

Nitrogen Purging Systems Economics

SAVES YOU MONEY BY:

- Pays for itself, ROI of less than a year, just in replacement regulator costs.
- Saving time, quick and simple to operate, simplifies training.
- Flows are preset. Consistently delivers the proper amount of nitrogen for the task, no wasted product. Eliminates the guess work.
- Not having an exposed regulator body, which is prone to damage and replacement.
- The gauge on the VN Series always shows how much nitrogen is left in the cylinder. No more unexpected trips to the gas supplier because you didn't know your old cylinder was empty.
- Only having 1 brass to brass connection point compared to two on a conventional cylinder/regulator/hose setup. Fewer potential leak points.
- Reducing "on the job" injuries with the ergonomic handle and carrier system.
- Easily refilled with a Western Enterprises cascade transfill system. Contact Western Enterprises for further details.

ORDERING INFORMATION

DESCRIPTION	PART #
-------------	--------

COMPLETE SYSTEM

with 22 c.f. aluminum cylinder	VN-122
with 22 c.f. aluminum cylinder w/carrier	VN-122C
with 44 c.f. aluminum cylinder	VN-144
with 44 c.f. aluminum cylinder w/carrier	VN-144C

HEAD ONLY

VN Series Regulator Head 1 1/8"-12 UNF for converted CO ₂ cylinders (10-20 lb)	VN-101
VN Series Regulator Head 3/4"-16 UNF for aluminum cylinders	VN-102
VN Series Regulator Head 3/4"-14 NGT for industrial steel cylinders	VN-103

CYLINDER CARRIER

cylinder carrier w/shoulder strap	VC-55
-----------------------------------	-------

TRANSFILL SYSTEMS

VN Series Transfill: 4 supply-1 fill	TN-4-1
VN Series Transfill: 5 supply-3 fill	TN-5-3
cylinder wall bracket-2 cylinder	SWB-2-1
cylinder wall bracket-3 cylinder	SWB-3-1
cylinder wall bracket-4 cylinder	SWB-4-1



HVAC VN Series



NITROGEN PURGING SYSTEMS FOR THE HVAC INDUSTRY



CONTACT:

For more information contact:

Western Enterprises
875 Bassett Road
Westlake, OH 44145

1.800.783.7890

www.westernenterprises.com

Information subject to change without notice.



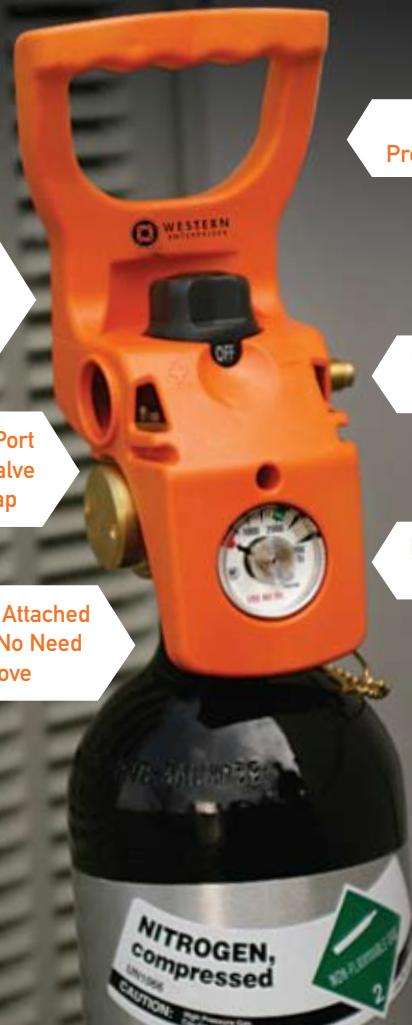
HVAC VN Series
(0906)

B20586 ECN-14762



What You Should Know

About This Revolutionary System Designed Specifically for the HVAC Industry



High Impact Protective Shroud

4-Position Flow Control Knob

1/4" SAE Outlet Connection

CGA 580 Fill Port with Check Valve and Dust Cap

Fully Protected Content Gauge

Permanently Attached Regulator - No Need to Remove

What is a "VN Series System"?

