy meter stub piece (G3/4"x110mm)
1	**SANITARY WATER METER**	
	0	not request
	T	replacement stub piece
2	**MIXER ON DHW OUTLET**	
	0	not requested
	M	thermostatic
3	**PLANT PUMP**	
	0	not requested
	P	pump on primary circuit
4	**HEATING OUTLET**	
	HTN	high temperature
	BTN *	low temperature
	HBN *	high temperature + low temperature

* low temperature outlets are equipped with a pump

Accessories

CODE	DESCRIPTION
RFSONDAE	external termperature probe for weather compensation - low temperature heating outlet

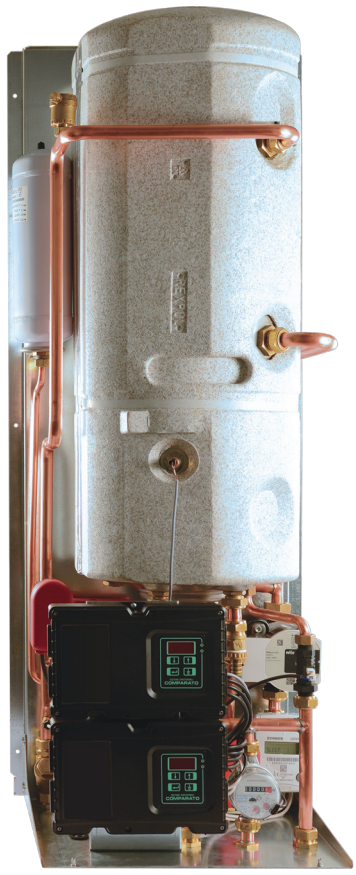
MECHANICAL ENERGY METER

CODE	DESCRIPTION
CFCENM34B	mechanical hot/cold energy meter DN15 Qp 1,5 m³/h with M-Bus reading
CFCENU34B	ultrasonic hot/cold energy meter DN15 Qp 1,5 m³/h with M-Bus reading
CFCENU34BW	ultrasonic hot/cold energy metero DN15 Qp 1,5 m³/h with Wireless M-Bus

METERS FOR DOMESTIC WATER

CODE	DESCRIPTION
CFCAFSI15	DCW meter Qn 2,5 m³/h with pulse outputs

CODE EXAMPLE				
0	1	2	3	4
FAC	T	M	0	HTN



Futura AC 70

TABLE for code configuration

0	**FUTURA AC 70 • 70 litre**		
	FAC70	direct heating line and localised DHW production with 70-litre accumulation with energy meter stub piece (G3/4"x110mm).	3.902,00
1	**SANITARY WATER METER**		
	0	not request	00,00
	T	replacement stub piece	16,00
2	**MIXER ON DHW OUTLET**		
	0	not request	000,00
	M	thermostatic	124,30
3	**PLANT PUMP**		
	0	not request	000,00
	P	pump on primary circuit	278,70
4	**HEATING OUTLET**		
	HTN	high temperature	000,00
	BTN *	low temperature	339,30
	HBN *	high temperature + low temperature	499,50

* low temperature outlets are equipped with a pump

Accessories

Add the numbers and/or letters listed in the "ID" column corresponding to the selected accessories at the end of the base model code.

ELECTRICAL RESISTANCE

ID	DESCRIPTION
R	1500W electric heating element for DHW boiler

CODE	DESCRIPTION
RFSONDAE	external termperature probe for weather compensation - low temperature heating outlet

