



Empowering you to work smarter

**NAVAC<sup>®</sup> Inc.**

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Delivering unsurpassed customer value at every opportunity defines the mission of NAVAC. We empower HVAC technicians to work with more accuracy, ease, and efficiency. We achieve this by offering highly differentiated products with leading technology and superior quality. Among these products include the industry's first Brushless DC-Driven Vacuum Pump, North America's first Cordless Vacuum Pump, the world's first 4-Cylinder Digital DC Recovery Unit, and our unique line of battery-operated tubing tools. Among these products are AHR Expo Innovation Awards Winner and multiple Gold Winner Dealer Design Awards, cementing the value they have added to HVAC industry. These tools have served contractors well in delivering unprecedented performance while saving both time and money.

**NAVAC | Empowering You to Work Smarter.**

**Empowering You to Work Smarter**  
Leading Technology · Superior Quality · Best Experience



**Power T3**  
TUBING TECHNOLOGIES FOR TECHNICIANS



**NTB7L**

**BreakFree® Power Tube Bender** PATENT PENDING

It is a tough and frustrating job for HVAC Service Techs when bending large diameter tubes, which consumes tremendous labor work while needs precise focus on bending angles. Furthermore, to get the tube out of a traditional bender mandrel is another frustrating moment. Suitable for tubing sizing 1/4" to 7/8" OD, NAVAC NTB7L saves tons of your time and labor, and makes the job much easier. By pressing a single controller switch, you can bend the tube to any desired angle. When a bend is completed, the baffle will push the tube out automatically while tool resets, helping you to remove the tube effortlessly. Its large capacity lithium battery makes over 100 bends each charge and can be fully charged in 30 minutes. Reverse bending kit NTB7R is available and sold separately.



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**NTB7L**

**BreakFree® Power Tube Bender** PATENT PENDING



**Effortless & Quick Bending**

**Battery-Driven Effortless Bending**

- Powerful for large size tubing
- Push and hold for 90° bending
- Automatic tube release

**Large Lithium Battery**

- Over 100 bends per charge
- Quick charge in 30 minutes

**Patented Tubing Size Selector**

- 7 sizes in one selector
- Easy to switch to different tubing size setting

**Other Features**

- Quick connect mandrel and crossbar
- Battery power indicator

**Easy Operation**

- Ergonomic handle design
- Stop any time for customized angles

Model	NTB7L
Battery Type	7.4V 2Ah 14.8Wh
Tubing Type	Soft (HVACR) Copper
Tube OD	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"
Weight	6.2 lbs (with battery)
Accessory	Carry Case, 3 Mandrels, 1 Battery, 1 Charger



**NEF6LM**

**BreakFree® Power Flaring Tool** 

Weighing less than three pounds, the new Model NEF6LM Power Flaring Tool produces precise, automatic flares in a fraction of the time compared to traditional flaring methods. NAVAC's new cordless flaring solution makes flaring faster and far simpler without sacrificing accuracy or consistency. Offering easy flare connectivity, it can create flares in five sizes, ranging from 1/4" to 3/4". Designed to perform reliably in harsh environments, the NEF6LM Cordless Power Flaring Tool is your ideal flaring solution for mini-split ACs and VRF systems.

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**NEF6LM**

**BreakFree® Power Flaring Tool** 



**NAQC Flare Clamp**

Part No.	Tube OD
NAQC1	5/16"
NAQC2	1/4"
NAQC3	3/8"
NAQC4	1/2"
NAQC5	5/8"
NAQC6	3/4"

**Quick Accurate Flaring · Ultra Light**

- Complete a flare in 15 seconds
- Over 100 flares per charge
- Quick charge in 30 minutes
- Ultra light at 2.9 lbs
- Quick connect with ready-to-use clamps
- 45° flaring for R410A
- Limit baffle assures precise flare depth
- Easy one-button operation
- Battery power indicator
- LED flash light
- Flare gauge included



Model	NEF6LM
Battery Type	7.4V 2Ah 14.8Wh
Tubing Type	Soft (HVACR) Copper
Tube OD	1/4", 3/8", 1/2", 5/8", 3/4"
Weight	2.9 lbs (with battery)
Accessory	Carry Case, NFG1 Flare Gauge, 1 Battery, 1 Charger

TUBING TOOLS

TUBING TOOLS



**NTE11L**

**BreakFree® Power Tube Expander** PATENT PENDING

Get the job done quickly with the NTE11L BreakFree® Power Tube Expander. Expand a tube in 12 seconds by pressing one button. The long-lasting rechargeable lithium battery allows up to 200 expansions on a single charge. Battery and charger are compatible with NAVAC NEF6LM BreakFree® Power Flaring Tool. Expander heads from the NTE11H Hydraulic Expander can be shared with NTE11L with a NAQA1 adapter.

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**NTE11L**

**BreakFree® Power Tube Expander** PATENT PENDING

Get the job done quickly with the NTE11L BreakFree® Power Tube Expander. Expand a tube in 12 seconds by pressing one button. The long-lasting rechargeable lithium battery allows up to 200 expansions on a single charge. Battery and charger are compatible with NAVAC NEF6LM BreakFree® Power Flaring Tool. Expander heads from the NTE11H Hydraulic Expander can be shared with NTE11L with a NAQA1 adapter.

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**Powerful, Quick & Accurate Expanding**

- One-button operation
- Automatic pressure relief
- Quick connect heads
- Large capacity lithium battery
- Complete an expansion in 12 seconds
- Up to 200 expansions per charge
- Quick charge in 30 minutes
- Battery power indicator
- LED flash light

Model	NTE11L
Battery Type	7.4V 2Ah 14.8Wh
Tubing Type	Soft (HVACR) Copper
Tube OD	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8"
Weight	3.4 lbs (with battery)
Accessory	Carry Case, 7 Expander Heads, 1 Battery, 1 Charger



**NTB7**  
Ratcheting Tube Bender



**Compact and Reliable**

**Easy and Fast Bending**

- Quick connect mandrels
- Single crossbar for all sizes
- 90° bending angle marks
- Smooth sweep bends with no kinking

**Patented Tubing Size Selector**

- 7 sizes in one selector
- Easy switch to different tubing size

**Other Features**

- Ergonomic handle design
- Reverse bending structure available
- Light and compact design

<b>Model</b>	<b>NTB7</b>	
Tubing Type	Soft (HVACR) Copper	
Tube OD	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"	
Weight	3.7 lbs	
Accessory	4 Mandrels, Crossbar with Tubing Size Selectors, Carry Case, Reverse Bending Kit*	*Sold separately under NTBRK

**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.

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**Accurate Flaring**

**Axial Spacing**

- Ensuring accurate and consistent flaring

**Nitride Treatment**

- Longer service life
- Robust and durable

**Patented Annular Rivet Connection**

**Internal Clutch**

- Preventing over-torquing

**Eccentric Cone**

- 45° flare for R410A system

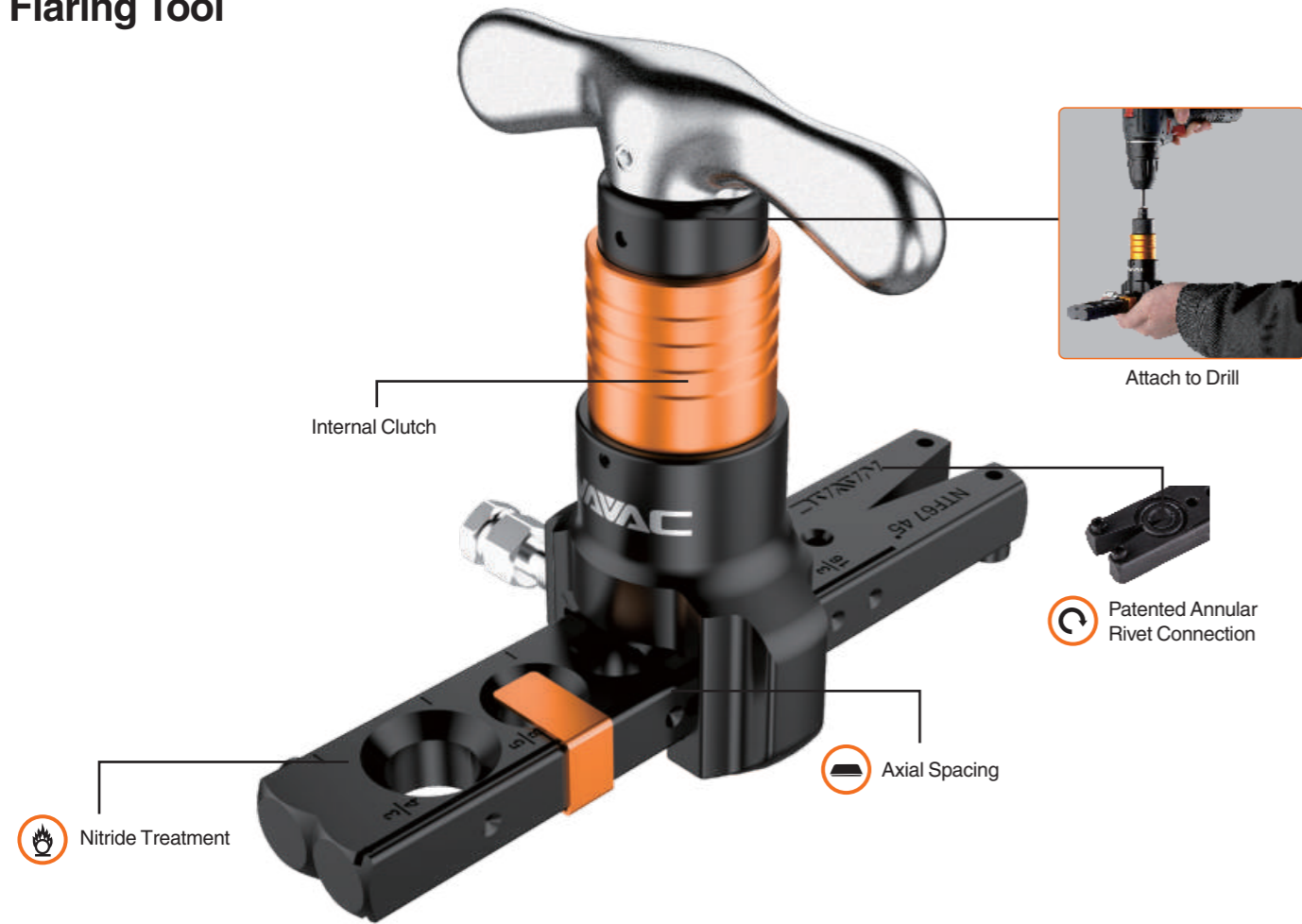
**Heavy-Duty Handle & Shaft**



<b>Model</b>	<b>NTF66</b>	<b>NTF66C</b>
Tube 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	Carry Case	Carry Case, NTC12 (Cutter)



## NTF67D Hand and Drill-Powered Flaring Tool



## Accurate Flaring

### Hand or Drill-Powered

- Efficient and labor-saving with drill attached

### Axial Spacing

- Axial spacing for accurate and consistent flaring
- Eccentric cone with 45° flare

### Nitride Treatment

- Longer service life
- Robust and durable

### Patented Annular Rivet Connection

### Internal Clutch

- Preventing over-torquing

### Eccentric Cone

- 45° flare for R410A system



Model	NTF67D
Tube OD	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Accessory	Carry Case, NFG1 Flare Gauge

## NTE7 Tube Expander

NAVAC NTE7 Tube Expander, with its simple structure and foldable design, is convenient to carry and easy to use. Leading Technology, Superior Quality, Best Experience.

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## Easy to Expand

### Easy to Carry

- Foldable design for portability

### Easy to Use

- Simple structure for expanding copper tubing



Model	NTE7
Tube OD	3/8", 1/2", 5/8", 3/4", 7/8"



**NTE11H2**  
Hydraulic Tube Expander



**NTEQHK**  
Quick Connect Expander Kit  
1-1/4", 1-3/8", 1-1/2", 1-5/8"  
(Sold Separately)

**Effortless and Durable**

**Hydraulic Expander**

- Vacuum sealed hydraulic system, no oil change needed
- Innovative hydraulic oil system design for easy expansion
- Suitable for large diameter copper

**Compact, Easy to Use**

- Convenient for narrow spaces
- Easy one-hand operation

**Automatic Pressure Relief**

- Tube released at final trigger compression
- Built-in manual relief button

**Quick Connect Expander Heads**

- Quarter-turn head design, quick to attach/remove

Model	NTE11H2		
Tubing Type	Soft (HVACR) Copper		
Tube OD	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8" *Sold separately under NTEQHK		
Weight	2.3 lbs		
Accessory	NTD28 (Deburring Tool), Carry Case		

**NTC6**  
**NTC12**  
**NTC15**  
Tube Cutter

With sharp cutting blade, ball bearings and aluminum alloy body, it makes tube cutting easy and efficient.

