



Month Topic: Refrigeration Detection



Hydrochloroflorocarbon (HCFC) – these compounds consist of hydrogen, chlorine, fluorine, and carbon atoms. HCFC were developed for manufacturing and refrigeration processes but have now raised concern for damaging the ozone layer. HCFC such as R-22 and R-123 will be phased out by 2030 as a result of the Montreal Protocol

Hydrofluorocarbon (HFC) – these compounds consist of hydrogen, fluorine, and carbon. HFC’s were developed as a safer alternatives that do not harm the ozone. R-134a, R-404a, R-407a, and R-410a are replacements for older HCFC’s.



Why utilize a refrigerant detector?

- ❖ **Minimize Refrigerant Loss** - Even though most refrigerants are non-toxic and non-flammable they are very expensive. By installing a refrigerant detector this will provide advance detection to minimize the loss of refrigerant in the system.
- ❖ **Minimize Electrical Cost** - Another concern is the efficiency of the refrigeration system. Not having enough refrigerant will cause your system to work harder and use more electricity to maintain the necessary temperature levels
- ❖ **Product Loss** - With an inefficient system lacking refrigerant can cause spoilage for the goods needing to be maintained at a constant temperature
- ❖ **Minimize Fines** – improper monitoring and removal of refrigerants can lead to expensive fines imposed by the EPA
- ❖ **Safety** – Asphyxiation, also known as suffocation, a condition of severely deficient amount of oxygen supply to the body that can lead to unconsciousness and even death



Refrigerants Detected by the RD-6 & RD-12

R-22	R-134A	R-404A	R-407C	R-410A
<p>Macurco Gas Products</p> <ul style="list-style-type: none"> • Commercial RD-6 Detector • Commercial RD-12 Detector • Other Gas Products 	<p>Gas in the News</p> <ul style="list-style-type: none"> • Refrigerant Leak Detection • Detection Benefits • 8 Injured in Freon Leak 	<p>Learn More</p> <ul style="list-style-type: none"> • Refrigerants • R-22 Phase-out • Montreal Protocol 		

Applications

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| <ul style="list-style-type: none"> ✓ Grocery Stores ✓ Convenience Stores ✓ Restaurants ✓ Cold Storage Rooms ✓ Meat Processing Plants | <ul style="list-style-type: none"> ✓ Mechanical Rooms ✓ Refrigerators ✓ Distribution Centers ✓ Fishing Vessel Chillers ✓ Fruit Ripening Stores | <ul style="list-style-type: none"> ✓ Fast Food Restaurants ✓ Cold Storage Rooms ✓ Residential ✓ Commercial Buildings ✓ Restaurants |
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