CapaciTorr® D 2000



The CapaciTorr® D 2000 pump is based on high performance SAES® St 172 sintered porous getter disks. The getter cartridge is provided separately from the CF100 or CF150 base flange, which incorporates a built-in heater that directly connects to the flange power feedthrough.

The pump is equipped with a K-type thermocouple electrically insulated within an alumina tube, for optimal temperature control during conditioning and activation.

The CapaciTorr D 2000 pump offers its best performance when installed directly in the vacuum system using the standard CF100 or CF150 flange. Alternatively, the pump can be installed as an appendage using an optional pump body.

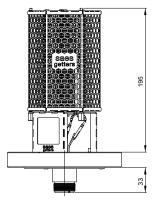
HIGHLIGHTS

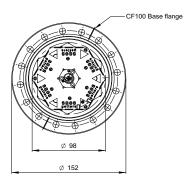
General Features

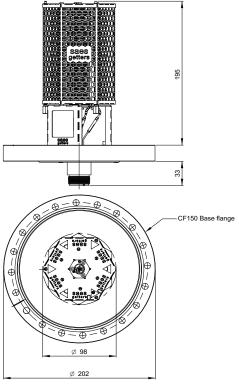
- > Extremely compact and low weight
- High pumping speed for all active gases
- > High sorption capacity and lifetime
- Constant pumping speed in UHV and XHV
- Operation at room temperature without power after activation
- > Oil free and vibration free
- Operation in presence of high magnetic fields
- > Reversible pumping of hydrogen and its isotopes

Applications

- Improving ultimate vacuum in combination with ion, diffusion, cryogenic or turbomolecular pumps
- > Particle accelerators, synchrotron radiation sources
- Scanning/Transmission electron microscopes
- > Portable vacuum instrumentation
- > Surface analysis systems
- > Process pumps for vacuum devices and deposition chambers
- > Pumping, storing and releasing hydrogen isotopes



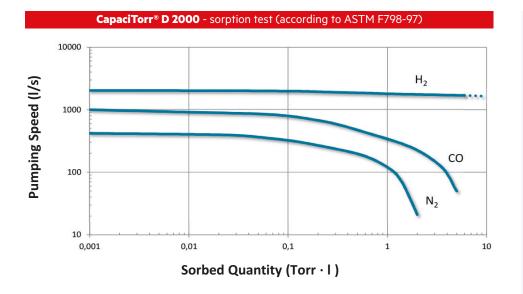




Dimensions in mm



CapaciTorr® D 2000



Typical Pump Characte	CapaciTorr D 2000	
Alloy Type		St 172
Alloy Composition		Zr V Fe
Getter Mass (g)		225
Getter Surface (cm²)		1900
Activation Power (W)		500
Pumping Speed (I/s)	H ₂	2000
	H ₂ O	1600
	N ₂	420
	СО	1000
Sorption Capacity (Torr•I)	H ₂	2250
	H ₂ O	84
	N ₂	2
	СО	5

Note: The activation power are referred to the "nude" configuration (NEG cartridge completely immersed in the vacuum chamber).

The values for H₂O are estimated.

Capacity based on speed at 5% of the initial value in nude configuration.

>100 reactivations (sorption cycles) are possible.

Ordering Information			
Product	Product description	Code	
D 2000 Cartridge	C 2000 DSK	4H0418	
D 2000 CF100 base flange with built-in heater	CapaciTorr CF100 MK5	4H0439	
D 2000 CF150 base flange with built-in heater	CapaciTorr CF150 MK5	4H0438	
Pump Body CF100	BODY CF100/CF100 L=205	4H0224	
Pump Body CF150	BODY CF150/CF150 L=205	4H0226	
NEG Pump Power Supply	NEG POWER C1#	3B0501	
Output Cable	NEG cable 6P10A 3MT*§	3B0602	

(#) Other NEG POWER models which can simultaneously activate up to four pumps are available

(*) Other length cables are available on request

(§) Bakeable cables up to 250 °C, and radiation resistant (1000 Mrad)

The SAES manufacturing companies are ISO9001 certified, the Asian and Italian companies are also ISO14001 certified.

Full information about our certifications for each company of the Group are available on our website at:

www.saesgroup.com

D.VS.113.9.24

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