

BMX - AISI 316L stainless steel wall mounting calorifier

BMV - Glass lined wall mounting calorifier



Calorifier for the production and storage of domestic hot water (DHW) equipped with fixed coil.

It is available in two options: AISI 316L stainless steel (Mod. BMX) and glass lined steel (Mod. BMV). The flexible wall mounting system, allows

the product to be installed either in vertical or horizontal position.

Cylinders are also prepared to host a backup immersion heater (not supplied).

HEAT SOURCE



APPLICATION



TECHNICAL FEATURES

DHW cylinder

Heat exchanger

General features

	BMX	BMV
Material	AISI 316L Stainless steel (1.4404)	Glass lined S 235 Jr Carbon steel
Internal protective treatment	Pickling and passivation	Enamelling according to DIN 4753.3
External protective treatment	Pickling and passivation	Anti rust protection + epoxy painting
Rating (P max. / T max.)	6 bar / 95°C	8 bar / 95 °C
Material	Stainless steel AISI 316L	Glass lined S 235 Jr Carbon steel
Internal protective treatment	Pickling and passivation	None
External protective treatment	Pickling and passivation	Enamelling according to DIN 4753.3
Type	Fixed coil	Fixed coil
Rating (P max. / T max.)	10 bar / 95 °C	10 bar / 95 °C
Capacity	100 - 150 - 200 L	
Warranty	5 years	
Insulation	25 mm thick injected polyurethane foam + PVC: Fire retardant class B3 (DIN 4102)	
Cathodic protection	Magnesium anode	
In compliance with	- Pressure Equipment Directive (PED) 2014/68/UE Art. 4 Para 3 - Italian MOH specifications (products suitable to contain potable water) - Energy related Products (Erp) Directive 2009/125/CE	

ACCESSORIES (page 218)



Impressed current electronic anode



Electronic control unit



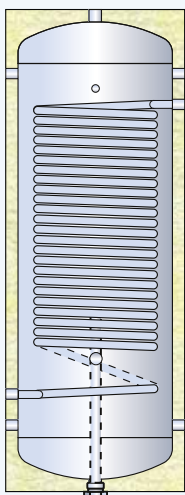
Thermostat



Thermometer



1" 1/4 electric immersion heater

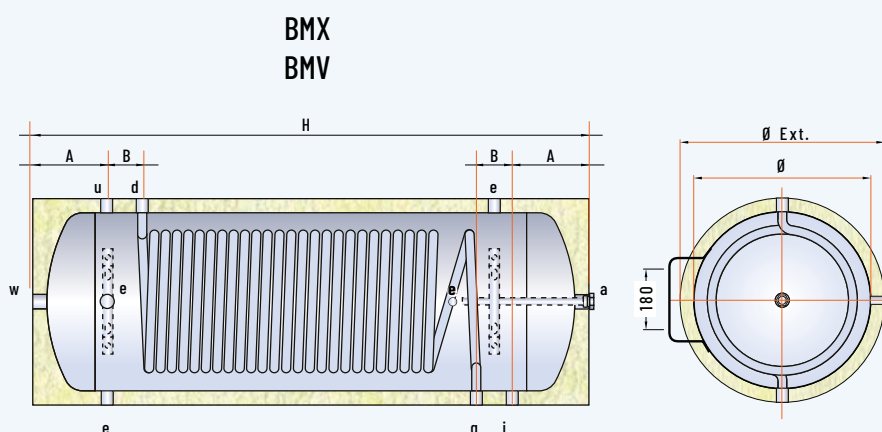
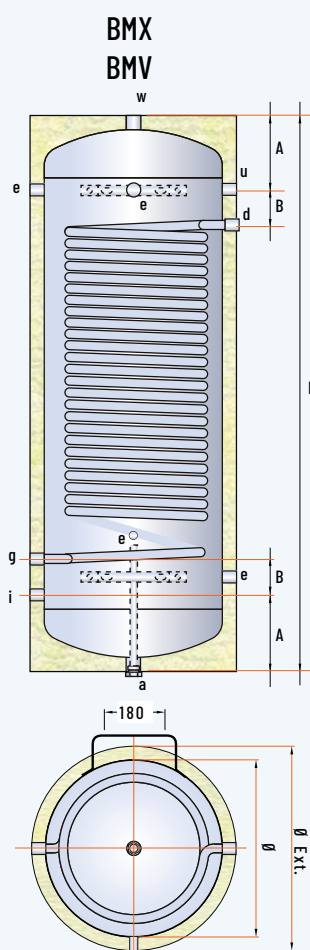


BMX - Hard insulation with rigid polyurethane foam and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m ²) / (L) *
BMX 00100 R	25	C	57,1	98,4	0,75 / 6,9
BMX 00150 R	25	C	68,2	147,5	1,10 / 9,8
BMX 00200 R	25	C	82,4	189,3	1,60 / 11,8

