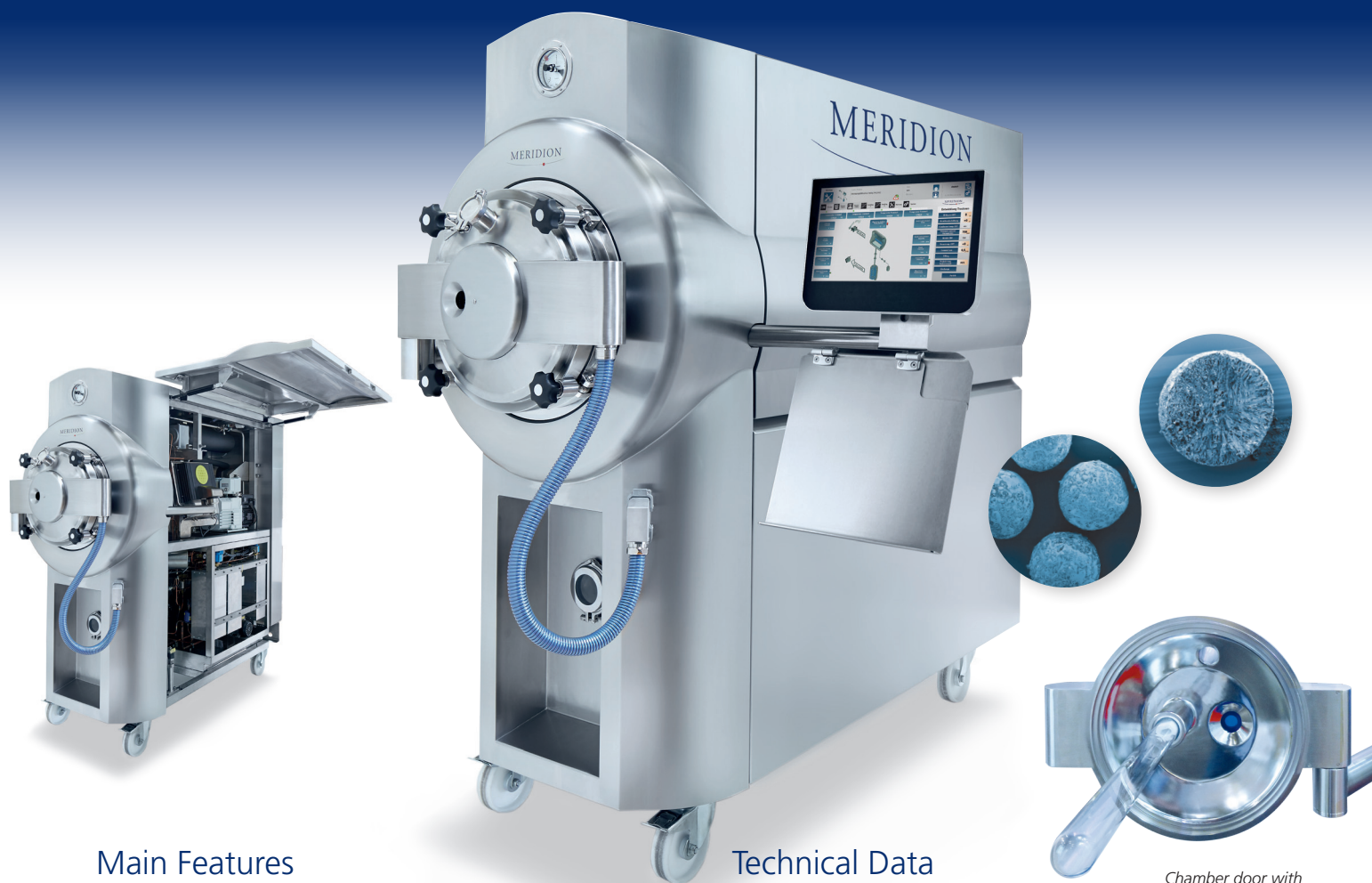


MERIDION LyoMotion LAB: DYNAMIC FREEZE DRYING IN LAB SCALE



Main Features

- Dynamic freeze drying of frozen bulkware (0.3 l – 2 l)
- Fully contained unit with
 - vacuum process chamber, (incl. rotating drum & drive)
 - chiller (2 stage)
 - condenser (- 75°C)
 - vacuum pump
 - IR radiator
 - internal discharge
- Control System fully SCADA based, HMI: 15" Touchscreen

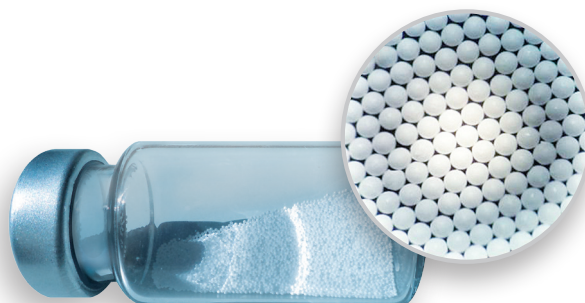
OPTIONS:

- WiP/CiP nozzles for contained cleaning
- GN₂ inertization of process chamber
- Double wall drum for cooling/heating w. silicone oil loop (- 50 °C ... + 50 °C)
- Contained charging, discharging with split butterfly valve
- Automated in-Process-sampling out of vacuum

Technical Data

- Dimension (approx.) in mm
790 x 2220 x 1990 (W x L x H)
- Weight: approx. 950 kg
- Compressed air consumption: 5 m³/h (6 bar)
- Cooling Water consumption:
during cooling down max. ca. 20 l/min,
ca. 5l/min during process
- 400 V AC/max. approx. 5 kW

*Chamber door with
IR heating unit*



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T E C H N O L O G I E S