

# LINETRON®

## 5~2,000 slpm, In-Line Gas Purifiers

Tronic Purity's LINETRON® gas purifiers are engineered to ensure consistent purity, extended operational lifetime, and reliable final purity for critical microelectronics applications. The LINETRON series in-line gas purifiers, leveraging advanced material science, delivers outstanding value and performance across various connection sizes, providing high-purity gas for sensitive manufacturing processes.

All LINETRON® purifiers are fully regenerable - either by returning them to Tronic Purity for factory servicing or through a dedicated regeneration station - offering flexibility and prolonged service life.

### OVERALL FEATURES

- ✓ Maximum Flow up to 2,000 slpm
- ✓ Maximum Pressure: 17.2 Barg (250 psig)
- ✓ Exceeds one year lifetime with an inlet challenge of 6N grade purity gas at the nominal flow rate.
- ✓ Low pressure drop, <5 psid based on 100 psig inlet pressure at maximum flow.
- ✓ Integrated with 0.003 micron, metal particle filter.
- ✓ All purifiers can be regenerated at the Tronic Purity facility.
- ✓ CE certified to the Pressure Equipment Directive (PED)
- ✓ Manufactured in an ISO® 9001:2015 facility.

### APPLICATIONS

- ✓ Purification and filtration at the tool
- ✓ Analytical zero gas applications
- ✓ Drydown purge for piping certification
- ✓ Fiber Optics
- ✓ Glove box purging.
- ✓ LED / Laser manufacturing.
- ✓ Semiconductor manufacturing.
- ✓ Weld gas / Purge gas / Shielding gas purification

### OPTIONAL FEATURE

- ✓ Inlet & Outlet Isolation valves.



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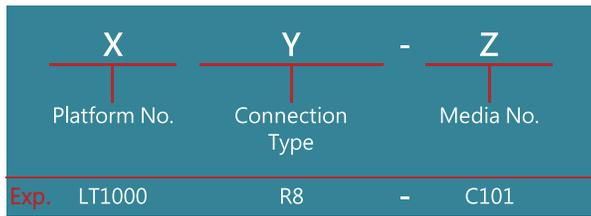
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## Numbering System



## Model No. & Installation Information

Platform	Connection Type	Nor. Flow (slpm)	Max. Flow (slpm)	Gas In / Out Connection	Diameter (A size, mm)	Face to Face Length (inches, mm)	Particle Filter (µm)	Max. OP Pressure
LT5	R4	0.5	5	1/4" MVCR	25A (34.0 mm)	3.3" (84.1mm)	0.003	17.2 Bar
LT12	R4	1.5	12	1/4" MVCR	25A (34.0 mm)	4.5" (114.3mm)	0.003	17.2 Bar
LT15	R4	2	15	1/4" MVCR	25A (34.0 mm)	5.0" (127mm)	0.003	17.2 Bar
LT20	R4	4	20	1/4" MVCR	50A (60.5 mm)	5.0" (127mm)	0.003	17.2 Bar
LT50	R4	5	50	1/4" MVCR	50A (60.5 mm)	8.2" (208.3mm)	0.003	17.2 Bar
LT50	R8	5	50	1/2" MVCR	50A (60.5 mm)	8.51" (216.3mm)	0.003	17.2 Bar
LT75	R4	7.5	75	1/4" MVCR	65A (76.3 mm)	7.94" (201.7mm)	0.003	17.2 Bar
LT75	R8	7.5	75	1/2" MVCR	65A (76.3 mm)	8.25" (209.7mm)	0.003	17.2 Bar
LT100	R4	10	100	1/4" MVCR	50A (60.5 mm)	12.5" (317.5mm)	0.003	17.2 Bar
LT100	R8	10	100	1/2" MVCR	50A (60.5 mm)	12.8" (325.5mm)	0.003	17.2 Bar
LT180	R4	18	180	1/4" MVCR	65A (76.3 mm)	10" (254mm)	0.003	17.2 Bar
LT180	R8	18	180	1/2" MVCR	65A (76.3 mm)	10.31" (262mm)	0.003	17.2 Bar
LT280	R4	40	280	1/4" MVCR	65A (76.3 mm)	17.9" (461.5mm)	0.003	17.2 Bar
LT280	R8	40	280	1/2" MVCR	65A (76.3 mm)	18.2" (462.3mm)	0.003	17.2 Bar
LT300	R4	50	300	1/4" MVCR	100A (114.3 mm)	17.3" (439mm)	0.003	17.2 Bar
LT300	R8	50	300	1/2" MVCR	100A (114.3 mm)	17.6" (447mm)	0.003	17.2 Bar
LT500	R4	80	500	1/4" MVCR	100A (114.3 mm)	19.68" (500mm)	0.003	17.2 Bar
LT500	R8	80	500	1/2" MVCR	100A (114.3 mm)	20.0" (508mm)	0.003	17.2 Bar
LT600	R4	100	600	1/4" MVCR	100A (114.3 mm)	30.59" (777mm)	0.003	17.2 Bar
LT600	R8	100	600	1/2" MVCR	100A (114.3 mm)	30.9" (785mm)	0.003	17.2 Bar
LT700	R4	200	700	1/4" MVCR	150A (165.2 mm)	27.64" (702.6mm)	0.003	17.2 Bar
LT700	R8	200	700	1/2" MVCR	150A (165.2 mm)	29.0" (737mm)	0.003	17.2 Bar
LT700	R12	200	700	3/4" MVCR	150A (165.2 mm)	29.5" (749mm)	0.003	17.2 Bar
LT900	R12	250	900	3/4" MVCR	150A (165.2 mm)	35.1" (892mm)	0.003	17.2 Bar
LT900	R16	250	900	1" MVCR	150A (165.2 mm)	35.4" (899mm)	0.003	17.2 Bar
LT1000	R8	300	1,000	1/2" MVCR	150A (165.2 mm)	39.34" (999.7mm)	0.003	17.2 Bar
LT1000	R12	300	1,000	3/4" MVCR	150A (165.2 mm)	39.34" (1011.7mm)	0.003	17.2 Bar
LT2000	R12	400	2,000	3/4" MVCR	150A (165.2 mm)	50.8" (1290mm)	0.003	17.2 Bar
LT2000	R16	400	2,000	1" MVCR	150A (165.2 mm)	51" (1296mm)	0.003	17.2 Bar