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**NTC15, NTC12**

**PC15W, PC12W, PC6W**  
Replacement Cutting Wheel Set  
(2 blades & 1 pin)

**NTC6**

**Easy to Cut**

**High-Quality Cutting Blade**

- Sharp and durable
- One extra blade supplied

**Ball Bearing**

- Easy cutting and better quality
- Short cut for flare ends, saving copper

**Aluminum Alloy**

- Light weight, easy to carry and use

Model	NTC6	NTC12	NTC15
Tube OD	1/8" - 3/4"	1/8" - 1-1/4"	1/4" - 1-5/8"
Blade Diameter	0.7" (18mm)	0.9" (23mm)	1.2" (30mm)



**NTW1**  
Digital Torque Wrench

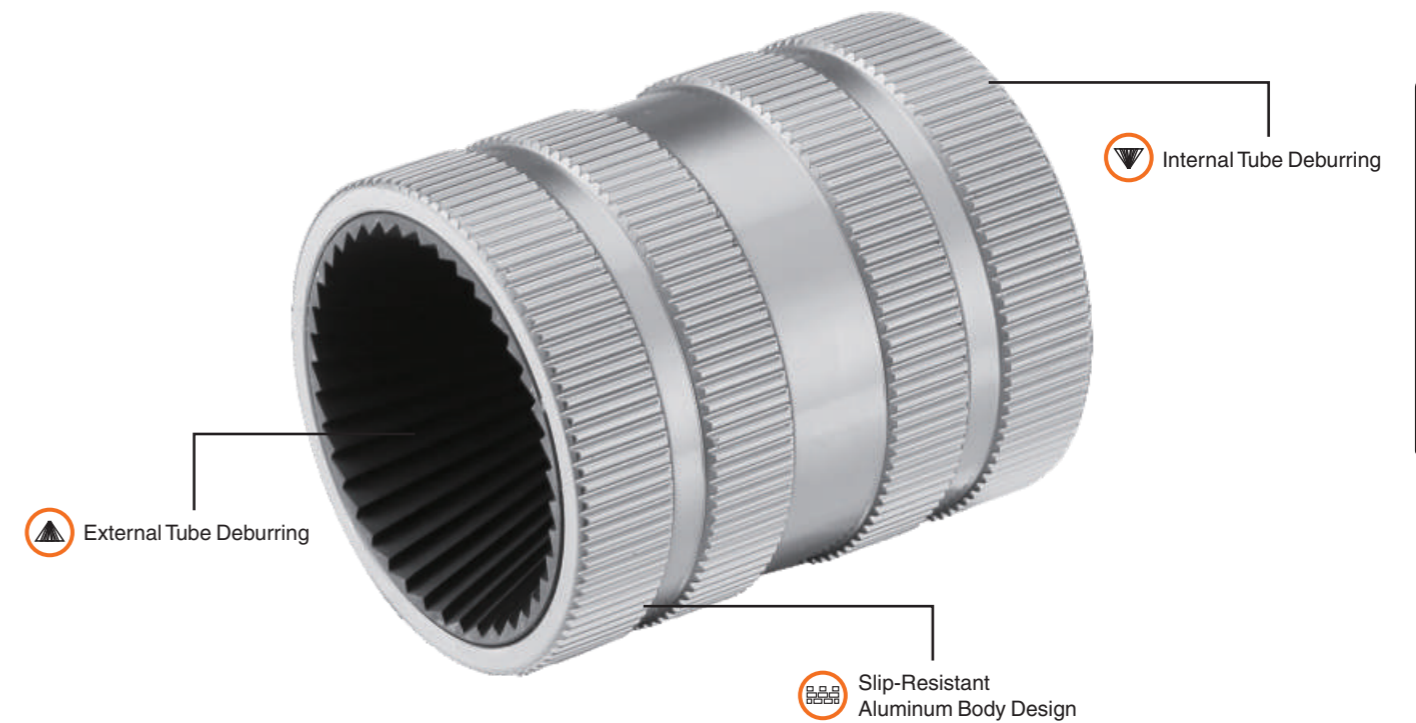


**Digital Readout · Adjustable Jaw**

- Accurate within 2%
- Dual direction (CW & CCW)
- 50 data memories & 9 pre-sets
- Peak hold
- Auto turn-off after 5 minutes inactivity
- Selectable measuring units (ft-lb, in-lb, N-m, kg-cm)
- Indicator lights and sound for target torques

Model	NTW1
Torque Measuring Range	3.1 - 62.7 ft-lb (4.2 - 85 N-m)
Jaw Size	0.2 - 1.2 inch (5 - 30 mm)
Weight	3 lbs
Accessory	Storage Case

**NTR14**  
Internal & External Reamer



**Fast, Easy and Clean**

**Multi-Blade Alloy Steel Internal Surface**

- Easy to clean internal and external tubing surfaces

**Slip-Resistant Aluminum Body Design**

- Light weight
- Durability

Model	NTR14
Tube OD	1/8" - 1-1/2"



**NTD28**  
Tube Deburring Tool



**Easy to Carry and Use**

**Replaceable Blades**  
• 2 spare blades included

**Easy to Carry**

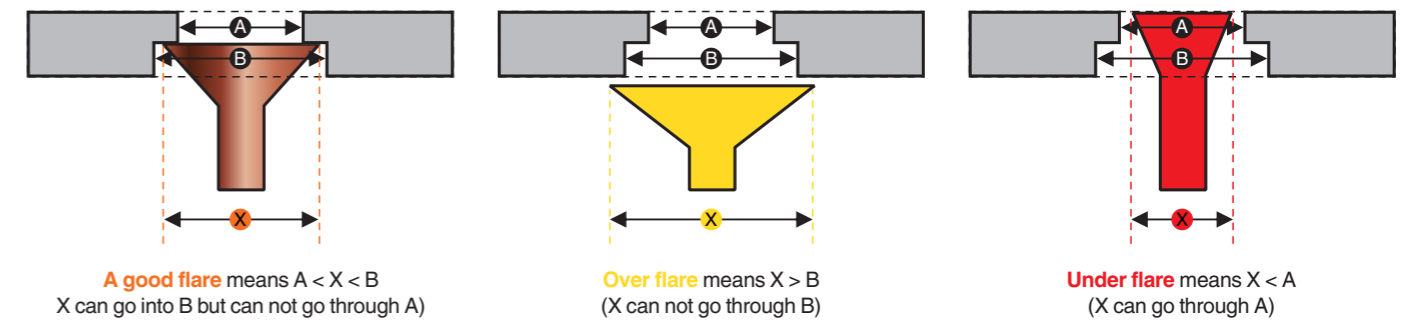
**NFG1**  
Flare Gauge



**Ensuring Perfect Flares**

Tube OD: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"

For Precise Measurement of Tube Flares





**NKS2**  
Mini-Split Tool Kit



**NAVAC Advanced Tool Kit for Mini-Split Installation**

**NEF6LM Power Flaring Tool**

- Quick accurate flaring
- Ultra light at 2.9 lbs

**NTW1 Digital Torque Wrench**

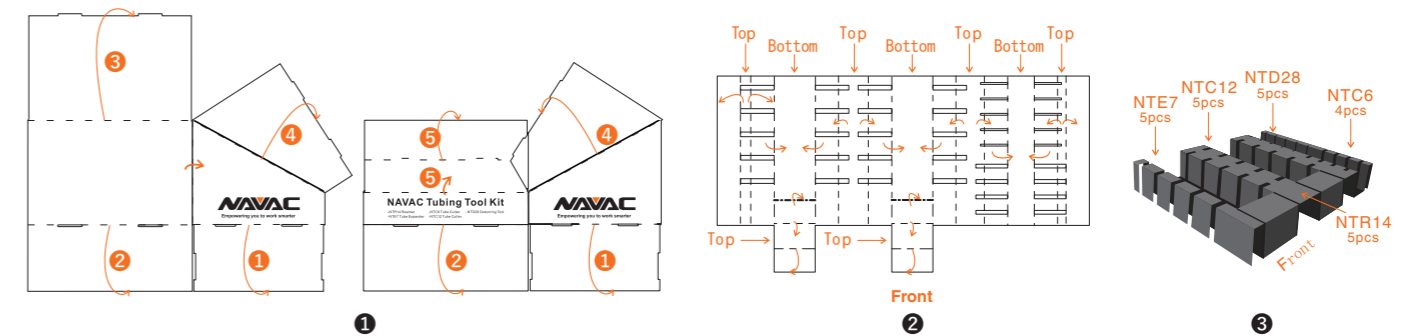
- Digital readout
- Adjustable jaw

**NVR1 Valve Core Removal Tool**

- 2 sizes (1/4" & 5/16") in 1 tool
- Designed for high-pressure refrigerants

Model	Item	Specification	Quantity	Warranty
NEF6LM	BreakFree Power Flaring Tool	Lithium battery: 7.4V 2Ah 14.8Wh Tube OD: 1/4", 3/8", 1/2", 5/8", 3/4"	1	2-year
NTW1	Digital Torque Wrench	3.1 - 62.7 ft-lb (4.2 - 85 N-m)	1	1-year
NVR1	Valve Core Removal Tool	Vacuum rated to 20 Microns For use with both 1/4" and 5/16" flare fittings	1	1-year
NHK1	30-Piece Hex Wrench Set	SAE: 7/250"-3/8" Metric: 0.7-10 mm	1	1-year
NTC6	Tube Cutter	Tube OD 1/8" ~ 3/4"	1	1-year
NTC12	Tube Cutter	Tube OD 1/8" ~ 1-1/4"	1	1-year
NTR14	Internal/External Reamer	Tube OD 1/8" ~ 1-1/2"	1	1-year
NTD28	Tube Deburrer	2 spare blades included	1	1-year
NFG1	Flare Gauge	Tube OD: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	1	1-year
NAB1	Tool Bag	Heavy duty tool bag	1	1-year

**NTK1**  
Tubing Tool Kit



**Your Favorite NAVAC Tubing Tools**

**Counter Displayable**

**Convenient Showcase**

**Easy to Refill**

Item	Description	Quantity
NTE7	Tube Expander, 7/8" Max OD	5
NTR14	Internal/External Reamer, 1-1/2" Max OD	5
NTC12	Tube Cutter, 1/8"-1-1/4" Max OD	5
NTC6	Tube Cutter, 3/4" Max OD	4
NTD28	Tube Deburrer	5
MM014	2 sets of counter display cartons	1



## NR7 Recovery Unit

Introducing the NR7 Recovery Unit, a compact and lightweight machine weighing just 20.3 lbs, ensuring easy storage and transportation for HVAC techs. With its brushless DC motor, the unit offers a soft starting experience. The NR7's purge function prevents refrigerant mixing, and its large condenser and oil-free compressor accommodate all common refrigerants, ensuring maximum efficiency for technicians. Moreover, the NR7 has CSA safety certification, providing technicians peace of mind with full-tank and high-pressure protection. Boasting an efficient design, twin-cylinder system, and one-key operation, the NR7 is a great choice for quick and reliable recoveries. A2L compatibility and a focus on user-friendly functionality establish the NR7 as a great solution for HVAC recovery needs.

Leading Technology, Superior Quality, Best Experience.  
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Scan the QR code to learn more about features and benefits of the NR7 Recovery Machine.

