

Toxic Gas Recessed - TGR for VRF Applications

KEY POINTS

- VRF systems are growing in popularity
- Refrigerant leaks are a health and safety concern
- A Senva TGR toxic gas sensor helps protect occupants

UNDERSTANDING VARIABLE REFRIGERANT FLOW

Variable refrigerant flow (VRF) systems are becoming more common in commercial and multi-family residential buildings due to their energy efficiency and cost savings. They provide individualized cooling & heating to many different indoor spaces, creating an ideal environment and level of comfort for each occupant. These benefits do not come without the risk of refrigerant leaks.

Refrigerant leaks are a major concern for building occupants. Although newer A2L refrigerant gases are made to be less toxic and less flammable, they can still cause a fire or asphyxiation. Safety precautions must be followed during the installation and servicing of VRF systems and their components. Once the VRF system is operational, Senva's TGR technology should be used to mitigate the health and safety risks of refrigerant gas leaks.

SOLUTION

Senva's TGR series is aesthetically designed with occupants health and safety in mind. Common applications include hotel rooms, dormitories, apartment units, and commercial buildings. The TGR easily integrates into any system with BACnet/Modbus protocols or an analog signal to provide real-time status on the environment and gas concentrations. Two adjustable setpoint relays can be used to activate exhaust fans and alarms. The device also comes standard with an audible/visual alarm if external alarms are not available. Keep building occupants safe with Senva's toxic gas sensors.

ADDITIONAL FEATURES

- Calibrated to specific refrigerant gases
- Field replaceable elements
- 7-year warranty on electronics; 2-year on elements
- USA made, Build America Buy America compliant
- UL/cUL Listed device

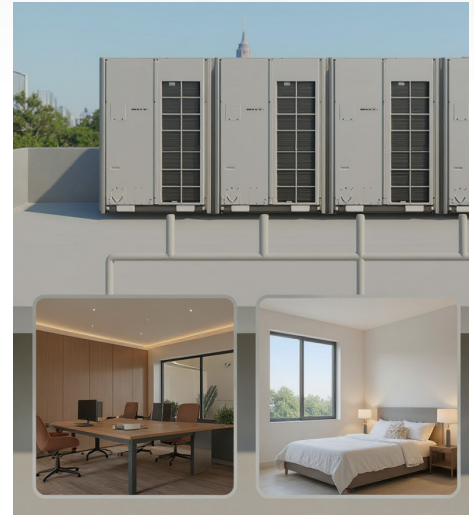


Figure 1: VRF Systems provide ideal, individualized cooling & heating to many indoor spaces.



Figure 2: Senva's TGR series has a sleek, low-profile design



Warning: Application notes contain installation ideas and tips. Although developed by engineers and installers, Senva disclaims any liability for injury or losses due to information provided. This information does not supersede codes and/or ordinances or regulatory standards. Application notes do not comprehensively cover safety procedures for working with live electrical equipment. Refer to installation instructions that accompany products and heed all safety instructions. Product improvement is a continuing process at Senva; changes may occur to products without prior notice. Copyright © 2020 by Senva Inc. All rights reserved.



7 year limited warranty