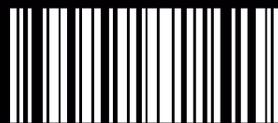


NAVAC[®] Inc.

1099 Wall Street West, Suite 179
Lyndhurst, NJ 07071

Tel/Fax: +1 877 MY-NAVAC
877 696 2822

Info@NavacGlobal.com
www.NavacGlobal.com



MM001



Empowering you to work smarter

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



NP2DLM
BreakFree® Cordless Vacuum Pump



NP4DLM
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	

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	

**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

NP4DP
Vacuum Pump



Performance • Reliability

Dual-Stage Integrated Cylinder Design

- High ultimate vacuum
- High reliability

Forced Oil Circulation

- Improved efficiency and durability

Internal Check Valve

- Prevent oil backflow

Lifting Hook

- Safe & convenient for roof top use

Model	NP4DP	
Power Supply	V / Hz	115V / 60Hz
Flow Rate	CFM	4
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

Limited quantity while inventory lasts

PRO
SERIES

VACUUM PUMPS
& EVACUATION

VACUUM PUMPS
& EVACUATION

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

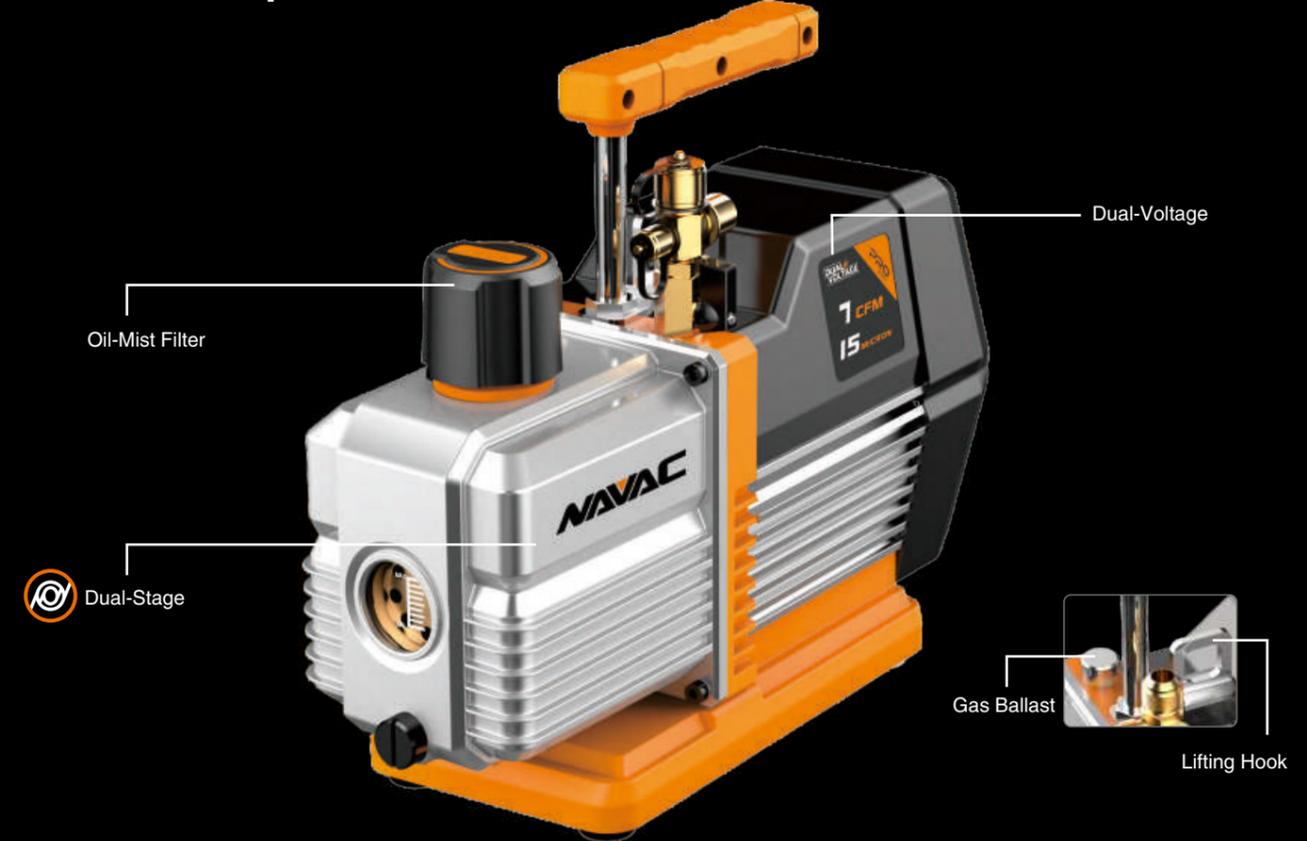
Forced Oil Circulation

- 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

VACUUM PUMPS
& EVACUATION

VACUUM PUMPS
& EVACUATION

NP7DP2
Vacuum Pump

A2L
Compatible



VACUUM PUMPS & EVACUATION

Performance • Reliability

A2L (R32) Compatible

- Expanded application

Internal Check Valve

- Prevent oil backflow

Dual-Stage Integrated Cylinder Design

- High ultimate vacuum
- High reliability

Forced Oil Circulation

- Improved efficiency and durability

Lifting Hook

- Safe & convenient for roof top use

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

NP7DPF
Vacuum Pump for Flammable Refrigerants

A2L, A2 & A3
Compatible

NEW



VACUUM PUMPS & EVACUATION

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

Internal Check Valve

- Prevent oil backflow

Dual-Stage Integrated Cylinder Design

- High ultimate vacuum
- High reliability

Forced Oil Circulation

- Improved efficiency and durability

Lifting Hook

- Safe & convenient for rooftop use

Model	NP7DPF	
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

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



The Industry's First Brushless DC Vacuum Pump

The era of smart refrigerant evacuation begins here with the combination of inverter, vacuum measurement and smart control in one unit, NAVAC **NRP6Di** and **NRP8Di**. Light-weight, inverter-driven, dual-stage vacuum pump delivers high-speed evacuation along with high ultimate vacuum. A built-in Micron Vacuum Gauge with LCD Digital Display precisely measures vacuum level and provides a real-time view of the system's internal vacuum condition. Smart control assures the system's vacuum by automatically extending evacuation time. Built-in solenoid valve prevents oil back flow and seals the system to preserve the vacuum during power outage or accidental disconnect.

