



Co.ma. S.p.a.

COILS MANUFACTURER – BATTERIE RADIANTI



**ASSEMBLY, START-UP AND MAINTENANCE
MANUAL FOR FINNED COILS**

Summary

- Introduction
- Operation
- Installation
- Maintenance
- Warning

Introduction

Please, keep this instruction manual in safe and accessible place.

Before installing coils, carefully read the instruction and information contained herein.

The manufacturer denies any and all responsibility for damage caused to persons or things related to failure to follow the rules and information in this manual.

Operation

- Before beginning any activity please put on all safety equipment (gloves, glasses, etc.) relative to the task at hand.
- Please, use the supports in the frame to move the finned coils. Do not hook anything to the headers and bends.
- To insure a correct functioning of the finned coils, do not damage or crush the fins.
- Special attention must be given to the edges and corners of the frame and the fins of the heat exchanger;
THEY ARE SHARP AND CAN CUT.
- Do not walk under the heat exchanger while it is being moved.

Installation

- Before beginning any activity please put on all safety equipment (gloves, glasses, etc...) relative to the task at hand.
- Leave sufficient space to allow access to the heat exchanger for regular maintenance and/or special servicing.
- For eventual servicing, an assembly using valves and a by pass for fluid drainage is recommended.
- The coil must be completely emptied (where necessary) during the winter months to avoid freezing.
- The installation of adequate filters is recommended to halt the flow of sediment, algae or sand which could block the tubes.
- The headers must be connected to the heat exchanger by flexible couplings to compensate for heat dilation.
- Eliminate any and all types of vibration which could be transferred to the heat exchanger.
Start the heat exchanger slowly.
- To allow the heat exchanger to work correctly and to avoid "at risk" conditions, do not exceed the operating conditions indicated by the manufacturer.
- In case of accidental rupture during normal usage, fluids, gasses or solids may escape the heat exchanger. To avoid damage to persons or things, all necessary precautions must be taken.
- Before installing the heat exchanger, check the **seal** applied to all coils after they have been tested.
- If the seal is missing (it may accidentally come off during transport), request the testing certificate from CO.MA Spa. The coil heat exchanger is in conformity with 97/23/EC.

Maintenance

- Before beginning any activity please put on all safety equipment (gloves, glasses, etc..) relative to the task hand.
- Clean the heat exchanger using only suitable materials (compressed air, high pressure wash, etc.) being careful not to damage the fins.
- To avoid damage to fins made of aluminium or copper, do not use brushes or other such devices for cleaning.
- Do not use steam or hot water clean condensers or direct expansion coils.
- If the fins become bent or crushed for any reason, use the appropriate combs (available in stores or directly from CO.MA. Spa) to straighten them.

Warning

!!!! ATTENTION !!!!

Given that the coils can be used with either extremely high or extremely low temperatures, do not touch the batteries when they are operating.

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