



Cryo-Torr® Cryopumps

*The Original:
As Dependable As Ever.*



Cryo-Torr® Cryopumps

Cryo-Torr Cryopumps . . .
still as dependable and economical as ever.

- Solid performance
- Perfect for laboratory and industrial applications
- Clean, dependable vacuum
- Low cost
- Backed by GUTS® 24-hour global support

The Original: As dependable as ever.

Brooks' Cryogenics Cryo-Torr® cryopumps are the rugged, dependable high vacuum pumps that helped make possible the explosive early growth of today's semiconductor business in the 1980s.

Today, Cryo-Torr pumps still pack great performance into a package that's perfect for laboratory and industrial applications where quality, dependability and low cost are key requirements.

If your application calls for dependable vacuum, Cryo-Torr pumps will give you the throughput and rugged dependability you expect – at an economical price.

Because they deliver the highest gas pumping speeds of any high vacuum technology, cryopumps are ideal for processes requiring fast pumping of inert, non-toxic, or non-corrosive gases. Cryopumps capture molecules onto cryogenically cooled surfaces, removing them from the process environment. Cryopumps have no moving parts and no oils exposed to your process, enabling them to generate clean, reliable vacuum quickly and dependably.

Cryo-Torr® Configurability

Brooks was first to offer both a “flat” Cryo-Torr cryopump configuration for low-profile applications, and a “straight” configuration for traditional applications. Cryo-Torr cryopump sizes range from 4-inch to 400mm flange inner diameters (ID). In addition, custom configurations are available for ultra-high vacuum applications.

In fact, Brooks has a number of specialized cryopump configurations from which to choose. Chances are we have the right pump to meet your requirements.

We also offer a full palette of peripherals so you can complete your Cryo-Torr configuration quickly.

Some of the accessories available to support the integration of Cryo-Torr Cryopumps are:

- Helium Compressors
- Helium Flex Lines
- Vacuum Valves
- Regeneration Accessories
- Cables
- Temperature Indicators



*Cryo-Torr 4F Cryopump
(flat configuration)*



*Cryo-Torr 10 Cryopump
(straight configuration)*



Cryo-Torr 8F Cryopump (flat configuration)

Cryo-Torr® pumps are backed by GUTS® – and The Power of Blue

When you need vacuum, you don't want to wait for it.

That's why you can call our GUTS line around the clock, around the world to get knowledgeable help in a hurry. We'll either get you up and running through phone support or, in 59 minutes or less, a part, component, or experienced service professional is on the way.

Our GUTS rapid response system delivers unsurpassed responsiveness worldwide to any vacuum problem. Every call to our GUTS line is answered by a capable, empowered Brooks employee with the resources to diagnose customer problems quickly and accurately. Our commitment is to get your system back on-line quickly.

Cryo-Torr Cryopumps

Cryo-Torr Pump Model			4F	8	8F	250F	10	10F	400
Configuration			Flat	Straight	Flat	Flat	Straight	Flat	Straight
Vacuum Flange ID (Metal Seal, ANSI, ISO)			100 mm	200 mm	200 mm	250 mm	290 mm	300 mm	400 mm
Gas Pumping Speeds									
	Water	Liters/Sec	1,100	4,000	4,000	6,500	9,000	9,500	16,000
	Air	Liters/Sec	370	1,500	1,500	2,200	3,000	3,600	6,000
	Hydrogen	Liters/Sec	370	2,500	2,200	3,200	5,000	6,000	5,000
	Argon	Liters/Sec	310	1,200	1,200	1,800	2,500	3,000	5,000
Gas Capacities									
	Hydrogen	Standard Liters	3	17	8	16	24	24	15
	Argon	Standard Liters	210	1,000	1,000	1,000	2,000	2,000	2,500
Throughput									
	Argon	Sccm	700	700	700	700	1,500	1,500	500
	Argon	Torr-Liters/Sec	9	9	9	9	19	19	6
Crossover									
		Torr-Liters	100	150	150	150	300	300	300
Cooldown Time									
	60 Hertz		75 min	90 min	90 min	100 min	100 min	100 min	150 min
	50 Hertz		90 min	110 min	110 min	120 min	120 min	120 min	180 min
Cryopump Weight									
	Lbs		37	45	42	48	85	90	160
	Kg		17	20	19	22	39	41	73

Standard products shown. Please contact Brooks for custom cryopump configurations and specifications.

Brooks: *Delivering The Power of Blue*

Why is it that Brooks vacuum systems deliver more dependable production hours worldwide every day than everyone else combined? Perhaps it's our innovative, extraordinarily productive technology—whether it's a CTI-Cryogenics Cryo-Torr cryopump or Granville-Phillips vacuum gauge. But we think it's *The Power of Blue*: our total corporate commitment to deliver not only superior technology, but also unmatched performance, world-class global support, products and infrastructure and an expectation of “no surprises” — ever.

Our commitment to excellence begins the first time we speak with you and *that commitment never changes*. When you buy ‘the blue label’ you get a powerful global infrastructure of competent, committed support to ensure that all Brooks products deliver the performance and reliability you expect — always. Let our Brooks cryogenic vacuum pumping and measurement experts show you first-hand what total customer satisfaction is all about.

At Brooks Automation's Customer Support, meeting your expectations is never enough. Our mission is to exceed expectations in all areas of customer responsiveness. From the industry standard of GUTS® to the pioneering e-Diagnostic implementation of GOLDLink® Support, Brooks is committed to serving you with the most advanced, innovative, highly productive tools available.

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