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter



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

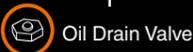
5 micron **12** CFM



High Performance Oil Mist Filter



Dual-Stage

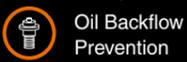


Oil Drain Valve

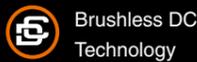


Adjustable Gas Ballast

Lifting Hook



Oil Backflow Prevention



Brushless DC Technology

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



Indoor Application



Dual-Stage

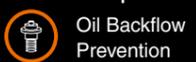


Oil Drain Valve



Adjustable Gas Ballast

Lifting Hook



Oil Backflow Prevention



Brushless DC Technology



NF43
Oil Mist Filter
(Sold separately, not for ammonia use)

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	16.3 x 6 x 12.1
Weight	lbs	32

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

VACUUM PUMPS & EVACUATION

VACUUM PUMPS & EVACUATION

**VO1Q
VO1G
Vacuum Pump Oil**



Premium Oil

Widely Applicable

- Suitable for most vacuum pumps available in the market

High Quality

- Clean and free of contaminants

Model	VO1Q	VO1G
Capacity	1 Liquid Quart	1 Liquid Gallon

**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	

**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**



VACUUM PUMPS & EVACUATION

VACUUM PUMPS & EVACUATION

NRC62D
Smart Refrigerant Charging Machine

3 in 1



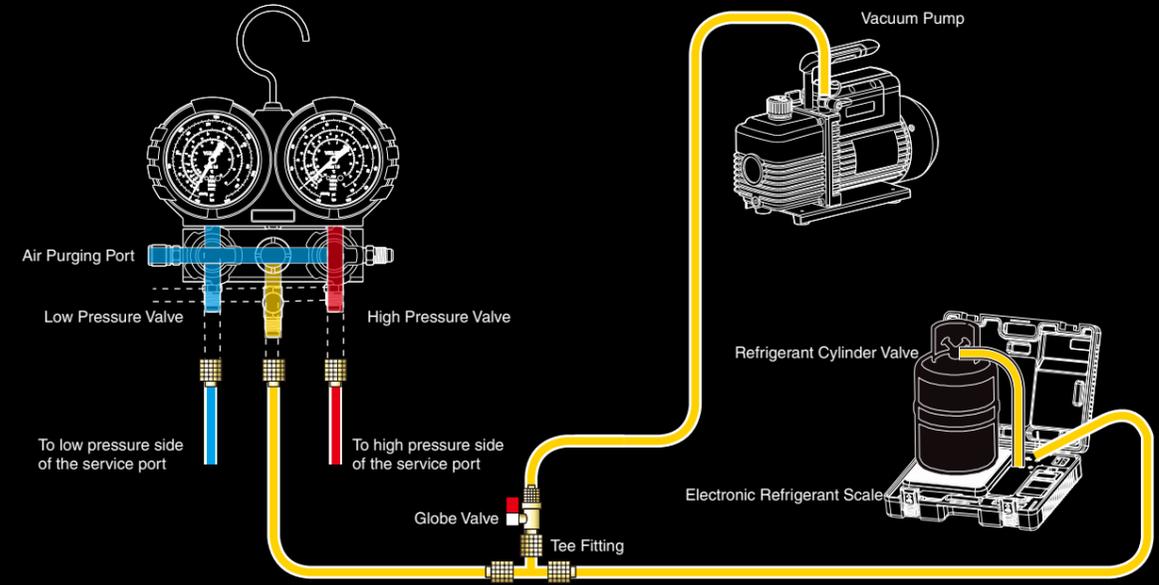
Smart Charging

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

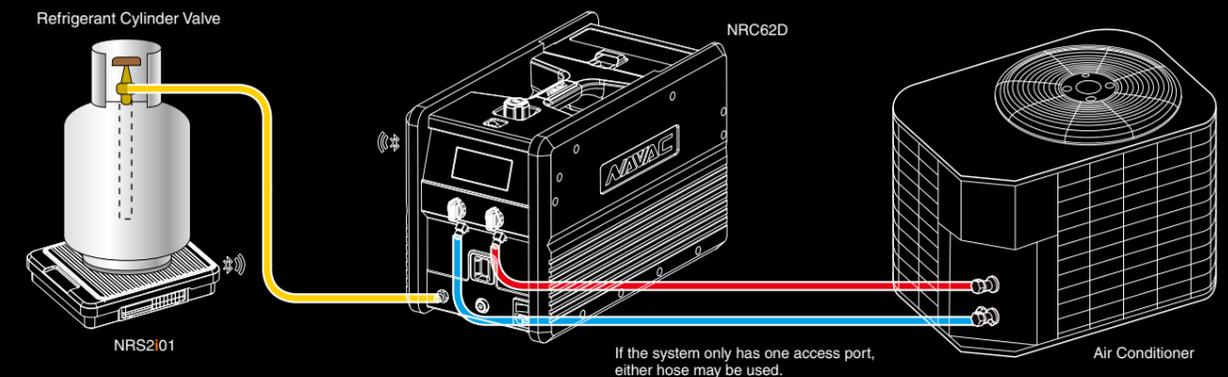
- | | | |
|---|--|--|
| <ul style="list-style-type: none"> • 6 CFM DC dual-stage vacuum pump • Built-in advanced digital manifold gauge • Wireless refrigerant scale | <ul style="list-style-type: none"> • Built-in micron vacuum gauge with leak detection • Wireless temperature probes • 3-color refrigerant hoses | <p>Smart Control</p> <ul style="list-style-type: none"> • 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	NRS201 (Scale), NRH53 (Hoses), NMT1 (High Temp Probe), NMT2 (Low Temp Probe)	

Traditional Refrigerant Charging:



Smart Refrigerant Charging:



The innovative design and advanced technology of the Smart Refrigerant Charging Machine delivers automatic, accurate and efficient refrigerant charging experience for HVAC service technicians.

