

## VERTICAL ASSEMBLAGE OF RADIATORS:

### ATTENTION !

- This product is only conceived to be used in a system of central heating or a system of hot water tank of central heating, with a purpose to guarantee a residential heating or an individual heating.
- The assemblage of this product must be made by a competent skilled person in this activity.
- Control if the radiator which you received is a good model and , if it has good dimensions before unpacking. Do not throw the packing before having proved that the small packet containing the linking and assemblage rooms is in your possession.
- We recommend you to take personal security measures in the course of radiator assemblage.

The necessary specifications of the water used in a radiator have to be:

- a) pH: minimum 9,5 - maximum 11,5
- b) Complete hardness: maximum 30 ppm CaCO3
- c) An oil dumping device must be set up on heating circuit to have no air and oxygen presence in the radiator.

Hardness of the water used in the circuit of a central heating should not be higher than aforementioned value. If the hardness of the used water is higher than aforementioned value a corrective action or a treatment will have to be set up. The deterioration of the radiator due to different problems of water cancels the guarantee.

1. Do not unpack radiators in the course of construction work or renovation and as long as painting, coating or other jobs are finished. You can take radiators up, if necessary, without unpacking them.

2. Pay attention to the fact that the products are not thrown on the facedown, in the course of manipulation and assemblage.

Radiators should be carried and assembled without being unpacked. The unpacked radiators must not be carried by being hold by custards aside.

3. The stocking must be made in a ventilated and dry place without unpacking radiators.
4. In the course of stocking, radiators must be stacked by no more than 10 pieces.
5. The maximum functioning pressure of radiators is 10 Bars.
6. Radiators are delivered with assemblage accessories: 3 stoppers, 1 drain and fixing pins with ankles and screw factories. These accessories must have to be assembled in accordance with the figure 1. The fixing pins must be fixed in order to guarantee stability and to support the weight of the filled radiator.
- a) The Warmhaus Radiators Warmhaus have to be assembled by using the delivered fixing pins (See it in the Figure 1).
- b) The position of the fixing pins in comparison with the radiator is noted in the Figure 1. The minimal distance between radiator and floor should not be less than 100 mm.
- c) Having drawn on the wall, the position of the fixing pins and of installed plugs, to take up the lower pins of the radiator. Assembly then, the upper fixing pins without tightening the screws.
7. The warranty period is 10 years from the date of delivery.

ATTENTION THE POSITION OF THE LEGGS OF FIXING MUST RESPECT COAST B OF THE FACE 1 THERE:

- d) After positioning of the radiator, tighten the upper fixing pins.
- e) Assembly the stoppers after the chosen assemblage chosen as well as the stopper drains which will be imperatively on the upper part of the radiator.
- f) Connect the feeding of the installation by taking care to allow these ones to dilate without putting pressure on the radiator.

- g) Put into water and control the absence of escape.
- h) This operation must be performed by a skilled personnel.
- i) The connection pieces must not be tightened in an excessive way.

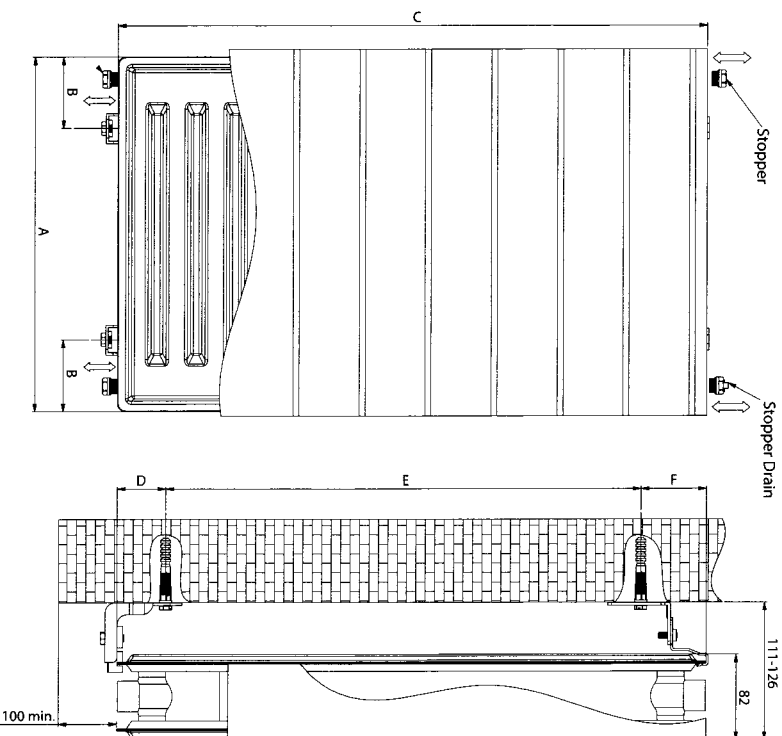
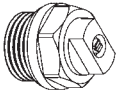
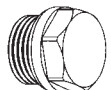


