

Sanitary thermostatic blenders



The thermostatic blender is used to maintain the water temperature constant at the set value, regardless of inlet pressure and/or temperature changes, by means of a thermostatic element. Its application is of primary importance in domestic hot water distribution systems, in which it is fundamental to prevent too-hot water from the heater from reaching the system draw-off points. The product range includes anti-scalding blenders certified to NF 079 doc. 08, anti-scalding blenders for solar applications and blenders for high temperature applications. All types are available in a fixed-setting and an adjustable version, either with 1/2" or 3/4" connections. Inlet fittings are equipped with check valves.

■ TECHNICAL FEATURES

Max static working pressure: 10 bar
 Max dynamic working pressure: 5 bar
 Max inlet pressure rate for a correct adjustment (hot:cold or cold:hot): 3:1

NF-certified devices

Max inlet temperature: 90 °C
 Min temperature difference between hot and cold inlet to ensure anti-scalding action: 15 °C

High-temperature application devices

Max inlet temperature: 90 °C

Solar application devices

Max inlet temperature: 110 °C
 Min temperature difference between hot and cold inlet to ensure anti-scalding action: 15 °C

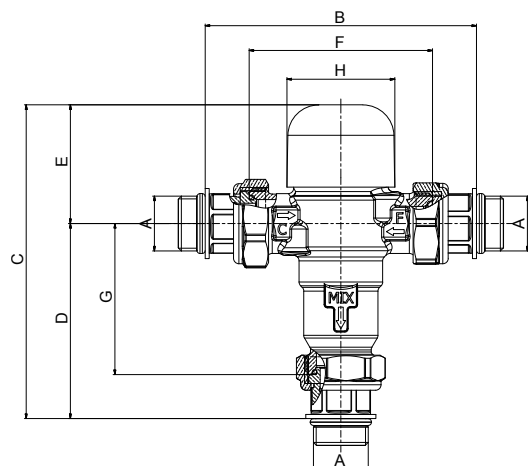
■ MATERIALS

Body: CW617N brass (nickel-plated only outside)
 Rubber parts: EPDM
 Spring: stainless steel
 Shutter: polyetherimide + silicone
 Cap/adjustment knob: ABS

■ DIMENSIONS

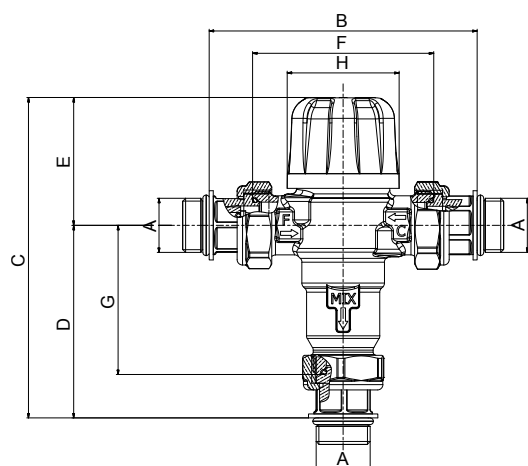
MT: NF-certified anti-scalding blenders (**black** cap/knob)
SOL: solar application anti-scalding blenders (**orange** cap/knob)
HT: high-temperature application blenders (**green** cap/knob)

Fixed-setting blenders ("NR")



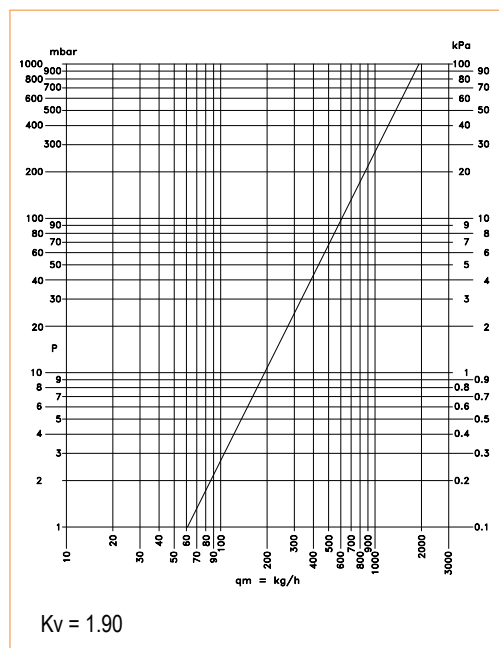
COD.	Type	Certif.	Setting	A	B	C	D	E	F	G	H
507020	MT	NF	50 ^{+0/-3} °C	1/2"	101	116	73	43	68	56	Ø40
507020SOL	SOL		50 ^{+0/-3} °C	1/2"	101	116	73	43	68	56	Ø40
507070	HT		63 ^{+0/-3} °C	1/2"	101	116	73	43	68	56	Ø40
507030	MT	NF	50 ^{+0/-3} °C	3/4"	105	118	75	43	68	56	Ø40
507030SOL	SOL		50 ^{+0/-3} °C	3/4"	105	118	75	43	68	56	Ø40
507080	HT		63 ^{+0/-3} °C	3/4"	105	118	75	43	68	56	Ø40