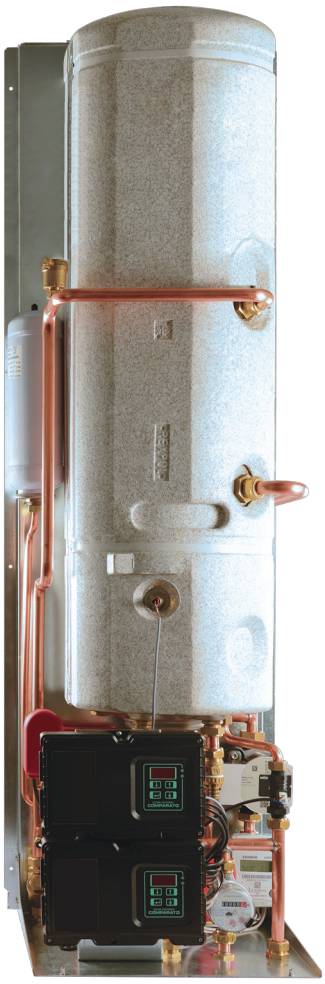
MECHANICAL ENERGY METER

CODE	DESCRIPTION
CFCENM34B	mechanical hot/cold energy meter DN15 Qp 1,5 m³/h with M-Bus reading
CFCENU34B	ultrasonic hot/cold energy meter DN15 Qp 1,5 m³/h with M-Bus reading
CFCENU34BW	ultrasonic hot/cold energy metero DN15 Qp 1,5 m³/h with Wireless M-Bus

METERS FOR DOMESTIC WATER

CODE	DESCRIPTION
CFCAFSI15	DCW meter Qn 2,5 m³/h with pulse outputs

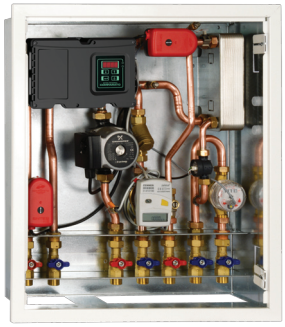
CODE EXAMPLE				
0	1	2	3	4
FAC70	T	M	0	HTN



Custom-made projects • QUOTATION ON REQUEST

Diatech L

- METERING, HEATING AND PRODUCTION OF DOMESTIC HOT WATER LINE CONNECTIONS



DIATECH L is a Hydraulic Interface Unit for direct metering and management in centralised heating plants with instant production of DHW inside the unit with plated heat exchanger. Built-into-wall installation with template box, in-line connection on the inferior side of the unit, both to the centralised plant and to the apartment. **DIATECH L** can be used with pre-heated water from a solar thermal panels supplying instantaneously the required energy.

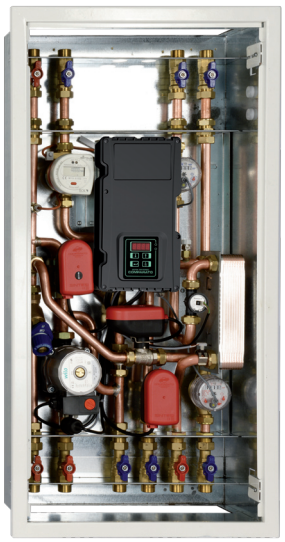
Bitherm

- METERING, DHW INSTANT PRODUCTION AND COMPLETE HYDRAULIC SEPARATION ON HEATING CIRCUIT WITH TEMPERATURE CONTROL

BITHERM is a unit with direct metering and management for centralised heating plants with DHW instant production inside the unit itself with plated exchangers, circulation pump (optional) on sanitary circuit is possible. Living unit heating circuit is supplied with the complete hydraulic separation with plate exchanger with the possibility of temperature control (i.e. for radiant panels). Secondary circuit is provided with filling system, pressure gauge, expansion vessel, safety valve and pump. **BITHERM** can be also used as district heating sub-centre in case for instance of one-family or terraced houses. The installation is wall hanging with centralised plant connections on top and living unit ones on bottom. The supply includes cover and door with customised key.

Diatech BT

- METERING, HIGH AND LOW TEMPERATURE HEATING AND DHW PRODUCTION



DIATECH BT is a Hydraulic Interface Unit for direct metering and management in centralised heating systems operating at both high and low temperatures, with instantaneous domestic hot water production inside the module itself via a plate heat exchanger. The unit is designed for recessed installation with a template box; system connections are positioned opposite each other: upper connections for the centralised system and lower connections for the housing unit. **DIATECH BT** is available in different power ratings for DHW production.

Custom-made projects . QUOTATION ON REQUEST

Diatech SR

- METERING, HEATING, COOLING AND DHW PRODUCTION

DIATECH SR is a Hydraulic Interface Unit for direct metering and management in heating and cooling centralised plant with DHW instant production with a plated heat exchanger. Built-into-wall installation with template box, opposite connection to the plant: superior side to centralised system and inferior side to apartment. **DIATECH SR** can be used with pre-heated water from a solar thermal panels supplying instantaneously the required energy.