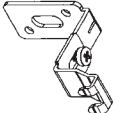
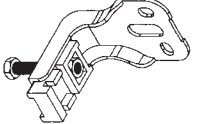


Figure 1 - Measures for a vertical assemblage of a radiator

	A	B
1	300-400	60
2	500-600	90
3	700-750	130
4	900	180

	C	D	E	F
1	1400	40	1305	55
2	1500	40	1405	55
3	1600	40	1505	55
4	1800	40	1705	55
5	2000	40	1905	55
6	2200	40	2105	55

Figure 2 - List of assemblage accessories

	Stopper Drain	1
	Stopper	3
	Screw	4
	Plug	4
	Upper fixation pins	2
	Lower fixation pins	2

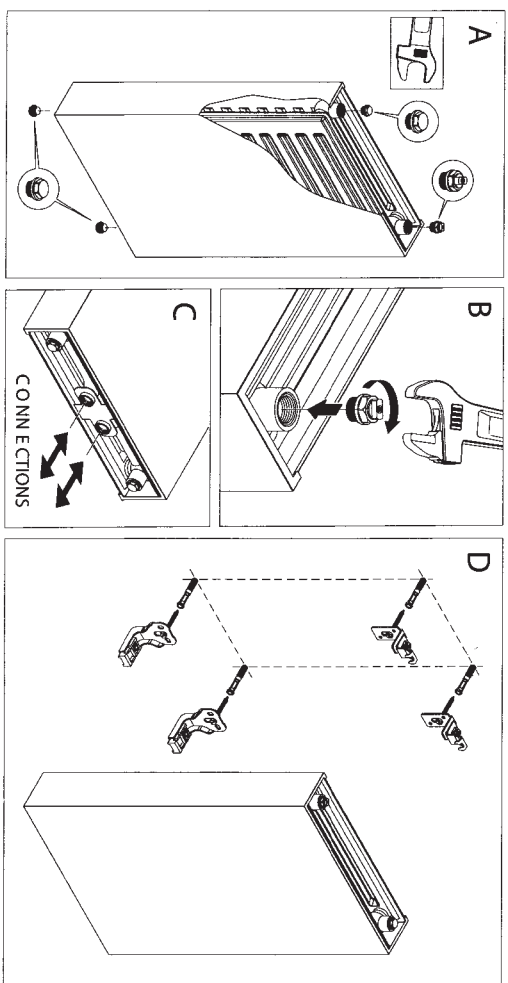
**DYSFUNCTIONS EXCLUDED FROM THE RANGE OF GUARANTEE:**

- Any dysfunction due to a use not in accordance with notice. Any faulty assemblage, any damage and dysfunctions emerging from a faulty installation.
- Any damage and any dysfunctions

dysfunctions resulting from a load, transport, emptying, stocking and assemblage, after delivery of goods.

- Any damage and dysfunctions resulting from external elements such as fire and thunderbolt, inundation and natural disasters.
- Any damage resulting from a use with an installation of which pressure is superior to 10 bars.

Figure 3 – Installation Drawings



- Any coating deterioration due to a cleaning material containing the acidic or corrosive agent.
- In case of outdated delay of guarantee or falsification on the certificate of guarantee.
- Any damage and any dysfunctions emerging from use outside.
- Any dysfunctions caused by a maintenance or repair made by none permitted persons.
- Any deterioration and other damages caused by any long-term stocking in a construction site.
- Any dysfunctions caused by troubles emerging from an installation of conduit and of fittings.
- Any dysfunctions caused by an incompatible use of the product concerning the normal operation pressure between 0.5 and 10 Bars.
- Any damage which could result from the water temperatures of network or of ambient air not between 5°C and 80°C.
- Any deterioration due to a corrosive atmosphere: deficient aeration, steam with chemical agents or other aggressive products.
- Any dysfunctions resulting from a use of the product not correspondent to its destination.
- Any dysfunctions resulting from particles, mud, limestone etc in the water coming from the installations.
- Any damage from frost.