# waukerha



## Mini Inert Air Systems

Economical Solution for Protecting All Your Transformer Oil

Mini Inert Air Systems (MN2) are lightweight, compact and inexpensive N2 pressure regulating devices for virtually all transformer oil preservation applications. Possible uses include oil tanker trucks, transformers, load tap changers and bulk oil storage systems.

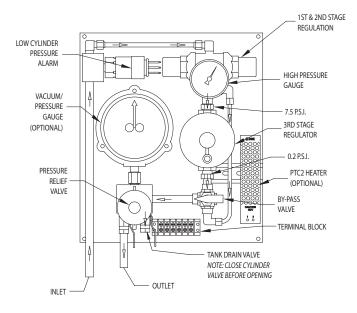


Designed as an economical solution for protecting transformer oil from oxidation and moisture absorption, the Waukesha® mini inert air system maintains a regulated nitrogen blanket on virtually any oil storage tank system. Like the full size inert air systems, the MN2 utilizes sophisticated pressure regulators and valves to ensure tank pressure stays between 0.2 psi and 5.5 psi at all times.

#### THREE-STAGE PRESSURE REDUCER ADJUSTMENT

The pressure reducer assembly regulates the flow of nitrogen gas from supply cylinder to storage tank in three stages:

- **Stage 1** Reduces nitrogen gas flow pressure from the cylinder from 3000 psi to 100 psi.
- Stage 2 Reduces gas pressure from 100 psi to 7 psi.
- **Stage 3** Reduces gas pressure from 7 psi to 0.5 psi and controls the flow of gas to the tank; Stage 3 regulation can be bypassed for purge applications.





SEE BACK SIDE FOR PART NUMBER CONFIGURATION TOOL.

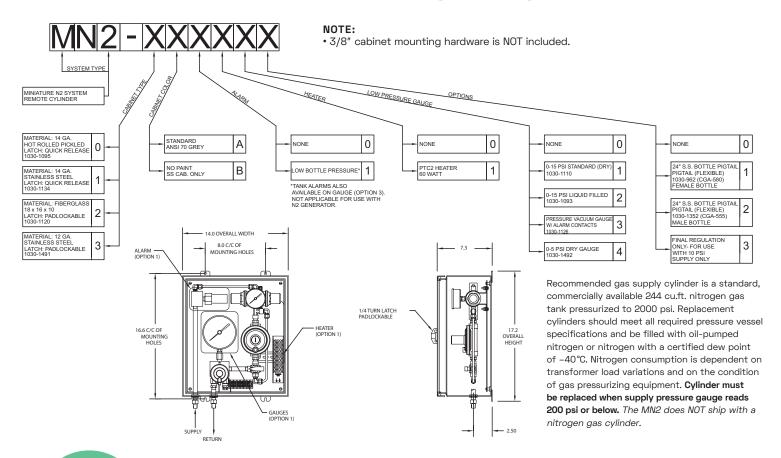
#### **TANK PURGING**

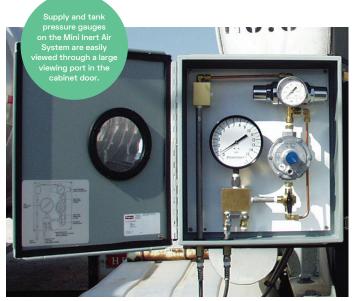
Nitrogen gas pressurizing system may be used to quickly purge the storage tank of contaminated gas or air. Turning the by-pass regulating valve to the by-pass position allows fresh nitrogen to flow directly from the 2nd stage regulator, through a by-pass line, to the tank inlet at 7–8 psi, instead of the 0.5 psi standard regulation. In addition, a manually operated tank pressure relief valve located inside the enclosure helps ensure operator safety when disconnecting pressure lines.

CABINET SPECIFICATIONS (3/8" cabinet mounting hardware NOT included)	
Material	Cabinet – 14 ga. NEMA-style carbon steel; Hinge – Piano type, full length of enclosure; Cabinet Handle – Quarter turn latch with provision for padlocking
Sealing Provisions	Rubber door gasket
Viewing Port	5-1/2" diameter polycarbonate
Exterior Finish	ANSI 70 (gray) polyurethane topcoat
External Seams	Continuously welded
Mechanical Strength	For added rigidity, all internal components are mounted on back of inside panel
Wiring	FEP wire with ring tongue terminals

Custom cabinet options available upon request to meet specific customer needs.

### **Build Your Own Part Number Using Configuration Below**





#### **GAUGES AND OPTIONS**

2" pressure gauge provides visual indication of supply cylinder pressure while a standard 4" pressure gauge monitors tank pressure and is also available in a vibration-resistant, liquid-filled version for transportation applications. Optional contacts signal if gas pressure at the supply cylinder drops below 200 psi or storage tank pressure falls outside the user set point, and a heater assembly can be added for extreme cold weather conditions. Cabinets available in either standard hot-rolled pickled steel, stainless steel or fiberglass construction options; all come standard with padlockable, weather-resistant quarter turn latches.

Contact us for more information. To download a technical manual, field maintenance manual and/or technical paper, visit our website.

To continually improve its products and services, Prolec-GE Waukesha, Inc., reserves the right to change specifications and features without notice. Please contact us for certified dimensions and drawings.

LOCATION

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