

Mareli Systems

ASSEMBLY INSTRUCTIONS AND EXPLOITATION



Buffer tanks

25l; 40l; 50l; 60l; 80l; 100l;

200l

INTRODUCTION

Dear clients,

We hope that the device you purchased will contribute to creating coziness in your home and reducing energy costs. The purpose of this technical description and operating instructions is to familiarize you with the product and the conditions for its correct installation and operation. Compliance with the instructions in this manual is in the interest of the buyer and is one of the warranty conditions.

Advantages:

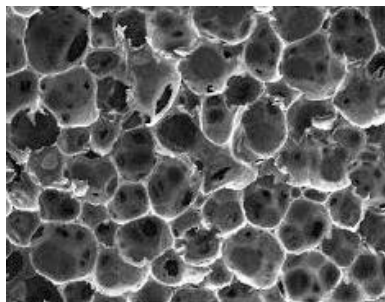
- 1) Buffer vessels are used in heating installations to accumulate heat or cold. They protect the devices from working in hot-cold mode, which considerably increases their operational period.
- 2) It is suitable for connection to heating, solar and to systems intended for the indirect supply of a large number of DHW consumers.
- 3) The buffer is made of high-quality steel brand S235JR (EN 10025).
- 4) Working pressure of the buffer vessel - 3 bar.
- 5) The external insulation of buffers 25l, 40l, 50l, 60l, 80l, 100l and 200l is made of PU foam and powder-coated metal decorative coating.

Important!!! The rooms in which the buffers are installed must have a drainage channel, in order to drain the water during servicing. During the installation, it is mandatory to install hollanders with a tap on each connection of the terminals of the buffer.

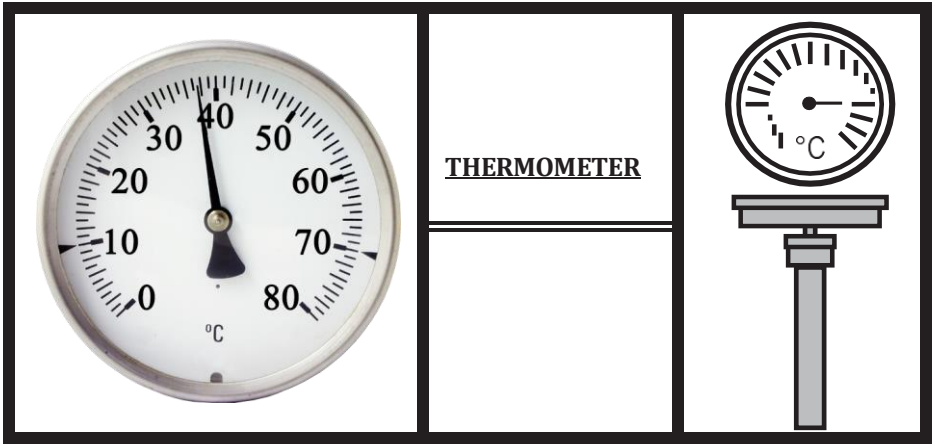
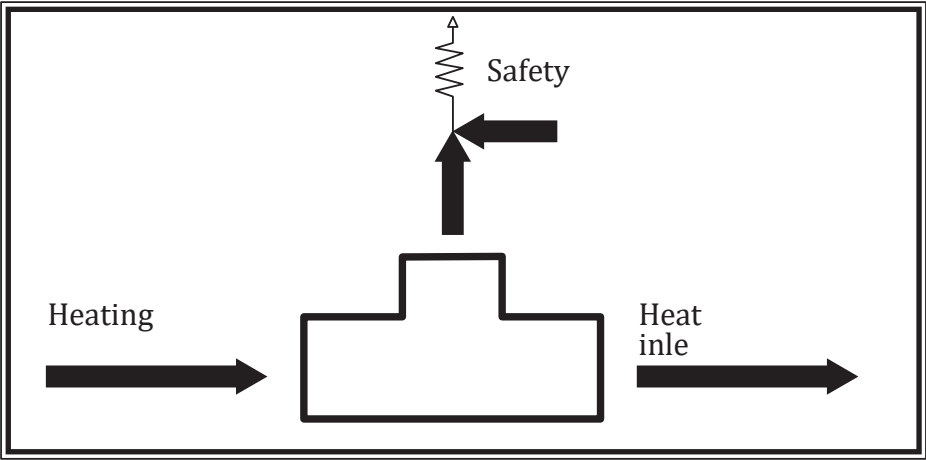
Important!!! It is forbidden to install shut-off valves between the coil and the expansion vessel of the heating installation.

