



1099 Wall Street West, Suite 179 Lyndhurst, NJ 07071 Tel/Fax: +1 877 MY-NAVAC 877 696 2822 Info@NavacGlobal.com www.NavacGlobal.com





2023 Product Catalog v1.2

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.

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







Compact Desig

· Easy to carry

Easy to store



Cordless · Compact · Convenient

High Performance Lithium Battery

- High capacity
- Up to 1 hour running time

Twin Cylinder

Ultimate vacuum down to 23 microns

Brushless DC Techno Light weight at 8.4 lbs

Highly efficient

- 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		1/4", 3/8" flare
Oil Capacity	oz	5.1
Dimension	in	9.2 × 3.5 × 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

High Performance Lithium Battery

Twin Cylinder

- High capacity
- · Residential and light commercial applications

Compact Design

- Easy to carry
- · Easy to store

4CEM

Model		NP4DLM	
Li-ion Battery		NBP2,18V, 9Ah	
Flow Rate	CFM		
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 × 4.4 × 9.4	
Weight	lbs	15.4 (with battery)	
Accessory		Carry bag, NBP2 Battery, NC2 Battery Charger	



• Up to 1 hour running time

High ultimate vacuum down to 15 microns

Brushless DC Technology

- Light weight at 15.4 lbs
- Highly efficient

Other Features

- Backflow prevention check valve
- Isolation valve & Lifting hook



NB1 NBP2 NAPS1 NC2 **Battery Power Accessories**



& EVACUUM PUMPS & EVACUATION

Battery for NP2DLM



NAPS1 Power Supply Adapter



NBP2 Battery for NP2DLM & NP4DLM Battery life indicator



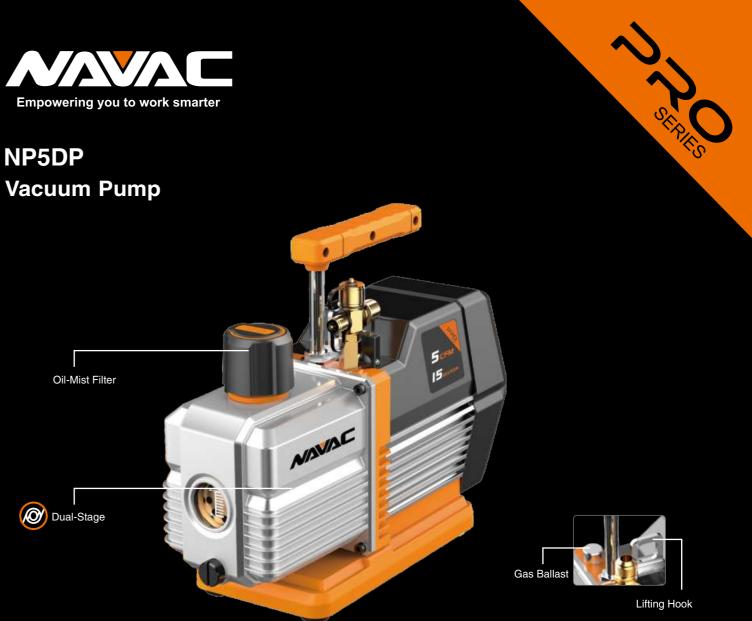
NC2 Battery Charger for NB1 & NBP2



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



NP5DP



Performance · Reliability

Dual-Stage Integrated Cylinder Design

- High ultimate vacuum
- High reliability

Forced Oil Circulation • Improved efficiency and durability

Model		NP5DP
Power Supply		115V / 60Hz
Flow Rate	CFM	
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 ×5 × 11.3
Weight	lbs	24.3

