



Specifications

Stock Number:	RIS-1
Service Pressure:	Up to 175 PSIG (12 Bar)
System Connection:	1/4" NPT Female (Exhaust Gas Inlet Connection) 1/4" NPT Female (Purge Inlet Connection) 1/4" NPT Female (Sampling Port Inlet Connection) 1/2" NPT Female (Exhaust Gas Outlet Connection)
Temperature Range:	40°F - 120°F (4.5°C - 49°C)
Dimensions:	8" (W) x 10" (H) x 6" (D) 203mm (W) x 254mm (H) x 152mm (D)
Weight:	12 Lbs (5.4 Kg)

Order Information

RIS-1 Remote Inerting Station

General Description

The ECS Protector Remote Inerting Station is used in conjunction with the Nitrogen Inerting Vent (PAV-WN/WNS) to automatically control venting of trapped gases in wet pipe fire sprinkler systems during the **Wet Pipe Nitrogen Inerting (WPNI)** process. The Remote Inerting Station (RIS-1) allows for the nitrogen inerting functions of the Nitrogen Inerting Vent (PAV-WN/WNS) to be located to an easily accessible location near floor level thereby eliminating the need to access the PAV-WN/WNS vent to perform the following:

- Wet Pipe Nitrogen Inerting (WPNI) protocol
- Nitrogen gas purity sampling
- System pressure monitoring
- Remove trapped water from vent assembly
- Relocate vent assembly exhaust gas when venting into the atmosphere is impractical or undesirable

Installation Instructions

1. Install the RIS-1 on a wall or vertical surface near the vent assembly in an accessible location.
2. Close PAV-WN/WNS vent assembly ball valve prior to extending piping between PAV-WN/WNS and RIS-1.
3. Remove the gas sampling port from the PAV-WN/WNS vent assembly and extend the PAV-WN/WNS gas sampling port connection to the 1/4" NPT gas sampling port inlet connection on the RIS-1.

Piping connection between PAV-WN/WNS and RIS-1 must be rigid or flexible with a minimum pressure rating of 175 psi.

NOTE: Gas sampling port "Tee" ball valve in RIS-1 to remain closed until needed.

Installation Instructions (Continued)

- Remove the plug in the “Y” strainer “Tee” ball valve on PAV-WN/WNS and extend the “Y” strainer connection to the ¼” NPT WPNI “purge” inlet connection with pressure gauge on the RIS-1.

Piping connection between PAV-WN/WNS and RIS-1 must be rigid or flexible with a minimum pressure rating of 175 psi.

NOTE: Once the WPNI “purge” connection is extended to the RIS-1:

- The “Y” strainer “Tee” ball valve on the vent to remain in the open position.
- The WPNI “purge” connection “Tee” ball valve in the RIS-1 to remain closed, unless performing “purge” process.

- If exhausting nitrogen gas into surrounding atmosphere is impractical, extend the exhaust gas from the 1” NPT threaded outlet (PAV-WNI model only) to ¼” NPT exhaust gas inlet connection on RIS-1.

Piping connection between PAV-WN/WNS and RIS-1 must be rigid or flexible with a minimum pressure rating of 175 psi.

- The RIS-1 exhaust connection can exhaust nitrogen gas and/or water. Verify the exhaust connection is piped to a desirable location that can safely discharge nitrogen gas and water.

- Open PAV-WN/WNS vent assembly ball valve once all connection piping between PAV-WN/WNS and RIS-1 has been completed.

Operating Instructions

- Follow the Wet Pipe Nitrogen Inerting protocol provided by Engineered Corrosion Solutions to eliminate oxygen from the fire sprinkler system.
- The pressure gauge inside RIS-1 cabinet indicates current system pressure.
 - Indicates system nitrogen pressure during WPNI process.
- To verify nitrogen purity in system piping while performing WPNI protocol, open gas sampling port “Tee” ball valve momentarily and measure purity level from gas sampling with handheld gas analyzer (PHGA-1).
- To “purge” system piping during WPNI process, open the “purge” connection “Tee” ball valve.