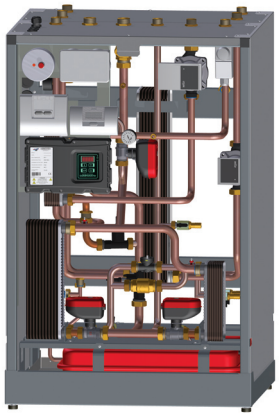
Dual System

- METERING, EXTERNAL DHW BOILER SUPPLY, AND COMPLETE HYDRAULIC SEPARATION ON THE HEATING CIRCUIT

DUAL SYSTEM is a Hydraulic Interface Unit for direct metering and management in centralised heating systems, with domestic hot water production via an external boiler and complete hydraulic separation of the apartment's heating system thanks to the plate heat exchanger. **DUAL SYSTEM** controls the delivery temperature to the heating system (e.g., for radiant panels), and the secondary circuit is equipped with a filling system, pressure gauge, expansion tank, safety valve, and pump. The installation is wall-mounted, and the supply includes the casing with a door, complete with a customised lock.

Dual stage combined

- METERING, HIGH INSTANTANEOUS DOMESTIC HOT WATER PRODUCTION, COMPLETE HYDRAULIC SEPARATION ON THE HEATING CIRCUIT AND COOLING CIRCUIT



DUAL STAGE COMBINED is a Hydraulic Interface Unit for direct metering and management with a floor-mounted installation, designed to serve high-end apartments. It provides large volumes of domestic hot water (up to 150 kW) with dual-stage instantaneous production and high power for heating and cooling, with hydraulic separation through plate heat exchangers.

Custom-made projects • QUOTATION ON REQUEST

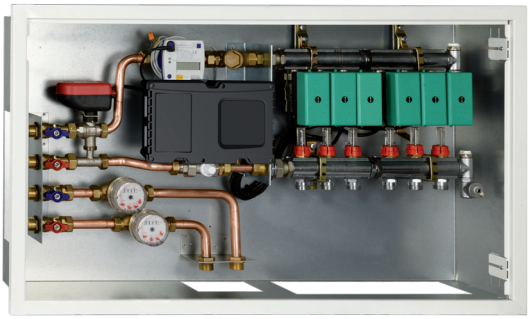
Lowtherm

- METERING, HIGH AND LOW TEMPERATURE HEATING PLANT WITH DOMESTIC HOT AND /OR COLD LINE

LOWTHERM is an Interface Unit for the direct metering and for the management of heating and cooling plants in high and low temperature, characterised by domestic hot water production. Built-into-the-wall installation with template, opposed hydraulic connection (centralised plant side – superior, living unit side – inferior).

Conter D

- METERING, HEATING WITH DISTRIBUTION MANIFOLDS AND HOT AND COLD WATER LINES

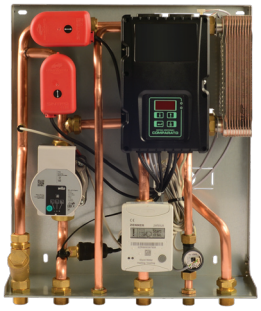


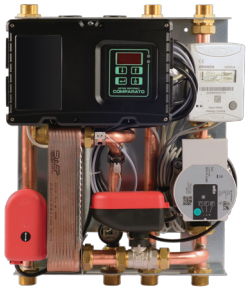
CONTER D s an Interface Unit for the direct metering and for the management of heating and cooling plants with centralised domestic hot water production, with manifolds included. Built-into-the-wall installation. Opposed hydraulic connection (centralised plant side – superior, living unit side – inferior). **CONTER D** is supplied with Sintesi Zone Valves, and can be integrated with a thermostatic mixer for domestic water and motorised zone valves Microdiam on manifold.

