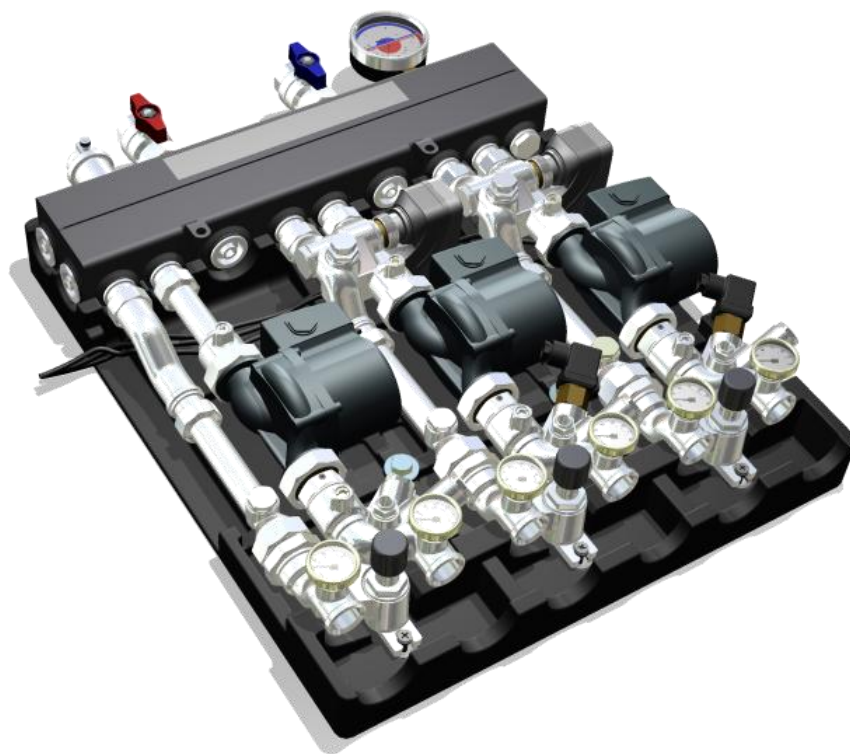


NOUL SISTEM MODULAR DE DISTRIBUTIE



MULTIMIX este cel mai nou sistem modular de distributie produs de IVAR. Este un sistem similar cu VARIMIX-ul dar mult mai compact si cu imbunatatiri aduse reglajului si automatizarii.



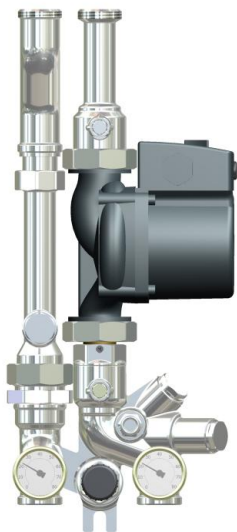
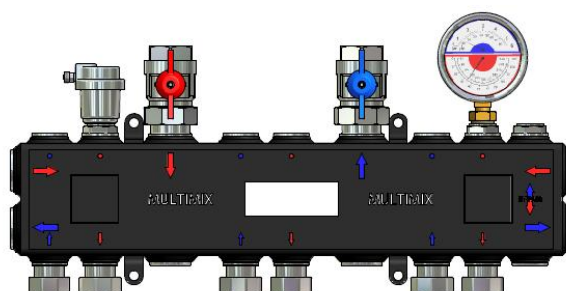
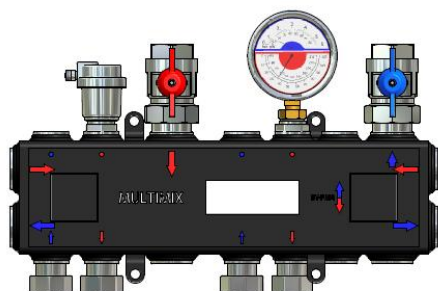
MULTIMIX – Module

MULTIMIX este compus din diferite module care pot fi asamblate pentru a crea un sistem de distributie.

Distribuitor cu butelie de egalizare inclusa.

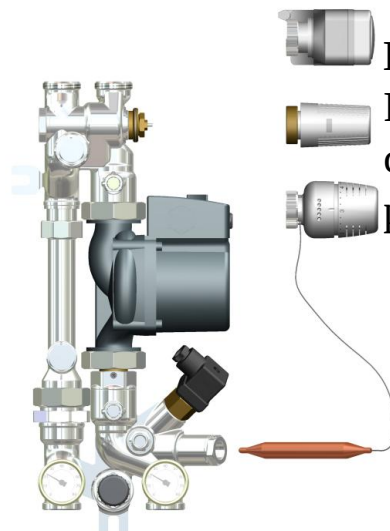
Disponibil in doua variante:

- 2 cai
- 3 cai



Kit pentru temperatura inalta

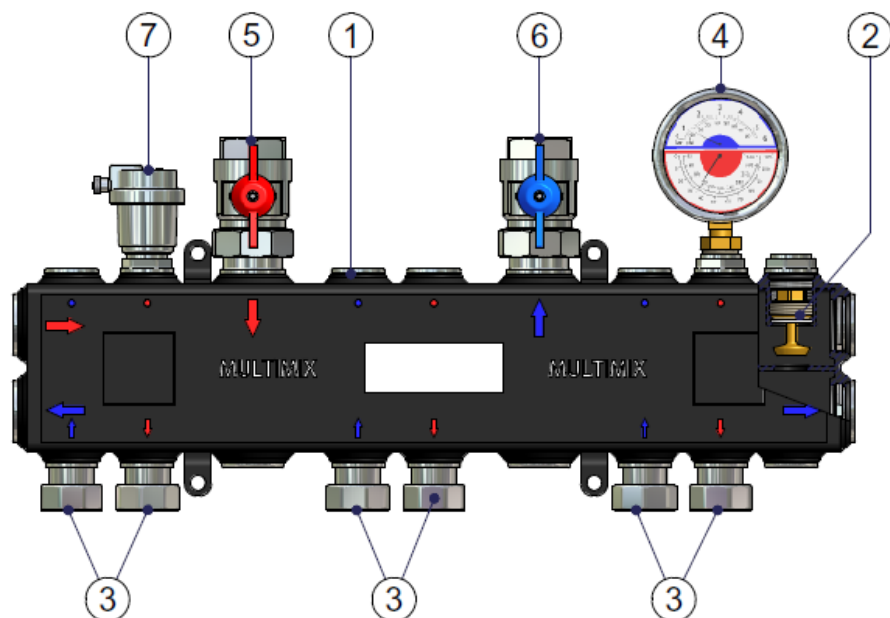
Folosit pentru distributia catre radiatoare,boiler de acumulare sau schimbator de caldura pentru producerea ACM-ului.



Kit pentru temperatura joasa

Folosit pentru distributia in cazul sistemelor de incalzire in pardoseala sau pereti.

MULTIMIX – Modul de distributie

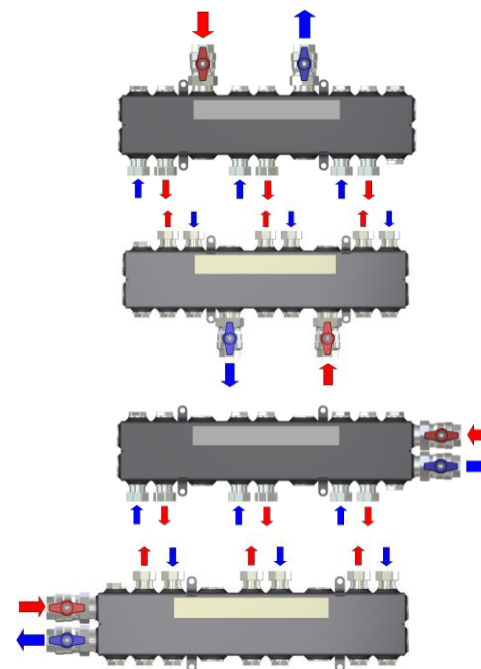
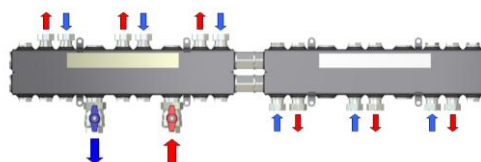
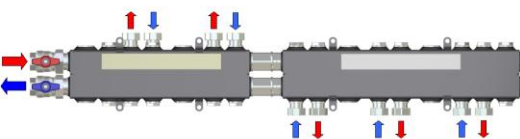


Componente:

1. Distribuitor
2. By-pass reglabil
3. Semiolandezi pentru racordarea kit-urilor.
4. Termomanometru
5. Robinet izolare tur
6. Robinet izolare retur
7. Aerisitor automat

Caracteristici:

- disponibil in doua versiuni cu 2 si cu 3 cai
- prevazut cu by-pass primar reglabil
- Capacitate maxima : 3500 l/h
- **Flexibilitate maxima privind instalarea**



