



Co.ma. S.p.a.

COILS MANUFACTURER – BATTERIE RADIANTI



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

Summary

- Introduction
- Handling
- Installation
- Maintenance
- Warning

Introduction

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

Before installation, carefully read instructions, informations and tips 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.

Handling

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

Installation

- Before beginning any activity please wear all safety equipment (gloves, glasses, etc...) relative to the task at hand.
- Leave enough space to allow access to the heat exchanger for regular maintenance and/or special servicing.
- To allow drainage and depressurization of fluid inside tubes, apposite valves and appropriate devices must be installed.
- Add glicole or empty the coil to prevent possibility of freezing.
- The installation of adequate filters is recommended to halt the flow of sediment, algae or sand which could block the tubes.
- To compensate possible dilatations, flexible connections are recommended to connect headers with plant pipes. Eliminate any and all types of vibration which could be transferred to the heat exchanger.
- Piping works should always consider the counterflow between fluids.
- Fill gradually the circuit when restarting to avoid "water hammer".
- Always respect eventual indication on labels for what concern pressure and temperature. To avoid damages to people or things install the heat exchanger in a safe place. In case of high temperature, pressure or dangerous fluid, warning signs must be apply in the nearby.
- In the event of accidental leakage during usage, fluids, gasses or solids may drip from the heat exchanger; to avoid damage to persons or things, all necessary precautions must be taken.
- A **seal** is applied to each coil after they pass the pneumatic test; If missing please ask CO.MA Spa. For test certificate. Each product is manufactured in conformity with 97/23/EC.

Maintenance

- Before beginning any activity please wear all safety equipment (gloves, glasses, etc..) relative to the task hand.
- Clean the heat exchanger using compressed air, high pressure wash, etc... being careful to direct the stream always parallel to the finned block.
- To prevent damage to fin's block do not use hard brushes or mechanical devices for cleaning.
- Do not use steam or water to clean the inside of tubes of condensers and direct expansion coils.
- Bended fins can be combed with the apposite tool available in shops or directly from CO.MA. Spa

Warning

!!!! ATTENTION !!!!

Given that coils can be used with either extremely high or extremely low temperatures, do not touch any surface while operating.

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