



Technical Data SHEET

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



Product Name:

FLUIDISED BED REACTOR

Product Code:

FLO-BED235HT

Product Description:

The 235HT fluidised bed reactor is designed for large-scale powder processing, with a capacity of 100 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. This design maintains a consistent temperature throughout the material, enhancing process efficiency.

Parameter	Value
Melt Capacity	100kg Steel, Copper, Nickel; 40kg Aluminium; 30kg 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	3785 x 4178 x 3160 mm
System Weight	1500kg



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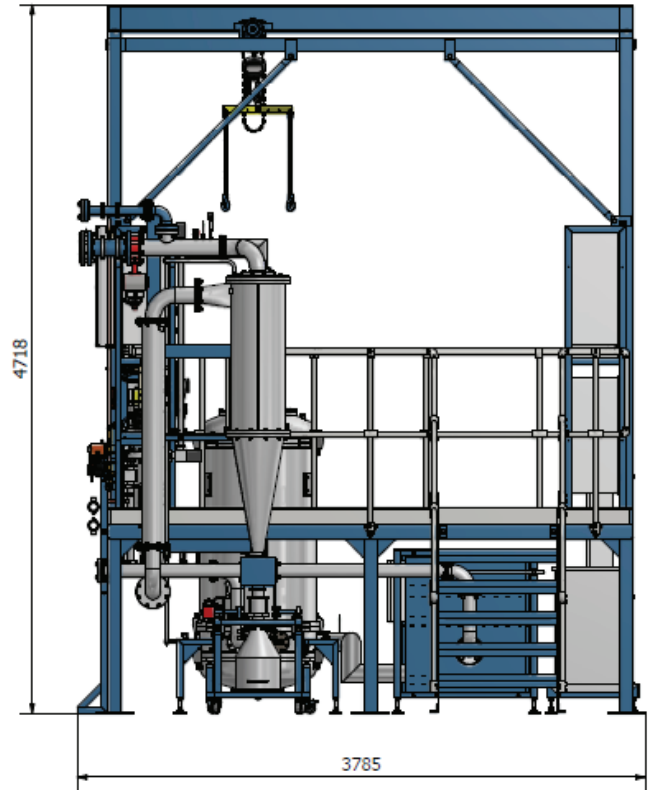
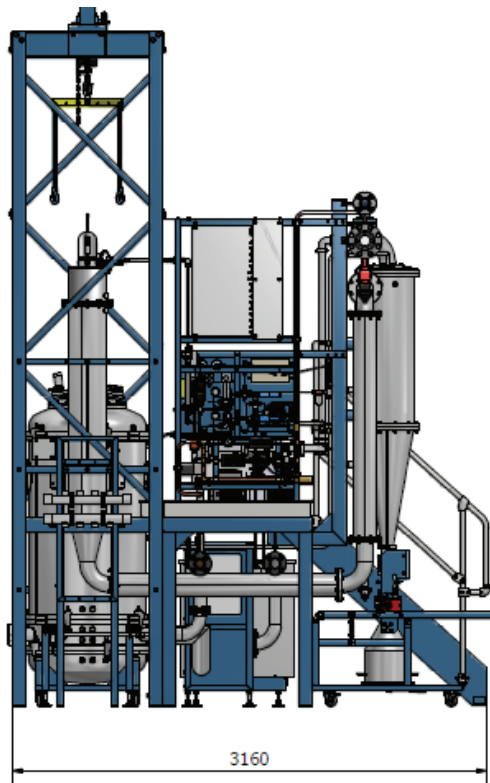
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Parameter	Value
Ambient Temperature	+5°C to +40°C
Relative Humidity	5-95% Without Condensation
HMI/PLC	10" LCD Screen
Gas Analysis	O ₂ Monitoring Available
Power Requirements	380-415V; 3-Phase; 50-60Hz
Gas Requirements	Argon, Helium or Nitrogen; 10-210 Bar; >99.95%
Water Requirements	2-3 barg; 45L/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 1200°C. An optional Oxygen Reduction module can also be integrated, enabling oxide reduction capabilities.



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