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

VACUUM PUMPS & EVACUATION

VACUUM PUMPS & EVACUATION

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

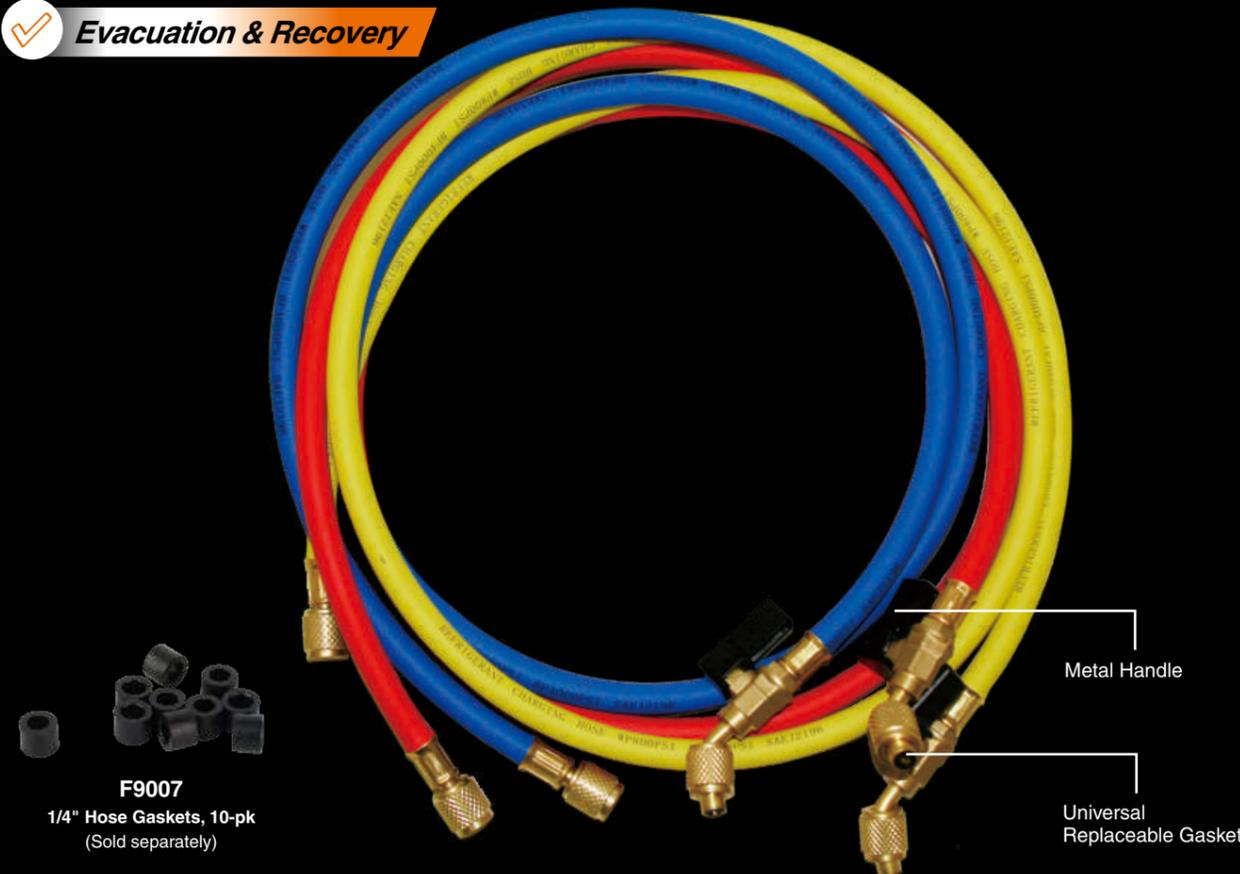
Vacuum Rated to 20 Microns

Metal Handle for Durability

Model	NVR1
Accessory	VR01005 O Ring (3pk)

NH5SC
3-Color Hose Set

Evacuation & Recovery



1/4" Color Hoses with Ball Valve, 5 Ft Long

High Strength

- Ball valve to prevent refrigerant loss
- 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	0-800 psi	
Length	ft	5	
Connector	in	1/4" - 1/4"	

VACUUM PUMPS & EVACUATION

VACUUM PUMPS & EVACUATION

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



For best evacuation performance, Use NAVAC NVR1 Valve Core Removal Tool

**NEVK1
NEVK2
NEVK3
Rapid Evacuation Kit**

2 sizes in 1 tool



Fast & Efficient

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

Model	NHB1	NHB2
Length	6'	6'
Diameter	1/2"	1/2"
Fitting	3/8" to 1/4"	1/2" to 1/4"

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

VACUUM PUMPS & EVACUATION

VACUUM PUMPS & EVACUATION

**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-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	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			

3-YEAR WARRANTY*

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

REFRIGERANT RECOVERY

REFRIGERANT RECOVERY

NRDDF Recovery Unit for Flammable Refrigerants

**A2L, A2 & A3
Compatible**



NRDC4M 4-Cylinder Recovery Unit

4 - Cylinder

**A2L
Compatible**

**2020
DEALER DESIGN
AWARDS
theNEWS | GOLD**

**Dual Oil-Free
Compressors**
**3 High-Speed
Cooling Fans**



Industry Fastest



Scan to see recovery unit comparison sheet

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-502, R-509, R-290 Category V: R-32, 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	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.

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-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.

NVR1
Valve Core Removal Tool

✓ Evacuation & Recovery

2 sizes in 1 tool



Fast Refrigerant Recovery

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

Designed for High-Pressure Refrigerants Including R410a

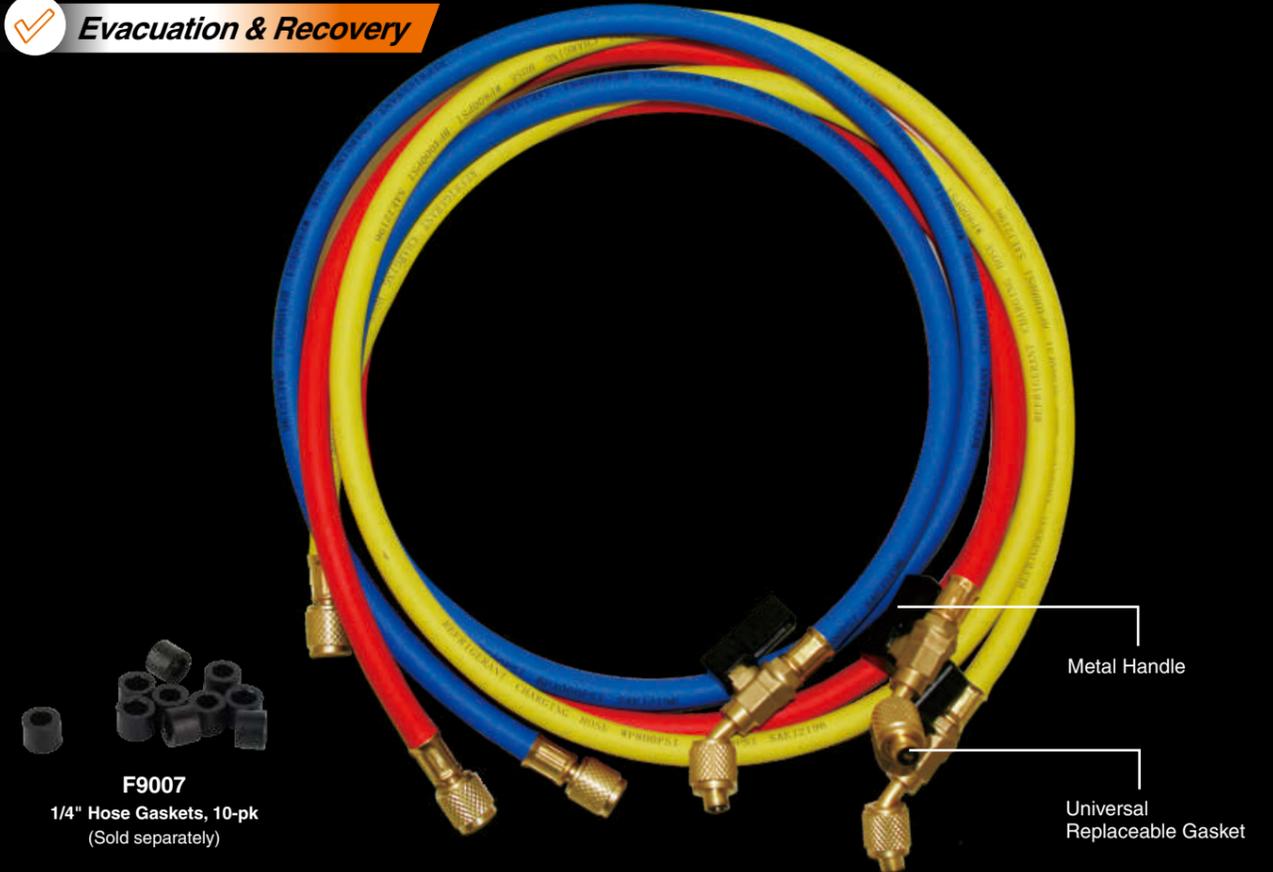
Vacuum Rated to 20 Microns

Metal Handle for Durability

Model	NVR1
Accessory	VR01005 O Ring (3pk)

NH5SC
3-Color Hose Set

✓ Evacuation & Recovery



1/4" Color Hoses with Ball Valve, 5 Ft Long

High Strength

- Ball valve to prevent refrigerant loss
- 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	0-800 psi	
Length	ft	5	
Connector	in	1/4" - 1/4"	

REFRIGERANT RECOVERY

REFRIGERANT RECOVERY

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

Evacuation & Recovery



For best evacuation performance, Use NAVAC NVR1 Valve Core Removal Tool

Fast & Efficient

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

Model		NHB1	NHB2
Length	feet	6'	6'
Diameter	in	1/2"	1/2"
Fitting		3/8" to 1/4"	1/2" to 1/4"

**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

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



NEW

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



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

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 μ F
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	\pm 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

NEW



Troubleshoot HVAC systems through a new lens

High-Quality Imaging

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

Quick Temperature Measurement

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

25 Hz Fast Refresh Frequency

- Smooth video and measurements
- Captures moving targets

Long Battery Life

- Up to 8 hours of continuous run time

Light Weight

- Compact design, easy to carry

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 NRS3i01 Wireless Refrigerant Scale



The NAVAC **NRS2i01**, **NRS3i01** bluetooth wireless electronic refrigerant scale is designed and reinforced with advanced technology, providing more precise and portable refrigerant charging technology.