1. INSULATION

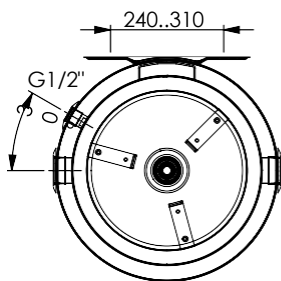
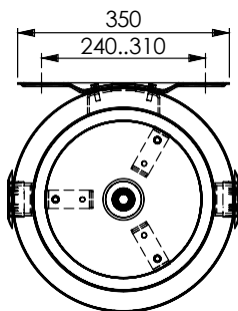
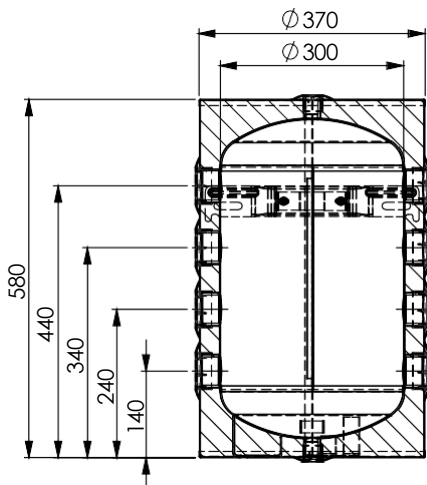
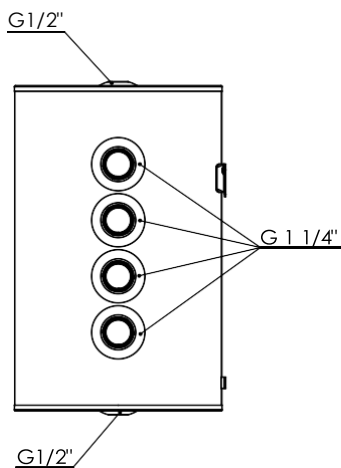
Buffer models 25-200 liters are insulated with 30mm polyurethane foam with a density of 45kg/m^3 . The decorative lining of the buffer is made of powder-coated sheet metal.



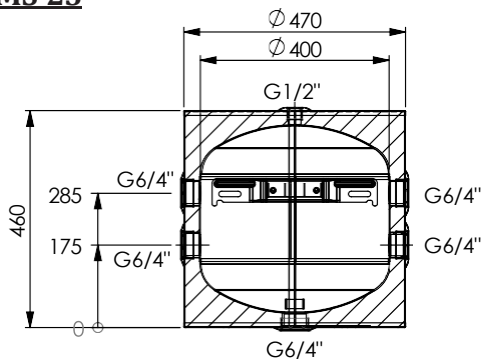
2. CONNECTION DIAGRAM OF THE SAFETY VALVE OF THE BUFFER BODY



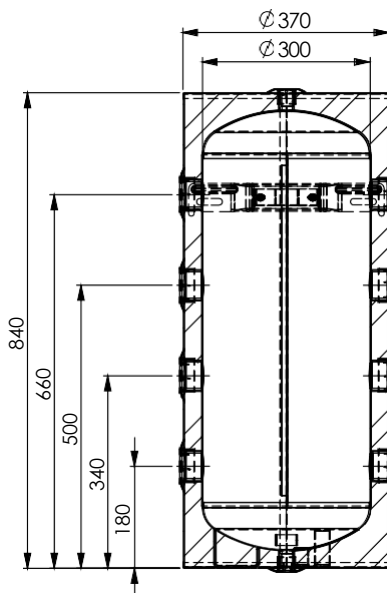
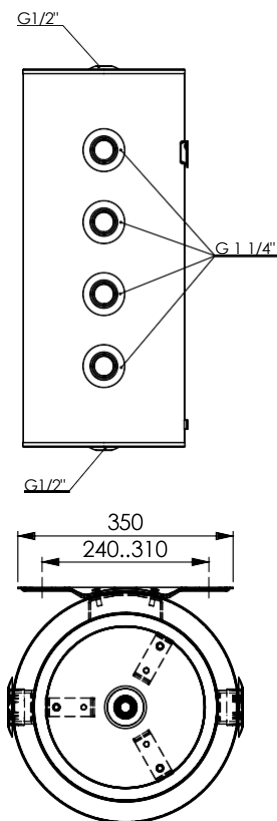
3. TECHNICAL CHARACTERISTICS



