



HERMIGA 75/5 VI EAC ATOMISER

The HERMIGA 75/5 VI EAC atomiser uses the same close-coupled die technology as PSI's production-scale systems; accordingly fine powder production down to 10 microns median with rapid solidification rates in the region of 10^5 to 10^6 Ksec⁻¹ are possible.

The 75/5 EAC has an extended length atomisation chamber to ensure solidification of the powder atomised with the superheated gas option selected to reduce median sizes. It also benefits from PSI's unique geometry die design allowing the consistent and reproducible production of high quality spherical metal powders.

The range of options shown below is available to tailor the atomiser to a customers specific requirements.

- Oxygen monitoring systems
- Video monitoring system
- Rapid solidification options
- Spray manipulator options
- Gas superheating system
- Melt charging system
- Gas supply rack to enable processing using different inert gases such as
 - Argon
 - Helium
 - Nitrogen

See overleaf



HERMIGA 75/5 VI EAC

A capable, sophisticated and user friendly extended chamber atomiser for R&D / research environments.

PSI



Phoenix Scientific

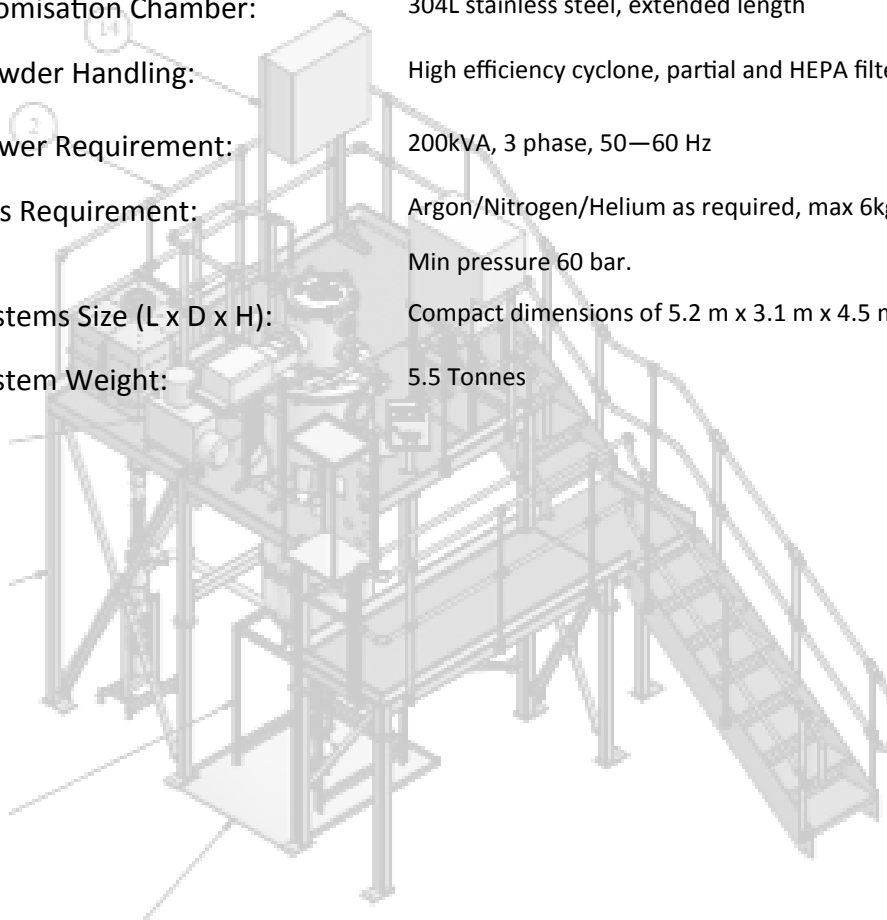
Industries

High performance process solutions

HERMIGA 75/5 VI EAC ATOMISER

Typical system data

| | |
|------------------------------|---|
| Crucible Type: | Induction heated crucible |
| Crucible Capacity: | 0.7 litre (approximately 5 kg steel) |
| Atomisation Die Type: | Supersonic invariable type 'close-coupled' die |
| Atomisation Rate: | Typically 2kg/minute steel |
| Typical Median (d_{50}): | 10–100 μm |
| Melt Chamber: | Top opening, water cooled, 304L stainless steel |
| Atomisation Chamber: | 304L stainless steel, extended length |
| Powder Handling: | High efficiency cyclone, partial and HEPA filters |
| Power Requirement: | 200kVA, 3 phase, 50–60 Hz |
| Gas Requirement: | Argon/Nitrogen/Helium as required, max 6kg/min. Min pressure 60 bar. |
| Systems Size (L x D x H): | Compact dimensions of 5.2 m x 3.1 m x 4.5 m |
| System Weight: | 5.5 Tonnes |



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Document Reference: Y:\MASTERS\MASTER SPECS\Hermiga 75\B5 HERMIGA 75 5 EAC - Rev 1.pub