

Purification

Weld/Purge Gas



saes
getters

HIGHLIGHTS

FEATURES

- ❑ Compact size with optional valves and/or 0.003 μm particle filter
- ❑ APIMS certified to < 1 ppb outlet purity at 75 slpm
- ❑ Regenerable purification material
- ❑ Low Pressure Drop

GASES PURIFIED

N_2 , Ar, He, Xe, Ne

APPLICATIONS

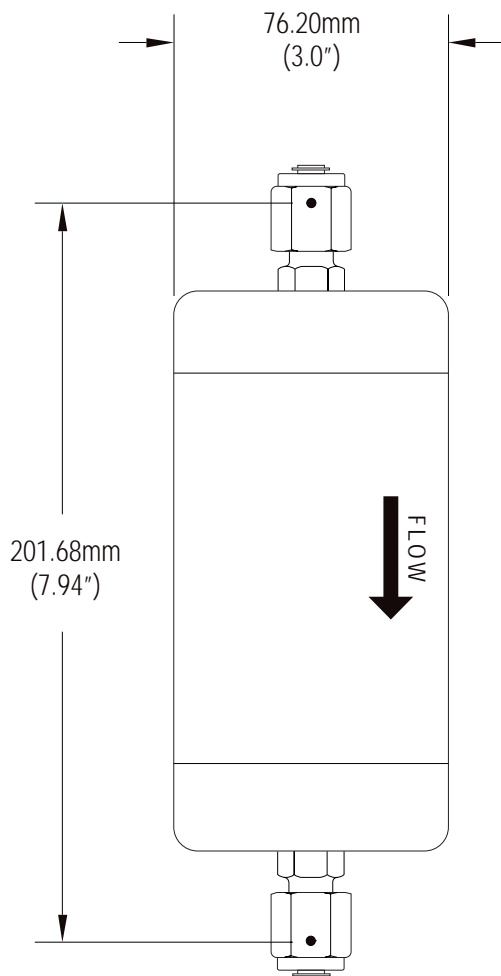
- ❑ Ensures reproducible welds every time by eliminating variations in gas quality
- ❑ Reduces piping system drydown time
- ❑ Prevents contamination and corrosion of the piping system

FACILI TORR[®]

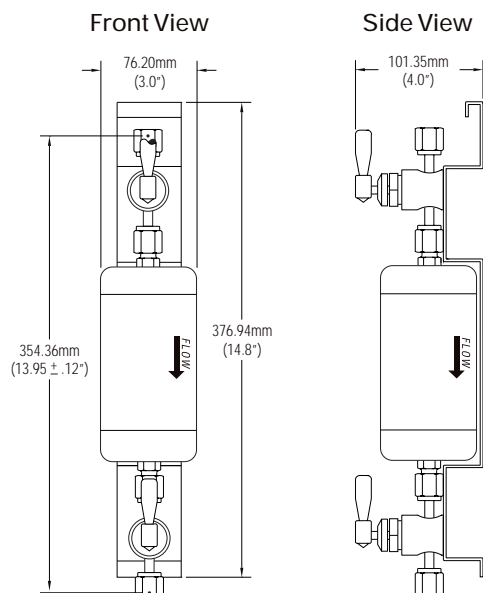
FEATURES

The FaciliTorr[®] Weld/Purge Purifier from SAES purifies gases to < 1 ppb purity for welding and purging of ultra high purity piping systems. The FaciliTorr ensures consistent gas quality and removes all oxygen impurities, resulting in welds that are continuously reproducible. In purging applications, it provides fast drydown of UHP gas systems during start-up and operation. The FaciliTorr operates at ambient temperature, and can be factory-reactivated to provide extended lifetime and reduced cost of ownership.





Models PS11-FT400R/N
and PS11-FT400R/N-F



Model PS11-FT400R/N-V
with valve option

Standard Features

- 1/4" MVCR connection without valve
- <10 Ra 316L SS electropolished wetted surfaces
- 500 psig maximum operating pressure
- Leak tested to 1×10^{-9} mbar
- 2.0 μm integral filter

Options

- 0.003 μm integral filter
- Inlet/outlet connection with valve 1/4" FVCR and backing plate

Specifications	Model PS11-FT400R/N
Average flow (slpm)	10
Max flow (slpm)	75
Max operating pressure (psig)	500
Impurity Outlet (ppb):	
H ₂ O	< 1.0
O ₂	< 1.0
CO ₂	< 1.0
CO	< 1.0
H ₂	< 1.0
NMHC	< 1.0
Particles (μm , integral filter)	2.0
Optional particle filter (μm , integral filter)	0.003

Technology

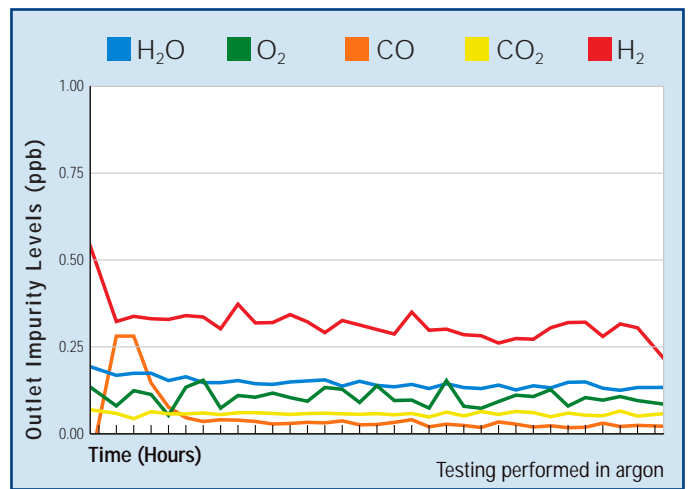
Two key factors are considered when choosing a purifier: efficiency and capacity. Efficiency ensures sub ppb performance by removing all inlet contaminants. Capacity ensures long life.