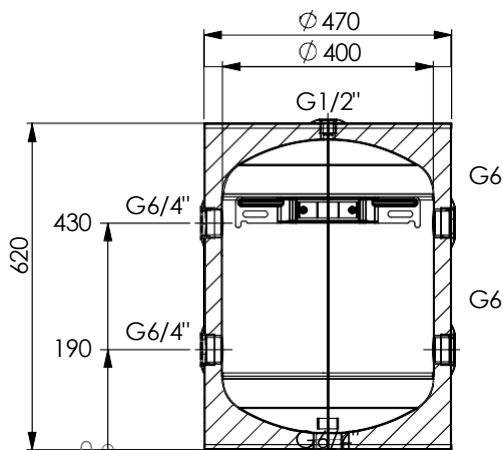
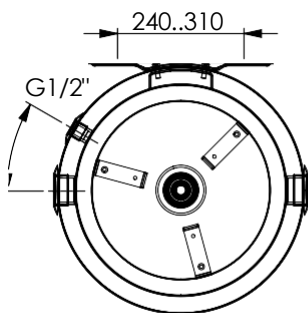
BMS 25



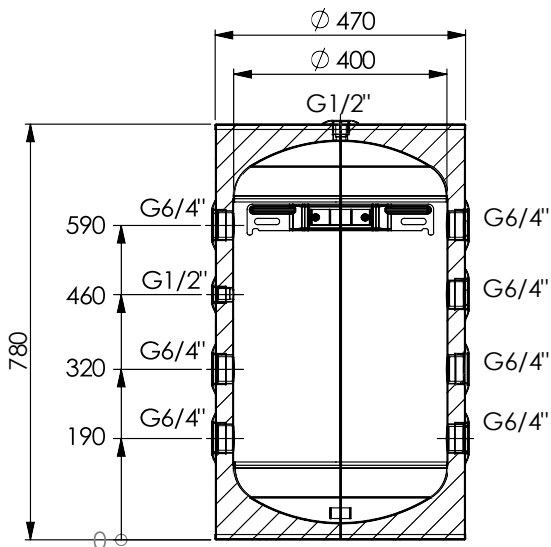
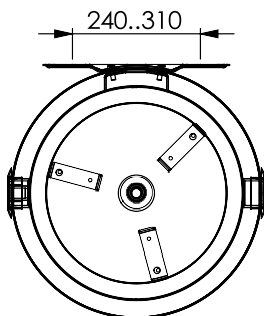
BMS 40



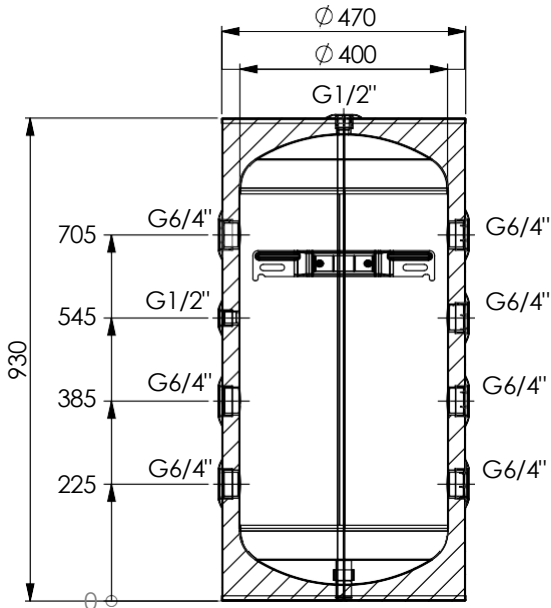
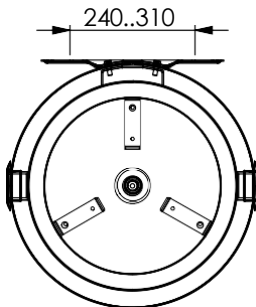
BMS 50