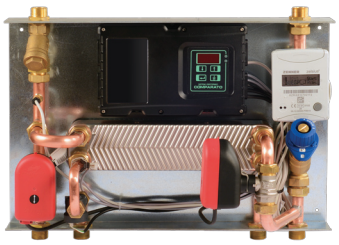
PLUG&PLAY

Plug&Play • for IMMEDIATE REPLACEMENTS

- CENTRALISED HEATING/COOLING SYSTEMS WITH DIRECT ENERGY METERING, WITH OR WITHOUT DOMESTIC HOT WATER PRODUCTION

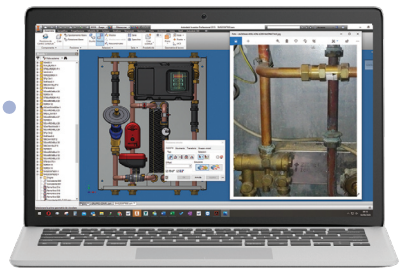






In addition to standard production, Comparato designs and manufactures Hydraulic Interface Units (HIUs) for direct metering according to the specific requests of the customer in terms of functionality and dimensions. This service allows for the provision of HIUs that are fully interchangeable with existing ones, enabling fast installation without the need for plumbing and masonry work, even for small quantities and in cases where the original product is not Comparato.

The Technical Department is supported by highly specialised professionals who follow the project from the earliest stages, providing advanced consulting with high added value. The process begins with the receipt of a request that can come from a distributor, a Comparato agent, a thermotechnical designer, a property manager, or even an apartment owner.



The subsequent feasibility analysis involves gathering all the technical information about the system, which is useful for creating the new satellite module that is not only interchangeable but also more efficient and with better performance than the existing one. If necessary, Comparato technicians carry out an on-site inspection, consulting with the installer to find the best solutions.

Thanks to 3D design, full dimensional compatibility with the existing system is always guaranteed, without any unpleasant surprises during installation. Additionally, Comparato HIUs are designed with ease of disassembly and reassembly of all components in mind, and they stand out for their simplicity and quick maintenance. All components and materials used today are the result of years of selection, ensuring maximum reliability and long-lasting durability.

Once the material is shipped, the work doesn't stop: the commissioning of the new HIUs is a crucial operation to achieve the best results, and once again, Comparato provides highly qualified support and assistance.

Accessories

LEVEL CONVERTER 60 SIGNALS • WIRED M-Bus

M-Bus level converter for managing up to 60 devices. Stand-alone field module for data acquisition from M-Bus meters to a PC via USB connection. M-Bus slave interface for use as a repeater to extend the M-Bus network by an additional 60 devices.
Power supply: 24V AC/DC, maximum power consumption: 7W.

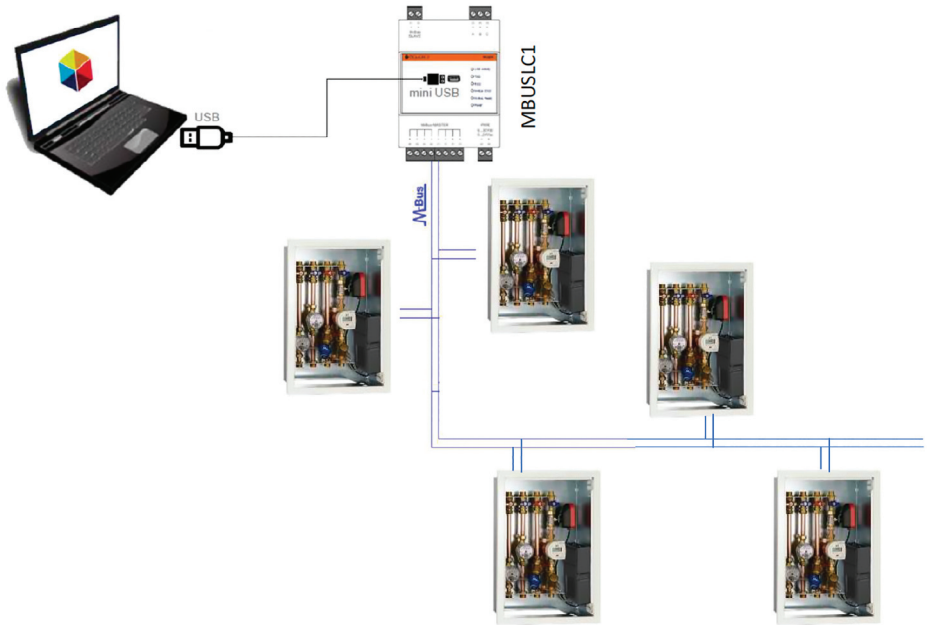
CODE	DESCRIPTION	
MBUSLC1	Level converter, 60 devices	

LEVEL CONVERTER 250 SIGNALS • WIRED M-Bus

M-Bus Level Converter for managing up to 250 devices. Stand-alone field module for reading data from M-Bus meters via RS232 or RS485 ports (exclusive use). M-Bus slave interface for use as a repeater to extend the M-Bus network by an additional 250 devices.
Power supply: 230V AC (power supply included).