BMV - Hard insulation with rigid polyurethane foam and PVC jacket

CODE	INSULATION THICK. (mm)	ErP CLASS	HEAT LOSS S (W)	REAL CAPACITY (L)	HEAT EXCHANGER (m ²) / (L) *
BMV 00100 R	25	C	57,1	98,4	0,75 / 6,9
BMV 00150 R	25	C	68,2	147,5	1,10 / 9,8
BMV 00200 R	25	C	82,4	189,3	1,60 / 11,8



Horizontal installation is not meant to work with natural circulation primary fluids

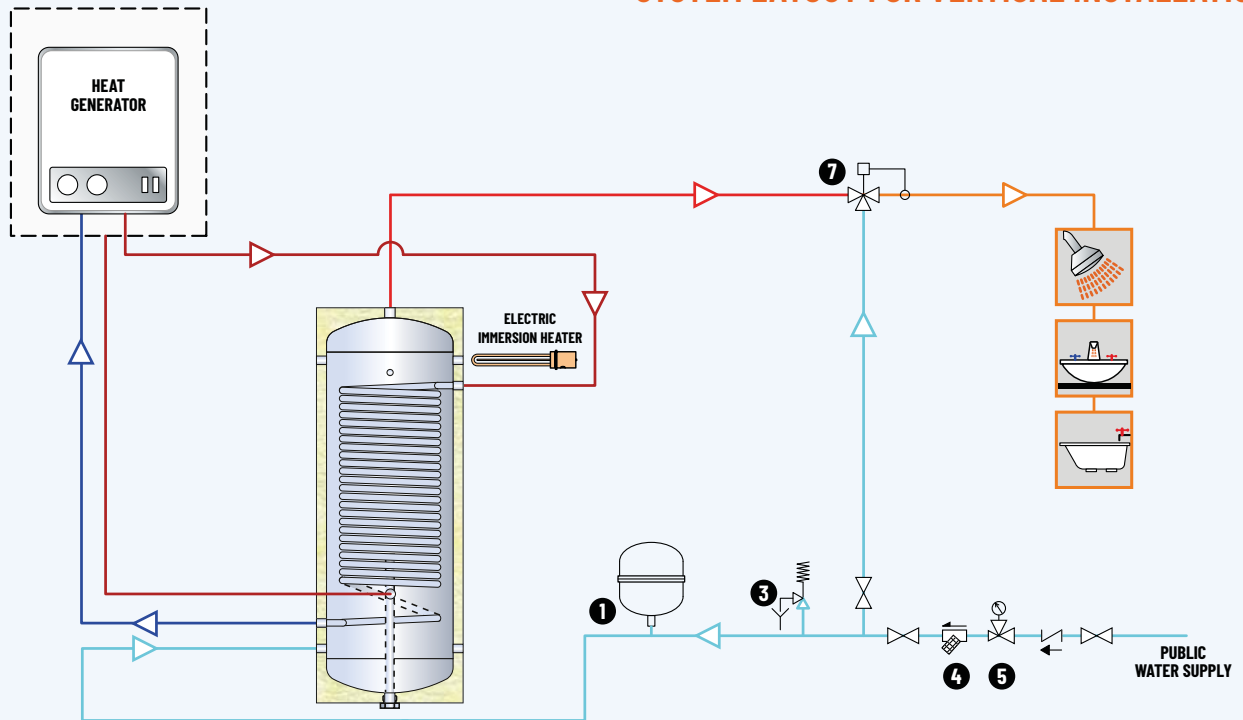
LEGEND

- a** . Magnesium anode
- d** . Boiler flow
- e** . Thermometer - Sensor
- g** . Boiler return
- i** . Domestic cold water inlet
- u** . Domestic hot water outlet
- w** . Opening for immersion heater

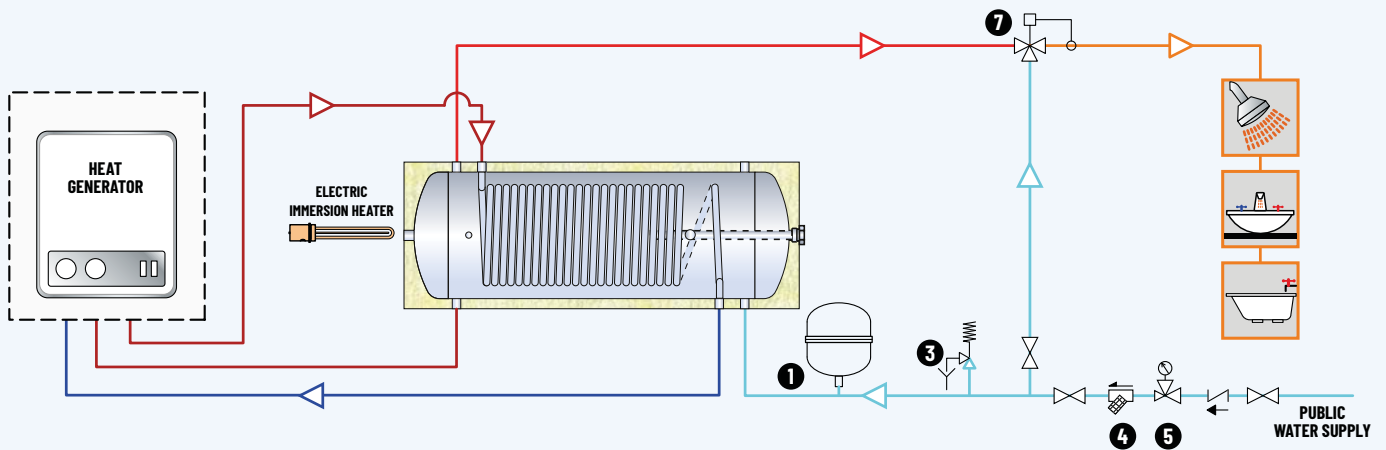
MODEL	H	Ø EXT	HEIGHTS (mm)	CONNECTIONS (GAS)	HEAT EXCHANGER (m ²)	WEIGHT (kg)
BM_ 00100 R	400	870	450	185 90	1"¼ 1" ½"	0,75 35
BM_ 00150 R	450	1005	500	200 90	1"¼ 1" ½"	1,10 49
BM_ 00200 R	450	1255	500	200 90	1"¼ 1" ½"	1,60 57

