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Centrometal HEATING TECHNIQUE

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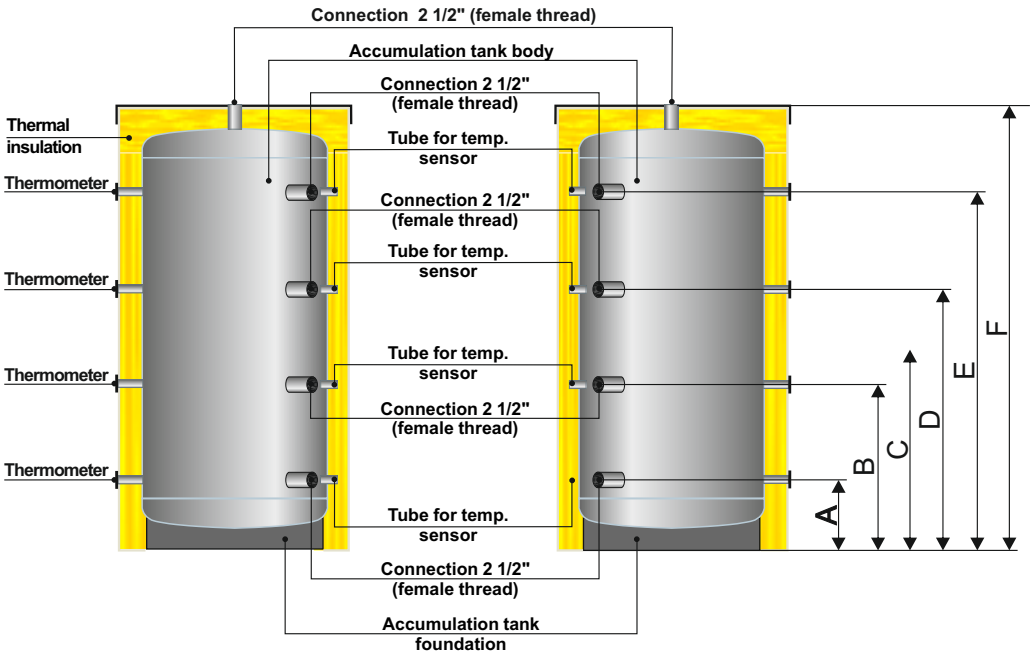
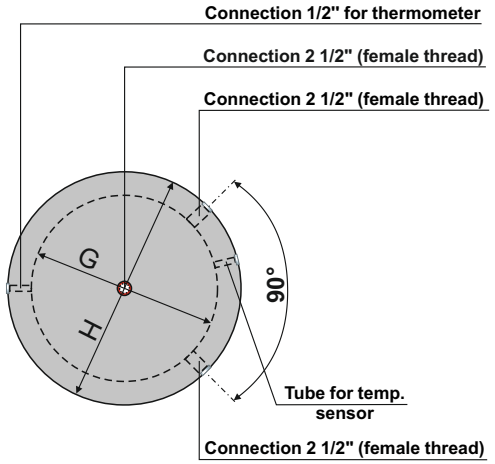
TECHNICAL MANUAL

for instalation, use and maintenance
of the water accumulation tank

CAS 5001

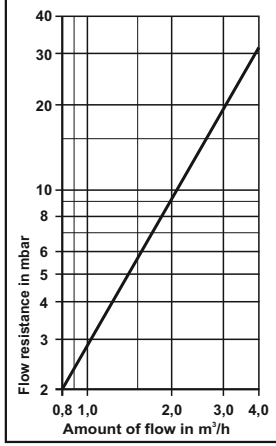
TUCAS1-02-2014-eng


Connection 2 1/2" (female thread)
Accumulation tank body
Connection 2 1/2" (female thread)
Thermal insulation
Tube for temp. sensor
Thermometer
Connection 2 1/2" (female thread)
Tube for temp. sensor
Thermometer
Tube for temp. sensor
Thermometer
Connection 2 1/2" (female thread)
Thermometer
Tube for temp. sensor
Connection 2 1/2" (female thread)
Accumulation tank foundation
A
B
C
D
E
F


Connection 1/2" for thermometer
Connection 2 1/2" (female thread)
Connection 2 1/2" (female thread)
G
H
90°
Tube for temp. sensor
Connection 2 1/2" (female thread)

