

**Submittal Data Sheet**

**Features and Benefits**

The Frontall™ DISS medical gas recessed outlets represent the most technically advanced means of providing medical gas connections to the central piping system. The outlets incorporate a unique patented **front-loaded** feature which makes the Tri-Tech Medical outlets **easy to repair**, saving valuable time and money for the health care facility.

- **Five-year parts and one year labor limited warranty\***
- U L Listed to UL 1331 and CSA Z9170-1
- Conforms to NFPA 99 and CGA standards
- Gas specific DISS outlet Body
- Ease of maintenance without removing the nameplate assembly using a cartridge insertion tool
- Compensates for variation in wall thicknesses from 1/2" to 1 1/4"
- Modular design
- 5" centers
- Pin indexed nameplate assembly and back
- Removable front nameplate assembly
- All outlets are 100% tested for flow and leaks
- 360° swivel inlet tube
- Metal back and nameplate
- Nameplate color coding per NFPA 99
- Strength of connections eliminates unintended disconnects and provides support for dispensing equipment without the use of additional brackets
- Made in the U.S.A.

\*See Terms and Conditions, Document No. 99-0477, on our website at: [www.tri-techmedical.com](http://www.tri-techmedical.com) for complete details.

**Specification**

The medical gas wall outlets shall be Tri-Tech Medical Frontall™ DISS medical gas outlets. The outlets shall be modular singles, and shall incorporate nameplate color-coding in accordance with NFPA 99. The single modular outlets shall be of a design that provides for ganging of rough-in plates in the field to form multiples. The gas services shall be sequentially arranged and located as shown on the plans with a minimum centerline spacing of 5 inches (12.7cm) between outlets.

The medical gas outlets shall be designed so that, once installed, routine service of both the primary and secondary check valves can be accomplished **without** removing the nameplate assembly or gas specific portions. The primary check valve shall be unitized and of the cartridge type. So that the primary check valve can be removed for service without shutting off the gas supply to the outlet, the secondary check valve shall operate automatically to stop the free flow of the positive pressure gas services. There shall be no secondary check for vacuum or WAGD services.



Part Number ALN91XF1124A shown

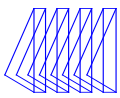
Medical gas outlets which require the removal of the nameplate assembly or gas specific components for routine service shall not be acceptable. The seal between the nameplate assembly and the rough-in shall be a double O-ring which is serviceable without shutting off the gas service and is capable of supporting 10 pounds @ 2" from the nameplate assembly without leaking.

The outlet nameplate shall be permanently color-coded with a durable scratch resistant protective label having a brushed aluminum background. The outlet trim plate shall be Die cast aluminum, powder coated pewter, attached with the nameplate assembly to the rough-in assembly, and provide automatic plaster adjustment from 1/2 to 1 1/4 of an inch (1.27 cm to 3.17 cm). The name of the gas service shall be permanently marked on the outlet bracket and the chrome plated brass outlet body. The outlet's rough-in supply tube shall be a 7-inch (17.78 cm) length of 1/2 OD copper Type K, and labeled with the name of the gas service.

