

ARGON WELDING CHAMBER



The Argon welding chamber consists of a framework mounted, stainless steel, rear opening vacuum chamber, vacuum pump and control module.

The chamber is fitted with glove and view ports suitably positioned for welding operations on both sides of the chamber.

Once loaded, the chamber is evacuated, using the attached Edwards E2M80 vacuum pump, to a preset vacuum level.

An electro-pneumatic, Quarter swing Butterfly Valve (63 ISO-K flange) is used to isolate the pump from the chamber.

The chamber is backfilled with Argon gas to a preset positive pressure.

The control system will monitor and maintain the chamber internal pressure during the welding process. The control system will automatically compensate for changes in the ambient atmospheric pressure using a differential transducer.

Argon Welding Chamber

TECHNICAL SPECIFICATION

Internal dimensions	1060 x 1075 x 792mm (w x d x h)
Material	316 Stainless steel
Internal finish	240 grit
External finish	240 grit
Door opening (viewed from front)	Hinged on LHS
Door seal material	Silicon rubber
Vacuum pump	Edwards E2M80
Vacuum pumping speed	80 m ³ /hr
Ultimate vacuum attainable	0.05mb
Evacuation time	Atmosphere – 1 mbar.....approximately 5 mins 20 mbar to 0.05 mbar.....approximately 5 mins
Isolation valve	Quarter Swing Butterfly valve, 63 ISO-K
Digital Displays	Vacuum pressure and Argon pressure
Electrical services required	415v 3 ph 50 Hz 16 amps

MechaTech Systems provide installation, commissioning, end user training, after-sales service and support. A comprehensive Factory Acceptance Testing programme is submitted to the client for approval. Full design, installation and operational qualification support can be undertaken in the presence of the client.

MechaTech Systems specialise in the design and manufacture of high vacuum systems. Their portfolio includes the LyoScience (LS) range of freeze dryers, the Hyscan II gas analyser, and a range of bespoke high vacuum systems and scientific instruments.

enquiries@mechatechsystems.co.uk +44 (0) 1454 414723

MechaTech Systems Ltd, Unit 9 Brunel Way, Thornbury Industrial Estate, Thornbury, Bristol, UK. BS35 3UR. Registered in England and Wales No. 6469333

