



Empowering you to work smarter

# NML1 Leak Detector

Featuring a semiconductor sensor and a high-performance rechargeable lithium battery, it is precise, durable and easy to carry.

Leading Technology, Superior Quality, Best Experience.

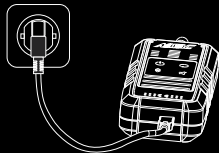
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Semiconductor Sensor

Lithium Battery

Charging Cable



## Precise Measurement

### Semiconductor Sensor

- Precise measurement
- Extended service life

### Lithium Battery

- Rechargeable

### Ergonomic Design

- Easy to carry

### Sniffing Fan

- 2 CFM ball bearing fan for very small leaks

<b>Model</b>	<b>NML1</b>
Refrigerants	CFC, HCFC, HFC refrigerants
Minimum of leakage	≤0.1 oz / year (R-134a)
Response time	≤3 s (depending on the size and location of leak)
Battery life	≥8 hours
System pressure	≥50 psi
Sensor life	≥ 1 year under normal usage (1500 h)
Length of probe	15.7 in
Weight	0.77 lbs
Calibration	Auto
Fan	2.2 CFM

**1-YEAR WARRANTY**



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# NMV1 Micron Vacuum Gauge

It uses the Pirani high-precision vacuum sensor to precisely measure vacuum levels. Digital display affords a comprehensive view of vacuum conditions. When reaching the preset vacuum level, it will buzz as a reminder. When the vacuum level increases from the preset vacuum level, it will buzz rapidly and flash the backlight to warn of leaks.

Leading Technology, Superior Quality, Best Experience.

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Large Backlit Display

Buzzing Alert



Pirani Vacuum Sensor

## Precise Measurement

### Pirani Vacuum Sensor

- Professional grade
- More precise

### Large Backlit Display

- Easy-to-read large digital display
- Backlit for clarity
- Auto power off

### Buzzing Alert

- Vacuum level reminder
- Vacuum leakage warning

### Ergonomic Design

- Easy to carry

Model	NMV1
Maximum overload pressure	14 psi
Range	0~10000 Pa, 0~100 mBar, 0~75 mmHg, 0~75000 microns
Resolution	0.01 (10 Pa), 0.0001 (10 mBar), 0.0001 (10 mmHg), 1 (30000 microns)
Accuracy	15-750 micron: ±5% of reading (at 68°F)
Operating temperature	32~122°F (0~50°C)
Unit	Pa, mBar, mmHg, microns
Sensor	Pirani sensor
Buzzer alarm	90 dB, shut down after 10 seconds
Weight	4.5 oz

**1-YEAR WARRANTY**



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# NRC62i Smart Refrigerant Charging Machine



