Description
Potter’s IntelliGen™ Series of Nitrogen Generators are specifically designed to generate on-site, 98%+ purity nitrogen for use in fire protection sprinkler systems. When used as a supervisory gas in fire sprinkler systems, nitrogen slows corrosion, improves the life of your system, and lowers maintenance costs.

The INS-1500 (EU) utilizes nitrogen membrane technology for gas separation. Nitrogen membranes are highly effective and a cost conscious way of producing on-site nitrogen. Acting as a gas filter, the nitrogen membrane separates the oxygen and water vapor molecules in the air from the nitrogen molecules. The high purity nitrogen gas is then piped through the air maintenance device and into the fire protection system. As the system fills with nitrogen, the remaining oxygen molecules in the fire protection system are exhausted by using the Potter IntelliPurge® Nitrogen Purge Valve.

Note: The Potter IntelliPurge® Nitrogen Purge Valve is not CE Marked, CE Pending.

The Potter IntelliPurge® Nitrogen Purge Valve monitors the fire protection system to ensure high purity nitrogen is consistent throughout the sprinkler system.

The INS-1500 (EU) is to be connected to a new or existing fire sprinkler system. This system includes an air compressor, nitrogen membrane, all air filtration equipment, tanks and the Potter IntelliGen™ Controller.

The Potter IntelliGen™ Controller ensures the contractor the easiest setup and operation of any nitrogen generator system in the industry. Each unit is designed to be turned on and walk away. The built-in monitoring capabilities will make corrections and alert you to any necessary changes.

Technical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor Package Size</td>
<td>1880mm (74&quot;) H x 940mm (37&quot;) W x 610mm (24&quot;) D</td>
</tr>
<tr>
<td>Nitrogen Cabinet Size</td>
<td>1778mm (70&quot;) H x 766mm (31&quot;) W x 314mm (13&quot;) D</td>
</tr>
<tr>
<td>Nitrogen Tank Size</td>
<td>1346mm (53&quot;) H x 508mm (20&quot;) Ø</td>
</tr>
<tr>
<td>Compressor Package Weight</td>
<td>295 kg (650 lbs)</td>
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<tr>
<td>Nitrogen Cabinet Weight</td>
<td>210 kg (95 lbs)</td>
</tr>
<tr>
<td>Nitrogen Tank Weight</td>
<td>155 kg (70 lbs)</td>
</tr>
<tr>
<td>Air Compressor Power Supply®</td>
<td>380-415 VAC (11.1A) three phase 50 Hz</td>
</tr>
<tr>
<td>Available in:</td>
<td></td>
</tr>
<tr>
<td>Rated Working Pressure</td>
<td>10.00 BAR (145 PSI) (1,000 kPa)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>10°C (50°F) to 43°C (110°F)</td>
</tr>
</tbody>
</table>

*Note: Requires two (2) 220 V 50 Hz connections for nitrogen cabinet and air tank blow-down solenoid.
Installation

The Potter INS-1500 (EU) should be installed in a dry, clean, and well ventilated room with ambient temperatures above 50°C at all times. Allow access to the front for service and place the unit in a location that is conveniently located near fire sprinkler system connections, a drain, and a dedicated electrical connection. The Potter IntelliGen™ Nitrogen Generator should always be installed in an adequately ventilated room. Rapid release of nitrogen gas into an enclosed space displaces the oxygen and can cause an asphyxiation hazard. For detailed installation and operation instructions please refer to the Potter IntelliGen™ Nitrogen Generator Manual #5403653.

Cabinet Dimensions

Fig 1
Tank Dimensions

Fig 2

1/2" BSPT BALL VALVE
NITROGEN INLET

1/2" BSPT BALL VALVE,
SPRINKLER SYSTEM CONNECTION

450mm
[17 7/8"]

1346mm
[53”]

1005mm
[39 5/8”]

38mm
[1 1/2”]

508mm
[20”]

14.3mm (9/16") X 19.8mm (7/8”)
SLOT LOCATED 90° APART ON
A Ø431.8mm (Ø17") BOLT
CIRCLE (4 PLCS)

227 LITER (60 GALLON)
NITROGEN STORAGE TANK

1/2" FNPT BALL VALVE

NITROGEN TANK
PRESSURE GAUGE

ASME SAFETY RELIEF VALVE

CE STAMPED

Potter Electric Signal Company, LLC • St. Louis, MO • Phone: 800-325-3936 • www.pottersignal.com
**Compressor Dimensions**

*Fig 3*

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1119633</td>
<td>INS-1500 (EU), 380-415VAC 3PH 50 HZ</td>
<td>IntelliGen™ Nitrogen System-1500 (EU), 380-415VAC Three Phase</td>
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<tr>
<td>1119478</td>
<td>INS-PV</td>
<td>IntelliPurge® Nitrogen Purge Valve*</td>
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<td>1119784</td>
<td>NGP-SPV</td>
<td>Potter Purge Valve</td>
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<td>1119621</td>
<td>NGP-AMD-1</td>
<td>Potter Air Maintenance Device</td>
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<tr>
<td>1119504</td>
<td>PNA</td>
<td>Portable Nitrogen Analyzer</td>
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</tbody>
</table>

*Note: The Potter IntelliPurge® Nitrogen Purge Valve is not CE Marked, CE Pending.*