## NR7 Recovery Unit



## Compact · Light · Swift

### Compact and Light

- Small & light weight, only 20.3 lbs
- Easy to store and carry

### Brushless DC Motor

- Soft & easy starting
- Compact & efficient

### Fast Recovery

- Twin cylinder
- Large condenser

### CSA Safety Certification

- Full-tank, Overload & High Pressure protection

### One Key Operation

- Easy to use

### Purge Function

- Prevent mixing of various refrigerants

### Oil-Free Compressor

- Suitable for all common refrigerants

### A2L Compatible

Model		NR7				
Refrigerant Type		Category III: R-12, R-134a, R-1234yf, R-401C, R-500 Category IV: R-22, R-401A, R-401B, R-402B, R-407C, R-407D, R-408A, R-409A, R-502, R-509 Category V: R-32, R-402A, R-404A, R-407A, R-407B, R-410A, R-454B, R-507				
Power Supply	V/Hz	115V/60Hz				
Motor	HP	1				
Rated Current Draw	A	12.5				
Compressor		Oil-less, Air-cooled, Piston style				
Automatic Safety Shut-Off		558 psi/38.5 bar				
Recovery Rate**	lbs / min (kg / min)		R-410A	R-22	R-134a	**Please refer to NAVAC website for latest test results.
		Direct Vapor	0.54 (0.25)	0.58 (0.27)	0.47 (0.21)	
		Direct Liquid	12 (5.5)	9 (4.1)	8 (3.6)	
		Push/Pull Liquid	17 (7.8)	15.8 (7.2)	15 (6.8)	
Dimension	in	12.2 x 9.4 x 9.6				
Weight	lbs	20.3				



**NRRD  
Recovery Unit**



**Light • Fast**

**One Key Operation**

- Easy to use

**Purge Function**

- Prevent mixing of various refrigerants

**Twin Cylinder**

- Fast recovery

**High Pressure Protection**

- Added safety

**Oil-Free Compressor**

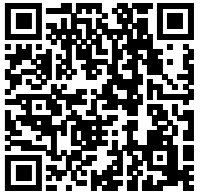
- Suitable for all commonly used refrigerants

Model		NRRD			
Refrigerant Type		Category III: R-12, R-134a, R-401C, R-500 Category IV: R-22, R-401A, R-401B, R-402B, R-407C, R-407D, R-408A, R-409A, R-411A, R-411B, R-412A, R-502, R-509 Category V: R-402A, R-404A, R-407A, R-407B, R-410A, R-507			
Power Supply	V/Hz	115V/60Hz			
Motor	HP	1			
Max Current Draw	A	10			
Compressor		Oil-less, Air-cooled, Piston style			
Automatic Safety Shut-Off		558 psi/38.5 bar			
Recovery Rate	lbs/min		R-410A	R-22	R-134a
		Direct Vapor	0.44	0.49	0.31
		Direct Liquid	6.06	6.17	4.7
		Push/Pull Liquid	12.61	11.60	10.8
Dimension	in	18 x 10 x 14			
Weight	lbs	30			

**NRDD  
Digital DC Recovery Unit**



Fastest Twin-Cylinder Recovery Unit



Scan to see recovery unit comparison sheet

**Fastest in Its Class**

**Fastest in Direct Vapor for R410A, R22**

- UL verified recovery rate, best performance in its class

**Brushless DC Motor**

- Light and more efficient

**Large Backlit Display**

- Easy-to-read large LCD display
- Backlit for clarity

**Twin Cylinder with 2-Row Oversized Condenser**

- Fast recovery

**Oil-Free Compressor**

- Suitable for all commonly used refrigerants

**Purge Function**

- Prevent mixing of various refrigerants

Model		NRDD			
Refrigerant Type		Category III: R-12, R-134a, R-401C, R-500, R-1234yf Category IV: R-22, R-401A, R-401B, R-402B, R-407C, R-407D, R-408A, R-409A, R-411A, R-411B, R-412A, R-502, R-509 Category V: R-32, R-402A, R-404A, R-407A, R-407B, R-410A, R-454B, R-507			
Power Supply	V/Hz	115V/60Hz			
Motor	HP	1			
Max Current Draw	A	12			
Compressor		Oil-less, Air-cooled, Piston style			
Automatic Safety Shut-Off		558 psi/38.5 bar			
UL Verified Recovery Rate	lbs/min (kg / min)		R-410A	R-22	R-134a
		Direct Vapor	<b>0.75 (0.34) 🏆</b>	<b>0.64 (0.29) 🏆</b>	0.57 (0.26)
		Direct Liquid	14.44 (6.55)	11.11 (5.04)	7.85 (3.56)
		Push/Pull Liquid	18.41 (8.35)	17.04 (7.73)	12.81 (5.81)
Dimension	in	14.5 x 9.9 x 11.7			
Weight	lbs	24.3			

🏆 Industry Fastest

\*NAVAC offers a 2-year over-the-counter warranty, which can extend to 3 years with registration on [navacglobal.com/product-registration](http://navacglobal.com/product-registration) within 30 days of purchase.

RECOVERY MACHINES

RECOVERY MACHINES



**NRDDF**  
Recovery Unit for  
Flammable Refrigerants

**A2L, A2 & A3\*\***  
Compatible



**Fast • Compact • Ignition-Proof**

**Sparkless, Ignition-Proof Design**

- Designed and tested to UL 121201, CSA C22.2 No. 213-17 and IEC 60079-7 Standards
- Suitable for A2L, A2 and A3 refrigerants

**Oil-Free Compressor**

- Suitable for all commonly used refrigerants

**Fast and Efficient Recovery**

- Brushless DC motor
- Twin cylinder with 2-row oversized condenser

**Purge Function**

- Prevent mixing of various refrigerants

**Large Backlit Display**

- Easy-to-read large LCD display
- Backlit for clarity

**IP54 Waterproof Design**

- Tested to be waterproof and dustproof

Model	NRDDF				
Refrigerant Type	Category III: R-12, R-134a, R-401C, R-500, R-1234yf, R-600a Category IV: R-22, R-401A, R-401B, R-402B, R-407C, R-407D, R-408A, R-409A, R-411A, R-411B, R-412A, R-454B, R-502, R-509, R-290 Category V: R-32, R-402A, R-404A, R-407A, R-407B, R-410A, R-454B, R-507 <b>**PROHIBITED to use with IIB and IIC refrigerants: RE170, R702, R1150, R429A, R432A, R435A, R510A.</b>				
Power Supply	V/Hz	115V/60Hz			
Motor	HP	1			
Max Current Draw	A	12			
Compressor	Oil-less, Air-cooled, Piston style				
Automatic Safety Shut-Off	558 psi/38.5 bar				
UL Verified Recovery Rate	lbs/min (kg/min)		R-410A	R-22	R-134a
		Direct Vapor	0.75 (0.34)	0.64 (0.29)	0.57 (0.26)
		Direct Liquid	14.44 (6.55)	11.11 (5.04)	7.85 (3.56)
		Push/Pull Liquid	18.41 (8.35)	17.04 (7.73)	12.81 (5.81)
Dimension	in	14.5 x 9.9 x 11.7			
Weight	lbs	24.3			

\* For recovering only HVAC/R refrigerants from sealed HVAC/R systems. Warranty Voided if used for any other purposes.

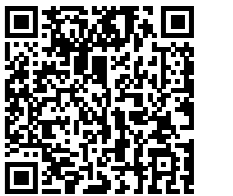
**NRDC4M**  
4-Cylinder Recovery Unit

**4-Cylinder**

**A2L**  
Compatible



Industry Fastest



Scan to see recovery unit comparison sheet



**World's First DC Inverter 4-Cylinder Recovery Unit**  
Fastest • Most Powerful

**4-Cylinder for Powerful Recovery**

- Up to 40% faster than 2-cylinder unit
- Oversized inlet port for faster recovery

**Large Digital Display**

- Easy-to-read large LCD display
- Backlit for clarity

**Super-Efficient Condenser**

- Over-sized micro-channel coil
- 3 cooling fans

**Dual Oil-Free Compressors**

- Suitable for all commonly used refrigerants

**Brushless DC Motor**

- More efficient

**Acceleration Knob Design**

- To achieve faster vapor recovery

Model	NRDC4M				
Refrigerant Type	Category III: R-12, R-134a, R-401C, R-500, R-1234yf Category IV: R-22, R-401A, R-401B, R-402B, R-407C, R-407D, R-408A, R-409A, R-502, R-509 Category V: R-32, R-402A, R-404A, R-407A, R-407B, R-410A, R-454B, R-507				
Power Supply	V/Hz	115V/60Hz			
Motor	HP	1.5			
Max Current Draw	A	12			
Compressor	Oil-less, Air-cooled, Piston style				
Automatic Safety Shut-Off	558 psi/38.5 bar				
UL Verified Recovery Rate	lbs/min (kg/min)		R-410A	R-22	R-134a
		Direct Vapor	1.06 (0.48)	0.99 (0.45)	0.84 (0.38)
		Direct Liquid	16.82 (7.63)	12.76 (5.79)	9.19 (4.17)
		Push/Pull Liquid	18.23 (8.27)	16.76 (7.60)	15.08 (6.84)
Inlet/Outlet Port	in	Inlet 3/8", Outlet 1/4"			
Dimension	in	17 x 10.7 x 12.2			
Weight	lbs	41.9			

\* For recovering only HVAC/R refrigerants from sealed HVAC/R systems. Warranty Voided if used for any other purposes.

RECOVERY MACHINES

RECOVERY MACHINES

**NP2DLM**  
BreakFree® Cordless Vacuum Pump



**Cordless · Compact · Convenient**

**High Performance Lithium Battery**

- High capacity
- Up to 1 hour running time

**Brushless DC Technology**

- Light weight at 8.4 lbs
- Highly efficient

**Compact Design**

- Easy to carry
- Easy to store

**Twin Cylinder**

- Ultimate vacuum down to 23 microns

**Other Features**

- Backflow prevention check valve
- Isolation valve

Model	NP2DLM	
Li-ion Battery		NB1, 18V, 5Ah
Flow Rate	CFM	2
Ultimate Vacuum	micron	23
Pump Design		Dual-Stage, DC Motor
Motor Power	HP	1/6
Inlet Port	in	1/4", 3/8" flare
Oil Capacity	oz	5.1
Dimension	in	9.2 x 3.5 x 7.5
Weight	lbs	8.4 (with battery)
Accessory		Carry bag, NB1 Battery, NC2 Battery Charger

**NP4DLM**  
BreakFree® Cordless Vacuum Pump



**World's Highest Capacity Cordless DC Pump**

**Highest Capacity Cordless Pump**

- 4CFM
- Residential and light commercial applications

**High Performance Lithium Battery**

- High capacity
- Up to 1 hour running time

**Brushless DC Technology**

- Light weight at 15.4 lbs
- Highly efficient

**Compact Design**

- Easy to carry
- Easy to store

**Twin Cylinder**

- High ultimate vacuum down to 15 microns

**Other Features**

- Backflow prevention check valve
- Isolation valve & Lifting hook

Model	NP4DLM	
Li-ion Battery		NBP2, 18V, 9Ah
Flow Rate	CFM	4
Ultimate Vacuum	micron	15
Pump Design		Dual-Stage, DC Motor
Motor Power	HP	1/2
Inlet Port	in	1/4", 3/8", 1/2" flare
Oil Capacity	oz	8.8
Dimension	in	12.4 x 4.4 x 9.4
Weight	lbs	15.4 (with battery)
Accessory		Carry bag, NBP2 Battery, NC2 Battery Charger



