



Technical Data SHEET

Redefining Excellence in Metal Powder Production
Powder Sizes 5-100 μm



Product Name:

FLUIDISED BED REACTOR

Product Code:

FLO-BED75HT

Product Description:

The 75HT fluidised bed reactor is designed for processing small quantities of powder, with a capacity of 2.5 kg (steel equivalent). The standard model is optimised for the heat treatment of powders, ensuring uniform processing and effective particle mixing within the fluidised bed reactor. This design maintains a consistent temperature throughout the material, enhancing process efficiency.

Parameter	Value
Melt Capacity	2.5kg Steel, Copper, Nickel; 1.0kg Aluminium; 0.7kg Magnesium
Material Composition	Al, Fe, Cu, Ag, Au, Mg, Ni, Pa, Sn, Be, Co, Pb, Si
Quench Rate	10^{-5} to 10^{-6} Ks ⁻¹
Powder Collection	Cyclone and Removable Hopper
System Dimensions	2067 x 1960 x 711 mm
System Weight	1000kg



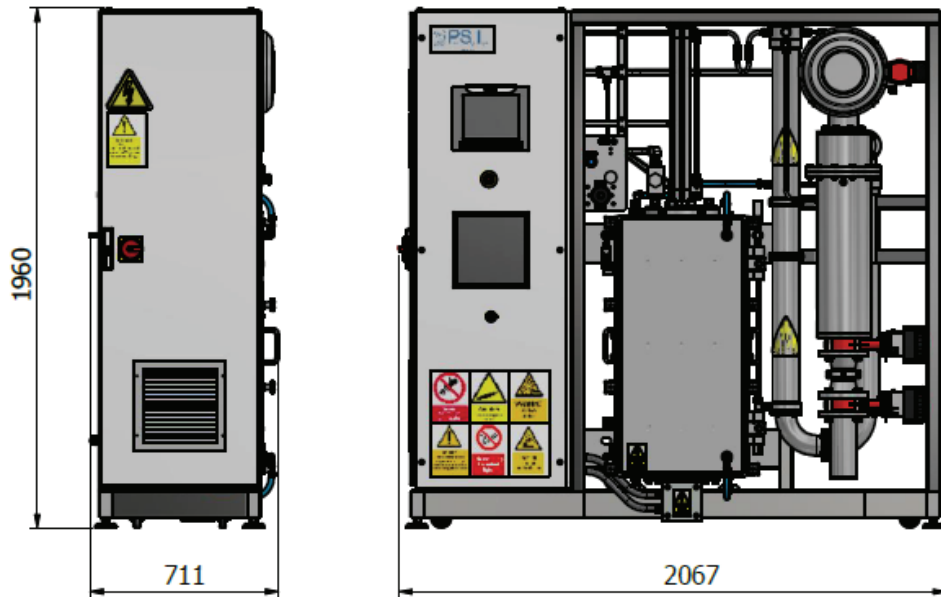
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Parameter	Value
Ambient Temperature	+5°C to +40°C
Relative Humidity	5-95% Without Condensation
HMI/PLC	10" LCD Screen
Gas Analysis	O ₂ Monitoring Available
Power Requirements	380-415V; 3-Phase; 50-60Hz
Gas Requirements	Argon, Helium or Nitrogen; 10-210 Bar; >99.95%
Water Requirements	2-3 barg; 10L/min; 15-20°C
Vacuum Level	1x10 ⁻¹ mbar to 0.5 barg overpressure

Additionally, the system can be upgraded with a Chemical Vapor Deposition (CVD) module for powder coating at temperatures up to 1100°C. An optional Oxygen Reduction module can also be integrated, enabling oxide reduction capabilities.



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