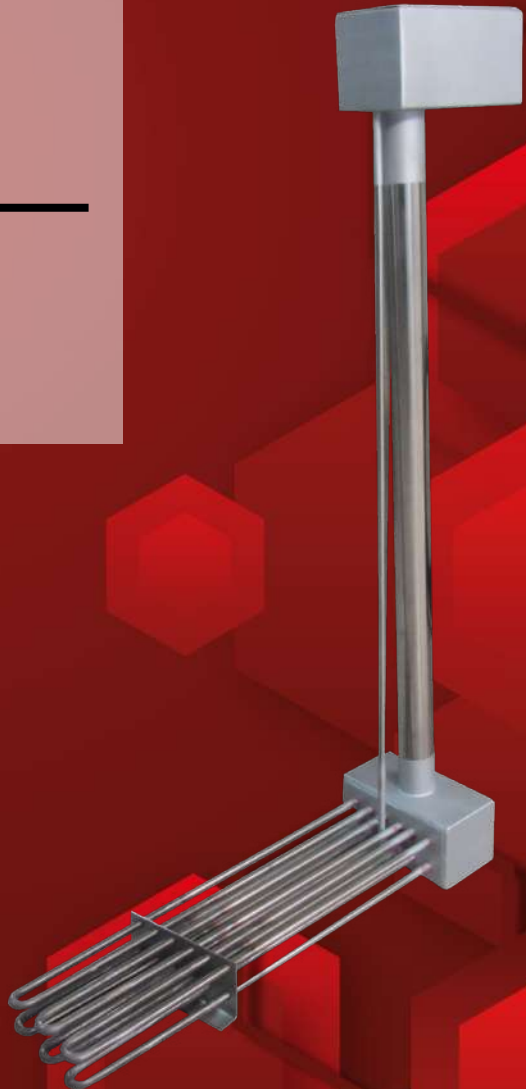




COMIND
INDUSTRIES

USER MANUAL

OVER THE SIDE HEATER



COMIND INDUSTRIES

READ THE INSTRUCTIONS BEFORE
USING YOUR PRODUCT!



This manual prepared and distributed by Comind Industries is intended to convey recommendations, warnings and requirements regarding your purchase and use of the products described below. Visit the Comind Industries website (<https://www.comind.cl/>) or contact Comind customer service for further product information.

To ensure proper use of the product the user should carefully review this Manual.

FAILURE TO COMPLY WITH THE INFORMATION PROVIDED IN THIS MANUAL IMPLIES THAT THE USER ASSUMES ALL RISKS AND LIABILITIES ARISING FROM SUCH FAILURE.

COMIND portable heaters are manufactured to heat large dimensions of tanks or containers according to your specifications. They are custom designed with multiple tubular elements inside the container and with temperature controllers through a panel or directly in the feed box outside the container.

NOTE: This Product is not intended for use in Classified (hazardous) locations.

NOTE: The user shall prevent energized conductors from coming in contact with any fluids or personnel.

BEFORE INSTALLATION, KEEP THE FOLLOWING RECOMMENDATIONS IN MIND

The following are general safety instructions and requirements related to the pre-installation of the product.

Inspect for any damage that occurs during shipping, storage or handling.

If you have any concerns about the condition of the Products, do not install such Products and contact your Comind sales representative before taking further action regarding the Products.

Before installing the Product confirm that the heater in hand is the same as ordered and that it is intended for your use.

CAUTION

Take into consideration the possibility that the heating elements may come into contact with each other during transportation of the equipment. It is important that you check and make the corresponding adjustments before installation.

COMIND recommends the use of a megohmmeter to measure humidity if the equipment has been stored for a long period of time. If the equipment delivers a low resistance value, contact your assigned salesperson immediately.



WARNING

Comind does not recommend bending the heaters. It may be necessary due to atmospheric conditions / humidity to perform a dielectric test prior to start-up. Refer to insulation resistance pre-check (megohmmeter) prior to installation.

WHAT HAPPENS IF THE EQUIPMENT OVERHEATS?

It is essential that the equipment has a temperature controller, either digital or analog, in order to regulate the process and prevent saturation of the heating element.

All equipment should have a temperature limiter which should be adjusted according to user requirements. These should operate in parallel with the temperature control in order to interrupt the power supply circuit of the equipment if it suffers any overheating.

ELECTRICAL CONNECTIONS

All COMIND portable heating equipment has an electrical connection protection box which is determined by the user according to his requirements.

It is recommended to keep the junction box below 50°C unless otherwise specified by the customer.

INSTALLATION

To ensure the correct operation of the equipment, it is extremely important that it is correctly installed.

For proper heat transfer it is extremely important to position the heater according to its manufacturing orientation. COMIND recommends that the user should exercise the utmost caution when positioning the heating element in the vessel when bonding.

It is necessary to take into consideration the material accumulated at the bottom of the tank in order not to touch the equipment with these components.

Figures n°1, n°2 and n°3 illustrate the correct installation method, taking into consideration the liquid in the tank, the space for the junction box and the distance of the heating equipment from the bottom of the container.

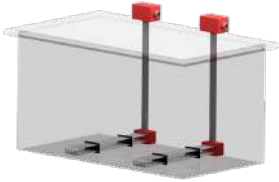


Figure n°1

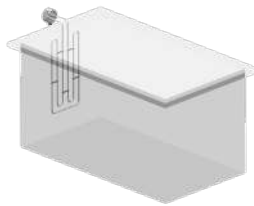


Figure n°2

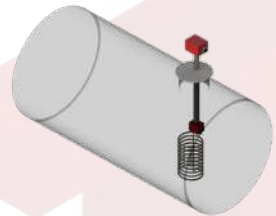


Figure n°3



WARNING

The user must ensure that the installer uses all PPE (personal protective equipment).

Product warranty

COMIND Industries warrants these products to be free from defects in materials and workmanship for a period of 6 months from the date of shipment. If this product proves defective during its warranty period, COMIND will repair the product at no additional charge, or provide a replacement in exchange for the defective product.

This warranty shall not apply to any defect, failure or damage caused by improper use or maintenance.