Adjustable blenders ("RU")



COD.	Type	Certif.	Adj. range	A	B	C	D	E	F	G	H
507025	MT	NF	36 ÷ 50 °C	1/2"	101	121	73	48	68	56	Ø42
507025SOL	SOL		36 ÷ 50 °C	1/2"	101	121	73	48	68	56	Ø42
507075	HT		50 ÷ 63 °C	1/2"	101	121	73	48	68	56	Ø42
507035	MT	NF	36 ÷ 50 °C	3/4"	105	123	75	48	68	56	Ø42
507035SOL	SOL		36 ÷ 50 °C	3/4"	105	123	75	48	68	56	Ø42
507085	HT		50 ÷ 63 °C	3/4"	105	123	75	48	68	56	Ø42

■ HYDRAULIC FEATURES



■ OPERATING INSTRUCTIONS

Recommendations

Prior to assembly, it is advisable to clean the supply pipes to prevent dirt from compromising the proper operation of the device. Check the alignment of the pipes and correct it if necessary.

Make sure the device is never stressed mechanically (in particular due lack of support or dilation).

The blender must never be supplied with water at a temperature above the maximum permitted value.

If the device is installed in areas with risk of freezing, it must be insulated, as well as the pipes, to avoid possible damages.

The blender must be easily accessible in case repair or inspection interventions are necessary.

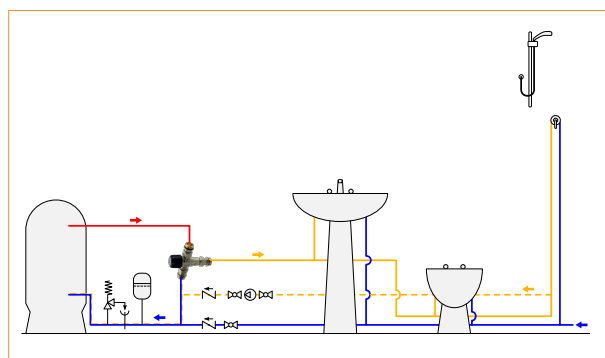
The device must be installed with the (included) pipe unions equipped with check valves at the hot and cold water inlets.

Installation

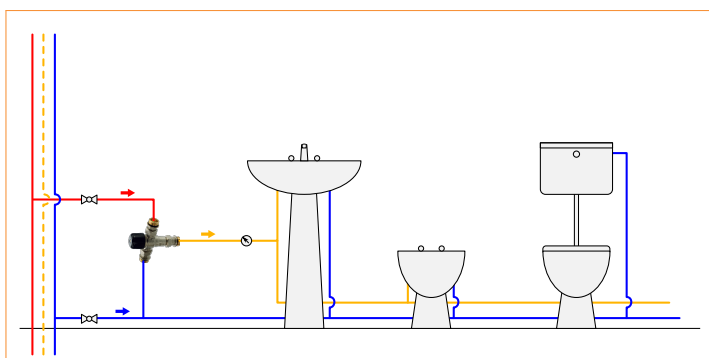
The installation must be performed in a workmanlike manner, only by qualified personnel and in compliance to the local rules concerning domestic water distribution systems. The device can be installed either vertical or horizontal.

The hot water and cold water lines must be connected to the correspondent inlets of the blender ("C" for hot water inlet and "F" for cold water inlet; "MIX" indicates blended water outlet).

Application examples



(a)



(b)

Fig. 1: Examples of thermostatic blender applications.

CERTIFICATIONS



Blenders type “MT” (codes 507020, 507030, 507025 and 507035) are certified to NF 079 doc. 08 and ACS (Attestation de Conformité Sanitaire).

ACCESSORIES



AM 01. Soft-seal fitting 1/2” or 3/4”, with or without pre-assembled check valve.

I.V.A.R. S.p.A.
Via IV Novembre 181
25080 Prevalle (BS)
Tel. +39 030 68028
Fax +39 030 6801329
www.ivar.eu - info@ivar.eu

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