

# Termomix<sup>®</sup> Paddle Dryer/ Reactor



*Termomix<sup>®</sup> vacuum paddle dryers / reactors.*

- Economic, robust multipurpose machine for heavy industrial applications.
- Suitable for use as mixer, reactor, precipitator and dryer, for vacuum and/or for pressure applications as per the requirements.
- Calculation, design and manufacture in accordance with **ASME** pressure vessel code, Section VIII, with **U-Stamp** and/or **Pressure Equipment Directive (PED) 97/23/EC**.
- Large heating area resulting in an outstanding heat transfer rate by heating the vessel walls, the vessel ends as well as the agitator shaft and arms.
- Shaft sealing with stuffing boxes or with liquid lubricated double mechanical seals, externally interchangeable.
- Good discharge characteristics due to narrow agitator to wall clearances and a special agitator blade design.

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## Applications for the Termomix<sup>®</sup> vacuum paddle dryers/reactors

The **Termomix**<sup>®</sup> vacuum paddle dryer/reactor is intended for monoproduction applications or bulk production facilities as mixer, reactor, precipitator and dryer.

The agitator is supported on both ends providing excellent mixing characteristics, with externally interchangeable stuffing boxes or mechanical seals.

Economic and robust multipurpose machine well suited for heavy industrial applications.

## Typical design parameters for Termomix<sup>®</sup> vacuum paddle dryers/reactors

Product volume:	1,000 – 40,000 liters
Operating temperature:	–10 to 151°C (15 to 300°F) or per requirements
Operating pressure:	–1 to +0.45 bar (g) (FV to 6.5 psig) or per requirements
Product wetted materials:	Stainless steels, Nickel based alloys such as Hastelloy C 22 or Alloy 59, Titanium, etc., Sealing materials: PTFE gaskets, O-Rings in FFKM or FEP encapsulated
Area classification:	EC type examination certificate 03ATEX0245X per the 94/9/EC directive, or with electrical components UL approved for operation in a Class I, Division 1 or 2, Groups C&D environment
Heated areas:	All product wetted components, including agitator shaft, arms and blades
Accessories:	Dust filter with automatic back cleaning, sampling valve, CIP system, sight glass with vessel light, vacuum system with condenser, heating and cooling unit etc.
Controls:	Control cabinet with PLC, HMI with touch screen, MCC, interface for DCS

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