CODE	DESCRIPTION	
MBUSLC250	Level converter, 250 devices	

EXAMPLE OF USE – WIRED M-BUS



Accessories

DATA LOGGER 20 SIGNALS • WIRED / WIRELESS M-Bus

M-Bus datalogger for managing up to 20 wired devices and 2,500 wireless M-Bus devices with Multi-Hop functionality via concentrators. Data reading via WEB interface. Integrated display for setup and data reading, expandable up to 250 meters through level converter modules.
Power supply: 24V AC/DC, maximum consumption 14.5W..

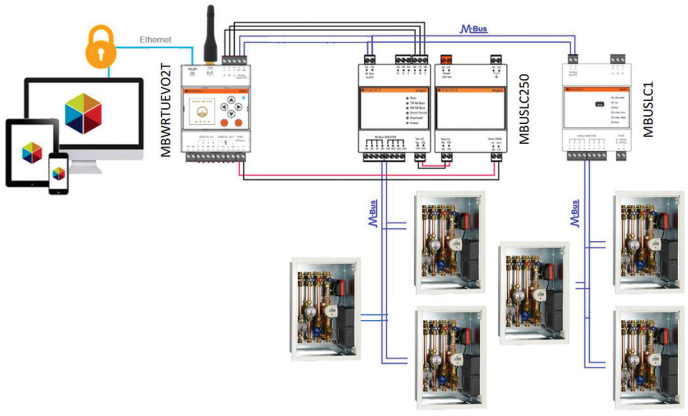
CODE	DESCRIPTION	
MBWRTUEVO2T	Datalogger M-Bus Wired / Wireless	

MULTI-HOP CONCENTRATOR • WIRELESS M-Bus

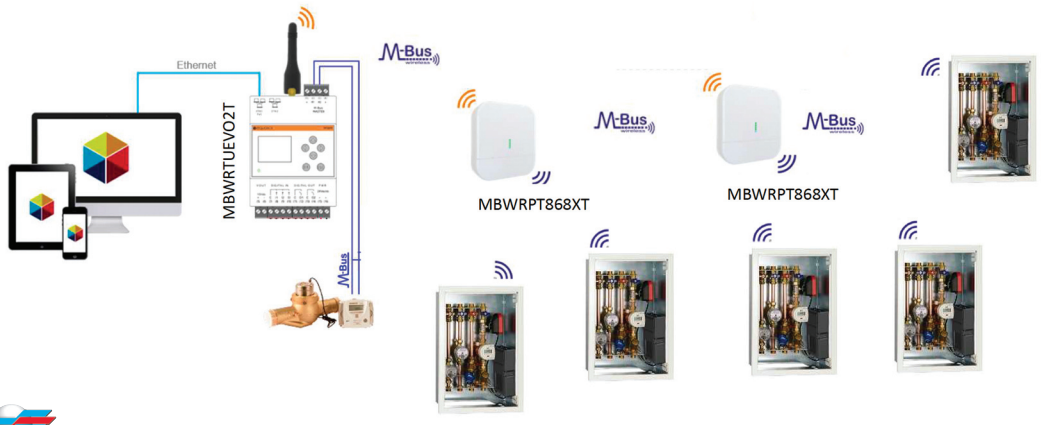
Multi-Hop support that enables range extension between wireless M-Bus devices and the data-logger using Mesh Network technology.
Supports up to 500 devices. Wall-mounted installation.
Power supply: 230V 50 Hz.

CODE	DESCRIPTION	
MBWRPT868XT	Wireless M-Bus Multi-Hop Support	

EXAMPLE OF USE – WIRED M-BUS



EXAMPLE OF USE – M-BUS WIRELESS



Accessories

SMART GATEWAY CONCENTRATOR • WIRELESS M-Bus

Data concentrator that allows the acquisition of signals from wireless M-Bus devices, equipped with an integrated GPRS modem. It can manage up to 200 devices and various transmission frequencies (weekly, daily, hourly, every quarter-hour). Supplied with an integrated SIM card and one year of data traffic with weekly reports. The coverage range can be extended via unidirectional repeaters (MBWRPT).