## Smart Charging

### High Performance Vacuum Pump

- More efficient
- High ultimate vacuum

### Wireless Refrigerant Scale

- Precision charging
- Accuracy 0.05%

### Smart Control

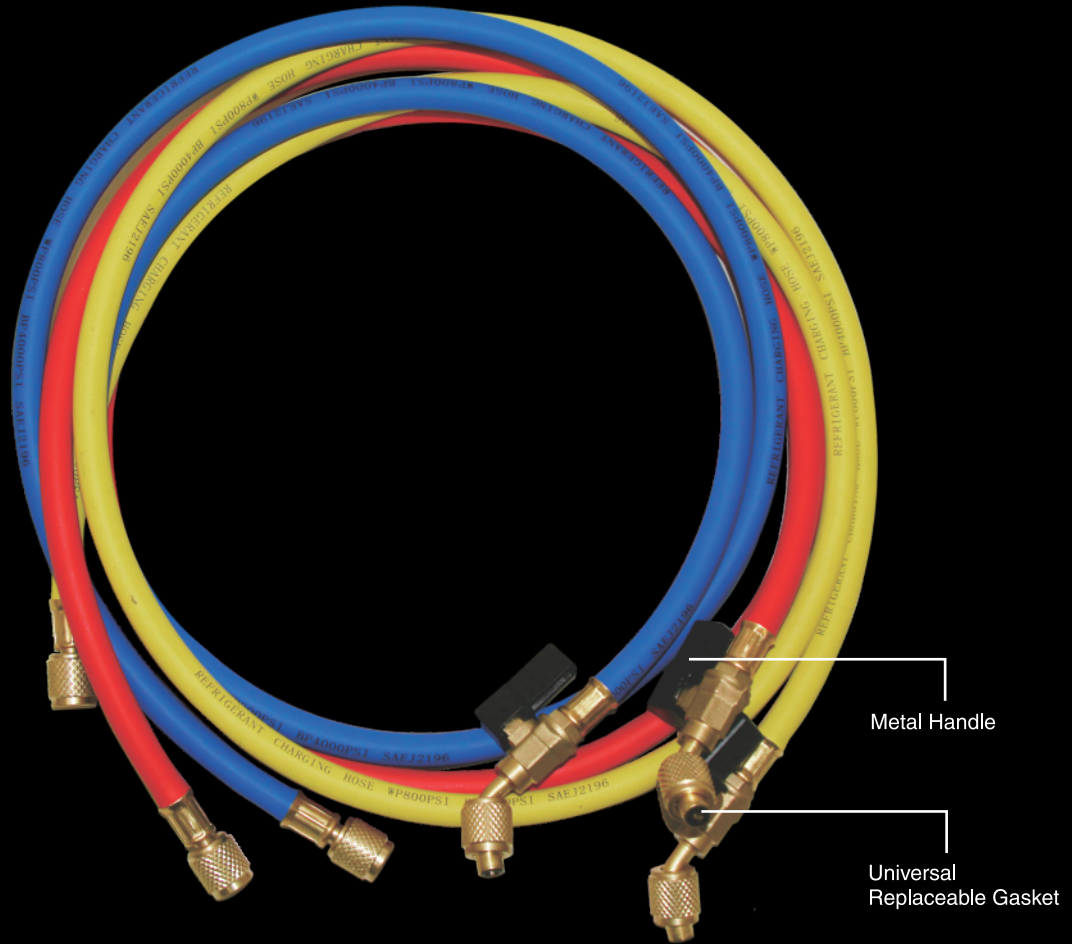
- Automatic operation
- Built-in leak detection
- Real time status display and warning

Model	NRC62	
Power Supply	V/Hz	115V / 60Hz
Evacuation Rate	CFM	6
Charge Rate	lbs / min	4
Motor Power	HP	1/2
Operating Temperature	°F	41 - 104
Dimension	in	19.7 × 10 × 14.5
Weight	lbs	46.9
Accessory	NRS2 01, NRHH53	



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# NH5SC Refrigerant Hose



## 1/4" Low-Loss Charging Hoses, 5 Ft Long

### High Strength

- Low-loss ball valve
- Suitable for R-410A, R-134a, R-22 and other refrigerants
- 1/4" SAE fittings with 45° bend on one end
- Leak-proof eight-sided crimp
- 800 psi working pressure, 4000 psi burst pressure

### Improved Design

- Metal valve handle
- Universal, replaceable gasket

Model	NH5SC		
Type	Red	Yellow	Blue
Pressure Scale	psi		
Length	ft		
Connector	in		

**1-YEAR WARRANTY**





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**NRM2B0201  
NRM2B0202  
NRM2B0301  
NRM2B0302  
Manifold Gauge**



# Precision • Impact-Resistant

**Accurate**

- Precision pressure gauge with Class 1.0 accuracy

**Folding Hook**

- Hidden hook design, easy to transport

**Aluminum Body with Ball Valve Handle**

- Reliable, efficient and durable
- Better work experience

**Impact-Resistant**

- Impact-resistant design
- Durable rubber cover

Model	NRM2B0201		NRM2B0202		NRM2B0301		NRM2B0302	
Refrigerant Type	R-22, R-134a, R-410A		R-22, R-134a, R-410A		R-22, R-404A, R-410A		R-22, R-404A, R-410A	
	Φ 2-5/8							
Pressure Range	psi			-30 inHg to 800 psi		-30 inHg to 500 psi		
		Red 1/4" - 1/4"	Yellow 1/4" - 1/4"	Blue 1/4" - 1/4"	No Hose	Red 1/4" - 1/4"	Yellow 1/4" - 1/4"	Blue 1/4" - 1/4"
Standard Length	ft	3x5'	No Hose	No Hose	No Hose	3x5'	No Hose	No Hose

**1-YEAR WARRANTY**



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# NTF66 NTF66C Flaring Tool

NAVAC Flaring Tools, with axial spacing and patented rivet connection, deliver consistent, accurate flaring each and every time. Nitride treatment makes them more robust and durable.