Type		*CAS 5001*
Volume	(lit.)	5050
Tank body diameter G	(mm)	1600
Outer diameter H	(mm)	1860
Total height F	(mm)	2810
Connections	(R)	2 1/2"
Max. operating press.	(bar)	3
Max. operating temp.	(°C)	100
Min. height of the room	(mm)	2820
Empty acc. body weight	(kg)	440
Empty acc. tank weight	(kg)	
DHW tank capacity	(lit.)	-
Max. oper. press. DHW tank	(bar)	-
DHW connections	(R)	-
Heat exchanger surface	(m^2)	-
Heat exchanger volume	(lit.)	-
Thermal insulation	(mm)	100
Height A	(mm)	515
Height B	(mm)	1130
Height C	(mm)	1750
Height D	(mm)	2365
Height E	(mm)	

Pict. 1. Flow resistance of CAS



1.0. PRESENTATION

Water accumulation tanks **CAS** are manufactured with the most modern welding technology, made from high quality steel. We highly recommend You to follow our technical manual with attention which brighten the construction, operation, instalation and maintenance of the water accumulation tank in order to assure a long life and proper operation condition of the product.

2.0. USE

Accumulation tanks **CAS** are intended for accumulation of energy (for example in the central heating systems with solid fuel boilers for accumulation of thermal energy) and provide more economical and efficient operation of the system in which they are installed. Lot of versions of the water accumulation enables simultaneously use of more renewable energy sources what makes them ecologically and energetic very acceptable.

3.0. STATUS AT DELIVERY

For easier transport and positioning into boiler room, accumulation tanks **CAS** are not supplied with built-in thermal insulation but separately as follows:

- **accumulation tank body**
- **thermal insulation packed in a protective PVC foil**
- **thermometer (4 pcs.), rosette (4 pcs. red, 3 pcs. blue and 4 pcs. black) packed in PVC bag**

4.0. INSTALATION

Accumulation tanks CAS are delivered on a wooden pallet. Before placing the accumulation tank in the boiler room it needs to be removed from the wooden pallet. Installation and assembly of accumulation tank and installation of additional equipment on the tank must be performed by a qualified person. Accumulation tank need to be placed on a horizontal solid foundation for the anticipated load that causes the full weight of the accumulation tank. Boiler room must be protected from freezing. Accumulation tank has to be positioned so that it can be properly connected and simultaneously, enabling tending of accumulation tank control during operation. For mounting of thermal insulation on the accumulation tank see "Technical instructions for installation of thermal insulation and jacket for accumulation tank CAS" which are delivered with thermal insulation of the tank.

5.0. PLATE WITH BASIC INFORMATION ABOUT THE PRODUCT

Picture 2. Position of the plate on the accumulation tank

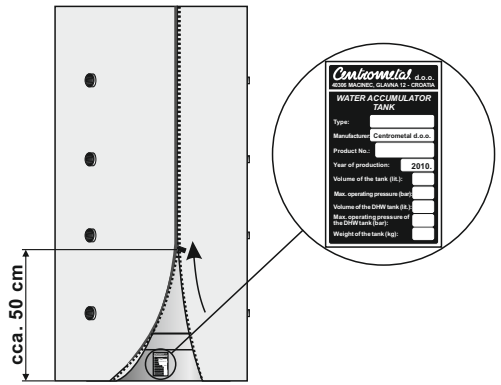


Plate of accumulation tank is attached to its foundation and covered with insulation. In order to reach the plate the zipper must pulled up (open) approx. 50 cm and separate thermal insulation (see Picture 2).

6.0. INSTALLATION OF THE ACCUMULATION TANK TO CENTRAL HEATING SYSTEM

Connection of the accumulation tank to central heating system should be done by recommendation and schematic drawing from boiler (heat source) manufacturer, according to this technical manual and good technical practice.

8.0. START UP

8.1. START UP - CAS 5001

It is necessary to perform (check, if you have already performed) all actions in accordance with points 1.0. to 7.0. these instructions.
Max. working pressure in the accumulation tank connected to the installation of central heating must be limited with built in safety valve with max. openning pressure 3 bar.

9.0. USE, CLEANING AND MAINTENANCE

The water accumulation tank **CAS** have to be cleaned as needed, by discharge the accumulation tank.

10.0. CHARACTERISTICS OF ACCUMULATION TANKS CAS 5001

- They are manufactured from certificated metal sheet in compliance with the ISO 9001/2000 norm.
- They are very good thermal insulated (100 mm), the outer cover is made of artificial leather.
- It is possible to connect the tanks mutually in order to increase total accumulation of the system.