Power supply: 230V 50Hz.

CODE	DESCRIPTION	
MBWSG	Smart Gateway Wireless M-Bus 200 devices - weekly transmission	

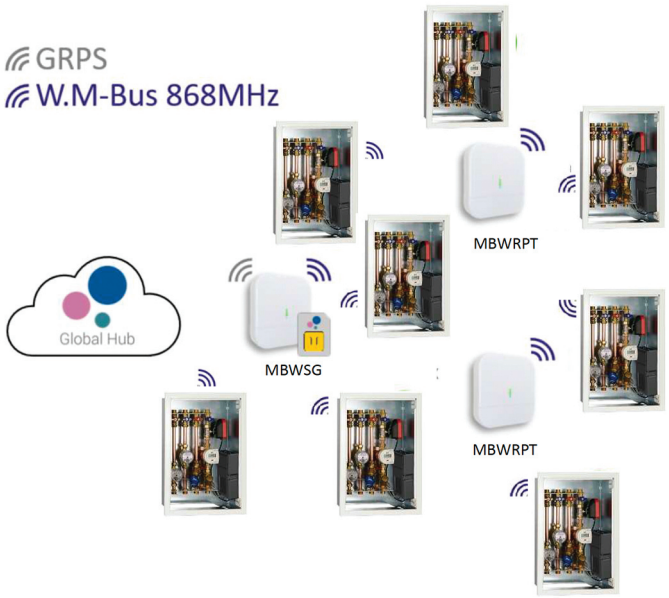
UNIDIRECTIONAL REPEATERS • WIRELESS M-Bus

Single-Hop unidirectional support. Wall-mounted installation.

Power supply: 230V 50Hz.

CODE	DESCRIPTION	
MBWRPT	Single-Hop Wireless M-Bus Support	

EXAMPLE OF USE – M-BUS WIRELESS



Accessories

Optional

Compact 4G router with Ethernet and Wireless interface. The device provides secure and stable Internet connectivity for applications using RutOS software and security functions such as OpenVPN, IPsec, Firewall, Hotspot, SMS control, and RMS support.
Power supply, GSM antenna, and Wi-Fi antenna included in the package.

Preconfigured with Vodafone APN.

CODE	DESCRIPTION	
MBRUT240V	Preconfigured 4G Router with Vodafone APN	

24V DC 12W DIN rail power supply (occupies one module) Iout = 500 mA
Note: Supports 1 Level converter + 1 RTU Datalogger.

CODE	DESCRIPTION	
AL24VDC	Power supply	

M-Bus Mechanical Energy Meters

- **OTHER VERSIONS AVAILABLE UPON REQUEST**

CODE	DN	Qp	TYPE	
CMF00135B	25	3,5 m³/h	Hot / Cold M-bus reading	
CMF01146B	32	6 m³/h	Hot / Cold M-bus reading	
CMF11210B	40	10 m³/h	Hot / Cold M-bus reading	
CMF05015B	50	15 m³/h	Hot / Cold M-bus reading	