**NP5DP**  
Vacuum Pump



**PRO**  
SERIES



**Performance • Reliability**

**Dual-Stage Integrated Cylinder Design**

- High ultimate vacuum
- High reliability

**Internal Check Valve**

- Prevent oil backflow

**Lifting Hook**

- Safe & convenient for roof top use

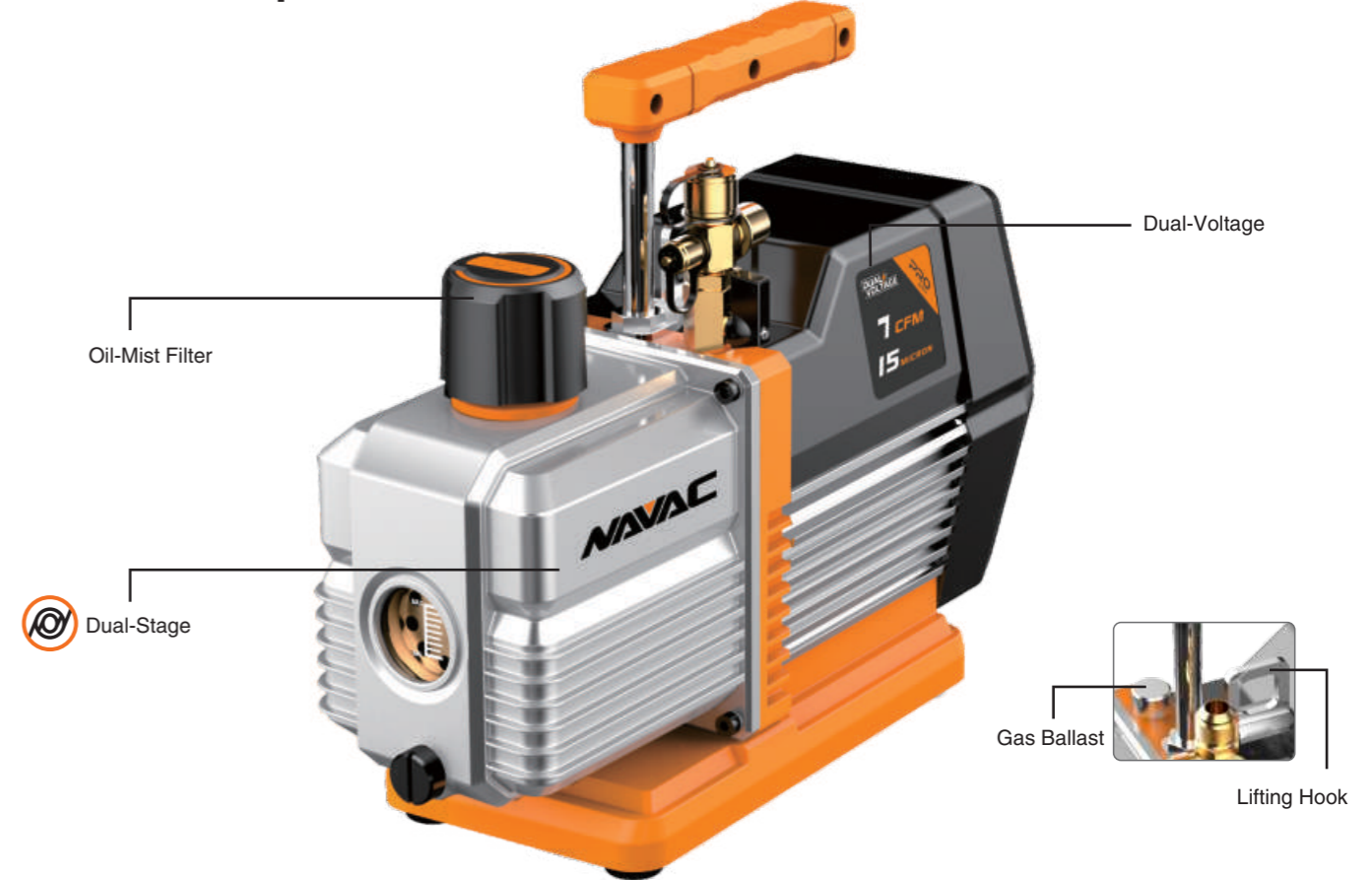
**Forced Oil Circulation**

- Improved efficiency and durability

Model	NP5DP	
Power Supply	115V / 60Hz	
Flow Rate	CFM	5
Run Load Amps	A	4.3
Ultimate Vacuum	micron	15
Pump Design	Dual-Stage, AC Motor	
Motor Power	HP	3/4
Inlet Port	in	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	17
Dimension	in	14 x 5 x 11.3
Weight	lbs	24.3

**NP7DP**  
Vacuum Pump

**PRO**  
SERIES



**Performance • Reliability**

**Dual-Voltage**

- Expanded application

**Dual-Stage Integrated Cylinder Design**

- High ultimate vacuum
- High reliability

**Lifting Hook**

- Safe & convenient for roof top use

**Internal Check Valve**

- Prevent oil backflow

**Forced Oil Circulation**

- Improved efficiency and durability

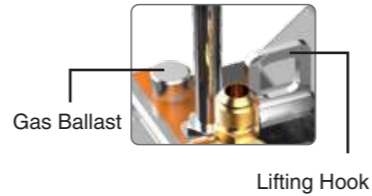
Model	NP7DP	
Power Supply	V / Hz	115V / 60Hz 230V / 60Hz
Flow Rate	CFM	7
Run Load Amps	A	4 (115V), 1.8 (230V)
Ultimate Vacuum	micron	15
Pump Design	Dual-Stage, AC Motor	
Motor Power	HP	3/4
Inlet Port	in	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	15
Dimension	in	14 x 5 x 11.3
Weight	lbs	26

**NP7DP2**  
Vacuum Pump



Oil-Mist Filter

Dual-Stage



Gas Ballast

Lifting Hook

**PRO**  
SERIES

**NP7DPF**  
Vacuum Pump for Flammable Refrigerants



Oil-Mist Filter

Dual-Stage

Sparkless Power Supply



Gas Ballast

Lifting Hook

**PRO**  
SERIES

**Performance • Reliability**

**A2L (R32) Compatible**

- Expanded application

**Dual-Stage Integrated Cylinder Design**

- High ultimate vacuum
- High reliability

**Lifting Hook**

- Safe & convenient for roof top use

**Internal Check Valve**

- Prevent oil backflow

**Forced Oil Circulation**

- Improved efficiency and durability

Model	NP7DP2	
Power Supply	V/Hz	115V / 60Hz
Flow Rate	CFM	7
Run Load Amps	A	4
Ultimate Vacuum	micron	15
Pump Design	Dual-Stage, AC Motor	
Motor Power	HP	3/4
Inlet Port	in	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	15
Dimension	in	14 x 5 x 11.3
Weight	lbs	26

**Reliability • Ignition-Proof**

**Sparkless, Ignition-Proof Design**

- Designed and tested to UL 121201, CSA C22.2 No. 213-17 and IEC 60079-7 Standards
- Suitable for A2L, A2 and A3 refrigerants

**Dual-Stage Integrated Cylinder Design**

- High ultimate vacuum
- High reliability

**Lifting Hook**

- Safe & convenient for rooftop use

**Internal Check Valve**

- Prevent oil backflow

**Forced Oil Circulation**

- Improved efficiency and durability

Model	NP7DPF	
Power Supply	115V / 60Hz	
Flow Rate	CFM	7
Run Load Amps	A	4
Ultimate Vacuum	micron	15
Pump Design	Dual-Stage, AC Motor	
Motor Power	HP	3/4
Inlet Port	in	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	15
Dimension	in	14 x 5 x 11.3
Weight	lbs	26

\* For evacuation of sealed HVAC/R systems only. Warranty may void if used for any other purposes.  
\*\* PROHIBITED to use with IIB and IIC refrigerants: RE170, R702, R1150, R429A, R432A, R435A, R510A.



**NRP6Di  
NRP8Di**  
Smart Vacuum Pump



**Brushless DC with Smart Control**

**Brushless DC Technology**

- Light
- More efficient

**Smart Control**

- Extended evacuation for better vacuum
- Automatic control
- Task reminder

**Built-In Micron Vacuum Gauge**

- Precise vacuum measurement
- Digital display

**Dual-Stage**

- High ultimate vacuum

**Solenoid Valve**

- Prevent oil backflow
- Preserve vacuum

Model		NRP6Di	NRP8Di
Power Supply	V/Hz	115V / 60Hz	115V / 60Hz
Flow Rate	CFM	6	8
Ultimate Vacuum	micron	15	15
Pump Design		Dual-Stage, DC Motor	Dual-Stage, DC Motor
Motor Power	HP	3/4	3/4
Inlet Port	in	1/4", 3/8", 1/2" Flare	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	17.6	17.6
Dimension	in	14 x 5.3 x 11.9	14 x 5.3 x 11.9
Weight	lbs	25.35	25.35

**NP12DM**  
Vacuum Pump

**5** micron **12** CFM



**Fast • Robust • Powerful**

**Industrial Grade Design**

- High quality, super high vacuum
- High evacuation performance

**Oil Backflow Prevention**

- No system oil contamination during power failure

**Brushless DC Technology**

- Light
- More efficient

**Oil Drain Valve**

- Ball valve design, easier to drain

**Integrated Dual-Stage Pump**

- High vacuum level down to 5 microns

**Large Oil Sight Glass**

- Better view of oil level

Model		NP12DM
Power Supply	V/Hz	115V / 60Hz
Flow Rate	CFM	12
Ultimate Vacuum	micron	5
Pump Design		Dual-Stage, DC Motor
Motor Power	HP	1/2
Inlet Port	in	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	28
Dimension	in	16.3 x 6 x 12.1
Weight	lbs	32

**NP12DA1**  
**Ammonia Vacuum Pump**

**5** micron **12** CFM

**Ammonia**



Indoor Application



**Robust and Corrosion-Resistant**

**Corrosion Resistant for Ammonia (R-717)**

- Special corrosion resistant pump parts
- Stainless steel inlet port

**Ignition-Proof Design**

- Electronic starter for ignition prevention

**Brushless DC Technology**

- Light
- More efficient

**Oil Drain Valve**

- Ball valve design, easier to drain

**Industrial Grade Design**

- Super high vacuum level down to 5 microns
- Heavy duty for industrial applications

**Large Oil Sight Glass**

- Better view of oil level

Model	NP12DA1	
Power Supply	V / Hz	115V / 60Hz
Flow Rate	CFM	12
Ultimate Vacuum	micron	5
Pump Design	Dual-Stage, DC Motor	
Motor Power	HP	1/2
Inlet and Exhaust Flange	KF25	
Oil Capacity	oz	28
Dimension	in	16.3x6x12.1
Weight	lbs	32

\* For evacuation of sealed HVAC/R systems only. Warranty may void if used for any other purposes.

**NRD16T**  
**Industrial Vacuum Pump**



**Suitable for Heavy Commercial Applications**  
**Industry-Leading Ultimate Vacuum down to 3 Microns**  
**Fast Evacuation with Power and Reliability**

**Adjustable Gas Ballast Valve**

**Oil Backflow Prevention**

**Integrated Cylinder Structure**

**Forced Oil Circulation**

Model	NRD16T	
Flow Rate	CFM	12
Ultimate Vacuum	micron	3
Ultimate Vacuum Gas Ballast	micron	6
Water Vapor Capacity	lbs/h	0.7
Motor Power	hp	1
Oil Capacity	Quart	1.6
Inlet and Exhaust Flange	Inlet KF16 Exhaust KF25	
Noise Level	dB	58
Net Weight	lbs	98 (with cart)
Dimensions	in	20.5 x 7.4 x 10.7
Accessory	Cart, NPO68 Pump Oil, NOT30B Oil Mist Filter, KF16 to 1/2" Adapter, KF16 & KF25 Clamps	



**NRD24M  
NRD30M  
Industrial Vacuum Pump**



**Powerful • Reliable • Corrosion-Resistant**

**Heavy-Duty, Industrial-Grade Design**

**Corrosion-Resistant**

- Suitable for use on ammonia systems

**Adjustable Gas Ballast Valve**

**Oil Backflow Prevention**

**Forced Oil Circulation**

**Integrated Cylinder Structure**

Model		NRD24M	NRD30M
Flow Rate	CFM	18	23
Ultimate Vacuum	micron	3	3
Ultimate Vacuum Gas Ballast	micron	6	6
Water Vapor Capacity	lbs/h	1.1	1.1
Motor Power	hp	1.5	1.5
Oil Capacity	Quart	2.1	2.1
Inlet and Exhaust Flange		Inlet KF25 Exhaust KF25	Inlet KF25 Exhaust KF25
Noise Level	dB	58	58
Net Weight	lbs	77	77
Dimensions	in	20.5 x 7.4 x 10.7	20.5 x 7.4 x 10.7
Accessory		NPO68 Pump Oil, KF25 Clamps	

**NRC62D  
Smart Refrigerant Charging Machine**



**Smart Charging**

**3-in-1 Smart Charging Machine with Vacuum Pump, Digital Manifold and Refrigerant Scale**

- 6 CFM DC dual-stage vacuum pump
- Built-in advanced digital manifold gauge
- Wireless refrigerant scale
- Built-in micron vacuum gauge with leak detection
- Wireless temperature probes
- 3-color refrigerant hoses

