

Gas Cartridge Assembly

Application

The gas cartridge shipping assemblies are specifically designed to store pressurized nitrogen gas. On release, the nitrogen gas expels fire suppression agent for either an R-102 Restaurant Fire Suppression System or the PIRANHA Restaurant Fire Suppression System. The restaurant systems provide fire protection for restaurant cooking appliances and associated hoods and ducts for hotels, chain stores, restaurants, factories, universities, and other food preparation locations.

Description

The gas cartridge shipping assembly consists of a cartridge, cartridge seal, pressure gauge, adaptor, and shipping cap. The hermetically sealed gas cartridges are pressurized to 14.42 MPa (2092 psi) at 20 °C (68 °F). The pressure gauge ranges from 0 MPa (0 psi) to 27.5 MPa (4000 psi). The adaptor is made out of 35 mm hex bar stock steel. When the system is actuated, the cartridge seal is punctured and the released gas expels liquid agent from one or more tanks through the discharge piping and out the discharge nozzles. Cartridges are both Transport Canada (TC) and Department of Transportation (DOT) approved.

The pressure gauge is UL 404 listed and includes a UL 1254 compliant faceplate. The internal pressure indicator also complies with GA498-2012 requirements. Both R-102 and PIRANHA Restaurant systems are UL listed in compliance with UL test standard 300.



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Specifications

Gauge Pressure range:	0 - 27.5 MPa (0 - 4000 psi)
Approximate overall length:	
LT-20-R:	266.7 mm (10.5 in.)
LT-30-R:	368.3 mm (14.5 in.)
R-102 Double Tank:	355.6 mm (14 in.)
Working temperature range:	0 °C - 54 °C (32 °F - 130 °F)
Material	
Adaptor	35mm hex bar stock steel
Gas cartridge	Seamless steel
Gauge-Case	Stainless steel
Socket	Brass

Ordering Information

Part No.	Description
441086	LT-20-R Assembly
441087	LT-30-R Assembly
441088	R-102 Assembly - Double Tank

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