Through the bluetooth connection between handheld device and electronic charging scale, you can perform other tasks while charging.

While real-time refrigerant charge is transmitted to the handheld device, it will buzz when the charge is within 2 oz of the setting, to alert the operator to stop the charging once the setting is reached.

The magnesium alloy weighing pan and ergonomic, one-piece, portable design makes it lighter and easier to carry.

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter

NRS2i01
Wireless Refrigerant Scale



NRS3i01
Wireless Refrigerant Scale, Large Weighing Pan



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	NRS2 01	
Range	lbs	220
Resolution	oz	0.2
Accuracy	%	0.05%
Power	4 × AA (scale), 4 × AAA (controller)	
Dimension	in	8.25 × 10.2
Weight	lbs	3.3
Accessory	Storage Bag	

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	NRS3 01	
Range	lbs	265
Resolution	oz	0.35
Accuracy	%	0.05%
Power	4 × AA (scale), 4 × AAA (controller)	
Dimension	in	10.6 × 12.6
Weight	lbs	10.3
Accessory	Carry Case	

N2D4H
Manifold Gauge with Digital Display



Precision • Impact-Resistant

- Accurate**
 - Class 0.4 accuracy
 - Over 100% improvement vs. analog gauges
- Folding Hook**
 - Hidden hook design, easy to transport
- Aluminum Body with 1/4 Turn Ball Valve Handle**
 - Reliable, efficient and durable
 - Better work experience
- Digital Display**
 - Easy to read
 - Auto power off
- Impact-Resistant**
 - Impact-resistant design
 - Durable rubber cover
- 22 Programmed Refrigerant Types**

Model	N2D4H	
Refrigerant Type	R-22, R-32, R-134A, R-290, R-404A, R-407A, R-407C, R-410A, R-426A, R-427A, R-434A, R-442A, R-448A, R-449A, R-450A, R-452A, R-453A, R-507A, R-513A, R-600A, R-744, R-1234YF	
Pressure Range	psi	-30 inHg to 720 psi
Hose	in	Red 1/4" - 1/4" Yellow 1/4" - 1/4" Blue 1/4" - 1/4"
Standard Length	ft	3x5'
Accessory	Carry Case	

N2A4
Manifold Gauge



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 for better reading

Model	N2A4	
Refrigerant Type	R-22, R-404A, R-134a, R-410A	
Gauge Diameter	in	Ø 3-1/8
Pressure Range	psi	-30 inHg to 800 psi -30 inHg to 500 psi
Hose	No	
Accessory	Carry Case	

N2A4B
Manifold Gauge



N4A4H
4-Valve Manifold Gauge



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

R32, R454B Compatible for Wider Applications

- Ø 3-1/8 large dial, color-coded for easy reading
- A2L refrigerants on outer rings for better reading

Phosphorescent

- Glow in the dark

Model	N2A4B	
Refrigerant Type	R-454B, R-32, R-410A, R-22	
Gauge Diameter	in	Ø 3-1/8
Pressure Range	psi	-30 inHg to 800 psi -30 inHg to 500 psi
Hose	No	
Accessory	Carry Case	

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	
Refrigerant Type	R-22, R-404A, R-134a, R-410A	
Gauge Diameter	in	Ø 3-1/8
Pressure Range	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	

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 NTBRK is available and sold separately.

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



NTB7L

BreakFree® Power Tube Bender PATENT PENDING



Industry's First Power Tube Bender

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	7.2V 2Ah 14.4Wh
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

TUBING TOOLS

TUBING TOOLS

NEF6LM

BreakFree® Power Flaring Tool  **PATENTED**

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.

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



WINNER



NEF6LM

BreakFree® Power Flaring Tool  **PATENTED**



WINNER



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

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.

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



NTE11L

BreakFree® Power Tube Expander PATENT PENDING



Effortless, 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)

NTE11L (full kit)	
Quick Connect Expander Heads	Yes
NAQA1 Quick Connect Adapter	No
NBF2 Lithium Battery	Yes
NCF2 Battery Charger	Yes
Carry Case	Yes

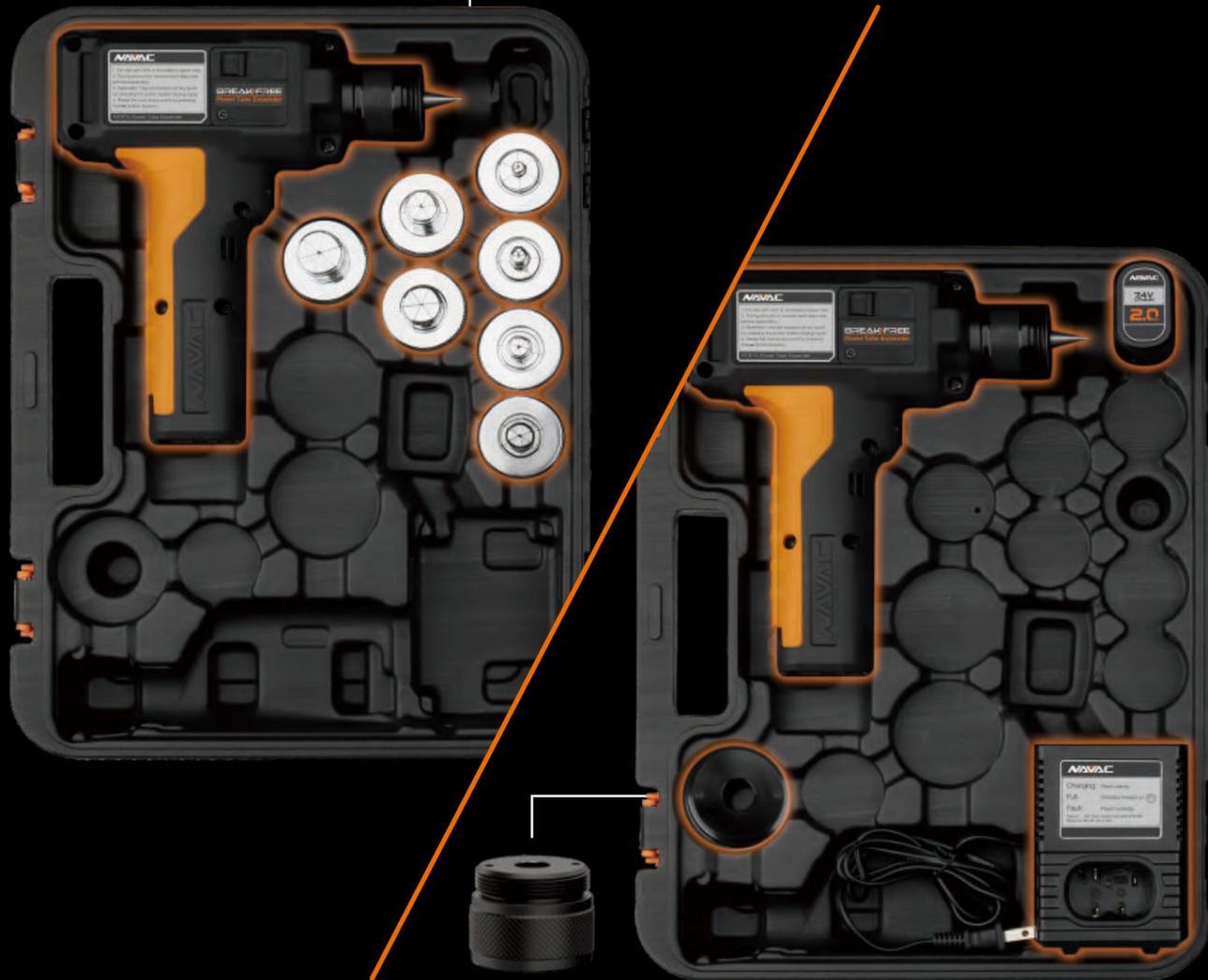
TUBING TOOLS

TUBING TOOLS

N11LNB (no battery, no charger)