**Smart Control**

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

Model		NRC62D
Power Supply	V / Hz	115V / 60Hz
Evacuation Rate	CFM	6
Charge Rate	lbs / min	4
Motor Power	HP	1/3
Dimension	in	19.7 x 10 x 14.5
Weight	lbs	39.6
Accessory Included		NRS2101 (Scale), NRHH53 (Hoses), NMT1 (High Temp Probe), NMT2 (Low Temp Probe)

**NB1  
NBP2  
NAPS1  
NC2**  
**Battery Power Accessories**

**NB1**  
Battery for NP2DLM

- Battery life indicator
- USB output



**NBP2**  
Battery for NP2DLM & NP4DLM

- Battery life indicator
- USB output



**NAPS1**  
Power Supply Adapter



**NC2**  
Battery Charger for NB1 & NBP2



Model	Description	Compatibility	Specification
NB1	Battery Pack	NP2DLM	Li-ion 18V 5.0Ah 90Wh
NBP2	Battery Pack	NP2DLM, NP4DLM	Li-ion 18V 9.0Ah 162Wh
NC2	Charger	NB1, NBP2	Input: 100V-240V-50/60Hz 180W Output: 18V 6A
NAPS1	Power Supply Adapter	NP2DLM, NP4DLM	Input: 100V-240V-50/60Hz, 4.5A, 450VA Output: 21V 20A



**NVO1Q  
NVO1G**  
**Quantum Premium Vacuum Pump Oil**



**Fueling Pumps With Advanced Tech**

**Advanced Non-Misting Formulation**

- Low volatility
- High resistance to oxidation

**Hydro Processed Mineral Oil**

- Extremely pure, highly refined
- Excellent lubricity & pump protection at deepest vacuum

**Widely Applicable**

- Suitable for most vacuum pumps available in the market

Model	NVO1Q	NVO1G
Capacity	1 Liquid Quart	1 Liquid Gallon



**CART1**  
**NOT30B**  
**NPO68**  
Industrial Pump Accessories

**CART1**  
Cart for NRD16T/24M/30M



**NOT30B**  
Oil Mist Filter for NRD16T/24M/30M



**NPO68**  
Industrial Grade Vacuum Pump Oil  
1 Liquid Quart



**NVR1**  
Valve Core Removal Tool

✓ *Evacuation & Recovery*

**2** sizes in 1 tool



**Fast Evacuation**

For Use With Both 1/4" and 5/16" Flare Fittings

Designed for High-Pressure Refrigerants Including R410a

Vacuum Rated to 20 Microns

Metal Handle for Durability

Model	NVR1
Accessory	VR01005 O Ring (3pk)

## NMV1 Micron Vacuum Gauge

It uses Pirani high-precision vacuum sensor to accurately 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 value, it will buzz rapidly and flash the backlight to warn of leaks.

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter



## Precise Measurement

### Pirani Vacuum Sensor

- Professional grade
- Precise

### Large Backlit Display

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

### Buzzing Alert

- Vacuum level reminder
- Vacuum leakage warning
- Programmable vacuum target

### Ergonomic Design

- Easy to carry

Model	NMV1
Operation Pressure	< 14.7 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
Accessory	Angled Stem, Storage Bag



Compatible with MyNAVAC™ APP

## NMV1S Premium Micron Vacuum Gauge

This micron gauge uses Pirani high-precision vacuum sensor to accurately measure vacuum levels. Digital display provides a comprehensive view of vacuum conditions. It features a rechargeable battery and compact design. When reaching the preset vacuum level, it will buzz as a reminder. When the vacuum level increases from the decay target, it will buzz rapidly and flash backlight to warn of leaks.

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter



## Smart Measurement

### Pirani Vacuum Sensor

- Professional grade
- Precise

### Large Backlit Display

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

### Buzzing Alert

- Vacuum level reminder
- Vacuum leakage warning
- Decay target and decay duration

### Rechargeable Battery

- Long battery life

### High Pressure Protection

- 500 psi maximum pressure

### Compact Design

- Easy to carry

Model	NMV1S
Maximum Pressure	500 psi (34.5 bar)
Range	0~25000 microns, 0~3300 Pa, 0~33.3 mBar, 0~25 mmHg
Resolution	0.01 micron (<10 microns), 0.01 Pa (<10 Pa), 0.001 mBar, 0.001 mmHg
Accuracy	15-1000 microns: ±5% of reading (at 68°F)
Operating Temperature	32~122°F (0~50°C)
Unit	Pa, mBar, mmHg, microns
Sensor	Pirani sensor
Battery	2000 mAh Li-ion
Weight	6.2 oz
Accessory	Angled Stem, Storage Bag



## NML1 Refrigerant 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.

Empowering You to Work Smarter



## Accurate Detection

### 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

Model	NML1
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 CFM
Accessory	Carry Case

## NMC1 Digital Clamp Meter

NAVAC NMC1 Digital Clamp Meter has a high-precision smart chip for a quick and accurate measurement of electrical current. Its adjustable 1-1/8" jaw makes it easy to get around large conductors. Easy to read with a large backlit LCD. The compact design is ideal for tight spaces.

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter



## Simple • Solid

### High Precision Chip

- Precise measurement

### Backlit LCD

- Easy to read large display

### 1-1/8" Jaw

- Suitable for large conductors

### Compact Design

- Ideal for tight spaces

Model	NMC1
Max Measurement Voltage	600V
Max Measurement AC Current	400 A
Max Measurement Capacitance	4000 μF
Temperature Measurement Range	-40°F~1832°F (-40°C~1000°C)
Weight	9.6 oz
Accessory	Test Leads, Type K Temperature Probe, Storage Bag

## NMT300 Infrared Thermometer

NAVAC NMT300 determines surface temperature by measuring the infrared energy of target surface. Its low power consumption design allows for a long-lasting operation. High-precision infrared sensor is quick and accurate in getting surface temperature.

Leading Technology, Superior Quality, Best Experience.  
**Empowering You to Work Smarter**



## Easy to Use

### Precision Infrared Sensor

- Rapid response, accurate measurement

### Large-Aperture Silicon Mirror

- Long-distance reach
- Wide measuring range

### One-Key Operation

- Convenient, easy to use

### Backlit LCD

- Easy to read display

Model	NMT300
Emissivity	0.10~1.00 adjustable
Temperature Range	-25.6°F~752°F (-32°C~400°C)
Max Measuring Accuracy	±2%
Response Time	500 mS
Debug Mode	Single-process debugging

## NMT1000 Thermal Imaging Camera

The NAVAC NMT1000 is designed for HVAC applications. Equipped with a 160x120 resolution thermal detector, it provides the technician with fast and accurate thermal imaging of the entire field of the measurement vs. just spot temperature. It highlights the highest and lowest temperature spots in the field to assist with fast diagnosis and troubleshooting of HVAC systems.

Leading Technology, Superior Quality, Best Experience.  
**Empowering You to Work Smarter**



## Troubleshoot HVAC systems through a new lens

### High-Quality Imaging

- Highly sensitive vanadium oxide detector
- Distinctive thermal vision of the target

### 25 Hz Fast Refresh Frequency

- Smooth video and measurements
- Captures moving targets

### Light Weight

- Compact design, easy to carry

### Quick Temperature Measurement

- Covers the entire field of the target
- Highlight hot and cold spots

### Long Battery Life

- Up to 8 hours of continuous run time

### Other Features

- Auto temperature range
- Laser pointer
- Quick start in 8 seconds
- Store and export images

Model	NMT1000
Thermal Resolution	160 x 120 (19,200 pixels)
Refresh Frequency	25 Hz
Display	320 x 240 pixels, 2.4" color LCD
Temperature Range	-4°F ~ 1022°F (-20 °C - 550 °C)
Measuring Accuracy	± 3.6 °F (± 2 °C) or ± 2%
Thermal Sensitivity (NETD)	< 40 mK
Battery Life	8 hours
Measurement Presets	Center Spot, Hot Spot, Cold Spot, Off



## NRS2i01 Wireless Refrigerant Scale



TESTING TOOLS & INSTRUMENTS

TESTING TOOLS & INSTRUMENTS

## Precise Charging

### Wireless Bluetooth Control

- More convenient
- Auto power off

### Precision Sensor

- Precise measurements
- Accuracy 0.05%

### Magnesium Alloy Weighing Platform

- 3.3 lbs only, easy to carry

### Large Backlit Display

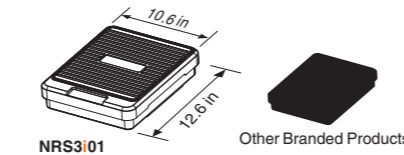
- Large screen digital display, better readability

### Integrated Handle Design

- Convenient hide-away storage for hand-held device

Model	NRS2i01	
Range	lbs	220
Resolution	oz	0.2
Accuracy	%	0.05%
Power	4 x AA (scale), 4 x AAA (controller)	
Dimension	in	8.25 x 10.2
Weight	lbs	3.3
Accessory	Storage Bag	

## NRS3i01 Wireless Refrigerant Scale, Large Weighing Pan



## Precise Charging

### Wireless Bluetooth Control

- More convenient
- Auto power off

### Precision Sensor

- Precise measurements
- Accuracy 0.05%

### Large Aluminum Weighing Platform

- Suitable for larger size refrigerant cylinders
- Durable and highly reliable

### Large Backlit Display

- Large screen digital display, better readability

### Integrated Handle Design

- Convenient hide-away storage for hand-held device

Model	NRS3i01	
Range	lbs	265
Resolution	oz	0.35
Accuracy	%	0.05%
Power	4 x AA (scale), 4 x AAA (controller)	
Dimension	in	10.6 x 12.6
Weight	lbs	10.3
Accessory	Carry Case	



Compatible with MyNAVAC™ APP

**72 in 1**

**NX1  
NX1V  
Nexus Digital Manifold Gauge**



**Smart and Precise**

**Smart and Wireless**

- Work with MyNAVAC™ App
- Bluetooth connections with temp probes & micron gauge (sold separately)

**Multi-Operation Modes**

- Manifold mode with SH/SC display
- Pressure Test mode
- Evacuation mode

**Digital and Accurate**

- Class 0.4 accuracy with digital display
- One gauge for 72 refrigerants
- Precision at a glance

**Aluminum Body w/ 1/4 Turn Ball Valve**

- Reliable, efficient and durable
- Better work experience

**Folding Hook**

- Hidden hook design
- Easy to transport

**Impact-Resistant**

- Impact-resistant design
- Durable rubber cover

Model	NX1	NX1V
Refrigerant Type	R-11, R-12, R-13, R-22, R-23, R-32, R-113, R-114, R-115, R-116, R-123, R-124, R-125, R134A, R-236FA, R-245FA, R-290, R-401A, R-401B, R-402A, R-402B, R-403B, R-404A, R-406A, R-407A, R-407B, R-407C, R-408A, R-409A, R-410A, R-413A, R-414A, R-414B, R-416A, R-417A, R-417C, R-420A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R-424A, R-427A, R-428A, R-434A, R-437A, R-438A, R-448A, R-449A, R-450A, R-452A, R-452B, R-453A, R-454B, R-458A, R-500, R-501, R-502, R-503, R-507A, R-508B, R-513A, R-600, R-600A, R-601, R-601A, R-744*, R-1233ZD, R-1234YF, R-1234ZE Firmware can be updated at NAVAC website or with MyNAVAC™ App	
Pressure Range	psi	-30 inHg to 720 psi
Power Supply	Rechargeable Li-ion Battery	
Bluetooth Range	feet	Up to 260
Accessory	2 Temperature Probes, Charging Cable, Carry Case	NMV1S Micron Gauge in additional to the NX1 Kit

**N2D72  
Flex72 Manifold Gauge with Digital Display**



**72 in 1**



**One Gauge, Seventy-Two Solutions**

**Ideal Alternative to Multiple Gauges**

- One gauge for 72 refrigerants, no need for multiple gauges
- Save money, save space, save time

