JOHNSON CONTROLS - Refrigerant Leak Detector

RLD-H10PM

Selection Chart

RLD-H10PM Refrigerant Leak Detector

DESCRIPTION

The RLD-H10PM is a professional grade leak detector used by refrigeration and A/C technicians. This detector senses all CFC, HCFC, & HFC refrigerants and blends, such as R12, R502, R22, R404a, R507, and R134a among others. The RLD- H10PM is self-powered with a rechargeable battery & provides both manual and automatic compensation for background levels of refrigerant. A full line of accessories and maintenance kits are also available, including replacement sensors, tune-up kits, probe extensions, battery chargers, and leak vial bottles. The RLD-H10PM is a direct replacement for the RLD-H10P.

FEATURES

- Positive ion emission heated diode sensor provides the most sensitivity available today, while still detecting all halogenated refrigerant gases.
- Rechargeable battery w/low & full charge LED's enhances portability - no external power req.
- Switchable for manual or automatic balance to allow user to chose preferred method compensation for background refrigerant levels.
- Exceeds SAE J1627 moving probe specification, which minimizes call-backs because the leak is found the first time, is verifiable, and the fix can be confirmed.
- External calibration source and calibration indicators indicate when the sensor is working properly and serves as a reference point to judge leak size.

Repair Parts

Contact Johnson Controls application engineering at (414) 524-5535 for repair information.

PART NO	DESCRIPTION
RLD-H10PM-1	Refrigerant leak detector and charger

Accessories

PART NO	DESCRIPTION
RLD-H10-100	14 inch flexible probe extension
RLD-H10-101	120 VAC power supply adapter
RLD-H10-102	Cigarette lighter adapter
RLD-H10-103	Replacement battery charger
RLD-H10-104	Replacement battery pack recharger (included in RLD-H10-105)
RLD-H10-105	Rechargeable 12 V battery belt pack
RLD-H10-601R	Replacement sensor
RLD-H10-604R	Spare battery for RLD-H10P
RLD-H10-607R	Replacement probe assembly

SPECIFICATIONS

RLD-H10PM Refrigerant Leak Detector		
Power Requirements		12 VDC, charger 13.5 VDC. An adaptor is available to allow unit to run from 120 VAC power (RLDH10-101).
Sensing Element Type		Positive Ion Emission Heated Diode
	Switch Position	**Alarm Sensitivity (moving probe)**
Approximate Sensitivity	Small	>0.05 oz per year CFC and HCFC >0.5 oz per year HFC
	Medium	>0.5 oz per year CFC and HCFC >1.0 oz per year HFC
	Large	>2.0 oz per year CFC and HCFC >5.0 oz per year HFC
Leak Alarm		Audible alarm, visible lamp neon
Response Time		Approximately 1 second
Warmup Time		Approximately 2 minutes
Accuracy		Meets SAE J1627 test requirements
Probe Length		Approximately 4.5 ft (1.4m)
Ambient Operating Conditions		32 to 104°F (0 to 40°C); 5-90% RH, non-condensing
Ambient Storage Conditions		14 to 140°F (-10 to 60°C); 5-90% RH, non-condensing
Case		Rugged high-density polyethylene
Dimensions (H x W x D)		5.5 x 10.5 x 8.5 in. (140 x 267 x 216 mm)
Shipping Weight		5 lb (2.3 kg)
Agency Listings		UL and cUL Listed, File SA9717 CE Approved

JOHNSON CONTROLS - Refrigerant Leak Detector

RLD-H10G

Selection Chart

DESCRIPTION

The RLD-H10G is a professional grade leak detector for use by refrigeration and air conditioning technicians. This detector senses all CFC, HCFC, and HFC refrigerants and blends, such as R12, R502, R22, R404a, R507 and R134a, among others. The RLD-H10G plugs into a 120 VAC outlet.

FEATURES

- Positive ion emission heated diode sensor provides the most sensitivity available today, while still detecting all halogenated refrigerant gases.
- Halogen selective sensing eliminates many sources of possible false alarms due to background contamination.
- High quality air pump supplies constant air flow to sensor so it responds quickly to leaks; also helps sensor recover quickly after exposure to refrigerant so leak can be verified.
- Visual and audible signal facilitates sensing in noisy equipment rooms with 360° visibility and piercing tone; frequency of noise/light indicates magnitude of leak.
- Exceeds SAE J1627 moving probe specification; minimizes service time because the leak is found the first time, is verifiable, and the fix can be confirmed.
- External calibration source indicates when the sensor is working properly and serves as a reference point to judge leak size.

PART NO	DESCRIPTION
RLD-H10G-1	Refrigerant Leak Detector control unit with a manual balancing circuit, a probe with a 4.5 ft cable, and a 6 ft power cord

Accessories

PART NO	DESCRIPTION
RLD-H10-600R	Tune-up kit includes: sensor, 100 filters, 3 airflow indicator balls, 3 probe tips and leak vial
RLD-H10-602R	Maintenance kit includes:100 replacement filters,3 airflow indicator balls, and 3 probe tips
RLD-H10-603R	Replacement leak vial
RLD-H10-606R	Replacement clear plastic probe tip

SPECIFICATIONS

RLD-H10G Refrigerant Leak Detector	
Power Requirements	120 VAC at 60 Hz
Sensing Element Type	Positive Ion Emission Heated Diode
Approximate Sensitivity	**Switch Position — Alarm Sensitivity (moving probe)** Small — >0.05 oz per year CFC or HCFC; >0.5 oz per year HFC Medium — >0.5 oz per year CFC or HCFC; >1.0 oz per year HFC Large — >3.0 oz per year CFC or HCFC; >5.0 oz per year HFC
Leak Alarm	Audible alarm, visible neon lamp
Response Time	Approximately 1 second
Warm-up Time	Approximately 2 minutes
Accuracy	Meets SAE J1627 test requirements
Probe Length	Approximately 4.5 ft (1.4 m)
Ambient Operating Conditions	32 to 113° F (0 to 45° C); 5 to 90% RH, non-condensing
Ambient Storage Conditions	14 to 140° F (-10 to 60° C); 5 to 90% RH, non-condensing
Case	Vinyl
Dimensions (H x W x D)	2.8 x 8.8 x 5.0 in. (71 x 224 x 127 mm)
hipping Weight	3.2 lbs (1.4 kg)
Agency Listings	UL listed, file SA 9717