► For NEF6LM owners

Quick Connect Expander Heads	Yes
NAQA1 Quick Connect Adapter	No
NBF2 Lithium Battery	No
NCF2 Battery Charger	No
Carry Case	Yes



NAQA1
Quick Connect Adapter

Expander heads from NTE11H Hydraulic Expander can be shared with NTE11L with a NAQA1 adapter.

N11LNH (no heads)

► For NTE11H, NTEHHK owners

Quick Connect Expander Heads	No
NAQA1 Quick Connect Adapter	Yes
NBF2 Lithium Battery	Yes
NCF2 Battery Charger	Yes
Carry Case	Yes



NTEQHK

Quick Connect Expander Kit for NTE11L



Model	NTEQHK
Tube OD	1-1/4", 1-3/8", 1-1/2", 1-5/8"

TUBING TOOLS

TUBING TOOLS

**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

Nitride Treatment

- Longer service life
- Robust and durable

Patented Annular Rivet Connection

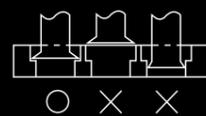
Internal Clutch

- Preventing over-torquing

Eccentric Cone

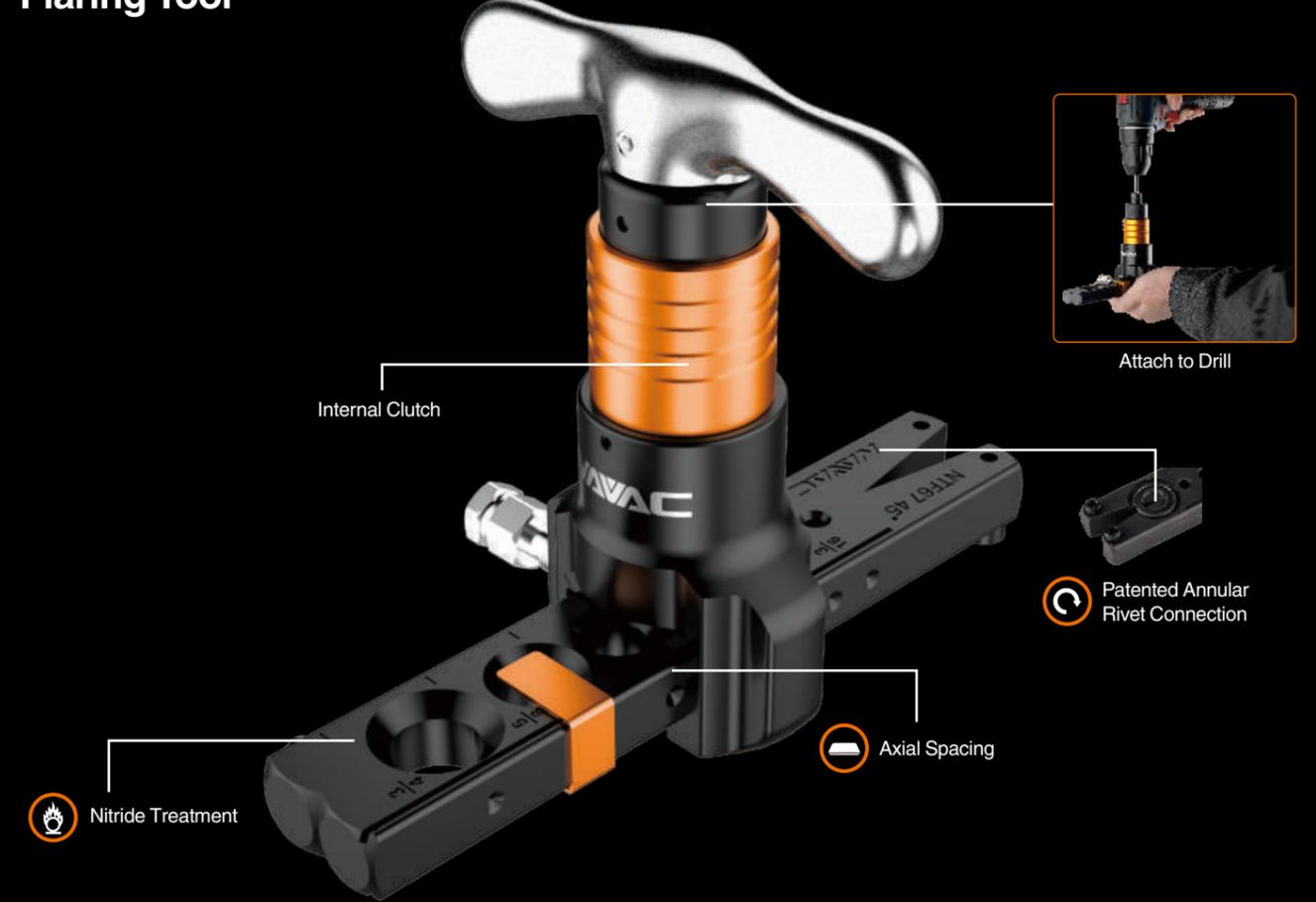
- 45° flare for R410A system

Heavy-Duty Handle & Shaft



Model	NTF66	NTF66C
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

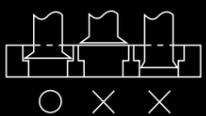
- Preventing over-torquing

Internal Clutch

- Preventing over-torquing

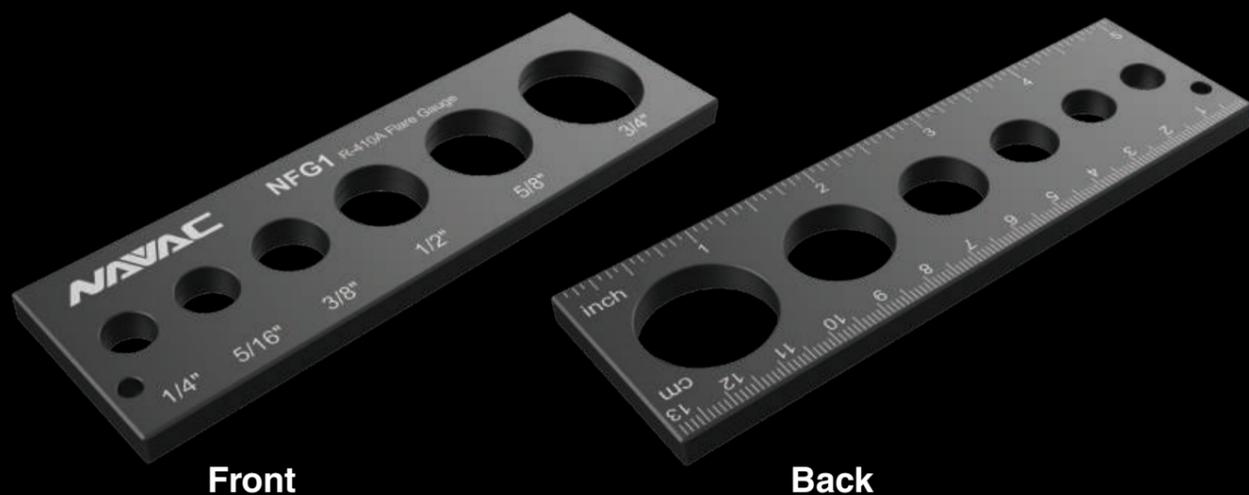