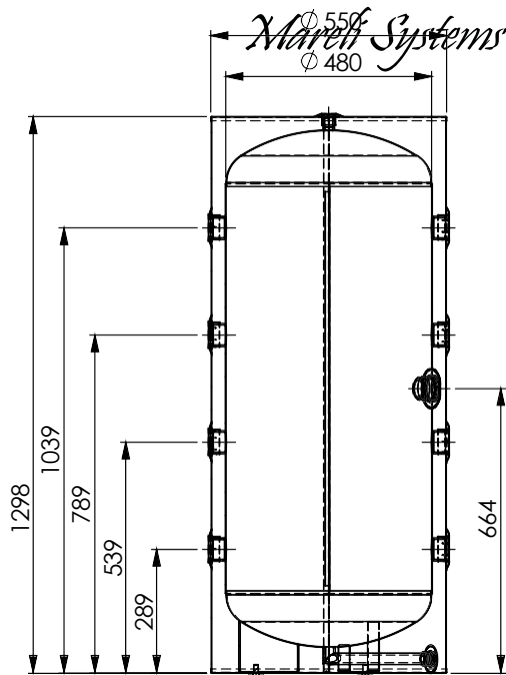
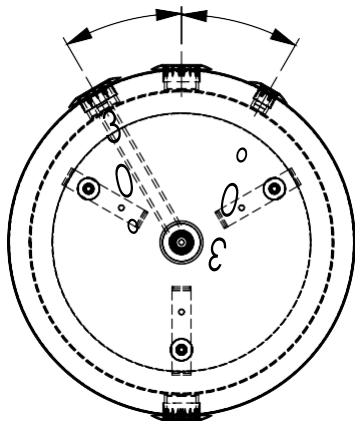
BMS 60



BMS 80



BMS 100



BMS 200

	25	40	50	60	80	100	200
Weight	21 kg	18 kg	25 kg	22 kg	26 kg	30 kg	57 kg
Storage capacity	32 L	40 L	50 L	60 L	80 L	100 L	200 L
Max / Min allowable temperature	95°C / 6°C						
Maximum allowable pressure	3 bar						

4. WARRANTY CONDITIONS

1. Manufacturing defects and materials warranty

“Mareli Systems” Ltd. guarantees the quality of the materials used and the absence of a manufacturing defect that would interfere with the normal functioning of the product, under proper conditions of installation, use and maintenance. If, during the warranty period from the date of purchase of the buffer, it fails to function properly as a result of a defect in materials or workmanship, the manufacturer will repair or replace the defective buffer vessel.

2. Warranty Exclusions and Limitations

a) Warranty rights can be asserted during the warranty period of the product, for defects found immediately after their occurrence. Exceptions are the cases that refer to the presence of visible defects, when the claim must be made by the customer, immediately after receiving the defective buffer in the store, in accordance with the general conditions of sale.

b) The warranty loses its validity in the case of established damages in the functioning of the buffer, which originate from:

- 1) Accidents, use of movable structures, or careless, inappropriate or inappropriate use.
- 2) Failure to follow the installation, use and maintenance instructions that are described in the installation manual of the relevant facility.
- 3) Incorrect modifications, installations or use, also if they were not carried out by the authorized service personnel from “Mareli Systems” Ltd.
- 4) Damages caused by pressure values, during testing or operation of the buffer, higher than those established by “Mareli Systems” Ltd in the technical documents, or due to the use of water with values exceeding:
 - 500 mg/l. total soluble salts;
 - 200 mg/l. calcium carbonate;
 - 50 mg/l. free carbon dioxide;
 - ph content between a minimum of 5 and a maximum of 12.

Also due to freezes, floods, disasters or acts of third parties or any other foreign interference, with respect to the normal operating conditions of the buffers.