Leading Technology, Superior Quality, Best Experience.

**Empowering You to Work Smarter**



## Accurate Flaring

### Axial Spacing

- Ensuring accurate and consistent flaring

### Internal Clutch

- Preventing over-torquing

### Nitride Treatment

- Longer service life
- Robust and durable

### Patented Annular Rivet Connection



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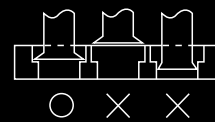
②



③



④



Model	NTF66	NTF66C
Tubing OD	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Accessory	/	NTC11 (Cutter)

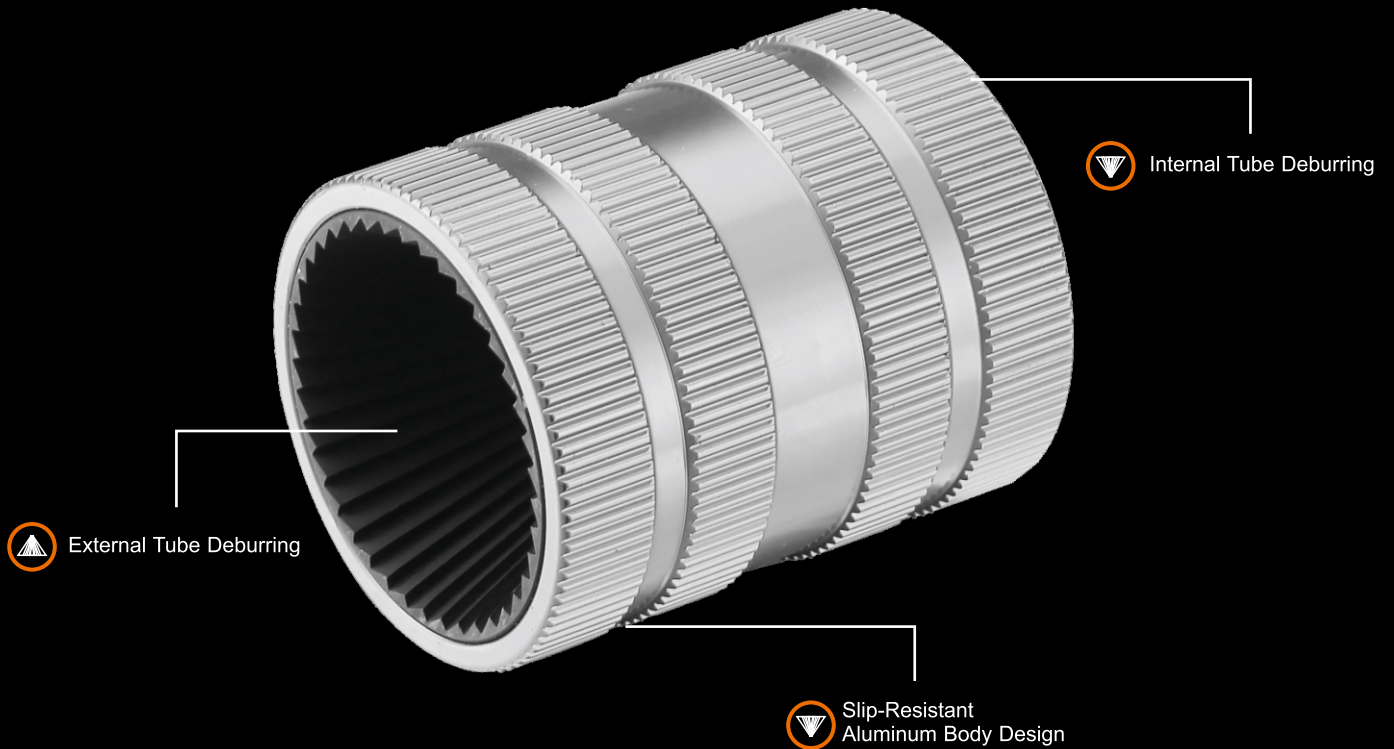
**1-YEAR WARRANTY**



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## NTR14

### Internal & External Reamer



## Easy to Deburr

### Multi-blade Alloy Steel Internal Surface

- Easy to deburring

### Slip-Resistant Aluminum Body Design

- Light weight

Model	NTR14
Tube O.D.	1/8" ~ 1-5/8"