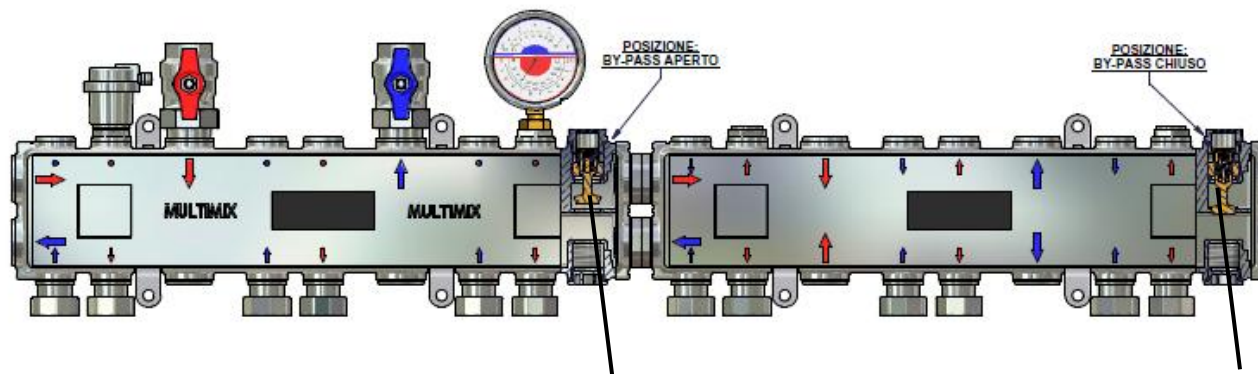
1

2

3

4

MULTIMIX – Modul de distributie

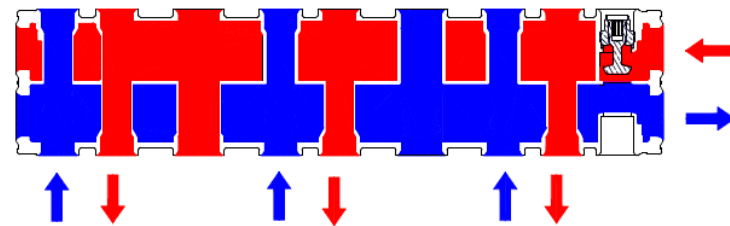


By-pass in pozitie deschis

By-pass in pozitie inchis

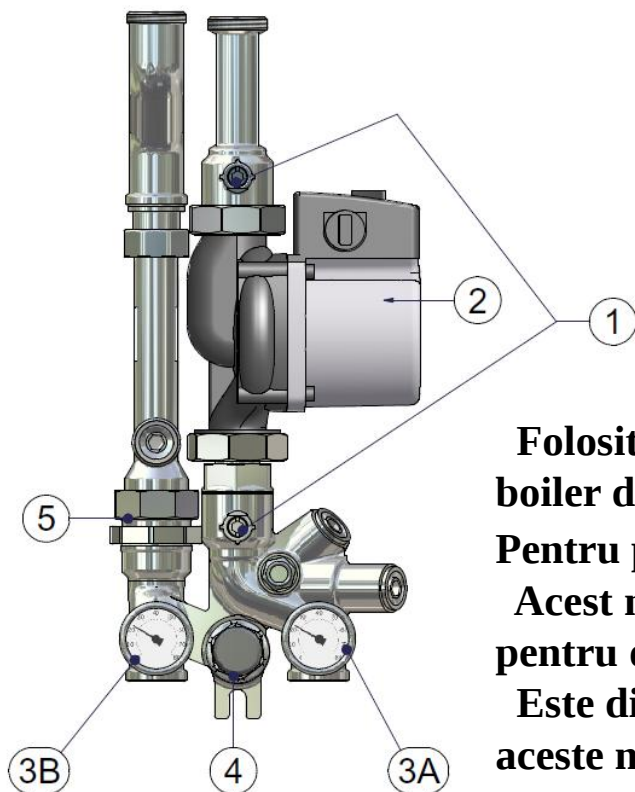
By-pass-ul primului modul trebuie reglat in pozitia deschis.

Toate celelalte by-pass-uri trebuie reglate in pozitia inchis pentru a impiedica eventualele diferente de temperatura intre modulele de distributie.





MULTIMIX – Kit-ul pentru temperatura inalta



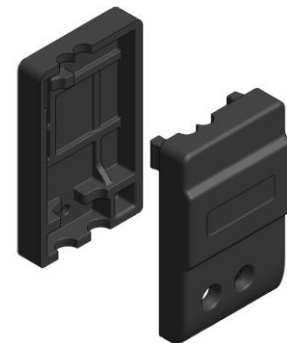
Componente:

1. Robineti izolare pompa
2. Pompa UPSO 25-55 (standard) sau ALPHA 2L
3. Termometru pentru tur (3A) si retur (3B)
4. By-pass diferential (plaja reglaj $0.2 \div 0.6$ bar)
5. Clapeta sens

Folosit pentru distributia catre radiatoare, boiler de acumulare sau schimbator de caldura Pentru producerea ACM-ului.

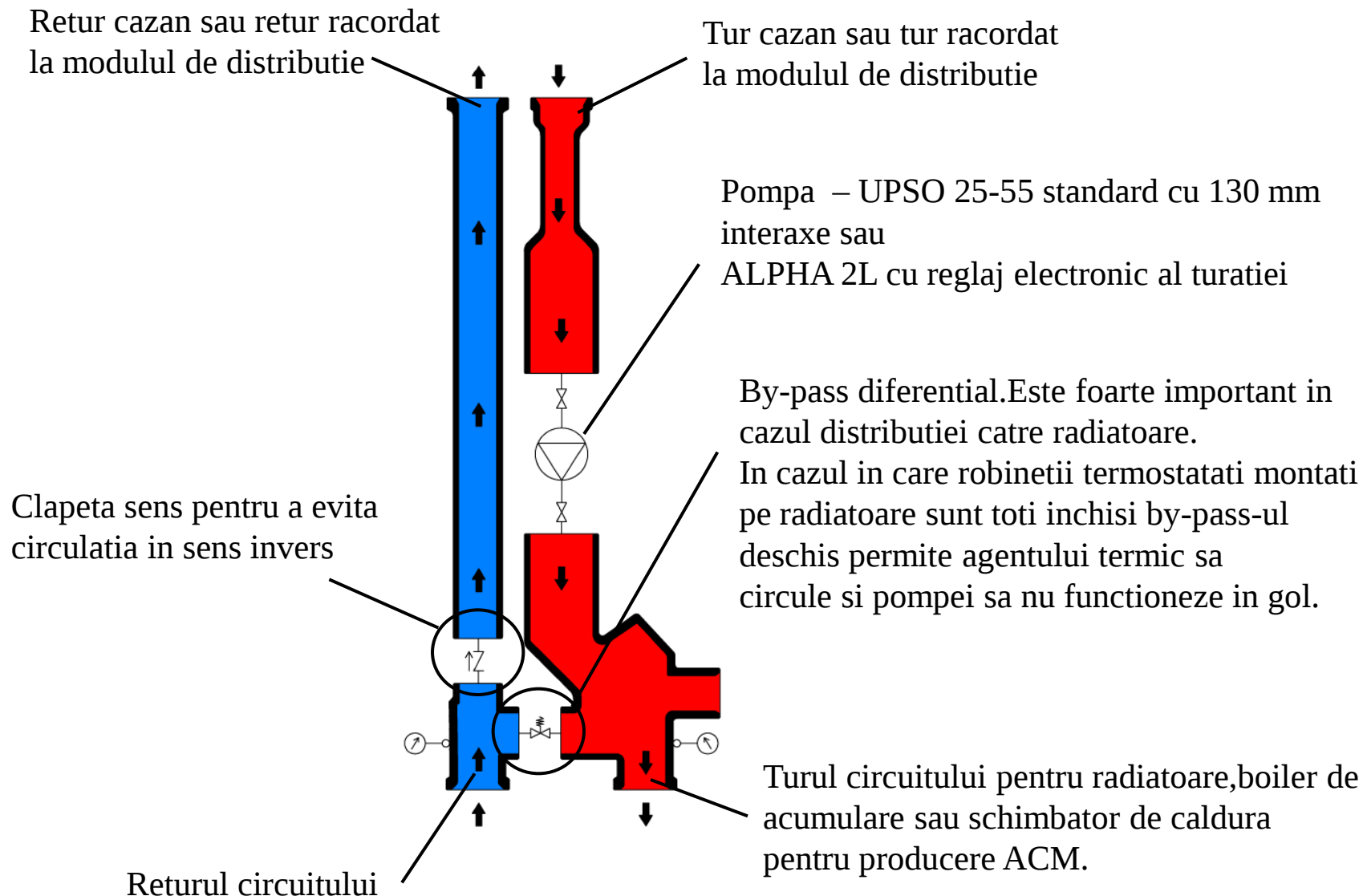
Acest modul poate fi folosit si individual pentru distributie temperatura inalta.

