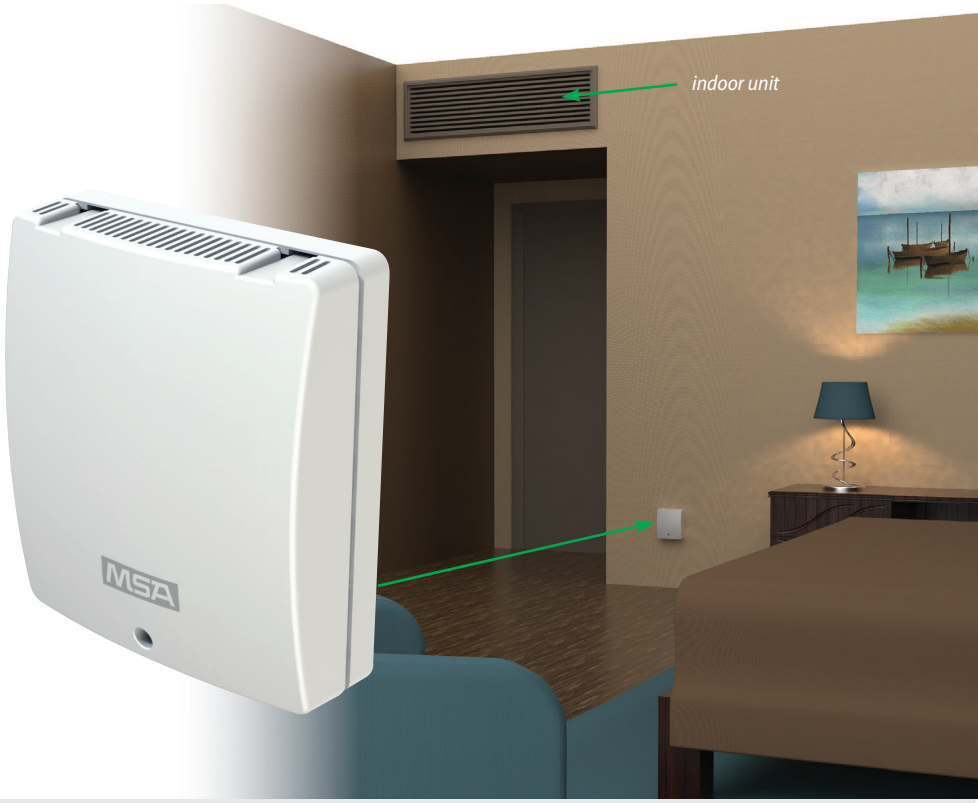
Chillgard® VRF **Refrigerant Detector**

For Occupied Spaces Using VRF/VRF Systems

MSA
The Safety Company

The Chillgard VRF Refrigerant Detector with photoacoustic infrared (PAIR) sensing technology enables devices to operate for long periods of time without adjustment or zero drift. It provides a stable zero baseline while achieving low detection levels at 25 ppm minimum detection. Audible buzzer notifies when a leak is detected.



Earliest Level of Detection

Stability

Not affected by temperature and humidity swings, minimizing drift

Sensitivity

25 ppm minimum detection level with our patented PAIR technology

PAIR
Photoacoustic Infrared Technology

The Chillgard VRF provides continuous, real-time monitoring down to 25 ppm with patented Photoacoustic Infrared (PAIR) Technology. PAIR technology is largely unaffected by temperature or humidity to help reduce drift and increase accuracy.

Communication

Modbus
BACnet

Communicates directly to building management systems via Modbus, BACnet, or analog

Lowest Cost of Ownership

2 YEAR WARRANTY

Unique in the industry, MSA's IR sensors don't require calibration, only an annual check

WE KNOW WHAT'S AT STAKE.

MSA
The Safety Company

How You Can Save Costs with Using the Chillgard VRF

- Operates accurately without requiring calibration
- No moving parts for low maintenance
- 2-year warranty
- No need to replace sensors or other spares
- Direct connection to BACnet, no additional converter or gateway needed

Ordering Information	
Part Number	*Description*
10175201	Chillgard VRF, Voltage, Modbus
10175202	Chillgard VRF, Current, Modbus
10175203	Chillgard VRF, Voltage, BACnet
10175204	Chillgard VRF, Current, BACnet

Specifications	
DIMENSION	4.7″ x 4.1″ x 1.7″ (11.9 cm x 10.4 cm x 4.3 cm)
WEIGHT	0.51 lb. (230 g)
VISUAL INDICATIONS	2 LEDs to indicate fault and alarm
RELAY (1) w/RATED LOAD	1A @ 30 VDC
OPERATING POWER	24 VDC ±20%, 24 VAC ±20%, 50/60Hz, class 2
POWER CONSUMPTION	≤ 5 watts
WIRING	14AWG max, 2.5 mm^2, Class 2 copper wiring
OUTPUT OPTIONS	4-20 mA sourcing, ≤ 500 ohm load, 2-10 V, 10k ohm load, RS-485 Modbus RTU, BACnet MS/TP
OPERATING TEMPERATURE	32° to 140°F (0° to 60°C)
RELATIVE HUMIDITY (RH)	0–99% non-condensing
PRESSURE	10.2 to 15.7 PSIA (70 to 108 kPA)
OPERATING RANGE	0-1000 ppm
MINIMUM DETECTION	25 ppm
MINIMUM ALARM	50 ppm
RESPONSE TIME	T50 less than 240 seconds
REPEATABILITY	±10 ppm at 50 ppm
LINEARITY BETWEEN 25–50 PPM BETWEEN 50–100 PPM	 ±10 ppm ±20% of reading
AUDIBLE ALARM	80 dB at 12″ (30 cm)
STANDARD GASES	R-410a
WARRANTY	2 years
APPROVALS CANADA US INTERNATIONAL CE APPROVAL	BACnet BTL listed CAN/CSA-C22.2 No. 61010-1-12 UL Std. No. 61010-1 (3rd edition) IEC61010-1:2010 (3rd edition) CB certificate CE approval, Complies with the applicable LVD and EMC directives REACH/RoHS Compliance

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit ***MSAsafety.com/offices***.