CapaciTorr® D 400



The CapaciTorr® D 400 pump is based on high performance SAES® St 172 sintered porous getter disks. The getter cartridge is provided separately from the CF35 base flange, and incorporates a built-in heater that directly connects to the flange power feedthrough. A suitable connector provides easy and fast connection to the pump power supply for the activation.

The CapaciTorr D 400 pump offers its best performance when installed directly in the vacuum system using the standard CF35 flange. Alternatively, the pump can be installed as an appendage using an optional custom-made pump body.

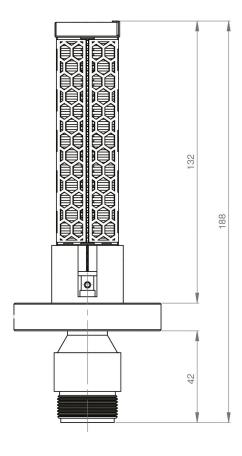
HIGHLIGHTS

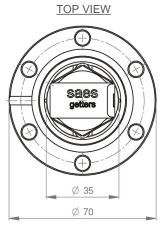
General Features

- > 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





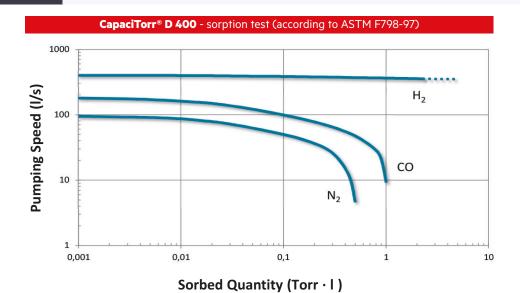
BOTTOM VIEW



Dimensions in mm



CapaciTorr® D 400



Typical Pump Characte	CapaciTorr D 400	
Alloy Type		St 172
Alloy Composition		Zr V Fe
Getter Mass (g)		45
Getter Surface (cm²)		380
Activation Power (W)		90
Pumping Speed (I/s)	H ₂	400
	H ₂ O	290
	N_2	95
	СО	180
Sorption Capacity (Torr•I)	H ₂	450
	H ₂ O	16
	N ₂	0.5
	СО	1

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

The values for $H_2\mathsf{O}$ 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 400 cartridge with built-in heater	C 400-2 DSK	4H0419		
D 400 CF35 base flange	CapaciTorr CF35	4H0402		
Pump body	SPECIAL BODY CF35/CF35 L=189	4H0401		
NEG Pump Power Supply	NEG POWER MINI#	3B0110		
Output Cable	NEG cable 4P10A 3MT*§	3B0601		

- (#) 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

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