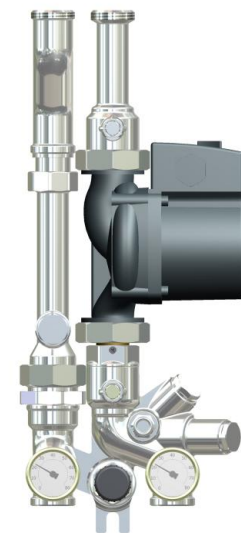
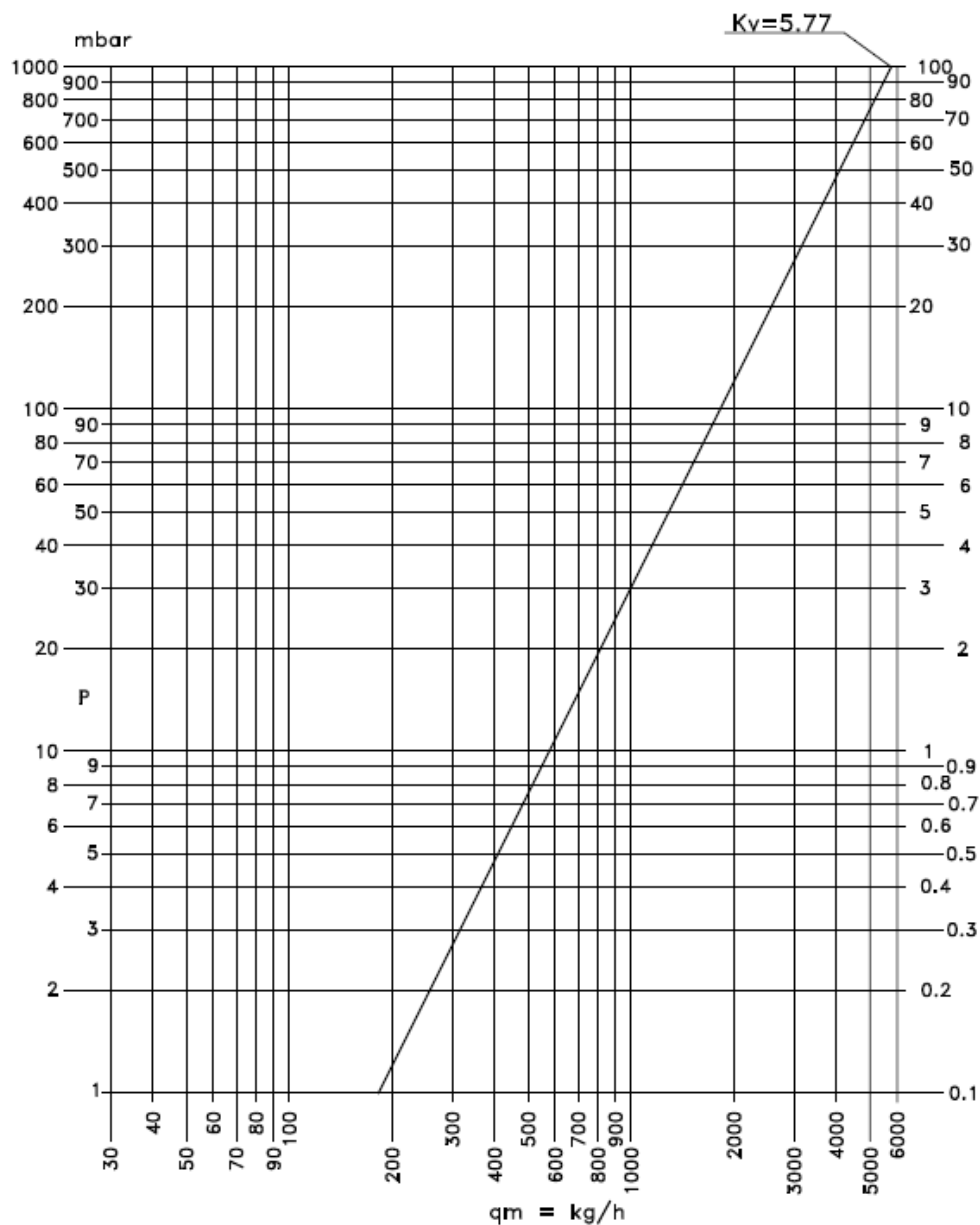
Este disponibila si termo-izolatie pentru aceste module.





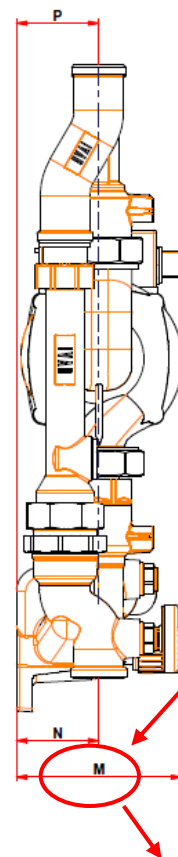
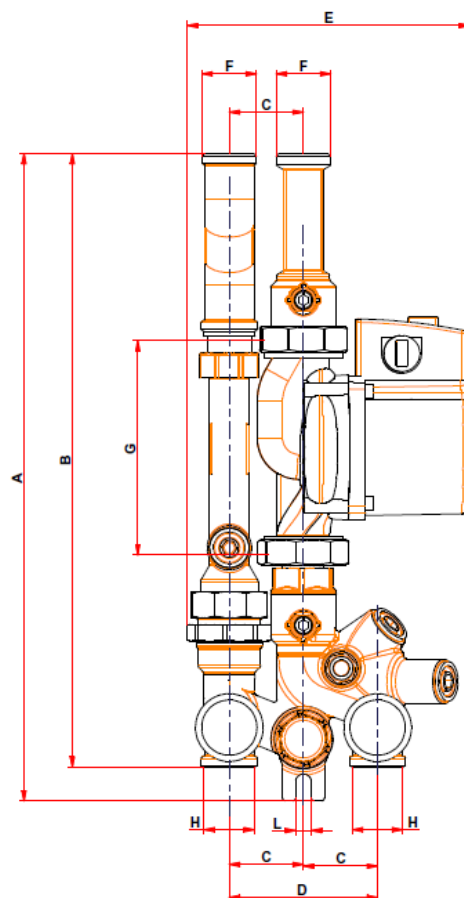
MULTIMIX – Kit-ul pentru temperatura inalta





Pierdere de presiune a kit-ului pentru temperatura inalta.

MULTIMIX – Kit-ul pentru temperatura inalta

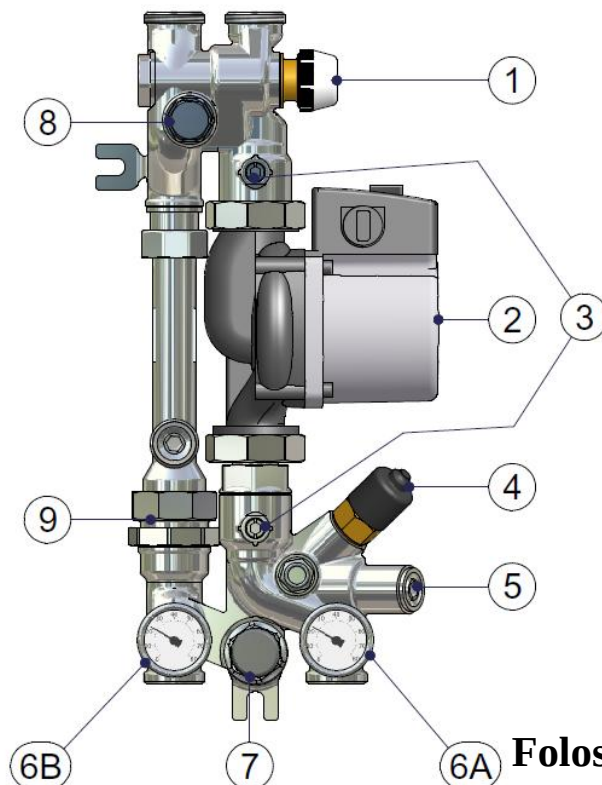


Sistemul este foarte compact avand o adancime maxima de 100 mm.

A	B	C	D	E	F	G	H	L	M	N	P
395	375	45	90	173	G 1"	130/135	G 3/4"	9.5	100	50	50



MULTIMIX – Kit-ul pentru temperatura joasa

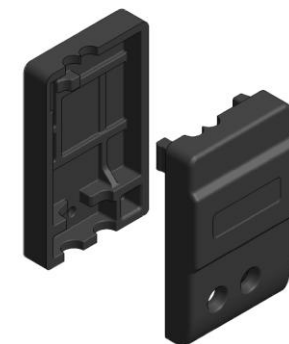


Componente:

1. Vana de amestec cu 3 cai
2. Pompa UPSO 25-55 (standard) sau ALPHA 2L
3. Robineti izolare pompa
4. Termostat de siguranta cu reglaj fix (60°C)
5. Teaca pentru sonda imersie
6. Termometru pentru tur (6A) si retur (6B)
7. By-pass diferential (plaja de reglaj 0.2÷0.6 bar)
8. By-pass secundar cu dublu reglaj micrometric
9. Clapeta sens

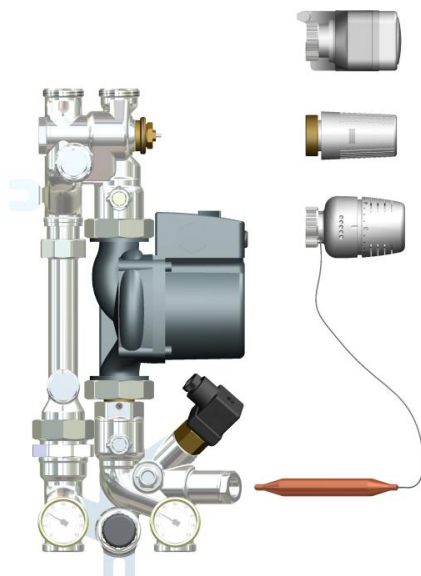
Folosit pentru sistemele de incalzire in pardoseala sau pereti.