**Accuracy**

- Class 0.4 accuracy, over 100% improvement vs. analog gauges

**Aluminum Body with 1/4 Turn Ball Valve**

- Reliable, efficient and durable
- Better work experience

**Digital Display**

- Easy to read
- Auto power off

**Impact-Resistant**

- Impact-resistant design
- Durable rubber cover

**Folding Hook**

- Hidden hook design, easy to transport

Model	N2D72
Refrigerant Type	R-11, R-12, R-13, R-22, R-23, R-32, R-113, R-114, R-115, R-116, R-123, R-124, R-125, R134A, R-236FA, R-245FA, R-290, R-401A, R-401B, R-402A, R-402B, R-403B, R-404A, R-406A, R-407A, R-407B, R-407C, R-408A, R-409A, R-410A, R-413A, R-414A, R-414B, R-416A, R-417A, R-417C, R-420A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R-424A, R-427A, R-428A, R-434A, R-437A, R-438A, R-448A, R-449A, R-450A, R-452A, R-452B, R-453A, R-454B, R-458A, R-500, R-501, R-502, R-503, R-507A, R-508B, R-513A, R-600, R-600A, R-601, R-601A, R-744*, R-1233ZD, R-1234YF, R-1234ZE
Pressure Range	psi
Accessory	Carry Case



**NMG11A  
NMG12A  
NMG13A  
NMG14A  
NMG15A  
Pro Manifold Gauge**



**Simple • Reliable**

**Reliable Brass Body with Needle Valve**

- Reliable, efficient and durable
- Better work experience

**Accurate**

- Precision pressure gauge with Class 1.0 accuracy

**Easy Reading**

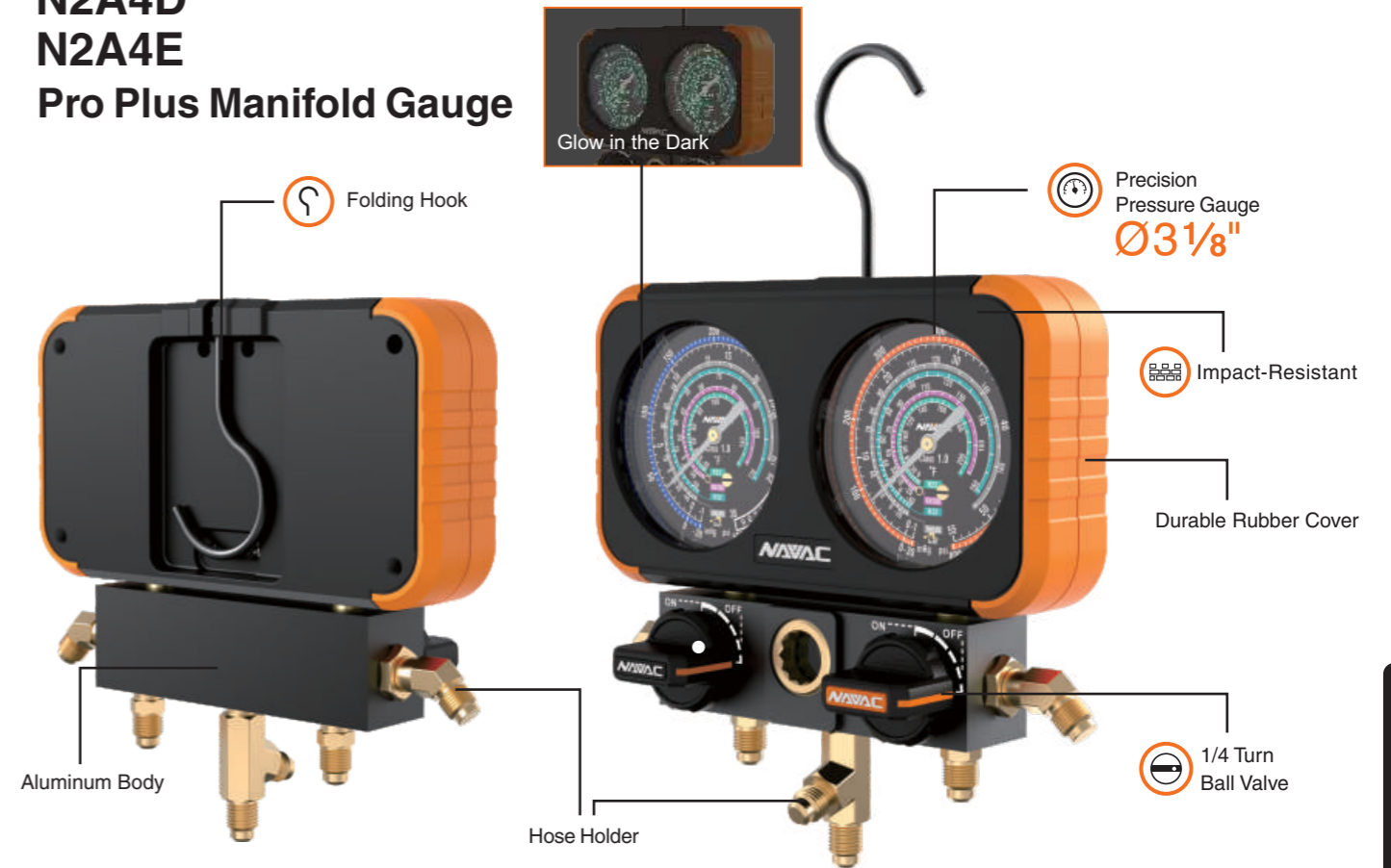
- $\varnothing$  3-1/8" large dial for improved readability
- Color-coded for easy reading

**Other Features**

- Illuminating, glow in the dark
- Hose holder
- Fixed metal hanging hook

Model	NMG11A	NMG12A	NMG13A	NMG14A	NMG15A
Refrigerant Type	R-410A R-22 R-134a R-404A	R-454B R-32 R-410A R-22 <b>A2L Compatible</b>	R-32 R-454B R-22 <b>A2L Compatible</b>	R-22 R-410A R-404A	R-134a R-404A R-410A
Gauge Diameter	in $\varnothing$ 3-1/8				
Pressure Range	psi -30 inHg to 800 psi -30 inHg to 500 psi				
Accessory	Carry Case, Rubber Boots* *Sold separately under NMGB1				

**N2A4  
N2A4B  
N2A4C  
N2A4D  
N2A4E  
Pro Plus Manifold Gauge**



**Precise • Impact-Resistant**

**Aluminum Body with 1/4 Turn Ball Valve**

- Reliable, efficient and durable
- Better work experience

**Accurate**

- Precision pressure gauge with Class 1.0 accuracy

**Impact-Resistant**

- Impact-resistant design
- Durable rubber cover

**Folding Hook**

- Hidden hook design, easy to transport

**Easy Reading**

- $\varnothing$  3-1/8" large dial for improved readability
- Color-coded for easy reading

**Other Features**

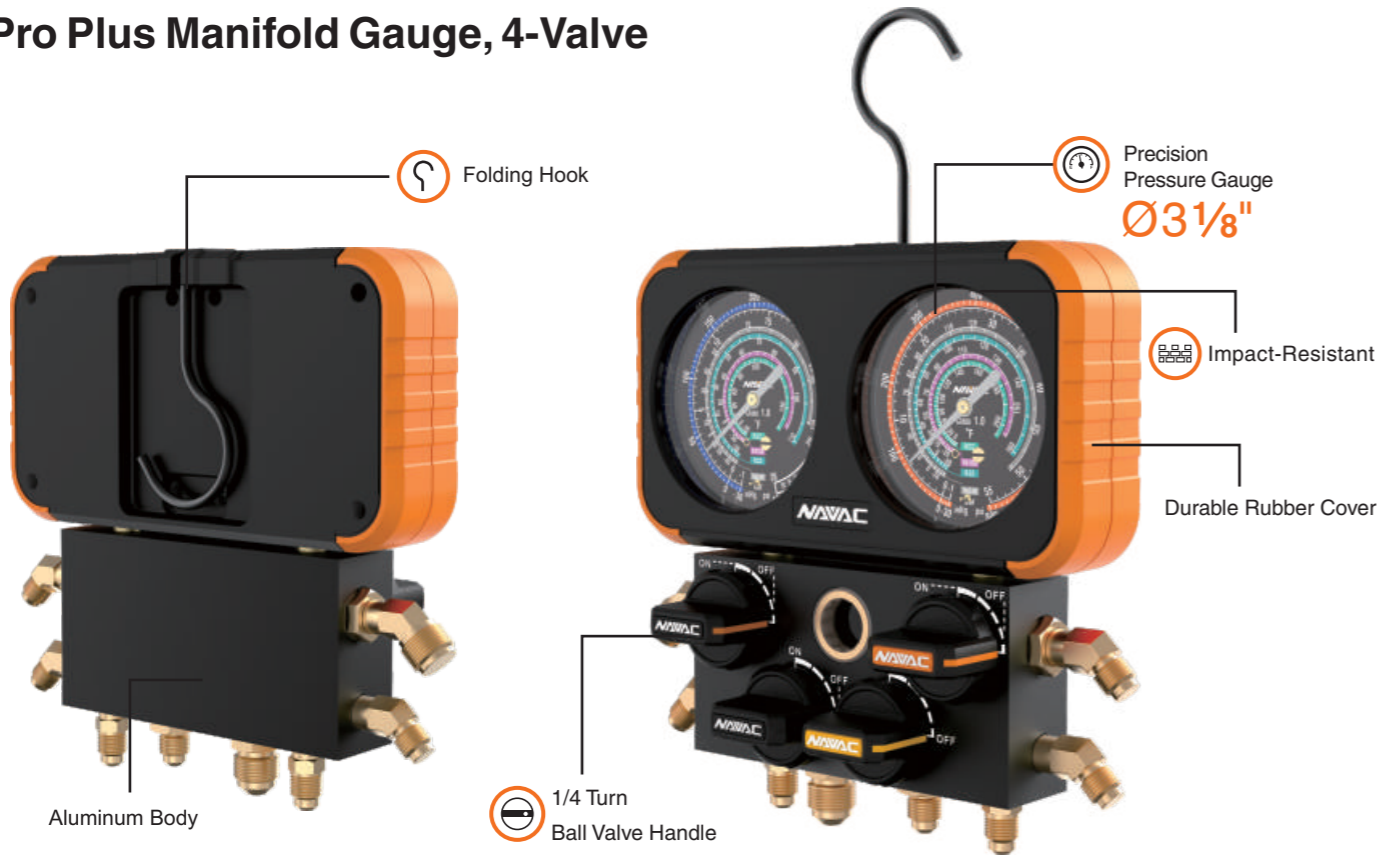
- Illuminating, glow in the dark
- Hose holder

Model	N2A4	N2A4B	N2A4C	N2A4D	N2A4E
Refrigerant Type	R-410A R-22 R-134a R-404A	R-454B R-32 R-410A R-22 <b>A2L Compatible</b>	R-32 R-454B R-22 <b>A2L Compatible</b>	R-22 R-410A R-404A	R-134a R-404A R-410A
Gauge Diameter	in $\varnothing$ 3-1/8				
Pressure Range	psi -30 inHg to 800 psi -30 inHg to 500 psi				
Accessory	Carry Case				

**4 Valve**

**PRO+  
SERIES**

**N4A4H  
N4A4  
N4A4B  
Pro Plus Manifold Gauge, 4-Valve**



**Precision • Impact-Resistant**

**Accurate**

- Precision pressure gauge with Class 1.0 accuracy

**Impact-Resistant**

- Impact-resistant design
- Durable rubber cover

**Aluminum Body with 1/4 Turn Ball Valve Handle**

- Reliable, efficient and durable
- Better work experience

**Folding Hook**

- Hidden hook design, easy to transport

**4-Refrigerants for Wider Applications**

- Ø 3-1/8 large dial for easy reading
- Commonly used refrigerants on outer rings

**4 Valve**

- Easy to use

Model	N4A4H	N4A4	N4A4B
Refrigerant Type	R-22, R-404A, R-134a, R-410A	R-22, R-404A, R-134a, R-410A	R-454B, R-22, R-32, R-410A
Gauge Diameter	in Ø 3-1/8	in Ø 3-1/8	in Ø 3-1/8
Pressure Range	psi -30 inHg to 800 psi -30 inHg to 500 psi	psi -30 inHg to 800 psi -30 inHg to 500 psi	psi -30 inHg to 800 psi -30 inHg to 500 psi
Hose	in Black 3/8" - 3/8" Red 1/4" - 1/4" Yellow 1/4" - 1/4" Blue 1/4" - 1/4"	/	/
Hose Length	ft 4x5'	/	/
Accessory	Carry Case	Carry Case	Carry Case

