

SERVOPRO PureGas

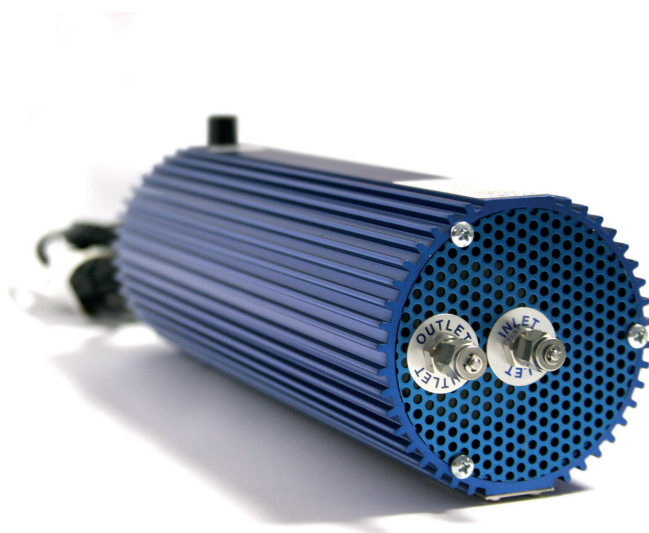
THE PUREGAS PURIFIER IS A GETTER-BASED PURIFICATION UNIT DESIGNED FOR THE PURIFICATION OF CARRIER GASES FOR GAS CHROMATOGRAPHY (GC) AND OTHER ANALYTICAL APPLICATIONS.

SERVOPRO PureGas

Outlet impurity levels for O₂, H₂O, CO, CO₂, H₂, CH₄ and N₂ are reduced to low parts per billion (ppb) levels or below. The patented Getter alloy operated at elevated temperatures, removes impurities by forming irreversible chemical bonds. Impurities will not be released under any circumstances when the purifier is operated within specification.

STANDARD FEATURES

- Deep blue anodized exterior maintains a 45°C surface temperature
- Efficient ceramic fiber insulation with encapsulated heater coil
- 20 µm sintered filter on inlet and outlet
- 1/8" compression fittings (Optional 1/8" VCR)



PROCESS GAS SPECIFICATION

SPECIFICATION	SPG STANDARD
Max Flow Rate (maximum purified gas delivered)	1000 sccm (1.0 slpm)
Nominal Flow Rate	200 sccm (0.2 slpm)
Minimum Flow Rate*	20 sccm
Maximum Inlet Pressure	10.3 barg (~150 psig)
Maximum Pressure Drop at 6.2 barg (90 psig) inlet pressure and maximum rated flow	< 1.0 psid
Inlet Gas Temperature (min-max)	0° – 35°C (32° – 95°F)
Outlet Gas Temperature (maximum)	< 50° C (122° F)

* The minimum flow is the lowest flowrate at which Servomex will guarantee that outlet gas purity will be met as well as the minimum flow that must be available from the supply to support regeneration.

Please note: This document was updated in August 2014. While every effort has been made to ensure accuracy, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards and guidelines. This document is not intended to form the basis of a contract.

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PRODUCT DATA: PureGas

FACILITIES REQUIREMENTS - ELECTRICAL

SPECIFICATION	SPG STANDARD
Installed Power (Customer to specify voltage at time of order)	120 VAC, 1 Phase, 50/60 Hz 220 VAC, 1 Phase, 50/60 Hz
Plug Style (Customer to specify which power plug is required in their area at time of order)	USA (120 VAC) EU (220 VAC) UK (220 VAC)

FACILITIES REQUIREMENTS - GENERAL

SPECIFICATION	SPG STANDARD
Indoor Installation, Ambient Temperature (min-max)	0° – 35°C (32° – 95°F)

FACILITIES REQUIREMENTS - ELECTRICAL

IMPURITY	INLET PURITY REQUIREMENTS (5.0 GAS)	OUTLET PURITY LEVEL (1/8" SWG)	OUTLET PURITY LEVEL (1/8" VCR)
O ₂	0<2000 ppb	<10 ppb	<1 ppb
H ₂ O	0<2000 ppb	<10 ppb	<1 ppb
CO	0<500 ppb	<10 ppb	<1 ppb
CO ₂	0<100 ppb	<10 ppb	<1 ppb
H ₂	0<100 ppb	<10 ppb	<1 ppb
CH ₄	0<300 ppb	<10 ppb	<1 ppb
N ₂	0<4000 ppb	<10 ppb	<1 ppb

PERFORMANCE

PURIFIER HEIGHT (envelope)	312 mm (~12.3 in) 347 mm (~13.67 in) [optional VCR connections]
PURIFIER WIDTH (envelope)	112 mm (~4.4 in)
PURIFIER WEIGHT	1.8 Kg (~4 lbs)
FEED GAS INLET	1/8" Swagelok fittings (Optional 1/8" VCR)
PURIFIED GAS OUTLET	1/8" Swagelok fittings (Optional 1/8" VCR)
HEATER POWER CONSUMPTION	40 W
PARTICLE FILTER	20 µm sintered filter on inlet and outlet
GAS WETTED SURFACE FINISH	Up and downstream of Getter Vessels = 304L SST, all welded construction

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