

MARATHON® CP SERIES CRYOPUMPS



CP-8LP



CP-250LP



CP-8



CP-12



CP-16



CP-20

Performance Specifications

	CP-8	CP-8LP	CP-250LP	CP-12	CP-16	CP-20
Air (liters/second)	1,500	1,800	3,000	3,600	4,800	9,700
Water (liters/second)	4,200	4,200	6,300	9,560	17,300	29,100
Argon (liters/second)	1,250	1,500	2,500	3,100	4,100	8,300
Hydrogen (liters/second)	2,300	3,000	5,000	7,300	12,000	14,000
Argon Throughput (torr liters/second)	11.0	11.0	11.0	12.6	11.4	11.3
Argon Capacity (standard liters)	1,200	1,600	1,600	3,100	5,500	6,000
Hydrogen Capacity (standard liters)	25	23	30	50	50	33
Crossover Rating (torr-liters)	220	220	300	650	500	400

Marathon® CP Series Cryopumps from SHI Cryogenics Group are specifically designed to meet the needs of high vacuum processes. Applications for these versatile systems range from custom laboratory equipment to industrial-scale tools. Manufacturers of semiconductor devices, flat panel displays, test equipment, solar manufacturing and a wide variety of coating and thermal vacuum systems require efficient, reliable and robust systems that offer a low cost of ownership. The Marathon CP Series Cryopumps from SHI Cryogenics Group deliver on all fronts.

A range of standard and low profile enclosures, ANSI, ISO and CF flanges, as well as manual and fully automatic features, ensure that users have modularity and flexibility to choose from when designing their systems.

All Marathon CP Series Cryopumps are driven by highly-efficient and reliable helium compressors. These compressors boast an industry leading 30,000 hour maintenance interval. Compressors are available in single-phase and three-phase, low and high voltage versions.

For those users requiring the latest in efficient, fully-automated operation, SHI Cryogenics Group offers our Marathon Cryopump Controller (MCC). The MCC enables fully automatic operation of the cryopump using commands from a host computer and industry standard cryopump protocol. If you do not utilize a host computer, optional software is available to interface the MCC to a standard Windows-based computer. The result of utilizing the Marathon CP Cryopump with MCC is greatly reduced downtime between production cycles, improved process times and better overall efficiency of the user's process.

All Marathon CP Series Cryopumps are supported by a worldwide sales and support network. They can be readily maintained without breaking vacuum or removing the cryopump from the chamber for return or replacement. As a result, serviceability maximizes production uptime and lowers the total cost of ownership.

Asia

Sumitomo Heavy Industries, Ltd.
ThinkPark Tower
Cryogenics Division, Sales Department
1-1, Osaki 2-Chome, Shinagawa-Ku
Tokyo 141-6025, Japan
Phone: +81-3-6737-2550
Fax: +81-3-6866-5114
E-mail: cryo@shi.co.jp

Sumitomo (SHI) Cryogenics Shanghai, Ltd.
Building 15
Lane 333 Zhujian Road
Minhang District
Shanghai 201107, P.R. China
Phone: +86-21-5486-6318
Fax: +86-21-5486-0065
E-mail: ZCryo_ChinaSales@shi.co.jp

Sumitomo (SHI) Cryogenics Korea Co., Ltd.
3F, 280-3, Saneop-ro
155beon-gil, Gweonseon-Gu
Suwon-Si, Gyeonggi-Do, South Korea
Phone: +82-31-278-3050
Fax: +82-31-278-3053
E-mail: Won_Bum_Lee@shi.co.jp

Cryogenics Division, Service Department
2-1-1, Yato-cho, Nishitokyo-city
Tokyo 188-8585, Japan
Phone: +81-42-468-4265
Fax: +81-42-468-4254
E-mail: cryo_service@shi.co.jp

Sumitomo (SHI) Cryogenics Taiwan Co., Ltd.
4th Floor, No. 3
Lane 216, Gongyuan Rd.
Hsinchu City 300, Taiwan ROC
Phone: +886 3 561 2557
Fax: +886 3 562 3400

United States

Sumitomo (SHI) Cryogenics of America, Inc.
1833 Vultee Street
Allentown, PA 18103
Phone: +1 610-791-6700
Fax: +1 610-791-0440
E-mail: sales@shicryogenics.com

Sumitomo (SHI) Cryogenics of America, Inc.
1800 Wyatt Drive
Suite 13
Santa Clara, CA 95054
Phone: +1 408-736-4406
Fax: +1 408-736-7325

Sumitomo (SHI) Cryogenics of America, Inc.
1500-C Higgins Road
Elk Grove Village, IL 60007
Phone: +1 847-290-5801
Fax: +1 847-290-1984

Europe

Sumitomo (SHI) Cryogenics of Europe, Ltd.
3 Hamilton Close, Houndmills Industrial Estate
Basingstoke, Hampshire RG21 6YT
United Kingdom
Phone: +44 (0) 1256 853333
Fax: +44 (0) 1256 471507
E-mail: uksales@shicryogenics.co.uk

Sumitomo (SHI) Cryogenics of Europe, GmbH
Daimlerweg 5a
Darmstadt D-64293, Germany
Phone: +49 (0) 6151 860 610
Fax: +49 (0) 6151 800 252
E-mail: contact@sumitomocryo.de

World Wide Web: www.shicryogenics.com