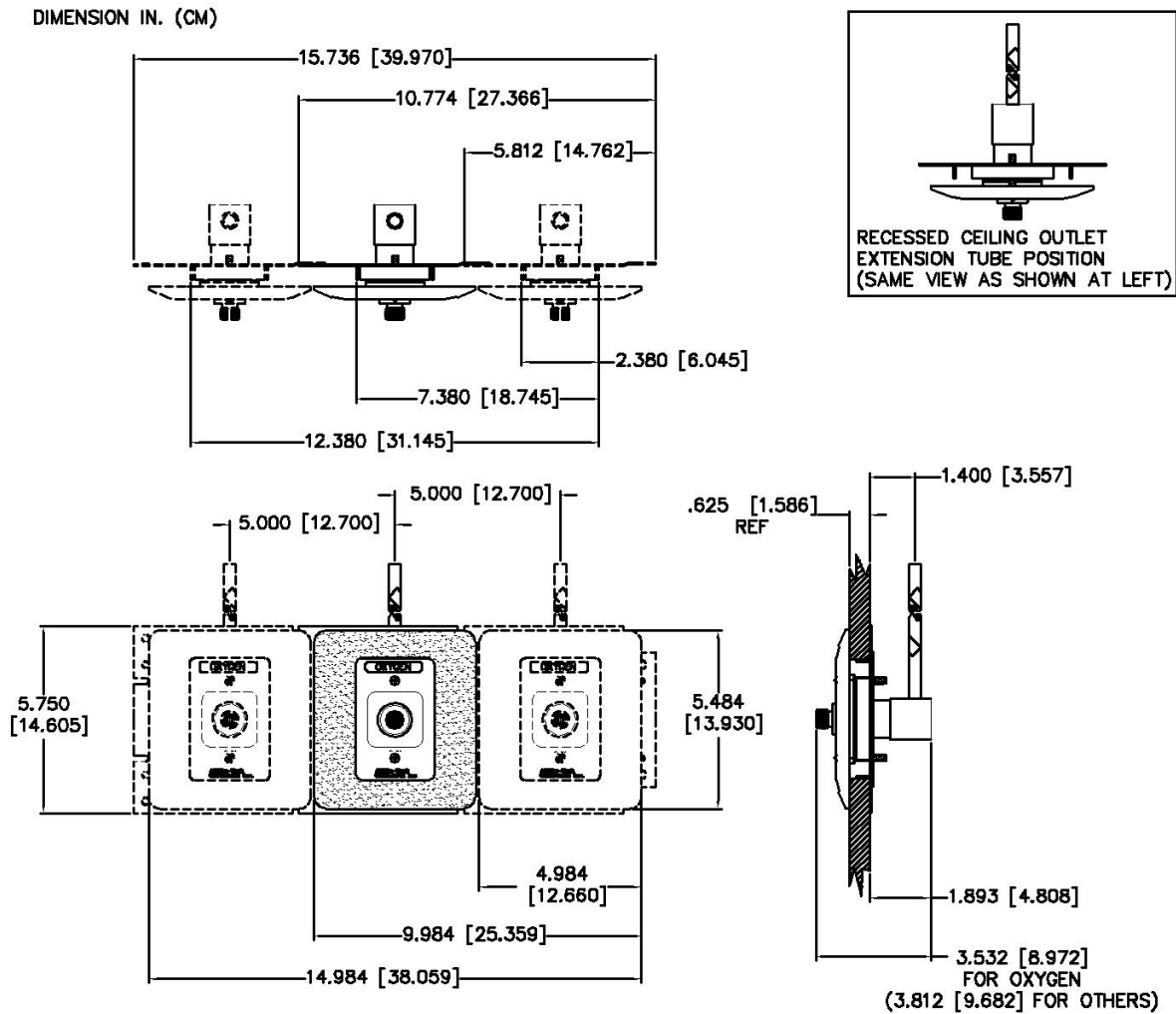
Medical gas outlets shall be cleaned for oxygen service in accordance with the current Compressed Gas Association (CGA) Pamphlet G-4.1, capped and placed in a protective container for shipment. The outlets shall be installed in strict accordance with manufacturer's instructions, and tested before use in conformance with NFPA, state and local codes.

MRI compatible models are available (*See ordering information chart*) and are made with non-ferrous materials.





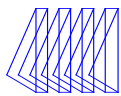
Layout



*\*Indicates that these are NOT UL listed Outlets  
Slides are not subject to UL Listing*