The optimization of these two parameters is critical. The FaciliTorr "9020" material has a higher impurity removal capacity than any other ambient technology, making it possible to remove all impurities in a single operation. Increased capacity also results in smaller physical dimensions, allowing easy installation of the FaciliTorr in a wide range of fabrication settings.

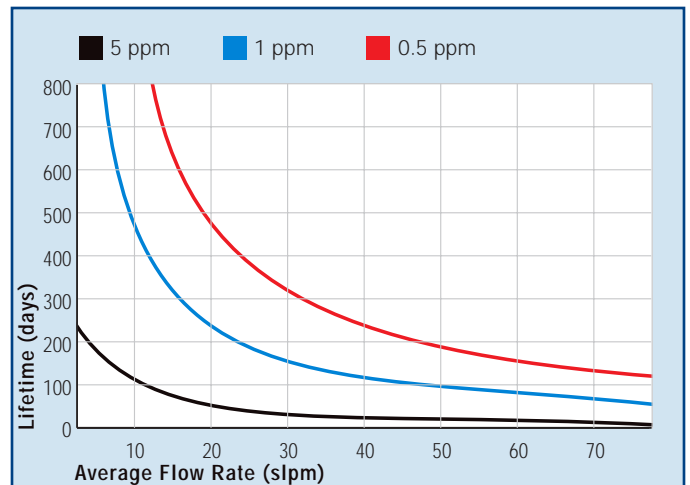
Reactivation

The FaciliTorr is designed to operate one year at rated flow, after which it can be reactivated at the factory; this results in reduced cost of ownership. For information on reactivation, contact your local SAES office.

APIMS Analysis



FaciliTorr Lifetime Estimates

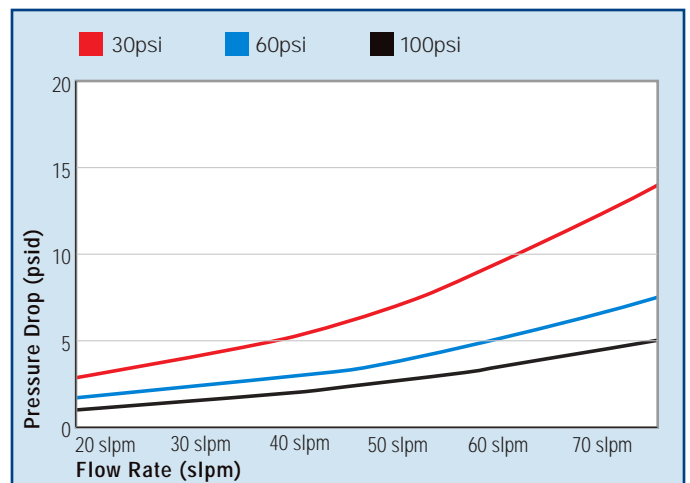


Ordering Information

Note: All models have a max flow of 75 slpm

Model	Description
PS11-FT400-R/N	Base Unit
PS11-FT400-R/N-F	with integrated 0.003 μm metal filter
PS11-FT400-R/N-V	with inlet/outlet valves & bracket
PS11-FT400-R/N-F-V	with 0.003 μm filter, inlet/outlet valves & bracket

FaciliTorr Pressure Drop (2.0 μm Filter)



SAES PURE GAS

SAES is the worldwide leader in gas purification technology. We offer a complete line of gas purifiers, analyzers, and analytical systems for virtually all bulk and specialty gases.

Extensive experience in the interaction of gases and materials, combined with an uncompromised dedication to quality and service, has made SAES the world's leading supplier of gas purifiers. Our fully vertical "in-house" approach to manufacturing - from purification processing through installation at customer facilities - ensures not only the best product, but also unparalleled service and support throughout the world.

PRODUCTS

FaciliTorr® Purification of weld and purge gases

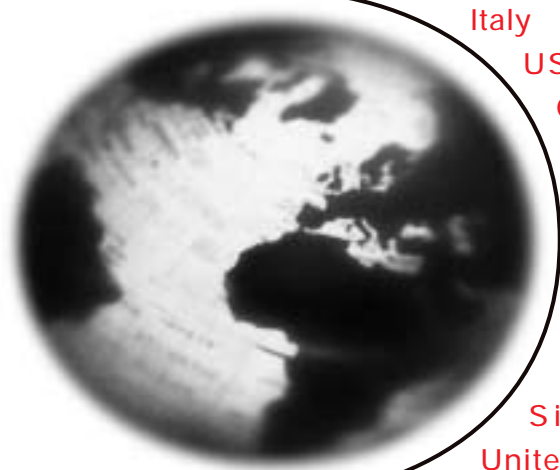
MicroTorr® POU ambient purifiers for inert, specialty, & corrosive gases

MonoTorr® Heated getter purifiers for house gases

MegaTorr® High-flow purifiers for bulk gases

Gemini Mobile Analytical Carts Portable monitoring systems for analysis anywhere in the semiconductor facility

Multi-Gas Monitoring Systems Customized analytical racks for continuous on-line gas impurity monitoring



Italy
USA
China
Korea
Japan
France
Taiwan
Russia
Germany
Singapore
United Kingdom

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