**NEW**

**NMGB1  
Manifold Gauge Boots  
Ø3-1/8"**



Part No.	Diameter	Qty
NMGB1	Ø3-1/8"	One pair (2 pieces)

**Manifold Gauge Head**



Part No.	Refrigerant Type	Specification	Gauge Diameter
NMH11H	R-410A, R-22, R-134a, R-404A	High Side	Ø3-1/8"
NMH11L	R-410A, R-22, R-134a, R-404A	Low Side	
NMH12H	R-454B, R-32, R-410A, R-22	High Side	
NMH12L	R-454B, R-32, R-410A, R-22	Low Side	
NMH13H	R-32, R-454B, R-22	High Side	
NMH13L	R-32, R-454B, R-22	Low Side	
NMH14H	R-22, R-410A, R-404A	High Side	
NMH14L	R-22, R-410A, R-404A	Low Side	
NMH15H	R-134a, R-404A, R-410A	High Side	
NMH15L	R-134a, R-404A, R-410A	Low Side	



**NH5S**  
Charging Hose Set  
w/o Ball Valve



**NH5SC**  
Charging Hose Set  
with Ball Valve



**NH5R**  
**NH5B**  
**NH5Y**  
**NH5L**  
Individual Charging Hose  
w/o Ball Valve



**NH5L**  
A2L  
Compatible

**NH5CR**  
**NH5CB**  
**NH5CY**  
Individual Charging Hose  
with Ball Valve



**1/4" Color Hoses, 5 Ft Long**

**Main Features for All Models**

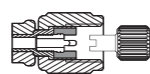
- Suitable for R-410A, R-134a, R-22 and other refrigerants
- 1/4" SAE fittings with 45° bend on one end
- Leak-proof eight-sided crimp
- 800 psi working pressure, 4000 psi burst pressure
- Universal, replaceable gasket
- Adjustable depressor

**Ball Valve Models**

- Ball valve for reduced refrigerant loss
- Metal valve handle

**NH5L**

- Reverse threaded for A2L



The valve core depressor can be adjusted up or down to optimize its access to valve core. Use a valve core depressor adjuster to turn the depressor. To lower, turn clockwise; to raise, turn counterclockwise.



Model	NH5S	NH5R	NH5B	NH5Y	NH5L	NH5SC	NH5CR	NH5CB	NH5CY
Color	Red, Yellow, Blue	Red	Blue	Yellow	Orange	Red, Yellow, Blue	Red	Blue	Yellow
Quantity	pc 3	1	1	1	1	3	1	1	1
Ball Valve	Without ball valve					With ball valve			
Pressure Scale	psi 0-800								
Length	ft 5								
Connector	in 1/4"-1/4"								



**NHR38AA**  
**NHR38AB**  
Big Boy Recovery Hoses

✓ **Recovery**



**NHB1**  
**NHB2**  
Big Boy High-Flow Hoses

✓ **Evacuation & Recovery**



Vacuum rated to 20 microns

**NH38BB**  
Big Boy Evacuation Hoses

✓ **Evacuation**



**NH34AB**  
**NH34AC**  
Big Boy Evacuation Hoses

✓ **Evacuation**



Vacuum rated to 20 microns

**Fast & Efficient**

- Large diameter for optimized evacuation and recovery
- High-grade low permeation hoses

- Vacuum rated to 20 microns

Model	NHR38AA	NHR38AB	NH38BB	NHB1	NHB2	NH34AB	NH34AC
Length	feet 6'	6'	5'	6'	6'	3'	3'
Diameter	in 3/8"	3/8"	3/8"	1/2"	1/2"	3/4"	3/4"
Fitting	1/4" to 1/4"	1/4" to 3/8"	3/8" to 3/8"	1/4" to 3/8"	1/4" to 1/2"	1/4" to 3/8"	1/4" to 1/2"
Burst Pressure	psi 2300		3200		290		
Working Pressure	psi 460		640		72.5		

**NEVK1  
NEVK2  
NEVK3  
NEVK4  
Rapid Evacuation Kit**

**2** sizes in 1 tool



**Rapid Evacuation**

**Big Boy High-Flow Evacuation Hoses, 6' Long**

- 1/2" large diameter for fast evacuation
- 4-layer construction for low permeation
- 3200 psi burst pressure, 640 psi working pressure
- Vacuum rated to 20 microns

**NVR1 Valve Core Removal Tool**

- For use with both 1/4" and 5/16" flare fitting
- Vacuum rated to 20 microns
- Designed for high-pressure refrigerants including R410a
- Metal handle for durability

**NMV1 Micron Vacuum Gauge**

- Pirani vacuum sensor
- Large backlit display
- Buzzing alert
- Ergonomic design

Model	NEVK1	NEVK2	NEVK3	NEVK4
Description	Rapid Evacuation Kit, Pro Series		Rapid Evacuation Kit, Pro Plus	
Items	Quantity		Quantity	
NHB1 Evacuation Hose, 3/8" to 1/4" Fitting	1	-	1	1
NHB2 Evacuation Hose, 1/2" to 1/4" Fitting	-	1	1	1
NVR1 Valve Core Removal Tool	1	1	2	1
NMV1 Micron Vacuum Gauge	-	-	1	-

**Rapid Y Connection Fitting**

With its large internal boring and flow-friendly design, NAVAC's Rapid-Y facilitates significantly faster and more efficient evacuation times when connect more hoses to pump system. When it comes to the recovery process, in conjunction with NAVAC's large diameter hoses and core removal tools, the Rapid-Y is the final piece in "ditching the manifold" to gain dramatic recovery speed.

Leading Technology, Superior Quality, Best Experience.  
**Empowering You to Work Smarter**



F1029



F1028

**No Assembly • Less Turbulence • More Flow**

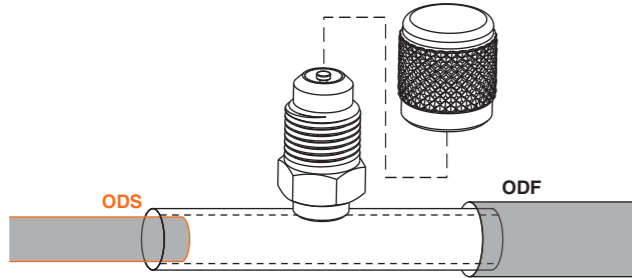
- Single-piece solid brass construction
- Large internal boring for maximum flow and minimal resistance
- Vacuum rated to 20 microns

Part No.	Fitting Configuration	Qty
F1028	2 x 3/8" M to 1x 3/8" FE	1 pack
F1029	2 x 3/8" M to 1x 1/4" FE	1 pack



## Slip Fit Copper Braze Tee

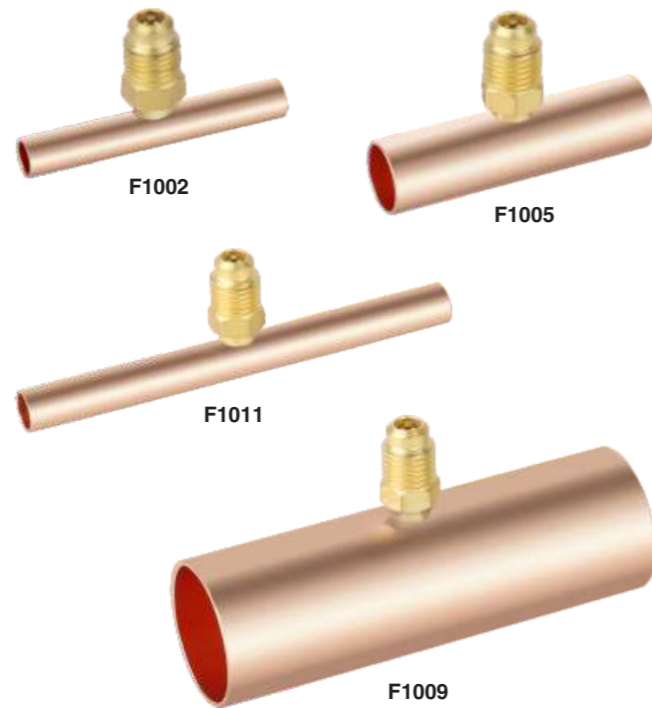
- 1/4" Male SAE Access Valve with valve core



ODS = Outside Diameter Solder

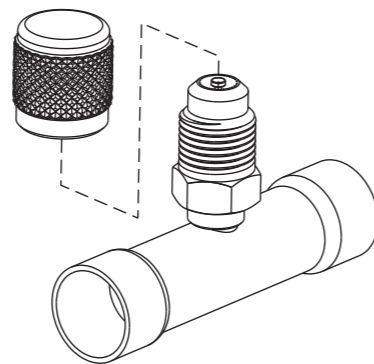
ODF = Outside Diameter Female

Part No.	Fit Configuration	Length	Qty
F1002	1/4" ODS x 5/16" ODF	2-1/8"	3 pack
F1003	5/16" ODS x 3/8" ODF	2-1/8"	3 pack
F1004	3/8" ODS x 1/2" ODF	2-1/8"	3 pack
F1005	1/2" ODS	2-1/8"	3 pack
F1006	5/8" ODS	2-1/2"	1 pack
F1007	3/4" ODS	3"	1 pack
F1008	7/8" ODS	3-1/2"	1 pack
F1009	1-1/8" ODS	3-13/16"	1 pack
F1011	1/4" ODS x 5/16" ODF	4"	2 pack

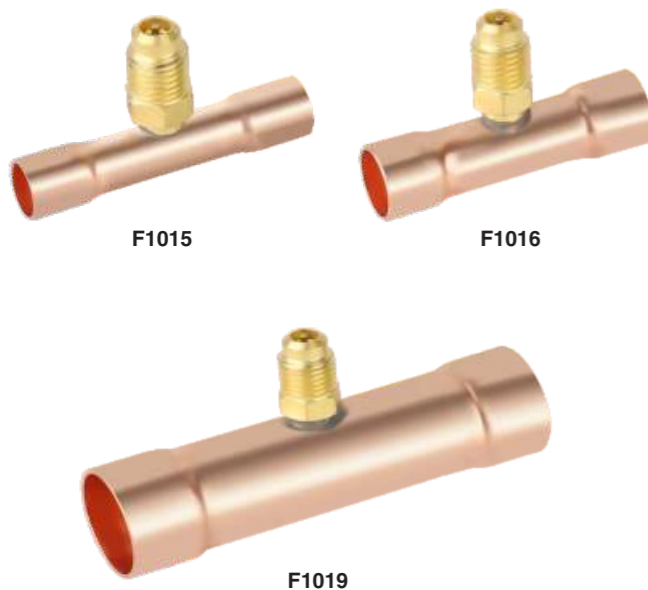


## Swaged Copper Braze Tee

- 1/4" Male SAE Access Valve with valve core
- Braze cups on both ends



Part No.	Fit Configuration	Length	Qty
F1015	3/8" OD	2-1/8"	3 pack
F1016	1/2" OD	2-1/8"	3 pack
F1019	7/8" OD	3-1/2"	1 pack



## 1/4" Access Tee Connector with Flare Nut

- Includes (1) core and (1) cap



Part No.	Fit Configuration	Depressor	Swivel Nut	Qty
F1022	1/4" SAE x 1/4" FE SAE Swivel	Yes	On Run	3 pack
F1023	1/4" SAE x 1/4" FE SAE Swivel	Yes	On Branch	3 pack
F1024	3/8" SAE x 3/8" FE SAE Swivel	No	On Run	1 pack
F1025	1/4" SAE x 1/4" FE SAE Swivel	No	On Branch	3 pack
F1027	1/4" SAE x 1/4" FE SAE Swivel	No	On Run	3 pack

## 1/4" Access Tee Connector

- 1/4" SAE male x 1/4" SAE female with depressor x 1/4" SAE male
- Includes (1) core and (1) cap



- 1/4" SAE x 1/4" O-Ring Connector



Part No.	Fitting Configuration	Qty
F1030	1/4" SAE M x 1/4" SAE FE x 1/4" SAE M	2 pack

Part No.	Fitting Configuration	Qty
F1031	1/4" SAE M x 1/4" O-Ring Coupler	1 pack

## Copper Tube Extension

- 1/4" Access Valve



Part No.	Fitting Configuration	Qty
F1042	1/8" OD	5 pack
F1043	3/16" OD x 1/8" ID	5 pack
F1044	1/4" OD x 3/16" ID	5 pack
F1045	5/16" OD x 1/4" ID	5 pack
F1046	3/8" OD x 5/16" ID	5 pack
F1048	1/2" OD	3 pack