January 2011

## Product

Pro-Bubble™

## Features

- Clinging formula
- Pinpoints micro leaks
- Safe

## Benefits

- Cohesive flow properties cause the product to flow to the leak. Enhances bubble production and duration.
- Makes a cluster of small bubbles at the leaking point
- Odorless, non toxic, non-corrosive

## Directions

1. Adjust nozzle for desired spray pattern.
2. To leak-check new installations or repairs, spray all joints and new connections with Pro-Bubble™ and check for bubbles. Large leaks develop bubbles quickly. Small leaks make a group of small bubbles that may take some time to form.
3. To find leaks in existing systems, spray the suspected pipes, tubing or connections with Pro-Bubble™ and inspect for bubble formation as above.
4. Vibration leaks are easier to detect when the system is running.
5. Pro-Bubble™ may be reactivated with a water spray or reapply to help verify the location of the leak.



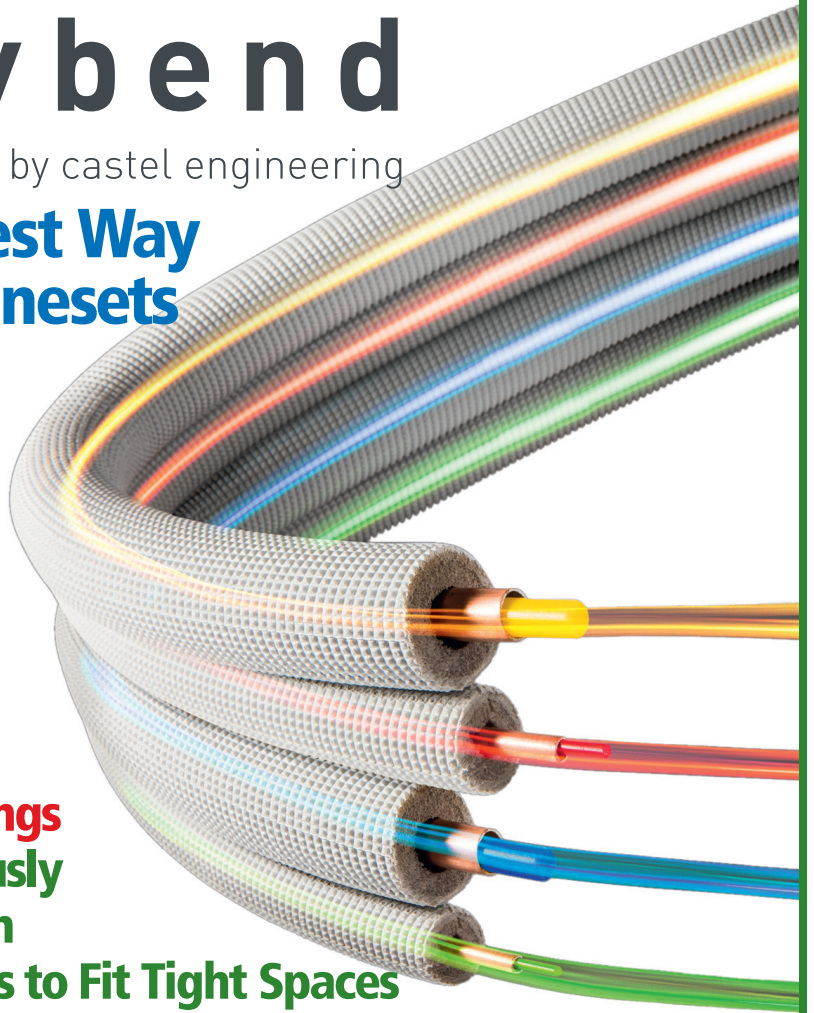




# easybend

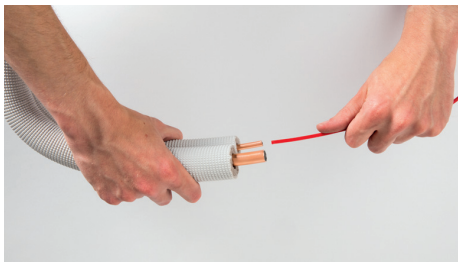
by castel engineering

The Quickest and Easiest Way  
to Bend Soft Copper Linesets



- No More Kinking
- No More Tube Benders or Bending Springs
- Bends Both Lines Simultaneously
- No Need to Remove Insulation
- Easily Forms Compound Bends to Fit Tight Spaces
- Does Not Damage Insulation
- Kit Includes 4 Sizes to Suit Most Minisplit/VRF Applications
- 3/4" Mandrel for Ducted Systems Available as Separate Item
- Individual Replacement Mandrels Available in All Sizes

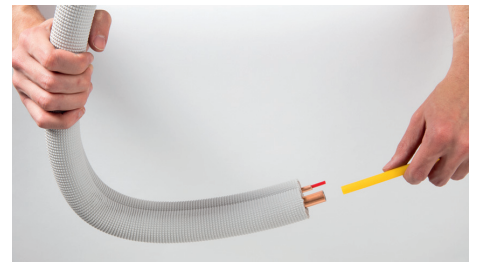
**IT'S AS SIMPLE AS 1 • 2 • 3**



**1. insert the correct color coded Easybend mandrel(s) into the line(s).**



**2. Bend the lineset(s) to the required angle.**



**3. Remove the Easybend mandrel(s).**

**NOTE: Ensure that minimum bend radius is within lineset manufacturer's tolerances.**



# easybend

by castel engineering

- 13 foot length lets you reach up high to make your first bend out of the wall
- Extreme flexibility allows you to make very tight bends
