

FACILITRON

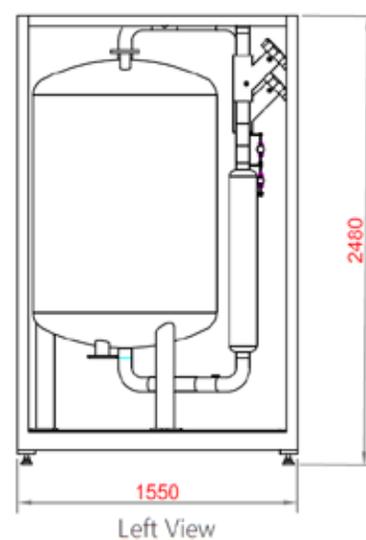
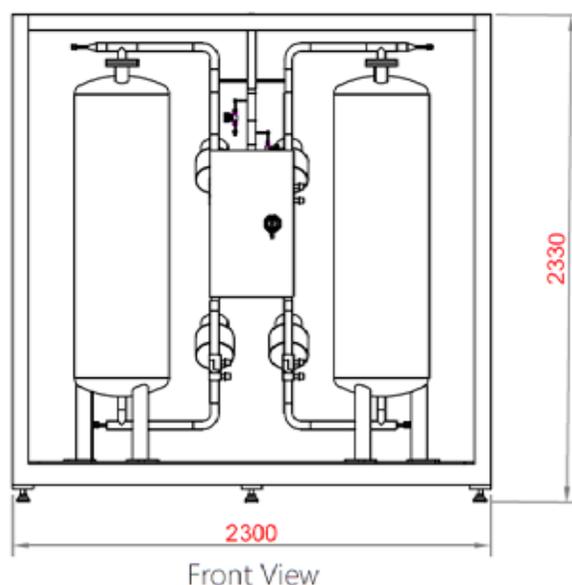
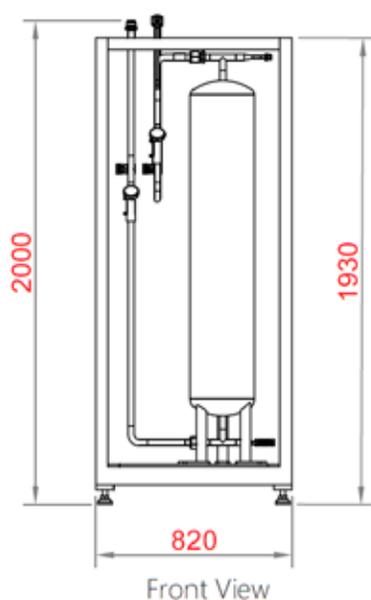
The Bulk Ambient Gas Dryers and Purifiers

The FACILITRON series purifier features an open-frame skid design that adheres to industry-standard Ultra-High Purity (UHP) practices. It effectively removes impurities such as H₂O, O₂, H₂, CO, and CO₂ from high-purity gases including Argon, Helium, and Nitrogen.

This straightforward, manually operated unit centers around a single adsorber vessel, which plays a crucial role in the purification process. It includes manual isolation valves for easy shipping, operation, and regeneration. Regeneration of the adsorber must be conducted offline and is necessary when the outlet impurities exceed specified design conditions.

Applications:

- High production rate weld gas and purge gas.
- Glove box purge gas
- Additive manufacturing
- Annealing cover gas
- Large flow ultra-high purity applications



**FC1 Platform, The Ambient Bulk Gas Purifier**

Platform No.	Gases Purified	Impurities Removed	Performance	Range of Flow Rate	Maximum Pressure Drop @ 6.9 Barg inlet gas pressure
FC1-XXSC/DC-N2	N2	H2O, O2, H2, CO, CO2,	>9N Purity	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC1-XXSC/DC-Ar	Ar	H2O, O2, H2, CO, CO2,	>9N Purity	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC1-XXSC/DC-He	He	H2O, O2, H2, CO, CO2,	>9N Purity	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC1-XXSC/DC-H2	H2	H2O, O2, CO, CO2,	>9N Purity	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC1-XXSC/DC-O2	O2	H2O, H2, CO, CO2,	>9N Purity	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC1-XXSC/DC-CDA	CDA	H2O, H2, CO, CO2,	>9N Purity	100 ~ 3,000 Nm3/Hr.	< 1 bar

Note:

SC: Single Column; DC: Dual Columns.

FC2 Platform, The Ambient Bulk Gas Dryer

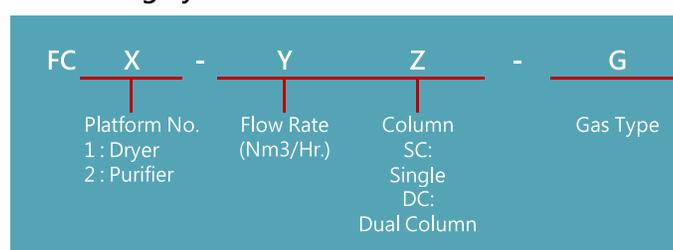
Platform No.	Gases Purified	Impurities Removed	Performance	Range of Flow Rate	Maximum Pressure Drop @ 6.9 Barg inlet gas pressure
FC2-XXSC/DC-N2	N2	H2O	< 1 ppbv	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC2-XXSC/DC-Ar	Ar	H2O	< 1 ppbv	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC2-XXSC/DC-He	He	H2O	< 1 ppbv	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC2-XXSC/DC-H2	H2	H2O	< 1 ppbv	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC2-XXSC/DC-O2	O2	H2O	< 1 ppbv	100 ~ 3,000 Nm3/Hr.	< 1 bar
FC2-XXSC/DC-CDA	CDA	H2O	< 1 ppbv	100 ~ 3,000 Nm3/Hr.	< 1 bar

Note:

SC: Single Column; DC: Dual Columns.

Optional Features

- ✓ Manual Bypass Valve.
- ✓ Auto Bypass Valve
- ✓ 0.003µm Particle Filter, Metal or Teflon.
- ✓ Mass Flow Meter with isolated 4-20mA output.
- ✓ Inlet and Outlet Pressure Transmitter with isolated 4-20 mA Output.
- ✓ High Temperature Interlock to shutdown.

Numbering System**Maintenance**

- Off-line regeneration available for continue use.



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