## Quick Coupler SAE Female Adapter



Part No.	Fitting Configuration	Qty
F2001	1/4" SAE M x 5/16" SAE FE	1 pack
F2002	5/16" SAE M x 1/4" SAE FE	1 pack

## Liquid Charging Adapter



Part No.	Fitting Configuration	Qty
F2008	1/4" SAE M x 1/4" SAE FE	1 pack
F2009	5/16" SAE M x 5/16" SAE FE	1 pack

## Swivel Female Flare x Solder Adapter



Part No.	Fitting Configuration	Qty
F2003	1/4" SAE FE x 1/4" OD	4 pack
F2004	3/8" SAE FE x 3/8" OD	4 pack
F2005	1/2" SAE FE x 1/2" OD	4 pack
F2006	5/8" SAE FE x 5/8" OD	2 pack
F2007	3/4" SAE FE x 3/4" OD	2 pack

## A2L Adaptor for LH A2L Refrigerant Tanks



Part No.	Fitting Configuration	Qty
F2010	1/4" LH FPT x 1/4" MPT	1 pack

## 1/4" SAE Caps



F3005, F3007

Part No.	Description	Qty
F3002	1/4" SAE Plastic Cap with Gasket	5 pack
F3005	1/4" SAE Brass Cap with O-Ring	10 pack
F3007	3/8" SAE Brass Cap with Gasket	3 pack

## Valve Core Accessories



Part No.	Description	Qty
F9001	1/4" Valve Cores	5 pack
F9007	1/4" Hose Gaskets	10 pack
F9011	NVR1 Valve Core Removal Tool Rebuild Kit	2 sets
F9013	Brass Core Depressors for Hoses	10 pack

## Adapters



FH1214



FH1238



FH12K1



FH12K2



FHK1K2

Part No.	Description	Qty
FH1214	Adapter 1/2" to 1/4"	5 pack
FH1238	Adapter 1/2" to 3/8"	5 pack
FH12K1	Adapter 1/2" to KF16	1 pack
FH12K2	Adapter 1/2" to KF25	1 pack
FHK1K2	Adapter KF16 to KF25	1 pack

## 4 PORT

### FHH4

#### 4 Port Hose Hanger, 1/4", 1/4", 1/2", 3/8"

**Innovative Hose Organizer for Professional Technicians**

- Supporting professional hose management, only hanger to hold multiple hoses
- Premium metal material, built to last
- Modern finish for sleek aesthetic
- Light weight at 0.15 lbs
- Suitable for multi-sized fittings

Leading Technology, Superior Quality, Best Experience.

**Empowering You to Work Smarter**



Part No.	Description	Qty
FHH4	4 Port Hose Holder, 1/4", 1/4", 1/2", 3/8"	1 pack



**Industry Changes**

**WE ARE READY FOR A2L, ARE YOU?**



**Vaccum Pumps**



**Recovery Units**



No.	Model	Description	No.	Model	Description
1	NP2DLM	BreakFree Cordless Vacuum Pump, 2 CFM	5	NP12DM	Vacuum Pump, Industrial Grade, Master Series
2	NP4DLM	BreakFree Cordless Vacuum Pump, 4 CFM	6	NR7	Recovery Unit
3	NP7DP2	Vacuum Pump, 7 CFM, Pro Series, A2L Compatible	7	NRDD	Digital DC Recovery Unit
4	NRP6Di & NRP8Di	Smart Vacuum Pump, Master Series	8	NRDC4M	4-Cylinder Recovery Unit

**Industry Changes**

**WE ARE READY FOR A2L, ARE YOU?**



**Manifold Gauges**

\*For gauges, please refer to product details for compatible refrigerants.



**Hose**

**A3 Compatible**



No.	Model	Description	No.	Model	Description
1	NMG12A	Pro Manifold Gauge, A2L (R-454B, 32, 410A, 22)	6	N2D72	Flex72 Manifold Gauge w/ Display, A2L
2	NMG13A	Pro Manifold Gauge, A2L (R-32, 454B, 22)	7	NX1	Nexus Digital Manifold Gauge
3	N2A4B	Pro Plus Manifold Gauge, A2L (R-454B, 32, 410A, 22)	8	NH5L	Charging Hose w/o Ball Valve
4	N2A4C	Pro Plus Manifold Gauge, A2L (R-454B, 32, 22)	9	NRDDF	Digital DC Recovery Unit, A3 Compatible
5	N4A4H	4-Valve Manifold Gauge A2L (R-410A, 22, 134a, 404A)	10	NP7DPF	Vacuum Pump, 7 CFM, Pro Series, A3 Compatible



## Special Tools Needed, Processes Unchanged

ASHRAE Standard 34 designates every refrigerant with a letter (A or B) and number (1, 2/2L, 3) to classify its toxicity and flammability. The letter represents the refrigerant's toxicity, with "A" representing low toxicity and "B" for high. The number refers to the refrigerant's flammability. A Class 1 refrigerant is a refrigerant with little to no flame propagation and a low risk of igniting under normal circumstances. Class 3 refrigerants indicate our most flammable refrigerants. ASHRAE recently added the subclass of 2L to represent Class 2 refrigerants that are significantly slower to ignite or burn than other Class 2 gases. When a substance is exposed to spark or flame, many people assume it will behave like water or gasoline. In reality, there's huge grey area in between. It's in this grey area that we find A2L refrigerants. They're much less flammable, but can certainly ignite if several factors align at the same time.

Refrigerant Safety Groups	Lower Toxicity OEL > 400ppm	Higher Toxicity OEL < 400ppm
<b>Highly Flammable</b>	<b>A3</b> All Hydrocarbons	<b>B3</b>
<b>Flammable</b> HCFs, non-fluorocarbons	<b>A2</b> R-152a	<b>B2</b>
<b>Less Flammable</b> Low Burning Velocity HCFs, HFC/HFO Blends, HFOs	<b>A2L</b> R-32, R-452B, R-454B, R-455A, R-516A, R-1234yf, R-134ze	<b>B2L</b>
<b>Little to No Flame Propagation</b> HFCs, HFC/HFO Blends, HFOs, HCFOs, HFO/chloro-olefin blends, non-fluorocarbons	<b>A1</b> R410A, R-134a, R-744	<b>B1</b>

There is an inverse relationship between Global Warming Potential (GWP) and flammability. As the GWP goes down to acceptable levels, the flammability increases. Today for the residential and light commercial split or unitary markets, the GWP target is 750. The widely used R410A (A1 class) has a GWP of 2088, while R32 (A2L class) has a GWP of 675. Recent data shows that replacing R410A with R32 can help us avoid ~0.9°F of global warming by 2100. That's why we see an impending phasedown of HFCs, including R410A, and the inclusion of R32 or other A2L refrigerants in future equipment. EPA approved A2L refrigerants will bring us closest to being in line with the new GWP targets while having the least overall impact on installation, service and maintenance practices.

R32 and any flammable refrigerants **CANNOT** be used in any R22 or R410A refrigerant retrofit applications. If we look at the equipment coming off the assembly lines manufacturing A2L equipment, they are being designed at the factory to have the components already on board that mitigate the risks of A2L refrigerants, which we call "intrinsically safe". For A2L equipment best practices, always consult the manufacturers' literature before and during an installation for precise standards, requirements and considerations. **Always use tools that are rated for use with A2L refrigerants.**

NAVAC, the world's largest supplier of HVAC vacuum pumps in addition to a wide array of tools, gauges, charging machines, recovery units, and other industry-specific items, is one of the first manufacturers who offer a full line of A2L compatible tools.

### What makes a tool A2L compliant?

- Sparkless Design
- DC Brushless Motor
- Soft Contact Power Switches
- Covered Connections for All Electrical Terminations
- Inclusion of a Fan



## LESS IS MORE.

"Less is More" philosophy behind the T3 Power Tubing solutions demonstrate how investing in the right tools can lead to significant cost savings and increased efficiency. Over the past five years, the cost of fittings has skyrocketed, putting more pressure on contractors' bottom lines. **PowerT3 Tubing Expanders and Tubing Benders** allow you to virtually eliminate the need for fittings altogether. Having the ability to fabricate custom angles, fittings and piping designs gives the contractor complete control of both design and budget, in addition to reducing brazing time and materials.

By minimizing fitting usage and the associated expenses, NAVAC power tools help you achieve More with Less.

**Power T<sup>3</sup>**  
TUBING TECHNOLOGIES FOR TECHNICIANS





# Power T<sup>3</sup>

TUBING TECHNOLOGIES FOR TECHNICIANS

“

After talking with HVAC contractors who own the NEF6LM Power Flaring Tool, they all agree this NEF6LM makes a better flare than a manual flaring tool and has changed the HVAC industry. They have also noticed the return on investment is swift because the tool pays for itself after just a few installations or repairs. With NAVAC's estimation, you can payback your tool as soon as ONE month!”



NEF6LM  
**POWER  
FLARE**



NTE11L  
**POWER  
EXPANDER**

**\$ W I F T  
PAYBACK**



NTB7L  
**POWER  
BENDER**



OR

OR

**LESS IS MORE.**

Disregarding the additional labor associated with tube connections, fittings run a few bucks a piece. Use NAVAC to save cost right away.

# NAVAC

Empowering you to work smarter

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F1027	60	NAB1	17	NMH11H	54	NTC6	12
F1028	58	NAPS1	37	NMH11L	54	NTD28	15
F1029	58	NAQC1	04	NMH12H	54	NTE11H2	11
F1030	60	NAQC2	04	NMH12L	54	NTE11L	05
F1031	60	NAQC3	04	NMG13H	54	NTE7	10
F1042	60	NAQC4	04	NMG13L	54	NTEQHK	06, 11
F1043	60	NAQC5	04	NMG14L	54	NTF66	08
F1044	60	NAQC6	04	NMG14H	54	NTF66C	08
F1045	60	NB1	37	NMG15L	54	NTF67D	09
F1046	60	NBF2	02, 04, 06	NMG15H	54	NTK1	18
F1048	60	NBP2	37	NML1	43	NTR14	14
F2001	61	NC2	37	NMT1000	46	NTW1	13
F2002	61	NCF2	02, 04, 06	NMT300	45	NTWH41	13
F2003	61	NEF6LM	03	NMV1	41	NTWR38	13
F2004	61	NEVK1	57	NMV1S	42	NVO1G	38
F2005	61	NEVK2	57	NOT30B	39	NVO1Q	38
F2006	61	NEVK3	57	NP12DA1	33	NX1	49
F2007	61	NEVK4	57	NP12DM	32	NX1V	49
F2008	61	NFG1	16	NP2DLM	25	PC12W	12
F2009	61	NH34AB	56	NP4DLM	26	PC15W	12
F2010	61	NH34AC	56	NP5DP	27	PC6W	12
F3002	61	NH38BB	56	NP7DP	28		
F3005	61	NH5B	55	NP7DP2	29		
F3007	61	NH5CB	55	NP7DPF	30		
F9001	61	NH5CR	55	NPO68	39		
F9007	61	NH5CY	55	NR7	19		

## Company Information:

NAVAC® Inc. is a leading provider of advanced HVAC Tools. We offer highly differentiated vacuum pumps, recovery units, refrigerant charging machines, manifold gauges and other tools for HVAC service technicians to make their job easier, more efficient and enjoyable.

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## NAVAC'S No-Hassle Warranty

NAVAC Inc. GUARANTEES all NAVAC products to be free of defective material and craftsmanship which could affect the life of the product when used for purpose for which it is designed. This warranty does not cover items which have been abused, misused, or improperly maintained, (including failure to use the correct type of vacuum pump oil). The sole obligation under this warranty shall be to repair, replace (OTC Exchange), or provide credit for any defective product or parts thereof, at the discretion of NAVAC Inc. within the period mentioned below. In some instances, NAVAC Inc. may require the defective product be returned for warranty analysis.

**Note:** Warranty only applies if product is purchased from a NAVAC Authorized Dealer.

Different warranty periods cover different product groups, so please read carefully.

For more information about warranty, please visit <https://navacglobal.com/return-merchandise-authorization/>