Ordering Information

Gas Service	Recessed Wall	Recessed Ceiling	MRI Compatible	
			Recessed Wall	Recessed Ceiling
Nitrous Oxide	ALN91XF1104	ALN91XF1204	*ALN91XF1104-MRI	*ALN91XF1204-MRI
Carbon Dioxide	ALN91XF1108	ALN91XF1208	*ALN91XF1108-MRI	*ALN91XF1208-MRI
Nitrogen	ALN91XF1112	ALN91XF1212	*ALN91XF1112-MRI	*ALN91XF1212-MRI
Medical Air	ALN91XF1116	ALN91XF1216	ALN91XF1116-MRI	*ALN91XF1216-MRI
Medical Vacuum	ALN91XF1122	ALN91XF1222	ALN91XF1122-MRI	*ALN91XF1222-MRI
Oxygen	ALN91XF1124A	ALN91XF1224A	ALN91XF1124A-MRI	*ALN91XF1224A-MRI
WAGD	ALN91XF1132	ALN91XF1232	*ALN91XF1132-MRI	*ALN91XF1232-MRI
Instrument Air	ALN91XF112080	ALN91XF122080	*ALN91XF112080-MRI	*ALN91XF122080-MRI
Slide	XF1144-DCP	N/A	XF1144-DCP-MRI	N/A



*If Ordering Die Cast White Trim Plates for Wall Outlets you need Back Bodies & Nameplate Assemblies ordered Separately*

Gas Service	Back Body 1/2" Tube Size Wall	MRI Compatible Back Body 1/2" Tube Size Wall	Outlet Nameplate Assemblies	MRI Compatible Nameplate Assemblies	Trim Plate Die Cast White
<b>Nitrous Oxide</b>	XC1104-A	*XC1104-A-MRI	ALN91XF1004-A	*ALN91XF1004-A-MRI	XC1000-9DC
<b>Carbon Dioxide</b>	XC1108-A	*XC1108-A-MRI	ALN91XF1008-A	*ALN91XF1008-A-MRI	
<b>Nitrogen</b>	XC1112-A	*XC1112-A-MRI	ALN91XF1012-A	*ALN91XF1012-A-MRI	
<b>Medical Air</b>	XC1116-A	XC1116-A-MRI	ALN91XF1016-A	ALN91XF1016-A-MRI	
<b>Medical Vacuum</b>	XC1122-A	XC1122-A-MRI	ALN91XF1022-A	ALN91XF1022-A-MRI	
<b>Oxygen</b>	XC1124-A	XC1124-A-MRI	ALN91XF1024-A	ALN91XF1024-A-MRI	
<b>WAGD</b>	XC1132-A	*XC1132-A-MRI	ALN91XF1032-A	*ALN91XF1032-A-MRI	
<b>Instrument Air</b>	XC112080-A	*XC112080-A-MRI	ALN91XF102080-A	*ALN91XF102080-A-MRI	
<b>Slide</b>	<b>Die Cast White</b>	<b>Die Cast White MRI Compatible</b>			
	XF1144-DC	XF1144-DC-MRI			

*If Ordering Die Cast White Trim Plates for Ceiling Outlets you need Back Bodies & Nameplate Assemblies ordered Separately*

Gas Service	Back Body 1/2" Tube Size Ceiling	MRI Compatible Back Body 1/2" Tube Size Ceiling	Outlet Nameplate Assemblies	MRI Compatible Nameplate Assemblies	Trim Plate Die Cast White
<b>Nitrous Oxide</b>	XC1204-A	*XC1204-A-MRI	ALN91XF1004-A	*ALN91XF1004-A-MRI	XC1000-9DC
<b>Carbon Dioxide</b>	XC1208-A	*XC1208-A-MRI	ALN91XF1008-A	*ALN91XF1008-A-MRI	
<b>Nitrogen</b>	XC1212-A	*XC1212-A-MRI	ALN91XF1012-A	*ALN91XF1012-A-MRI	
<b>Medical Air</b>	XC1216-A	XC1216-A-MRI	ALN91XF1016-A	ALN91XF1016-A-MRI	
<b>Medical Vacuum</b>	XC1222-A	XC1222-A-MRI	ALN91XF1022-A	ALN91XF1022-A-MRI	
<b>Oxygen</b>	XC1224-A	XC1224-A-MRI	ALN91XF1024-A	ALN91XF1024-A-MRI	
<b>WAGD</b>	XC1232-A	*XC1232-A-MRI	ALN91XF1032-A	*ALN91XF1032-A-MRI	
<b>Instrument Air</b>	XC122080-A	*XC122080-A-MRI	ALN91XF102080-A	*ALN91XF102080-A-MRI	