Este disponibila si termo-izolatie pentru aceste module.





MULTIMIX – Kit-ul pentru temperatura joasa



Reglaje posibile

Vana cu 3 cai poate fi comandata in doua moduri:

- cu cap termostatat cu sonda la distanta si reglaj in punct fix (plaja reglaj $30^{\circ}\text{C} \div 55^{\circ}\text{C}$)
- cu servomotor axial comandat de un controller

Servomotorul este disponibil in 3 variante:

- 230 V AC cu reglaj in 3 puncte
- 24 V AC cu reglaj in 3 puncte
- 24 V AC iesire 0-10 V semnal proportional
- cap electrotermic 24 V AC iesire 0-10 V semnal proportional

Alegerea tipului de servomotor se va face in functie de controller.

MULTIMIX – Kit-ul pentru temperatura joasa

Retur cazan sau retur racordat
la modulul de distributie

Tur cazan sau tur racordat
la modulul de distributie

Vana amestec 3 cai

By-pass secundar care permite recircularea
agentului termic in circuitul pentru
pardoseala avand astfel:

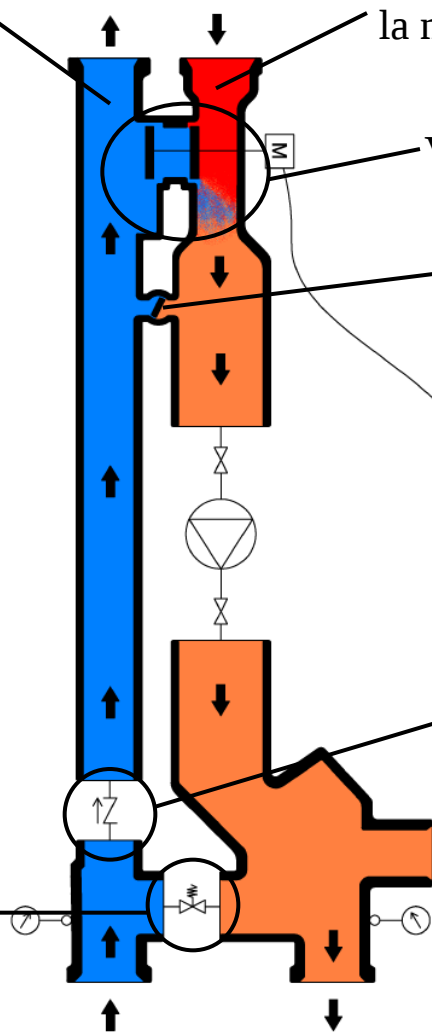
- debit mai mare
- putere termica marita
- reglaj mai fin

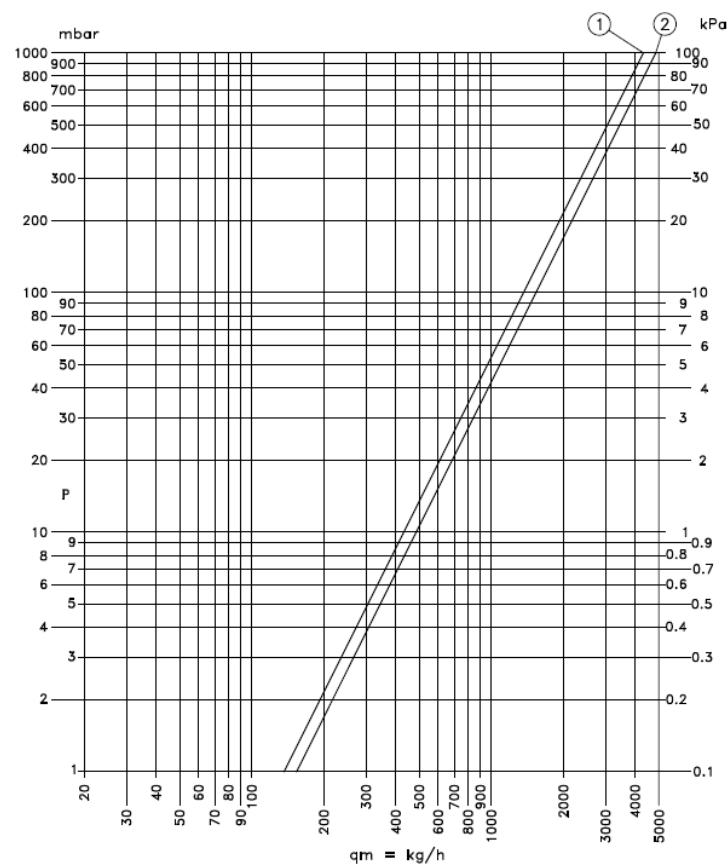
Clapeta sens pentru a evita
circulatia in sens invers

By-pass diferencial.

Retur pardoseala

Tur pardoseala

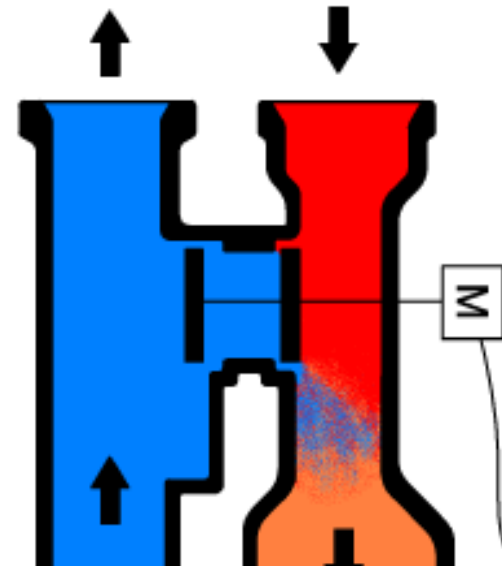




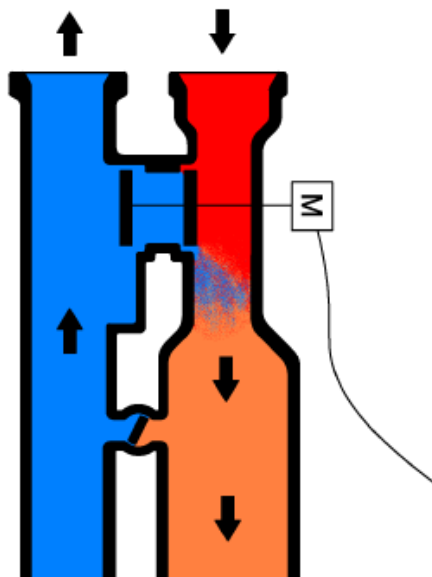
Vana de amestec 3 cai

Pierdere de presiune:

1. K_v (retur - unghi) = 4,34
2. K_v (tur - drept) = 4,81



By-pass secundar

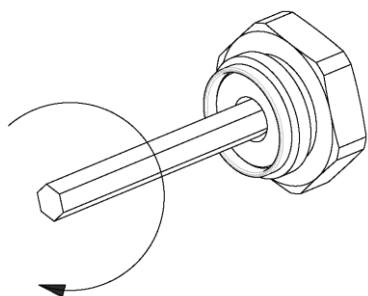


By-pass-ul secundar permite apei reci care se intoarce de pe returul pardoselii sa nu mai ajunga in vana de amestec creandu-se astfel o noua zona de amestec inainte de vana cu 3 cai.

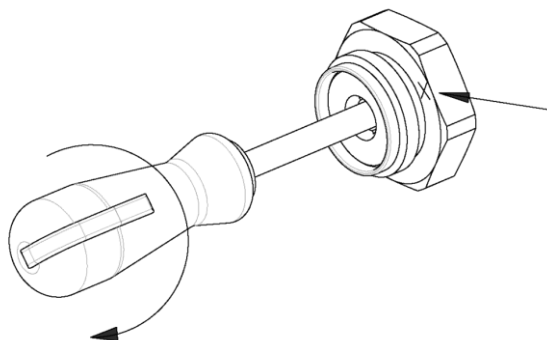
Este foarte important deoarece Kv-ul are o valoare foarte mare in acest caz ($K_v = 6.50$). Aceasta permite:

- un debit sporit pe partea de recirculare si amestec.
- vanei de amestec sa functioneze in pozitia complet deschis evitand orice oscilatie a temperaturii.
- asigura o putere termica marita chiar si in cazul centralelor in condensare unde diferentele de temperatura intre tur si retur sunt foarte mici.