Accessories

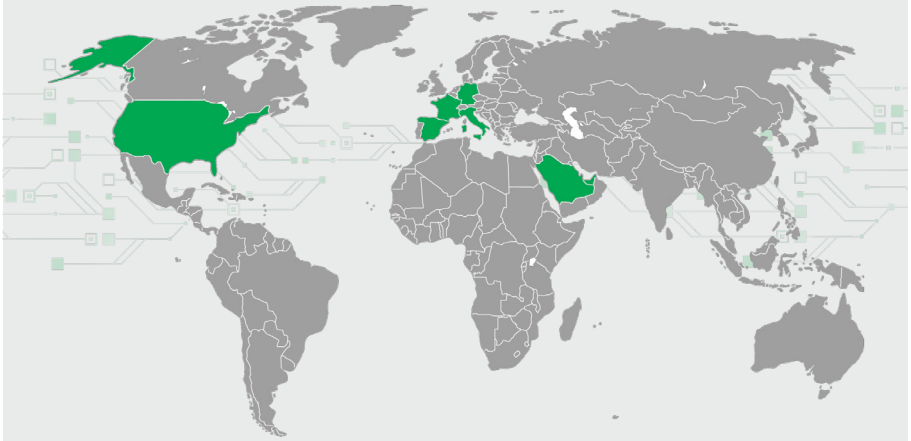
Room thermostats

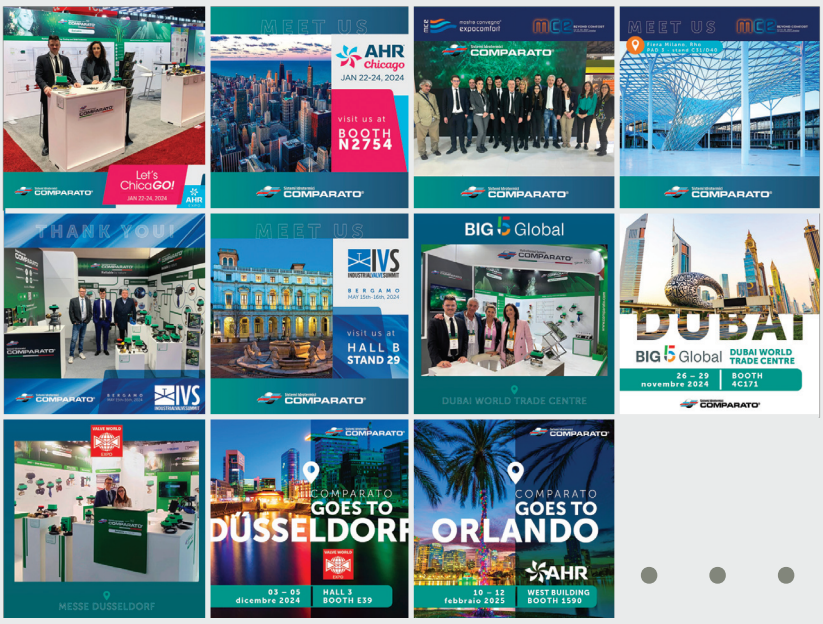
TRMPTC

TRMPWF

CODE	DESCRIPTION	
TRMPTC	WHITE CRONO TOUCH-SLIDE wall mounted room thermostat	
TRMPWF	Wi-Fi wall mounted room thermostat	

EXHIBITIONS





General supply and sale conditions

1 All commissions, orders and sales are subject to approval by the head offices in Cairo Montenotte (SV).

2 Goods are supplied EX WORKS and travel at the buyer's own risk, even if sold carriage-free.
Complaints concerning damages during the transport must be laid at the delivery.

3 Warranty refers to the product and it does not cover in any way replacement / maintenance costs and /or any other indirect cost.

4 Products are insured by Allianz S.p.A. Company according to effective rules on the subject of Producer responsibility for any damage arising from defective products.

5 In case of returned goods, they must always be previously authorised by the Headquarter in Cairo Montenotte (SV) and must be sent back free of charge. All verified goods that turn out to be "out of warranty" and all "returned goods for refund" will be charged of all costs including product's test, check and packaging. Due to the warranty printed on the product, all returned goods for refund must be sent back within the same financial year in which they were invoiced.

6 Any complaint concerning the quantity or quality of goods will not be accepted after 8 days from their receipt.

7 The specifically agreed delivery terms are indicative and may vary due to circumstances beyond our control.

8 This price catalogue cancels the previous ones; the indicated prices may be subject to variations without any notice except for what already stated in the order confirmation.

9 The current Vat rate will be applied to the quoted prices.

10 Standard packaging with cardboard boxes or similar is free of charge; special packaging requested by Clients will be invoiced at cost.

11 In case of any controversy concerning the application, interpretation or execution of our orders or relative to them, the court of jurisdiction will be that of Savona.

12 All the conditions indicated in this price list, even if not specifically stated in the order or invoice, will be considered as having been accepted by the Client when completing the relative order.

13 Comparato Nello S.r.l. reserves the right to modify technical details, drawings, graphs, and photographs of this price list at any time and without prior notice. Images and pictures are for illustration purposes only and are not contractually binding.

14 Goods are dispatched in accordance with the general sale conditions as specified in this price list. Any clause in the general sales conditions of the buyer is valid only if confirmed in writing by Comparato Nello S.r.l.

