



SERVICE AND APPLICATION NOTES

VRF System Pressure Testing Guidelines

Issue: In accordance with CSA standard B52-05 (or -13) and ANSI/ASHRAE 15, Lennox VRF system pressure testing guidelines must be followed for all system installations.

Solution:

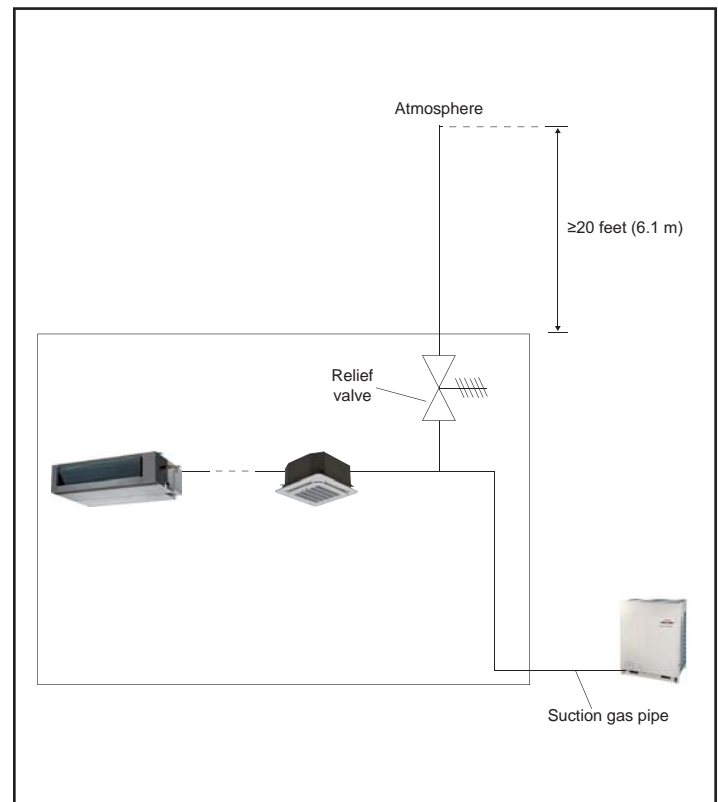
IMPORTANT!			
Use only oxygen-free nitrogen (OFN).			

Pressure Test Specifications

1	3 bar	44 psig	minimum of 10 minutes
2	15 bar	220 psig	minimum of 10 minutes
3	32 bar	470 psig	minimum of 10 minutes
4	45 bar	650 psig	1 hour. Stress test to prove the integrity of the complete installation.
5	32 bar	470 psig	24 hours. Lower system pressure test, after confirmation No. 4 was successfully completed.

For systems containing more than 110 lb (50 kg) of R410A refrigerant, pressure-relief devices and fusible plugs shall discharge to the atmosphere at a location not less than 15 ft (4.57 m) above the adjoining ground level and not less than 20 ft (6.1 m) from any window, ventilation opening, or exit in any building. Local codes may lower this charge limit and shall be investigated by the design engineer.

- VRF system design pressures are 650 psi (4.48).
- Piping systems, and pressure-regulating relief valves, shall be designed to maintain operating pressures up to 639 psi (4.40 Mpa).
- Pressure-regulating relief valves may be isolated during pressure testing.



Refrigerant Discharge

Contact Lennox VRF Applications support with any questions.

email: vrftechsupport@lennoxind.com

phone: 844-GET-VRF1 (844-438-8731)