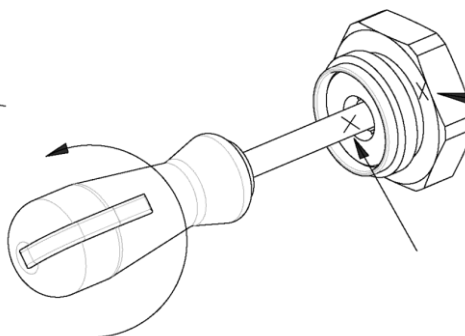
By-pass-ul secundar are dublu reglaj micrometric care permite reglajul debitului in functie de cerinte



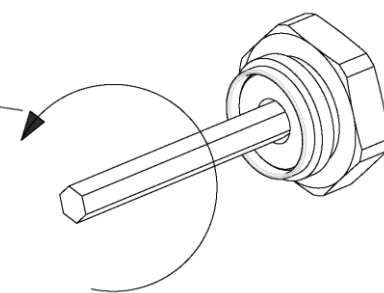
1. Dupa inlaturarea capacului de protectie inchideti by-pass-ul folosind un imbus.



2. Introduceti apoi o surubelnita si inchideti la maxim.

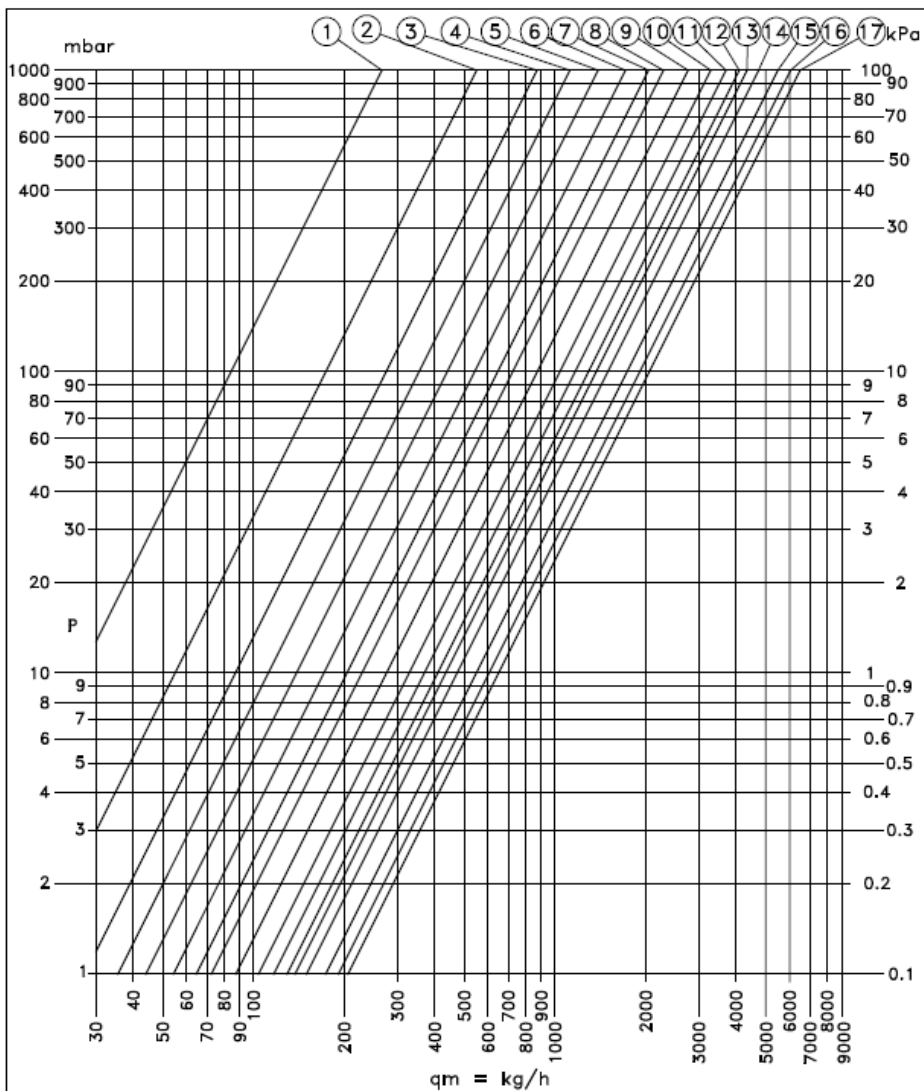


3. Desurubati apoi cate ture ati stabilit dupa consultarea graficului pentru by-pass $\Delta p-Q$.



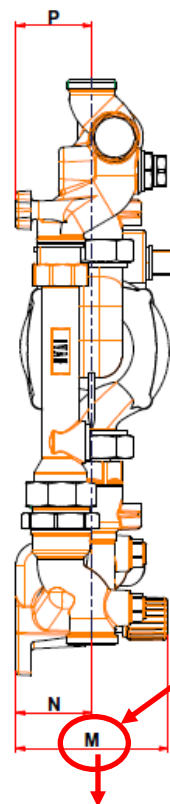
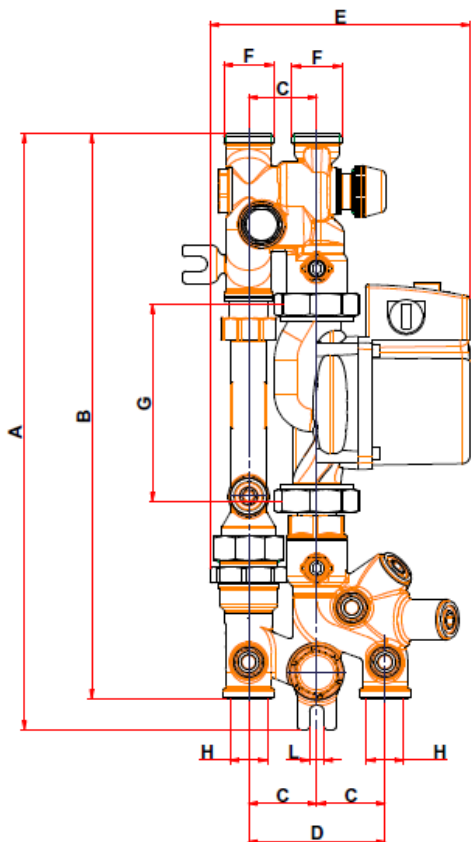
4. Deschideti la maxim by-pass-ul folosind un imbus.

MULTIMIX



BYPASS SECONDARIO DI BILANCIAMENTO

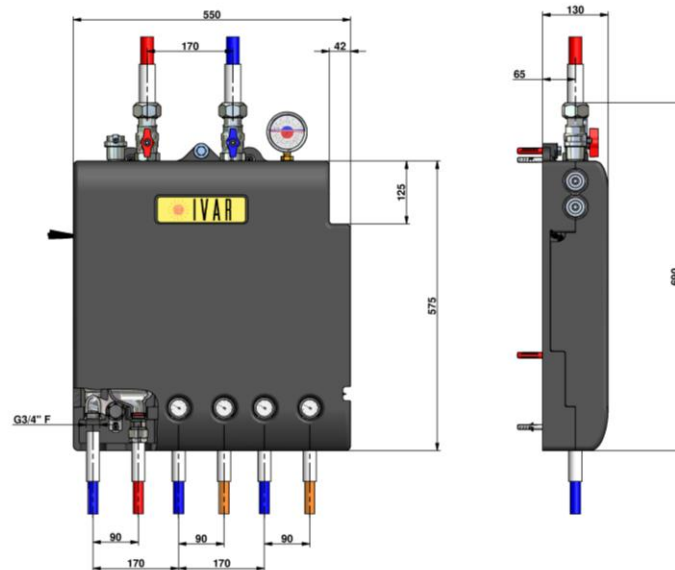
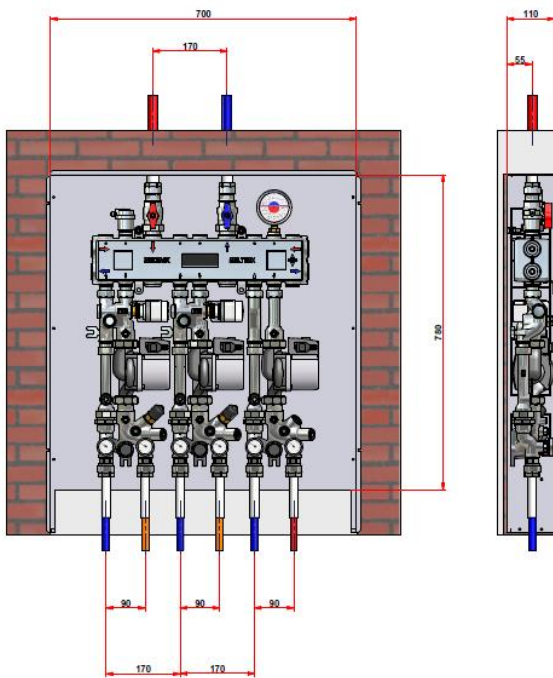
POS.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
GIRI/TURNS	½	¾	1	1¼	1½	1¾	2	2¼	2½	3	3½	4	4½	5	7	9	T.A.
Kv	0.27	0.55	0.87	1.16	1.47	1.77	2.04	2.33	2.79	3.31	3.72	4.09	4.36	4.75	5.49	6.04	6.50