General supply conditions • Hydraulic Interface Units

We thank you for your choice : you selected a product that is the result of studies, researches and long- time experience in hydrothermal plant design. In order to let you fully benefit of our product performances, we invite you to carefully read the Maintenance & Operational Handbook supplied with the unit and warranty conditions.

WARRANTY CONDITIONS FOR UNITS WITH HEAT METERING DEVICES

The warranty becomes effect from start-up test date and lasts 24 months.
e start-up test must be carried out by our Authorized Maintenance and Service Centre within 12 months starting from delivery date indicated on warranty certificate. Unit activation ,in general, and in particular:

- electrical supply • electrical supply of M-bus digital master (if provided) • hydraulic primary and secondary circuit

must be activated at start-up test, except in case of different agreements with our Authorized Maintenance and Service Centre and anyway, in this case, we do not respond for damages produced before start-up test.
The Installer, on final Customer's behalf, has to demand for the start-up test to our Authorized Maintenance and Service Centre and arrange the plant in general and that all installed units are indeed available for start-up test on the established date: possible further intervention of Authorized Maintenance and Service Centre caused by the impossibility of completing the start-up test will be charged to the Installer by Authorized Maintenance and Service Centre itself. For the start-up test one day only is expected for up to 50 unit installation. We replace components that will be returned to us and that will be found to be originally defective after checking. Never is the whole product replaced. Possible component replacements do not modify warranty validity nor its duration. In no event shall Comparato Nello S.r.l. be responsible for damages to people, animals or things caused by defective materials or improper installations not compliant with what expressed in M&O hand-book.
For information please contact our Authorized Maintenance and Service Centre only.

WARRANTY CONDITIONS FOR UNIT AND KIT WITHOUT HEAT METERING

Units and kit with no heat metering devices do not required the start-up test.
The warranty start for purchase date and lasts 24 months.
For any information please contact our Offices.

EXCLUSIONS

This warranty does not provide any coverage for damaged components due to bad transport, wrong installation and/or maintenance and, in general, to problems caused by in-observance of Builder indications, anomalies in electrical and hydraulic plant the unit is connected to, stray currents, excessive water hardness (over 20° French degrees), ice, on-going water addition and, generally speaking, for causes that cannot be traced back to production defects.

EXCLUSIONS

This warranty does not provide any coverage for damaged components due to bad transport, wrong installation and/or maintenance and, in general, to problems caused by in-observance of Builder indications, anomalies in electrical and hydraulic plant the unit is connected to, stray currents, excessive water hardness (over 20° French degrees), ice, on-going water addition and, generally speaking, for causes that cannot be traced back to production defects.

ADVANCED WARRANTY EXPIRATION

The warranty is not valid when:

- The start-up test, that must be carried out by our Authorized Maintenance and Service Centre, has not been carried out within 12 months from delivery date;
- On the start-up test date , the product results to be already operative (see what indicated for warranty conditions) without any formal agreements with our Authorized Maintenance and Service Centre;
- The product is not properly installed, neither in compliance with Laws and/or effective rules nor with Producer's Instructions;
- The product has been tampered or not original spare parts have been used;
- The warranty certificate is incomplete and/ or filled in unproperly and/or it has not been sent back to Comparato Nello S.r.l.

RESPONSIBILITIES

Except for what already clearly stated, Comparato Nello S.r.l. is not responsible for product installation and any possible damage deriving from it, service interruption included. The installation must be carried out in compliance with effective rule, according to Builder's instructions and qualified subjects (Lg. 5 March 1990 No. 45 art.2). Nobody has the faculty to change these warranty conditions nor giving other written and/or verbal warranties.

ADVANCED WARRANTY EXPIRATION

- Arrange for start-up test to be carried out by our Authorized Maintenance and Service Centre according to what previously indicated (see warranty conditions);
- Warranty certificate must be filled in all parts;
- The User has to keep his coupon in order to exhibit it if necessary;
- Authorized Maintenance and Service Centre coupon must be filled in all parts and kept for future product identification;
- Comparato Nello S.r.l. coupon must be filled in by Authorized Maintenance and Service Centre and sent to the Company within 10 days after start-up test date.

Exclusively and absolutely competent court: Savona.

Hydrothermal Systems
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