

P9 SERIES

SimPure is the first manufacturer of 9N ultra-pure purifiers in China. The company offers customers high-quality and reliable purification products. In 2019, SimPure introduced the P9 series high-performance POU gas purifier with a higher localization rate to better meet market demand. This series aims to balance high performance and cost-effectiveness for customers.

SimPure P9 series high performance gas purifiers use catalyst/adsorber technology designed specifically to provide ultra-high purity gases under ambient temperature conditions. The 9NP series gas purifiers can remove impurities such as H2O, O2, CO, CO2, NHMC, etc. to less than 1 ppb (part-per-billion). The 9NP series gas purifier features a built-in 0.003μm filter in the electrochemically polished 316L stainless steel canister.

Product Features

- ✔ Operate at ambient temperature

✔ Outlet impurity level < 1ppb

✔ H2O and O2 factory inspection reports

✔ Regenerable at manufacturer

✔ Options for the purifier to mounted with dual valves, three valves, four valves, etc.

✔ After hundreds of regenerations, the purification performance is consistent with a new purifier
- ✔ Production in a Class 100 ultra-clean room

✔ Using high-performance purification materials

✔ Built-in a 0.003μm 316L SS particle filter

✔ 316L stainless steel electrochemical polishing vessels

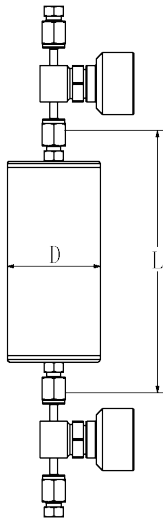


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Purification Specification

Gas Type*	Purified Gases*	Impurities	Outlet Impurity Level
Inert Gas -I	N ₂ , Ar, He, Xe, Ne, Kr	H ₂ O, O ₂ , CO, CO ₂ , H ₂ , NMHC	<1ppb
Oxygen -O	O ₂ , CDA, XCDA	H ₂ O, CO ₂ , NMHC	
Hydrogen -H	The mixture gas of hydrogen and inert gas	H ₂ O, O ₂ , CO, CO ₂ , NMHC	
Hydride -A	NH ₃ , SiH ₄ , AsH ₄ , PH ₃	H ₂ O, O ₂	

* Contact SimPure for more gas types and purified gases.



General Specifications

Model	Nominal Flow Rate (slm)	Maximum flow (slm)	Max. Pressure (MPa)	Max. Pressure Drop (MPa) *	Filtration Removal Rating (μm)	Inlet/Outlet Fitting	Length (Face-to-Face) L	Outside Diameter D
P9—002	2	5	1.0	0.1	0.003	1/4" MVCR	3.3" (84mm)	1.5" (38.1mm)
P9—004	4	10	1.0	0.1	0.003	1/4" MVCR	4.5" (114mm)	1.5" (38.1mm)
P9—025	25	60	1.0	0.1	0.003	1/4" MVCR	6.3" (160mm)	2" (50.8mm)
P9—040	40	100	1.0	0.1	0.003	1/4" MVCR	12.5" (317.5mm)	2" (50.8mm)
P9—060	60	150	1.0	0.1	0.003	1/4" MVCR	10" (254mm)	3" (76.2mm)
P9—150	150	300	1.0	0.1	0.003	1/4" MVCR	20.0" (508mm)	3" (76.2mm)
P9—260	250	500	1.0	0.1	0.003	1/2" MVCR	20.0" (508mm)	4" (101.6mm)
P9—500	500	800	1.0	0.1	0.003	1/2" MVCR	30.9" (785mm)	4" (101.6mm)
P9—900	900	1500	1.0	0.1	0.003	1/2" MVCR	28.2" (716mm)	6" (152.4mm)
P9—1800	1800	3000	1.0	0.1	0.003	3/4" MVCR	50.8" (1290mm)	6" (152.4mm)

* Please contact us for the lifetime of the purifier.

General Specifications