Eccentric Cone

- 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

NFG1
Flare Gauge



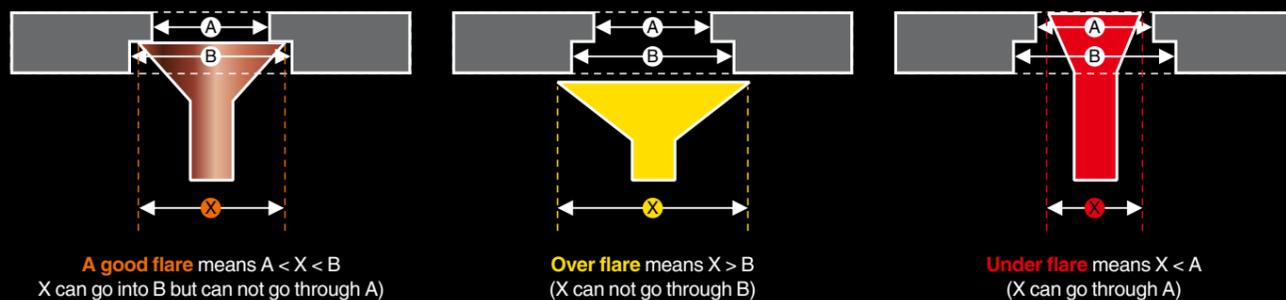
Front

Back

Ensuring Perfect Flares

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

For Precise Measurement of Tube Flares



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.

Empowering You to Work Smarter



Foldable, Easy to Carry

Easy to Expand

Easy to Carry

- Foldable design for portability

Easy to Use

- Simple structure for expanding copper tubing



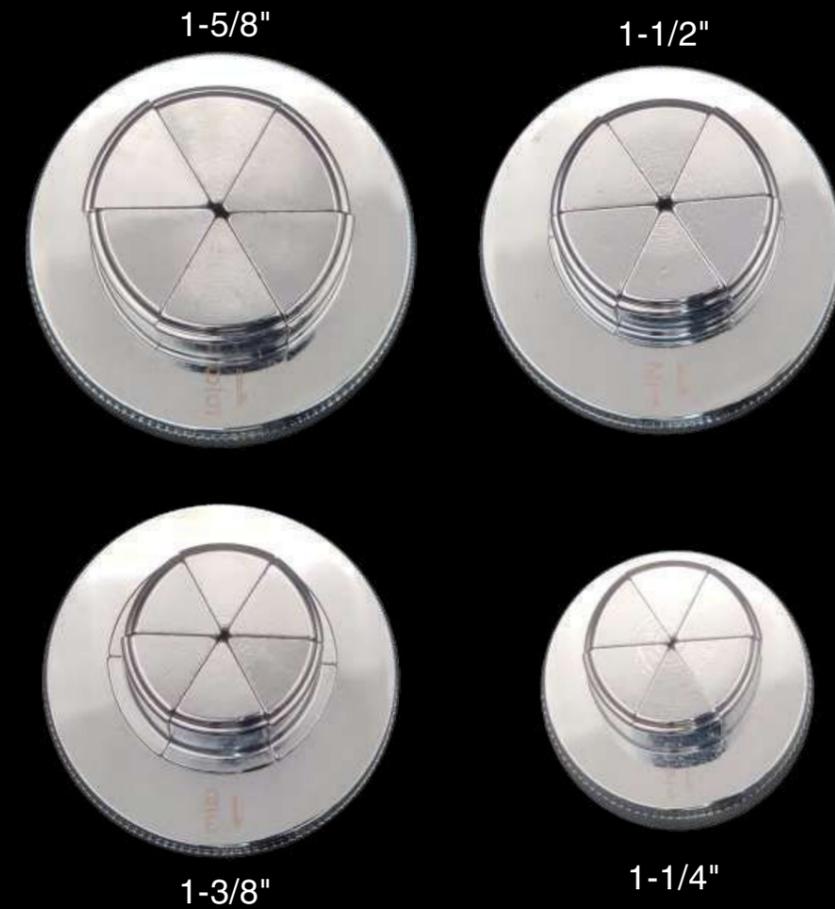
Model	NTE7
Tube OD	3/8", 1/2", 5/8", 3/4", 7/8"

NTE11H
Hydraulic Tube Expander



NTEHHK
Expander Kit for NTE11H

Can work on NTE11L with a NAQA1 adapter (see page 51).



Powerful and Durable

Hydraulic Expansion

- Vacuum sealed hydraulic system, no oil change needed
- Easy to expand
- Suitable for large diameter copper

Compact

- Convenient for narrow spaces
- Easy to use

Easy One-Hand Operation

- Reduced labor and improved efficiency



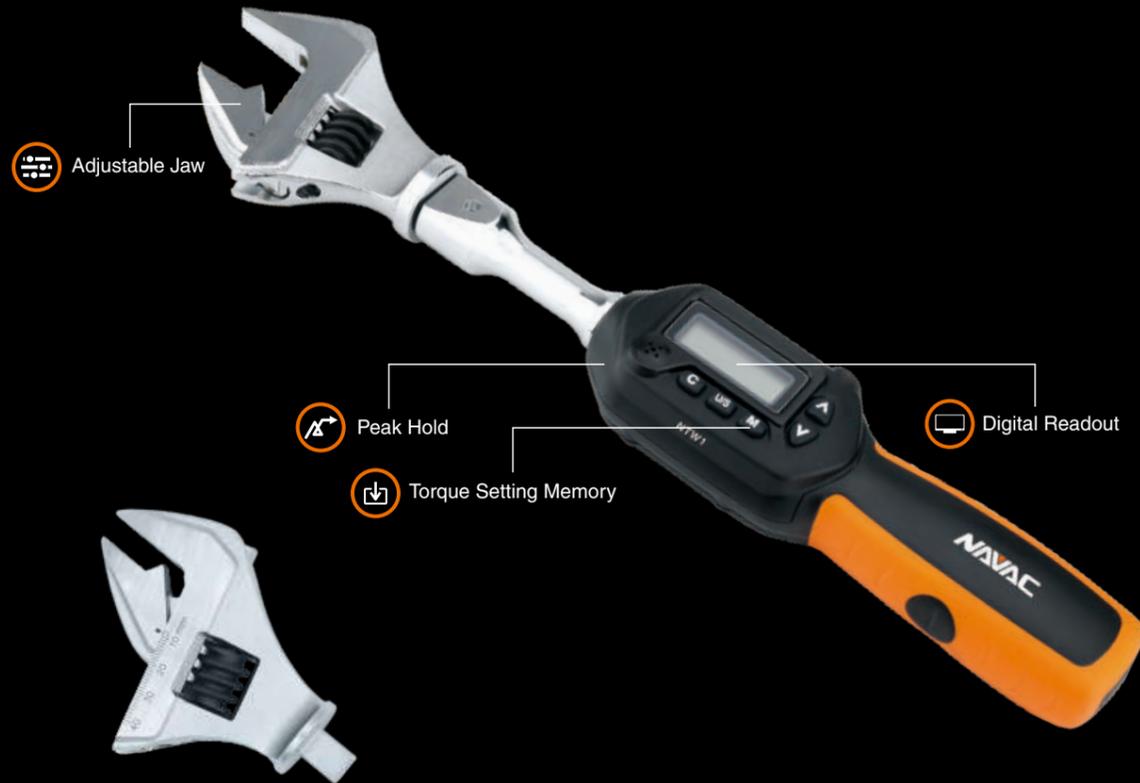
Model	NTE11H
Tube OD	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8"
Accessory	NTC12 (Cutter), NTD28 (Deburring Tool), Carry Case