The "VN" is a nitrogen regulator / cylinder system, designed specifically for the HVAC industry, utilizing a lightweight aluminum cylinder with a permanently attached regulator.

How does it work and is it easy to use?

It is very simple to use. To purge the lineset, set the Flow Control knob to the PRG (purge) position. Once the line is purged, simply turn the Flow Control knob to the BRZ (brazing) position and braze all joints. After all the joints have been brazed, turn the Flow Control knob to the TST (test) position and leak check all joints.

What is PRG, BRZ, and TST?

PRG is the purge setting. On this setting, nitrogen is flowing at about 30 cubic feet per hour. BRZ is the braze setting. On this setting, nitrogen is flowing at about 3 cubic feet per hour. TST is the test position. When the Flow Control knob is in the TST position, the VN Series System delivers up to 170 PSI of pressure to leak test the newly brazed joints in the lineset, as recommended by the HVAC OEMs.

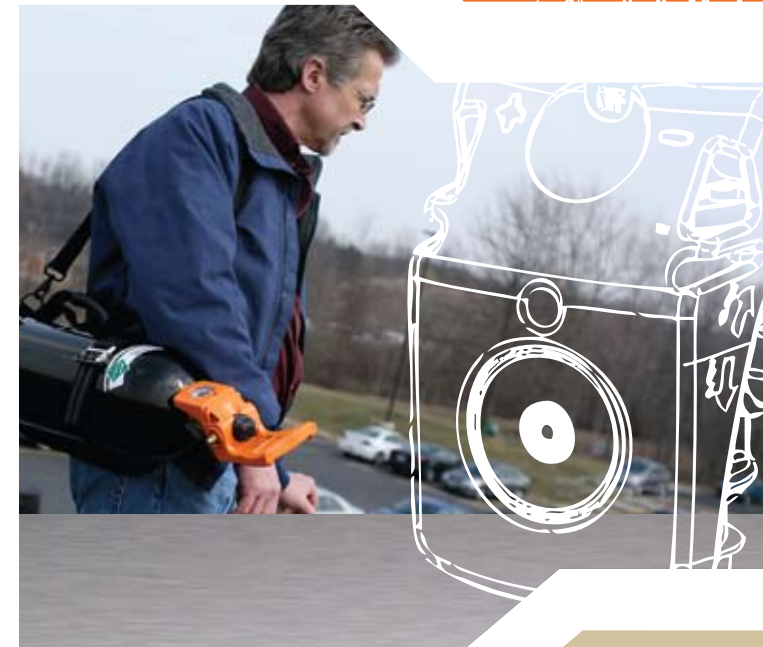
What happens if I don't use Nitrogen to purge the line set prior to brazing?

Dry nitrogen should always be supplied through the tubing before and during brazing because the temperature required to braze is high enough to cause oxidation of the copper, unless it is in an inert atmosphere such as nitrogen. The purpose of the nitrogen is to displace any oxygen in the lines and minimize the formation of oxides. As the AC unit is put into service, these oxide flakes may dislodge and may become trapped in the TXV or metering orifice, leading to premature compressor failure. Manufacturers may not honor a warranty if the compressor failure is a result of improper brazing procedures.

Can I use the VN Series System for commercial installations?

Yes you can. The VN Series System was designed and engineered for residential and light commercial applications on units up to 5 tons. Typically, a technician can expect between 3 to 6* residential installations with a single VN Series System before needing to have it refilled.

* based on cylinder size, line set length, and other factors.



Does my VN Series System have a warranty?

Western Enterprises warrants your VN Series System will be free from manufactured defects in material and workmanship for a period of two (2) years.

I own several of my own cylinders. Can I buy just the VN Series System head and carrier strap?

Sure, Western Enterprises has designed and offers VN Series System heads to fit almost any cylinder, either aluminum or steel. The carrier strap system is engineered to be universal and will fit any intended cylinder.

Is there a benefit to using an aluminum cylinder compared to steel?

For 22 and 44 cubic foot aluminum cylinders, there is a 15% - 25% weight reduction compared to comparable steel cylinders.



WESTERN
ENTERPRISES