**Sistemul este foarte compact
Avand o adancime maxima
de 100 mm.**

A	B	C	D	E	F	G	H	L	M	N	P
395	375	45	90	173	G1"	130/135	G3/4	9.5	99.5	50	50

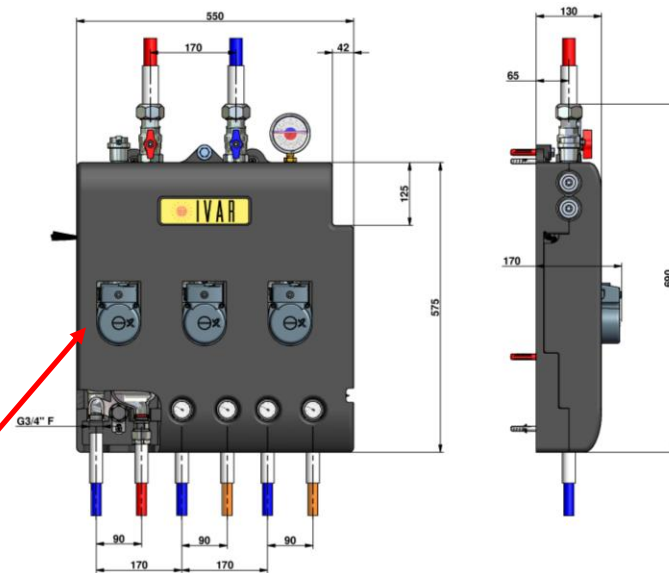
MULTIMIX – Alte avantaje



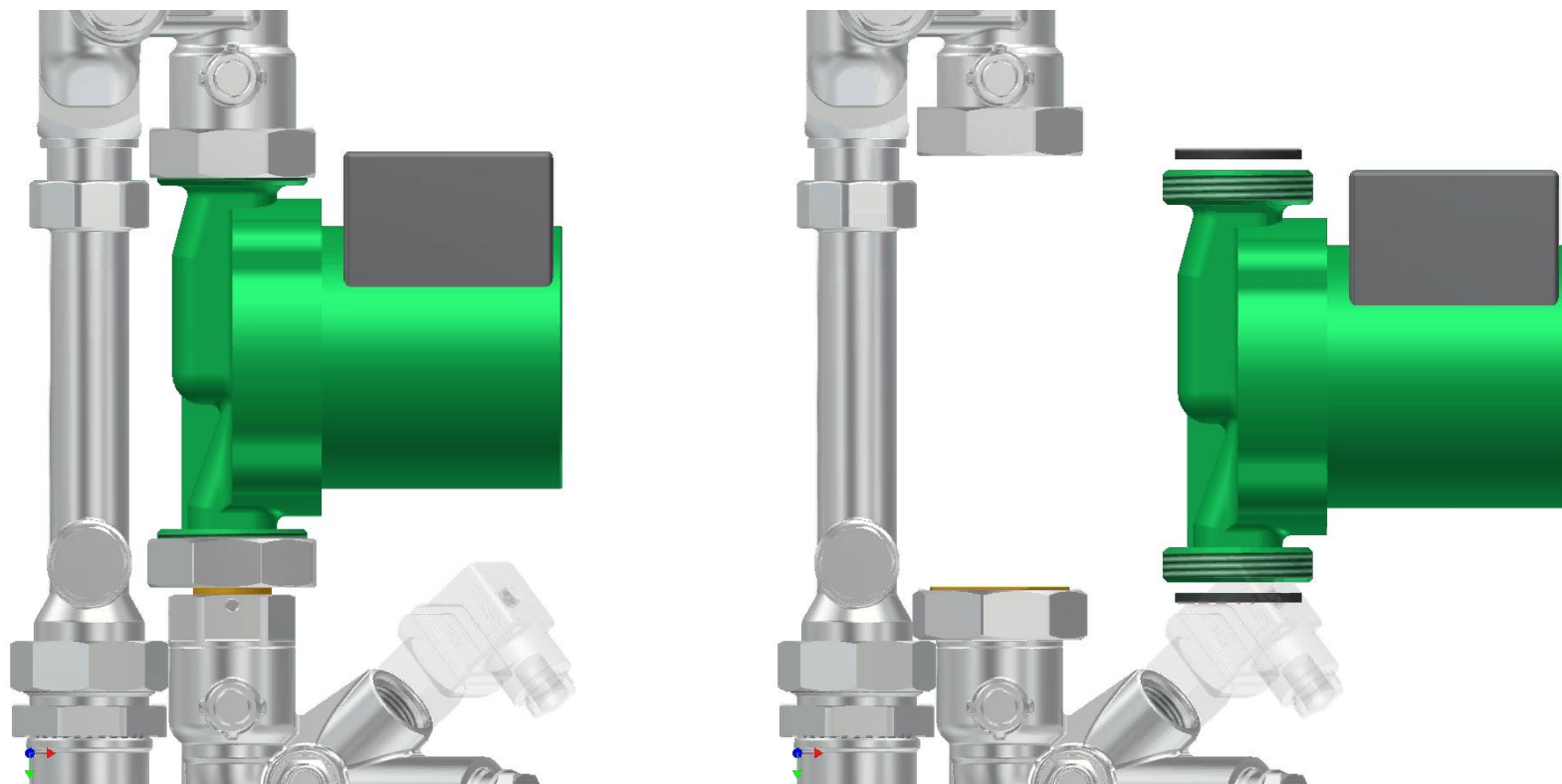
Compact: MULTIMIX este un sistem foarte compact care poate fi montat in casete de 110 mm adancime.

Izolatie: MULTIMIX este disponibil si cu termoizolatie, varianta in care se elimina pierderile de caldura. In acest caz trebuie folosite casete cu o adancime de 130 mm.

Pozitionarea pompei: in cazul utilizarii pompei ALPHA 2L, trebuie intoarsa la 90° si izolatia decupata in dreptul pompei. In acest caz adancimea casetei creste la 170 mm.

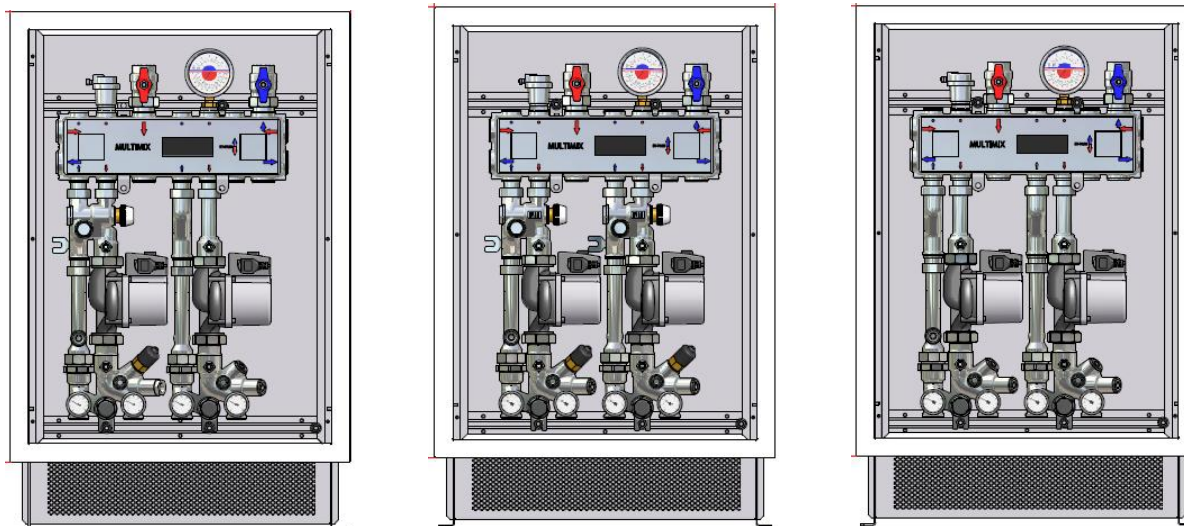


MULTIMIX – Alte avantaje



Inlocuirea pompei se face foarte simplu datorita semiolandezului telescopic care permite marirea distantei inter-axe.