* Volume occupied by the heat exchanger and its support structure

SYSTEM LAYOUT FOR VERTICAL INSTALLATION



SYSTEM LAYOUT FOR HORIZONTAL INSTALLATION



LEGEND

- | | |
|---|-----------------------------|
| 1 . Domestic water expansion vessel | 5 . Pressure reducing valve |
| 3 . Domestic water safety valve (6 bar) | 7 . DHW 3-way valve |
| 4 . Strainer | |

MODEL		BM_ 00100 R				BM_ 00150 R				BM_ 00200 R			
DHW FROM 10 TO 45 °C	HEAT EXCHANGER (m ²) [L] ¹	0,75 [5,3]				1,1 [7,8]				1,6 [11,3]			
	PRIMARY FLOW (m ³ /h)	2				2				2			
	PRIMARY TEMP. (°C)	50	60	70	80	50	60	70	80	50	60	70	80
	LITRES 10' (L/10') ²	123	144	203	220	183	212	298	323	239	280	392	426
	LITRES FIRST HOUR ²	272	397	547	654	395	571	786	935	537	778	1068	1271
	CONTINUOUS DRAW (L) ³	187	319	436	548	268	453	617	774	376	630	854	1068
	POWER (kW)	7,6	13,0	17,7	22,3	10,9	18,4	25,1	31,5	15,3	25,6	34,7	43,5
DHW FROM 10 TO 60 °C	PREHEATING ³ (min)	33	19	14	11	35	20	15	12	33	19	14	11
	LITRES 10' (L/10') ²	-	-	128	142	-	-	189	209	-	-	248	276
	LITRES FIRST HOUR ²	-	-	299	385	-	-	433	554	-	-	590	755
	CONTINUOUS DRAW (L) ³	-	-	216	307	-	-	309	436	-	-	432	606
	POWER (kW)	-	-	12,6	17,8	-	-	18,0	25,3	-	-	25,1	35,2
NL ⁴		0,6				1,4				1,8			

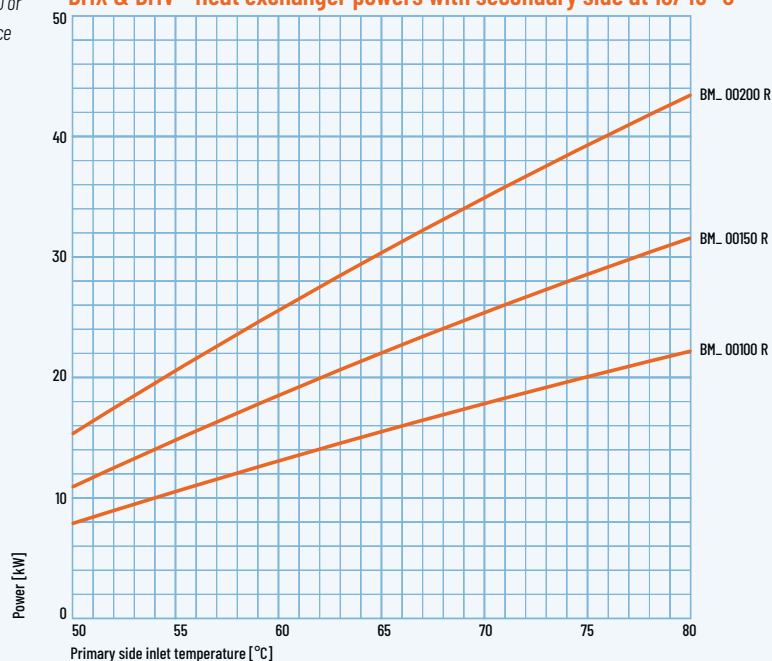
(1) Volume of fluid contained in the heat exchanger

(2) Obtainable with pre-heated cylinder (at 45 °C with primary side set at 50 or 60 °C and pre-heated at 60 °C in the other cases) and a running heat source

(3) With a proper power heat source generator

(4) Primary side 80 °C - Secondary side 10-45 °C

BMX & BMV - Heat exchanger powers with secondary side at 10/45 °C



BMX & BMV - Heat exchanger pressure drops