Model	NTEHHK
Tube OD	1-1/4", 1-3/8", 1-1/2", 1-5/8"

TUBING TOOLS

TUBING TOOLS

NTW1
Digital Torque Wrench



NTWH41
Large Wrench Head 5 - 41mm

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

NTC6
NTC12
NTC15
Tube Cutter

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

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter



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"

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

NKS1
Mini-Split Tool Kit



NKS2
Mini-Split Tool Kit



NAVAC Advanced Tool Kit for Mini-Split Installation

NEF6LM PowerFlaring Tool

- Quick accurate flaring
- Ultra light at 2.9 lbs

NTW1 Digital Torque Wrench

- Digital readout
- Adjustable jaw

Manifold Gauge with Digital Display

- Large LCD screen for clarity
- Doubling accuracy vs. analog gauge

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
NRM1D	Manifold Gauge with Digital Display	Refrigerant type: R-22, R-134a, R-1234yf, R-290, R-404A, R-407C, R-410A, R-32, R-507	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

Limited quantity while inventory lasts

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

TUBING TOOLS

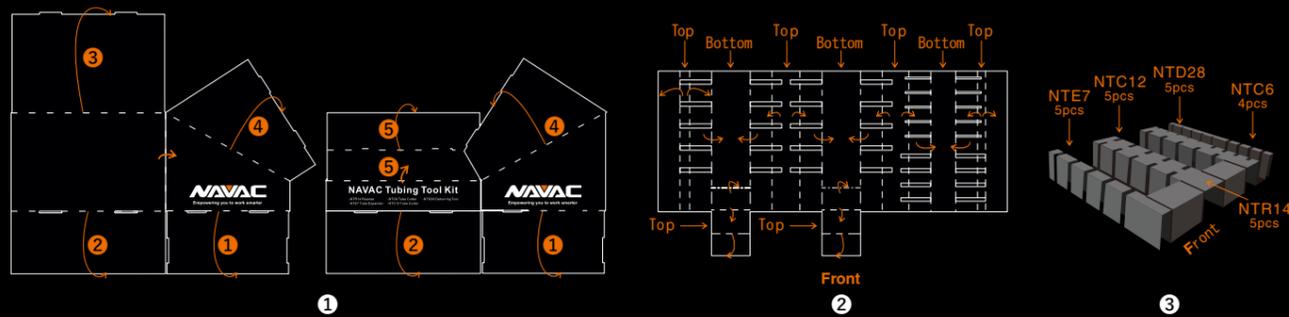
TUBING TOOLS

NTK1
Tubing Tool Kit



NAVAC Tubing Tool Kit

- NTR14 Reamer
- NTE7 Tube Expander
- NTC6 Tube Cutter
- NTC12 Tube Cutter
- NTD28 Deburring Tool

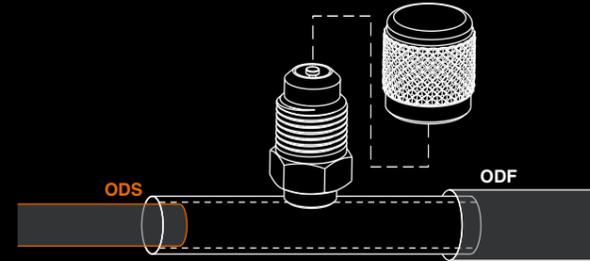


Your Favorite NAVAC Tubing Tools

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

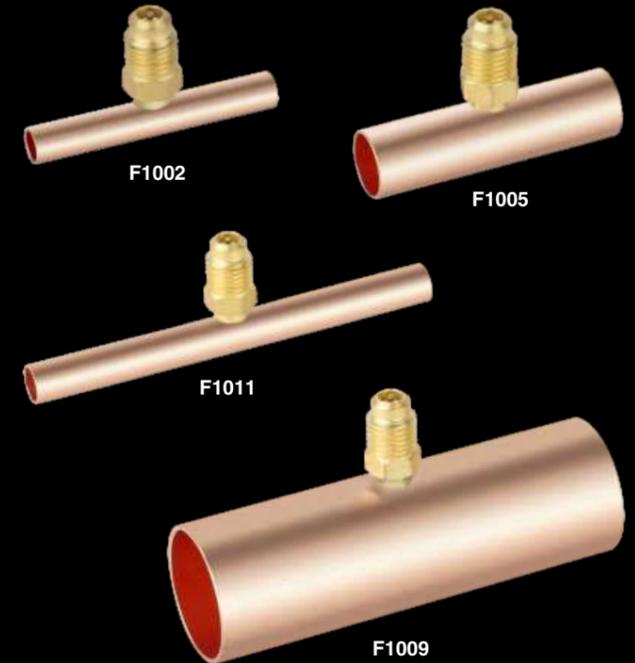
Slip Fit Copper Braze Tee

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



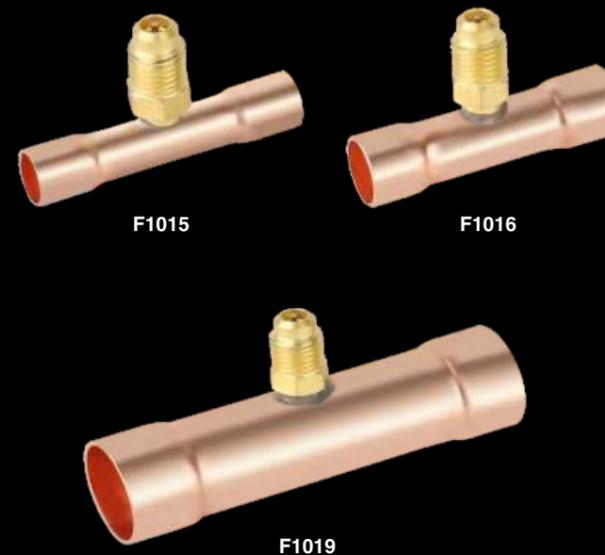
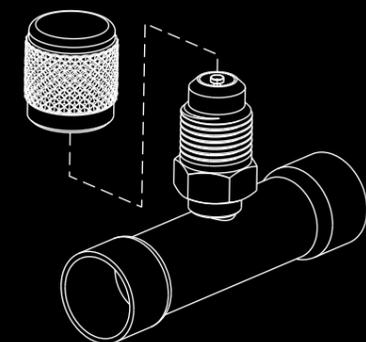
ODS = Outside Diameter Solder
ODF = Outside Diameter Female