## Media No. and Information

Media No.	Gas Purified :	Impurities Removed :	Identification No. and Hazard Class.
-C101	Ar, He, N <sub>2</sub> , Xe, Kr, Ne, Xe, CH <sub>4</sub> , C <sub>2</sub> H <sub>6</sub> , C <sub>3</sub> H <sub>8</sub> , SF <sub>6</sub> , Fluorocarbons.	H <sub>2</sub> O, O <sub>2</sub> , H <sub>2</sub> , CO, CO <sub>2</sub> to < 0.1 ppbv; Organics, Acids, Refractory Compounds to < 1 pptv; Bases < 5 pptv, Metals < 1 ppbv	<b>DG, UN2881 Class 4.2</b>
-C201	H <sub>2</sub> , H <sub>2</sub> Mixed with Inert Gas.	H <sub>2</sub> O, O <sub>2</sub> , CO, CO <sub>2</sub> to < 0.1 ppbv; Organics, Acids, Refractory Compounds to < 1 pptv; Bases < 5 pptv, Metals < 1 ppbv	<b>DG, UN2881 Class 4.2</b>
-C301	Ar, He, N <sub>2</sub> , H <sub>2</sub> , O <sub>2</sub> , CDA, CO <sub>2</sub> , Xe, Kr, Ne, N <sub>2</sub> O	H <sub>2</sub> O to < 1 ppbv	<b>Non-DG</b>
-C401	Ar, He, N <sub>2</sub> , H <sub>2</sub> , O <sub>2</sub> , CDA, Xe, Kr, Ne	H <sub>2</sub> O, CO <sub>2</sub> < 0.1 ppbv; Organics, Acids, Refractory Compounds to < 1 pptv; Bases < 5 pptv, Metals < 1 ppbv	<b>Non-DG</b>
-C501	Ar, He, N <sub>2</sub> , H <sub>2</sub> , O <sub>2</sub> , CDA, CO <sub>2</sub> , Xe, Kr, Ne, N <sub>2</sub> O	H <sub>2</sub> O < 0.1 ppbv; Organics, Acids, Refractory Compounds to < 1 pptv; Bases < 5 pptv, Metals < 1 ppbv	<b>Non-DG</b>
-H502	CO <sub>2</sub>	H <sub>2</sub> O, O <sub>2</sub> , H <sub>2</sub> , CO to < 0.1 ppbv; Organics, Acids, Refractory Compounds to < 1 pptv; Bases < 5 pptv, Metals < 1 ppbv	<b>Non-DG</b>
-H832	B <sub>2</sub> H <sub>6</sub> , BCl <sub>3</sub> , CCl <sub>4</sub> , Cl <sub>2</sub> , CO <sub>2</sub> , GeCl <sub>4</sub> , GeH <sub>4</sub> , H <sub>2</sub> S, H <sub>2</sub> Se, HBr, HCl, SiCl <sub>4</sub> , SiF <sub>4</sub> , SO <sub>2</sub> , CHCl <sub>3</sub> , BF <sub>3</sub> , SiH <sub>2</sub> Cl <sub>2</sub> , N <sub>2</sub> O, NF <sub>3</sub> , NO	H <sub>2</sub> O, Metals < 1 ppbv	<b>Non-DG</b>
-H852	AsH <sub>3</sub> , PH <sub>3</sub>	H <sub>2</sub> O, O <sub>2</sub> , Metals < 1 ppbv	<b>Non-DG</b>
-H862	CO	H <sub>2</sub> O, O <sub>2</sub> , H <sub>2</sub> , CO <sub>2</sub> , Acids, Bases, Organics, Refractory Compounds, Metals < 1 ppbv	<b>Non-DG</b>
-H872	NH <sub>3</sub> , C <sub>2</sub> H <sub>7</sub> N, C <sub>2</sub> H <sub>8</sub> N <sub>2</sub> , C <sub>2</sub> H <sub>4</sub> , C <sub>3</sub> H <sub>6</sub> , CH <sub>4</sub> SiH <sub>3</sub> , GeH <sub>4</sub> , H <sub>2</sub> -SiH <sub>4</sub> mix, SF <sub>6</sub>	H <sub>2</sub> O, O <sub>2</sub> , CO <sub>2</sub> , NMHCs, Metals to < 1 ppbv	<b>Non-DG</b>

## With Optional Valves

