

# M600 Helium Compressor

Based on proven scroll compressor technology, the Austin Scientific M600 air or water cooled helium compressors are highly versatile, with particular focus on ease of installation and maintenance.

## Multiple pump configurations

M600 series can easily produce sufficient cooling to run multiple cryopumps for cluster tool and other applications

- 60 scfm helium throughput
- Efficiently drives single or multiple pump configurations
  - Three CP-8 or CP-8 Low Profile pumps
  - Two CP-10 cryopumps
  - Standard, APD, Leybold drive units
- Fully interchangeable and compatible with Helix Cryotorr ® pumps
- M600-OB specifically configured for Helix ® On- Board pumps.

## Proven reliability

Deployed for five years in production environments globally running multiple Austin Scientific and competitor pumps

- Air and water versions with equal reliability and cooling capacity
- High and low voltage versions at 50 and 60 Hz.
- Small footprint
  - Water (H-21" x W-17.25" x D-19.75")
  - Air (H-26" x W-17.5" x D-32")
- Quiet with low vibration - ideal for semiconductor, industrial and coating customers
- Designed with all utilities on the front of the unit, allowing convenient rack or cabinet installation and easy routine maintenance

## Diagnostics

- Built in water flow meter displays flow and cooling water condition.
- Individual supply and return pressure gauges provide better diagnostics
- Compressor can be controlled and monitored remotely

## Maintenance

- Adsorber change is simplified with removable front panel - no need to remove multiple covers.
- Electrical box is modular and is a field replaceable unit



### M600 Series Specification

Helium Flow 60 SCFM  
Static Helium Charge 240 psi (+/-5 psi)

#### Power

Operating Voltage  
3 Phase 50Hz or 60Hz  
Low Voltage - 190-260 Vac  
High Voltage - 345-525 Vac

Power Consumption  
9kw  
9kw

### M600W - Water Cooled Helium Compressor

Minimum required water flow 1.5 gallons/min  
Maximum Water Temperature 40F - 85F  
Dimensions H21" x W17.25" x D19.75"  
Weight 260 lbs

### M600A - Air Cooled Helium Compressor

Temperature Operating Range 65F - 105F  
Dimensions H26" x W17.25" x D32"  
Weight 300 lbs

### Multiple Pump / Compressor Configuration Matrix

	M125-W	M125-A	M600-W	M600-A
Austin Scientific - CP8	1	1	3	3
Austin Scientific - CP10			2	2
Austin Scientific - CP16			1	1
Helix - CTI - CT-8/CT-8OB	1	1	3	3
Helix - CTI - CT-10/CT10OB			2	2
Helix - CTI - CT-400			1	1
Helix - CTI - CT-500			1	1

Number of pumps supported per compressor

## Oxford Instruments

### Austin Scientific

#### USA

4114 Todd Lane  
Austin, Texas 78744  
Tel: +1 (512) 441 6893  
Fax: +1 (512) 443 6665  
Email: mail@austinscientific.com

#### USA

500 Laurelwood Rd.  
Number 9  
Santa Clara  
California, 95054  
Tel: +1 (408) 496 0782  
Fax: +1 (408) 496 0785  
Email: mail@austinscientific.com

#### USA

Concord, MA  
Tel: +1 (978) 369 9933  
Fax: +1 (978) 369 8287  
Email: cs@ma.oxinst.com

#### UK

Tubney Woods, Abingdon  
Oxfordshire OX13 5QX  
Tel: +44 (0) 1865 393 200  
Fax: +44 (0) 1865 393 333  
Email: superconductivity@oxinst.co.uk

#### China

14 F, No. 1 Plaza  
800 Nanjing East Road  
Shanghai, 200001, China  
Email: info@oichina.cn

#### Japan

Tokyo  
Tel: +81 (0) 3 5245 3591  
Fax: +81 (0) 3 5245 4466/4477  
Email: oikkma@oxinst.co.jp

[www.oxford-instruments.com](http://www.oxford-instruments.com)

Oxford Instruments UK, operates Quality Management Systems approved to the requirements of BS EN ISO 9001. This publication is the copyright of Oxford Instruments Analytical Limited and provides outline information only which (unless agreed by the company in writing) may not be used, applied or reproduced for any purpose or form part of any order or contract or be regarded as a representation relating to the products or services concerned. Oxford Instruments' policy is one of continued improvement. The company reserves the right to alter, without notice, the specification, design or conditions of supply of any product or service. Oxford Instruments acknowledges all trade marks and registrations.