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

TUBING TOOLS

FITTINGS

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



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

Backseat Control Valve

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



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

Quick Coupler SAE Female Adapter



Part No.	Fit 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

Swivel Female Flare x Solder Adapter



Part No.	Fit 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

Liquid Charging Adapter



Part No.	Fit 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

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



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

Part No.	Fit 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



1/4" SAE Caps



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 for NH5SC	10 pack
F9011	NVR1 Valve Core Removal Tool Rebuild Kit	2 sets
F9013	Brass Core Depressors for Hoses	10 pack

A2L (R32) Compatible Tools

Special Tools Needed, Processes Unchanged

Refrigerant Safety Groups	Lower Toxicity OEL > 400ppm	Higher Toxicity OEL < 400ppm
Higher Flammability	A3 All Hydrocarbons	B3
Lower Flammability HCFs, non-fluorocarbons	A2 R-152a	B2
Lower Flammability (Mildly Flammable) Low Burning Velocity HCFs, HFC/HFO Blends, HFOs	A2L R-32, R-452B, R-454B, R-455A, R-516A, R-1234yf, R-134ze(E)	B2L
No Flame Propagation HFCs, HFC/HFO Blends, HFOs, HCFOs, HFO/chloro-olefin blends, non-fluorocarbons	A1 R-134a, R410A, R-448A, R-449A, R-460B, R-513A, R-515A, R-1336mzz(Z)	B1

With the impending phasedown of HFCs, including the widely used R-410A, air conditioning equipment containing lower-GWP refrigerants will be coming to market over the next few years. Unlike previous refrigerant transitions, which moved from one nonflammable (A1) refrigerant to another, this transition will likely be to A2L refrigerants, which are mildly flammable. ^①

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, including vacuum pumps, recovery units and manifold gauges.

Resource:

^①Turpin, J. R. (2021, October 9). A1 versus A2L refrigerants: Similar but different. ACHR News RSS. Retrieved November 19, 2021.

Industry Changes

We are ready. Are you?



*For gauges, please refer to product page for compatible refrigerants

No.	Model	Description	No.	Model	Description
1	NP2DLM	BreakFree Cordless Vacuum Pump, 2 CFM	7	NRDD	Digital DC Recovery Unit
2	NP4DLM	BreakFree Cordless Vacuum Pump, 4 CFM	8	NRDDF	Digital DC Recovery Unit, A3 Compatible
3	NRP6Di & NRP8Di	Smart Vacuum Pump, Master Series	9	NRDC4M	4-Cylinder Recovery Unit
4	NP7DP2	Vacuum Pump, 7 CFM, Pro Series, A2L Compatible	10	N2A4B	Manifold Gauge
5	NP7DPF	Vacuum Pump, 7 CFM, Pro Series, A3 Compatible	11	N2D4H	Manifold Gauge with Digital Display, 5 Hoses
6	NP12DM	Vacuum Pump, Industrial Grade, Master Series			

NAVAC'S No-Hassle Warranty

Warranty Information

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.

Warranty period is stated in chart below:

Category	Model	Warranty Period (Years)
Charging Station	NRC62i / NRC62D	2
BreakFree® Cordless Vacuum Pump	NP2DLM / NP4DLM	2
Digital Gauge Vacuum Pump	NRP6Di / NRP8Di	2
Industrial – Grade Vacuum Pump	NP12DM	2
Industrial – Grade Ammonia Vacuum Pump	NP12DA1	1
Digital Recovery Unit	NRDD	2**
4 Cylinder Recovery Unit	NRDC4M	2
Industrial Vacuum Pump	NRD16T	1
Industrial Vacuum Pump	NRD24M / NRD30M	1
BreakFree® Power Tube Flaring Tool	NEF6L / NEF6LM	2
Hydraulic Expander	NTE11H / NTEHHK	2
BreakFree® Power Tube Expander	NTE11L / NTE11LNB / NTE11LNH	2
BreakFree® Power Tube Bender	NTB7L	2
Electronic Accessory	NB1 / NBF2 / NBP2 / NAPS1 / NC1 / NC2 / NCF2	2
Thermal Imaging Camera	NMT1000	2
Vacuum Pump	NP4DP / NP5DP / NP7DP / NP7DP2 / NP7DPF	1
Mechanical Gauge Pump	NRP6DV / NRP8DV	1
Recovery Unit for Flammable Refrigerants	NRDDF	1
Mechanical Recovery Unit	NRRD	1
Manifold Gauge	NRM1D / NRM2D / N2D4H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A / N2A4B	1
Hose	NRHH53 / NRHH53C / NH5SC / NHB1/2/3	1
Mechanical Flaring Tool	NTF66 / NTF66C / NTF67D	1
Flaring Gauge	NFG1	1
Mechanical Expander	NTE7	1
Tube Cutter	NTC6 / 11 / 12 / 13 / 15	1
Reamer / Deburrer	NTR14 / NTD28	1
Micron Gauge	NMV1 / NMV1S	1
Core Tool	NVR1	1
Scale	NRS2i01 / NRS3i01	1
Leak Detector	NML1	1
Torque Wrench	NTW1 / NTWH41	1
Evacuation Kit	NEVK1 / NEVK2 / NEVK3	1
Electronic Meter	NMC1 / NMT300	1
Pipe Fittings	Refer to page 66-68	1

****3 YEARS IF PRODUCT IS REGISTERED** at <https://navacglobal.com/product-registration/>.

Vacuum Pump / Charging Machine / Recovery Unit / Tubing Tools:

Use these devices to pump and recover only HVAC/R refrigerants from sealed HVAC/R systems. Warranty is voided if used for any other purpose, including manufacturing purposes.

NAVAC Pumps and Recovery Units are not warranted for use on the following systems:

- Lithium
- Ammonia (Except NP12DA1)
- Bromide
- Butane (Except NP7DPF and NRDDF)
- CO₂ type extraction
- Leak Stop products

Warranty is VOID if:

- Oil has NOT been changed.
- Corrosive substances have been introduced in the pump.
- Pump has been altered, modified, or any components missing or removed.

Gauges:

The following exceptions **will not** be covered under this warranty.

- Over-pressurized or broken gauges.
- Gauges that have been altered, misused, or improperly maintained.

Tools:

Hand tools are covered **except** for “Tool Kits”. **Only the failed component** will be issued a credit or replacement. For the NKS1, each tool will be warrantied for its individual warranty period in the chart above, based on Date of Purchase of NKS1.

How to Return Product (For Distributors Only)

Prior to returning any product to NAVAC, you are required to obtain a Returns Merchandise Authorization, (RMA), number.

Fill out the online RMA form at <https://navacglobal.com/return-merchandise-authorization/> or Download an RMA Form <https://navacglobal.com/wp-content/uploads/2019/05/2019-RMA-Form.pdf> and email to Techsupport@navacglobal.com, or Fax to 877-696-2822. Please fill out completely. Any missing information could delay processing.

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.

Office Address: 1099 Wall Street West, Suite 179
Lyndhurst, NJ 07071
Telephone: +1 877 MY-NAVAC
Fax: +1 877 696 2822
Web URL: www.NavacGlobal.com

Primary/Order Contact: Phone: +1 877 MY-NAVAC, Fax: +1 877 696 2822
Email: Order@NavacGlobal.com

Facebook:
@NAVACHvactools



Instagram:
navac_inc



LinkedIn:
NAVAC Inc. - HVAC Tools Division



YouTube:
NAVAC Inc. HVAC Tools Division