The customer is obliged to control the anti-corrosion system (magnesium anode/Correx up, etc.); in the case of a magnesium anode, to control and replace, with a periodicity depending on the type of water /hard or softer/ of the area where the buffer is installed.

c) Buyer is not entitled to a warranty for a buffer whose serial identification number has been tampered with or cannot be clearly authenticated.

d) Cases related to the appearance of the buffer will not be counted as defects with the right to a warranty claim, with the exception of those in which losses occur in the functioning or in the specific representations in the technical documents or sales brochures of “Marelli Systems” Ltd.

e) “Marelli Systems” Ltd reserves the right to supply a different buffer model in order to service the submitted approved warranty claims, in case of replacement, when the original model is already out of production.

3. Complaint with warranty rights

Any customer of a buffer purchased from “Mareli Systems” Ltd, who has proven grounds to make a claim with the warranty rights established in this document, must proceed as follows:

- a) To inform immediately and in writing:
 - 1) The company that sold him the buffer;
 - 2) Or the distributor company;
 - 3) Or the sales representative of “Mareli Systems” Ltd.

For this purpose, a compulsorily completed Complaints Form must be used, accompanied by a copy of the purchase document for the buffer, the subject of the complaint, in which the date of acquisition of the product should appear.

b) After receiving the complaint, Mareli Systems Ltd analyzes it and decides whether it has a legal basis. Legality and whether the conditions of this document are met for the conditions under which the warranty is valid are monitored. The customer is then informed about this and the instructions to follow.

c) Return of buffers subject to complaint cannot be made without prior written authorization from the Quality Department via RMA (Return Material Authorization).

d) If at the customer's request and on grounds of urgency, he requests from “Mareli Systems” Ltd immediate replacement of the buffer subject to the complaint, in advance before receiving the complaint decision, the said request must be accompanied by a Purchase Claim from the sales department. Once the complaint is resolved, said purchase claim will be subject to cancellation by issuing a receipt for returned advertised merchandise, against which the customer may purchase another merchandise of the same value, should the complaint be found to be valid.

e) “Mareli Systems” Ltd reserves the right to prepare reports from the complaints received, in order to check every single aspect that can serve to better resolve the received complaint, therefore the customer must not change the installation conditions that are the reason for the complaint, without the prior written consent of the Technical Department.

4. Limitations of Liability.

a) “Mareli Systems” Ltd bears no direct or indirect responsibility to the customer, for any non-fulfilment or delay of the obligations under the warranty, which originate from external pressure or from other circumstances foreign to “Mareli Systems” Ltd.

b) The responsibility of “Mareli Systems” Ltd, arising from this warranty certificate, is limited to the above obligations, and quantitatively, to the amount of the invoice issued to the client. In the case of the purchase of a buffer subject to this claim, any type of liability for indirect damages - such as data loss in information applications, loss of input or output, thermal variations in service, etc. - is expressly excluded, which do not violate the legal applicable regulations in any country regarding product liability.

c) The warranty limitations quoted will apply whenever and wherever they do not violate the applicable legal provisions in each country regarding product liability.

If this circumstance invalidates any of the preceding clauses, the invalidation will be specific to that clause only, the remaining provisions remaining legally valid. An exception is made to the application of any provision noted in this guarantee that violates the provisions of Law 23/10.07.2003 and does not violate Directive 1999/44 EU, affecting the acquired buffers and their use in the territory of the European Union.

d) Any other warranty right not expressly mentioned in this certificate remains excluded.



5. RECYCLING AND DISPOSAL

After the end of use of each product, the components must be disposed of in accordance with regulatory requirements. They must be sent for processing to an authorized enterprise meeting the requirements for environmental protection. Old appliances must be collected separately from other waste for the recycling of materials that contain substances that have a negative impact on health and the environment. Metal parts, as well as non-metal parts, are sold to licensed organizations for the collection of metal or non-metal waste intended for recycling. They should not be treated as household waste.



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MARELI SYSTEMS disclaims any responsibility for possible inaccuracies contained in this manual if they are due to printing or transcription errors. We reserve the right to make any change that appears to be necessary or useful without harm the essential characteristics.