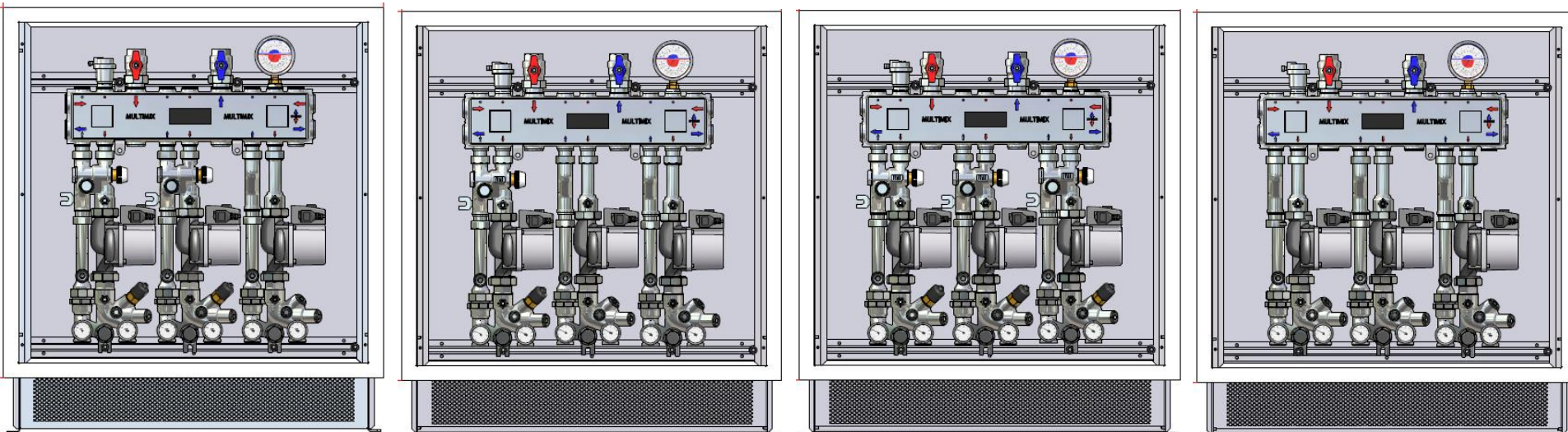
MULTIMIX – Variante preasamblate



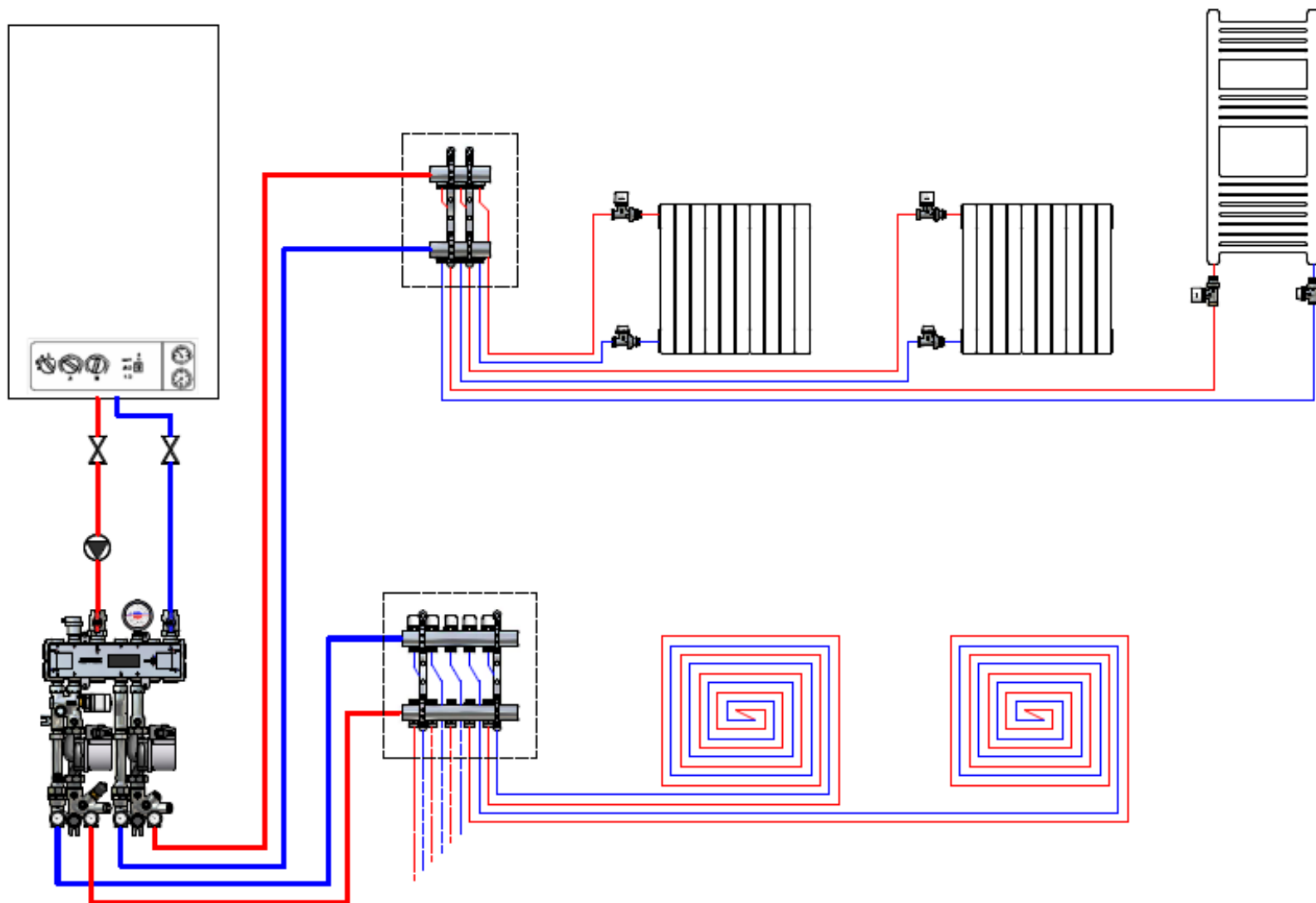
Disponibile si in varianta
cu termo-izolatie.

Dimensiune caseta:

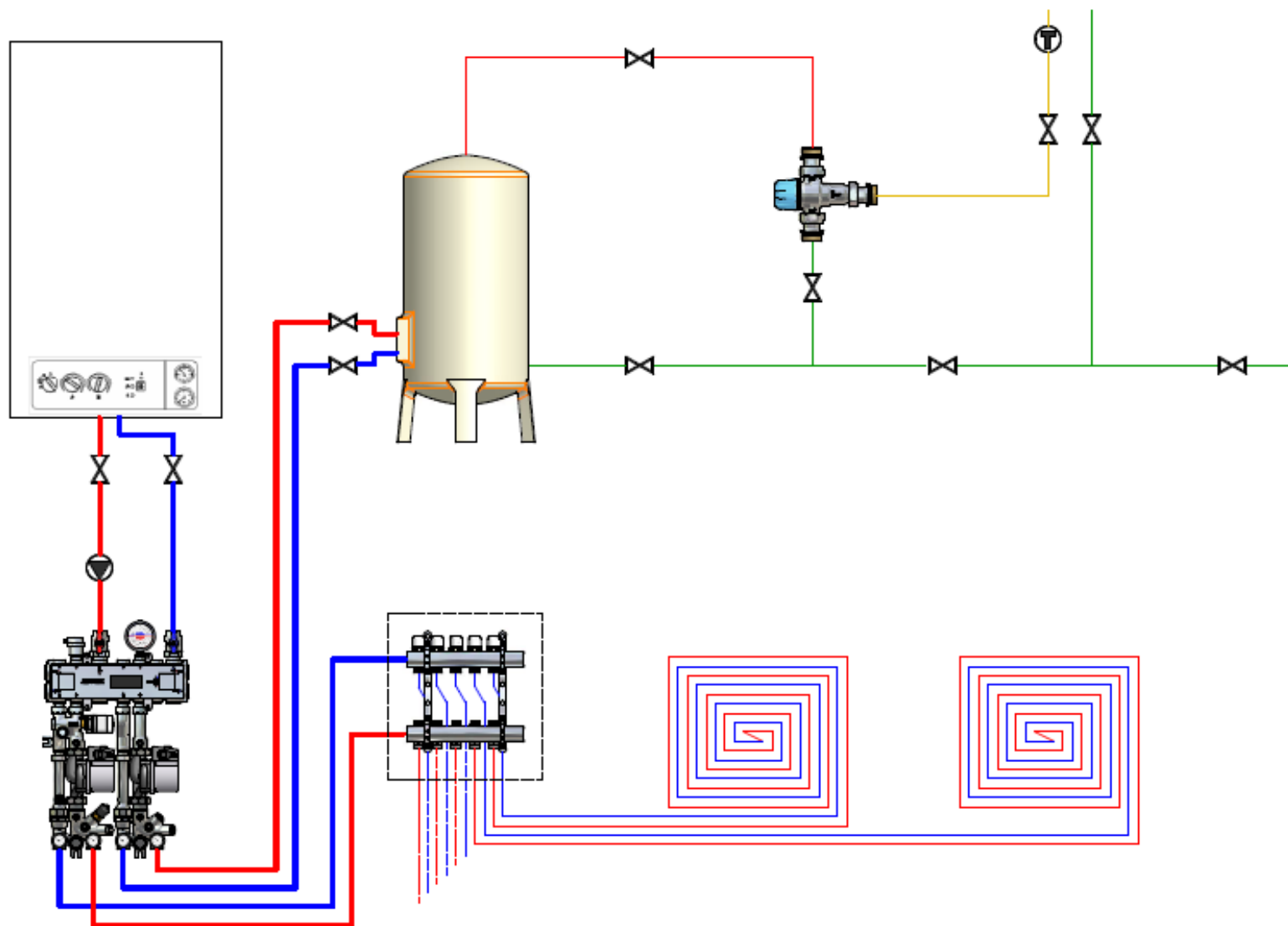
- 500 mm (2 cai)
- 700 mm (3 cai)