- Easy to insert, easy to extract
- Color coded for easy ID
- Durable, Industrial grade LDPE will last indefinitely.
- For use on soft copper only.
- Reusable indefinitely, no maintenance required, just wipe off the mandrel with a clean dry cloth after every use.
- Suitable for use between -58° and +176°F
- Red, Green, Yellow & Blue Mandrels packaged in a handy bagged kit for easy transport and storage



**PART NO. EZBK** Kit includes Red, Green, Yellow & Blue

PART NO.	COLOR	DIAMETER	LINESET SIZE
EZB14R	RED	4 mm	1/4"
EZB38G	GREEN	6 mm	3/8"
EZB12Y	YELLOW	9 mm	1/2"
EZB58B	BLUE	12 mm	5/8"
EZB34W	WHITE	18 mm	<b>NOT IN KIT</b> 3/4"

**Exclusive Master Distributor for the USA:**

Available from:



**MARKETAIR** Inc.

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# NYLOG

**It's a Sealant:** Nylog is a viscoelastic fluid made from refrigeration grade compressor oil. Gaskets coated with Nylog will never dry or become heat fixed to the surface. Threaded connections coated with Nylog will prevent high pressure leaks by forming a hydraulic seal. The compound always remains temperature and vibration resilient.

**It's a Lubricant:** Nylog can be used as a high tack assembly lube when installing shaft seals, o-rings, schrader valves, ball valves, unloaders or other system components. Nylog is fully miscible and 100% compatible with the refrigerant and base compressor oils.

**NYLOG RED** Is based on Mineral Oil and used on Ammonia, Propane, CFC or HCFC systems.

**NYLOG BLUE** is synthetic ester oils fully compatible with all systems including those based on PVE oil, HFO refrigerants and CO2.

Will Never Harden or Dry

Will Not Clog or Contaminate Systems

Fully Compatible and Miscible

Used and Recommended by OEM's



NYLOG RED	
Base	Mineral Oil
Application	CFC or HCFC Systems
Temp Range	-30 to 350 F
Size	30ml

NYLOG BLUE	
Base	Synthetic Ester Oils
Application	HFC Systems
Temp Range	-35 to 425 F
Size	30ml



Registered for use in all food processing areas.