

Heat Tracing Vessel

Product Coding
P6XXXXXXXX

Introduction

Heat tracing vessels are engineered to maintain the temperature of process fluids that are sensitive to cooling, solidification, crystallization, or viscosity increase. These vessels are equipped with integrated heating circuits such as steam tracing coils, electrical heat tracing cables, or thermal oil jackets that ensure continuous and uniform heat transfer across the vessel shell.

In oil, gas, petrochemical, chemical, and specialty processing plants, many products such as heavy hydrocarbons, waxes, bitumen blends, polymers, resins, and certain chemical solutions require precise temperature control to remain pumpable and chemically stable. The heat tracing vessel package provides a reliable solution to these challenges, allowing safe storage, conditioning, reaction, or blending under controlled thermal conditions.

Our heat tracing vessels are designed and manufactured in compliance with international pressure vessel standards, including ASME Section VIII, and are customized according to the specific thermal, mechanical, and process requirements of each project.

Process Overview

The heat tracing vessel package operates by circulating a heating medium, such as saturated steam, hot water, or thermal oil, through tracing coils or jackets mounted externally or internally on the vessel shell. In electrically traced designs, self regulating or constant wattage heating cables are applied in controlled zones.

Typical Process Flow:

- **Fluid inlet:** The process fluid enters the vessel at a lower temperature or begins to cool during storage.

- **Heat tracing activation:** The heating medium flows through the tracing system or electric circuits are energized.
- **Heat transfer:** Heat is transferred through the vessel wall uniformly, preventing cold spots.
- **Temperature control:** Sensors and control valves maintain the set temperature range.
- **Fluid outlet:** The conditioned fluid exits the vessel at the required viscosity and temperature for downstream operations.

This controlled heating method prevents plugging, improves process stability, and ensures continuous operation without manual intervention.

Features

- Uniform heating design
- Flexible heating media:
- High quality materials
- Thermal insulation and cladding
- Compliance with international codes

Applications

- Crude oil dehydration and conditioning units
- Heavy hydrocarbon and wax handling systems
- Polymer and resin production plants
- Sulfur handling and molten sulfur storage



Tel.: +98 21 88686942-3
Fax: +98 21 88686168
Sales@euroslot-pars.com



www.euroslot-pars.com
Linkedin.com/in/euroslot-pars-6a11123ab
Youtube.com/@Euroslot-pars



Office: No. 2, Unit 2, East 32nd
(East Qeysari) St., South Allameh Ave.,
Sa'adat Abad Area, Tehran, Iran