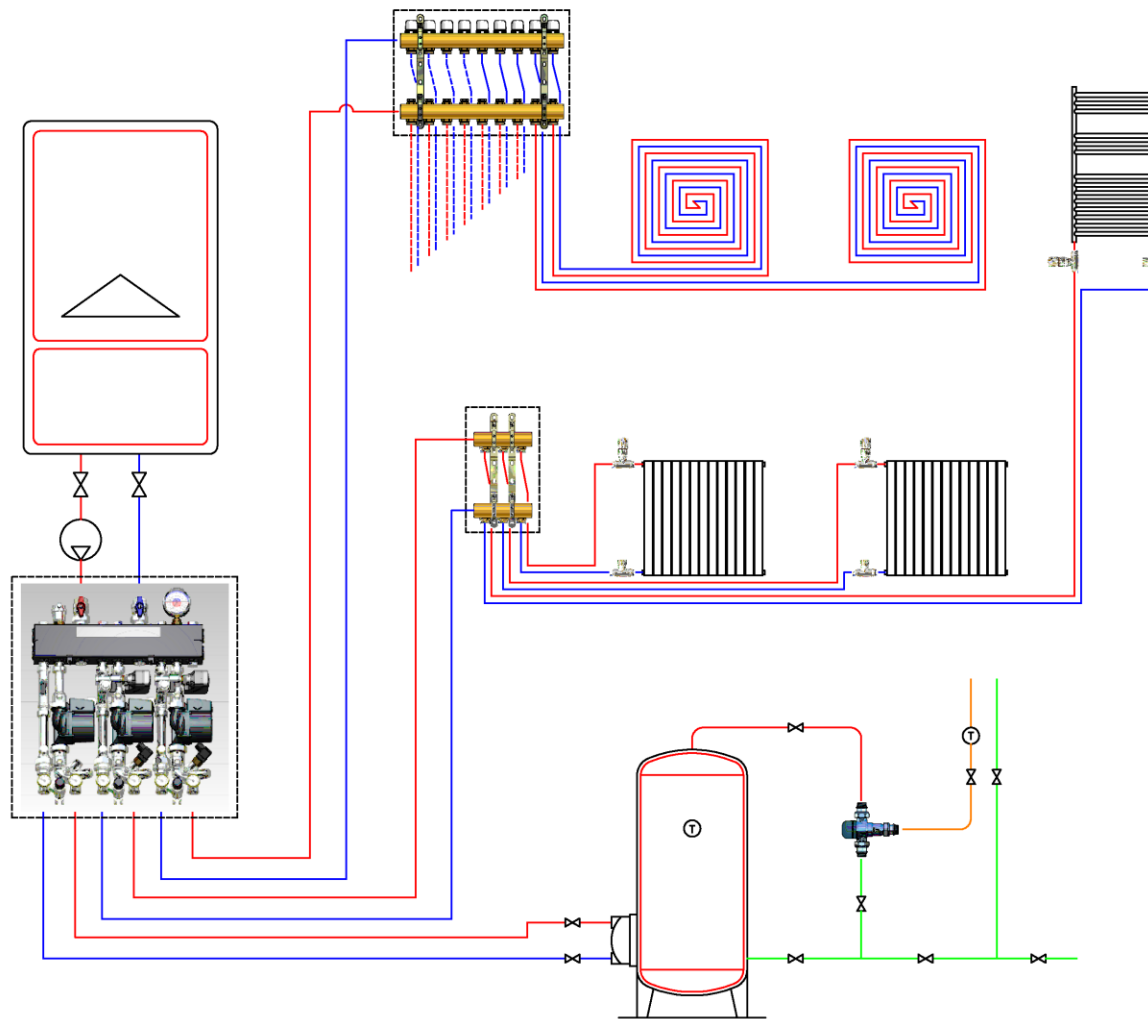
MULTIMIX – Aplicatii - exemple



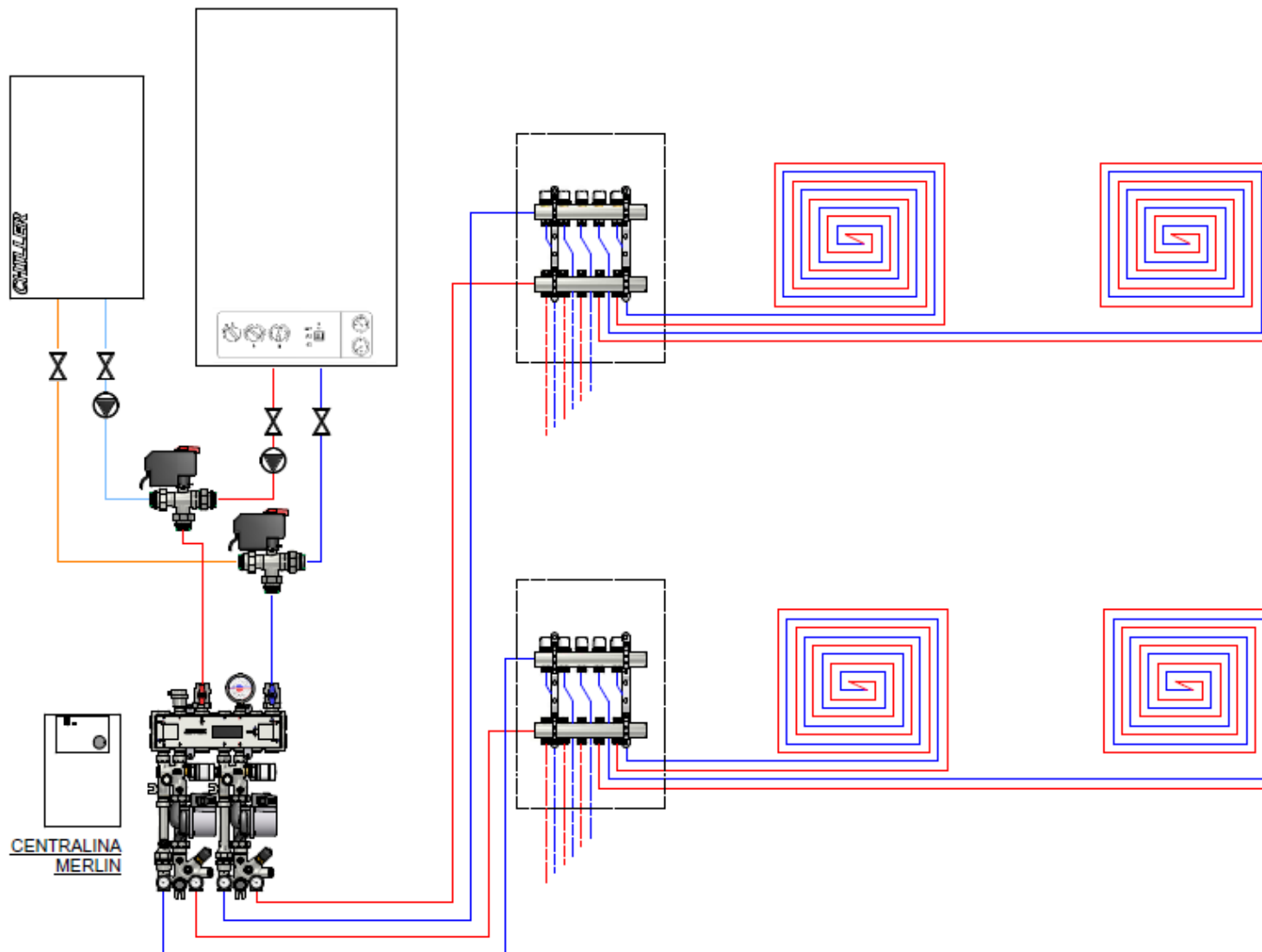
MULTIMIX – Aplicatii - exemple



MULTIMIX – Aplicatii - exemple



MULTIMIX – Aplicatii - exemple



VARIMIX vs MULTIMIX



	VARIMIX						MULTIMIX					
Modular	DA						DA					
Alimentare	Din partea stanga sau dreapta						Din partea stanga,dreapta,sus sau jos					
Timp de instalare	Scazut						Foarte scazut					
Conexiune principala	G 1" ¼						G 1"					
Conexiune distributie	G 1" ¼						G ¾"					
Debit maxim	Butelie egalizare		4500 l/h				Modul distributie				3000 l/h	
	Kit distributie		3000 l/h				Kit distributie				2500 l/h	
											2500 l/h	
Putere termica maxima	ΔT^* (°C)	5	10	15	20	25	ΔT^* (°C)	5	10	15	20	25
	P (kW)	26,1	52,3	78,5	104,6	130,8	P (kW)	17,4	34,8	52,3	69,7	87,2
Controlul vanei de amestec	Cu servomotor sau manual in punct fix.						Cu servomotor axial sau cap termostatat cu sonda si reglaj in punct fix.					
Izolatie	DA						DA					
Utilizare in sistem de racire	DA						DA					

* Temperatura de intrare a apei in centrala.