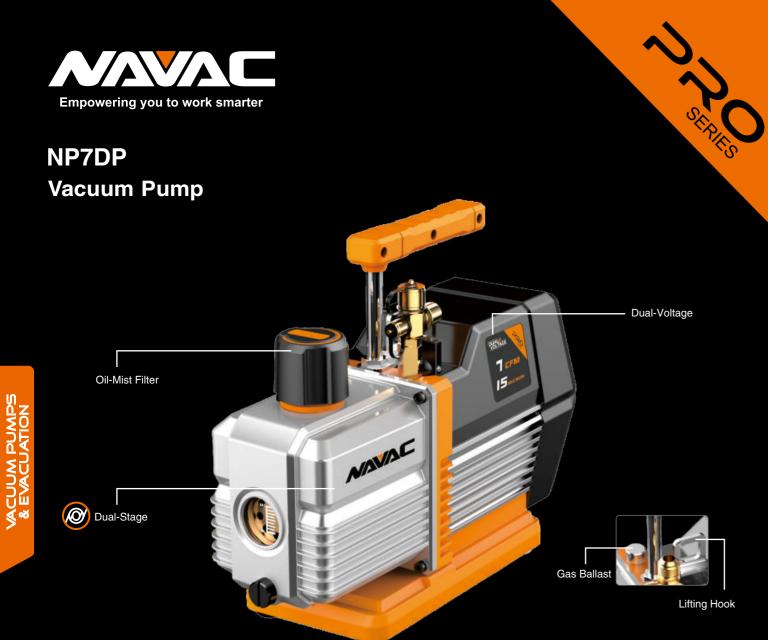


Internal Check Valve Prevent oil backflow

Lifting Hook

• Safe & convenient for roof top use







- Expanded application
- Internal Check Valve
- Prevent oil backflow

- ed Cylinder Design
- High ultimate vacuum
- High reliability

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 ×5 × 11.3
Weight	lbs	26



NP7DP2 **Vacuum Pump**



Performance · Reliability

Expanded application

Internal Check Valve

Prevent oil backflow

High ultimate vacuum

age Inte

• High reliability

Dual-9

Forced Oil Circulation • Improved efficiency and durability

Model	
Power Supply	V/Hz
Flow Rate	CFM
Run Load Amps	А
Ultimate Vacuum	micron
Pump Design	
Motor Power	HP
Inlet Port	in
Oil Capacity	oz
Dimension	in
Weight	lbs

Lifting Hook

• Safe & convenient for roof top use

rated Cylinder Design

Lifting Hook

• Safe & convenient for roof top use

NP7DP2 115V / 60Hz Dual-Stage, AC Motor 3/4 1/4", 3/8", 1/2" Flare 14×5×11.3



NP7DPF

Vacuum Pump for Flammable Refrigerants





- 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

Lifting Hook

• Safe & convenient for rooftop use

- High ultimate vacuum
- High reliability

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 ×5 ×11.3
Weight	lbs	26



Empowering you to work smarter

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 realtime 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









NRP6D

NRP8D



Comoatible

Vacuum Measurement

Automatic Control Valve

Brushless DC Technology

Smart Control

Solenoid Valve

Preserve vacuum

Prevent oil backflow









Fast • Robust • Powerful

Industrial Grade Design

- High quality, super high vacuum
- High evacuation performance

Oil Backflow Prevention

- No system oil contamination during power failure
- More efficient

- Model
- Power Supply V/Hz 115V / 60Hz Flow Rate CFM micron Ultimate Vacuum 5 Pump Desigr 1/2 Motor Power ΗP Inlet Port Oil Capacity OZ 28 32 Weight lbs



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 Va

- Precise vacuum measurement
- Digital display

Dual-Stage

High ultimate vacuum

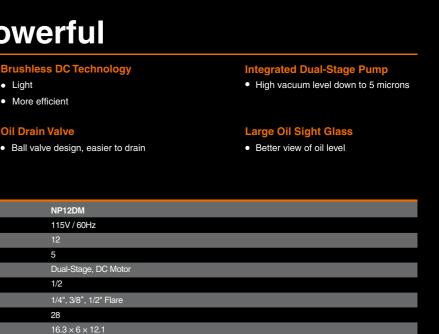
Model		NRP6D	NRP8D
Power Supply	V/Hz	115V / 60Hz	115V / 60Hz
Flow Rate	CFM		8
Ultimate Vacuum	micron	15	15
Pump Design		Dual-Stage, DC Motor	Dual-Stage, DC Motor
Motor Power	HP	3/4	3/4
Inlet Port		1/4", 3/8", 1/2" Flare	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	17.6	17.6
Dimension	in	14 × 5.3 × 11.9	14 × 5.3 × 11.9
Weight	lbs	25.35	25.35

- Light

Oil Drain Valve

• Ball valve design, easier to drain







NP12DA1 **Ammonia Vacuum Pump**



Robust and Corrosion-Resistant

Corrosion Resistant for Ammonia (R-717)

- Special corrosion resistant pump parts
- Stainless steel inlet port

& EVACUUM PUMPS & EVACUATION

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	16.3×6×12.1
Weight	lbs	32

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



VO1Q VO1G Vacuum Pump Oil



Premium Oil

Widely Applicable

• Suitable for most vacuum pumps available in the market

Model	VO1Q
Capacity	1 Liquid Quart



High Quality

Clean and free of contaminants

VO1G

1 Liquid Gallon







NRD16T



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

Adjustable Gas Ballast Val	Oil Backflo	
Forced Oil Circulation		
Model		NRD16T
Flow Rate	CFM	12
Ultimate Vacuum	micron	
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 × 7.4 × 10.7
Accessory		Cart, NPO68 Pu

NVO1Q NVO1G **Quantum Premium Vacuum Pump Oil**



Fueling Pumps With Advanced Tech

- Low volatility
- High resistance to oxidation

Widely Applicable

• Suitable for most vacuum pumps available in the market

Hydro Processed Mineral Oil

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

Model	NVO1Q	NVO1G
Capacity	1 Liquid Quart	1 Liquid Gallon

Adjustable Gas Ballast Valve

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Pump Oil

Integrated Cylinder Structure

mp Oil, NOT30B Oil Mist Filter, KF16 to 1/2" Adapter, KF16 & KF25 Clamps



NRD24M NRD30M **Industrial Vacuum Pump**







CART1 NOT30B **NPO68 Industrial Pump Accessories**

CART1 Cart for NRD16T/24M/30M

Powerful · Reliable · Corrosion-Resistant

eavy-Duty, Industrial-Grade De

Oil Backflow Prevention

Suitable for use on ammonia systems

Forced Oil Circulation

Adjustable Gas Ballast Valve

ed Cylinder Struct

Model		NRD24M	NRD30M
Flow Rate	CFM	18	23
Ultimate Vacuum	micron		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 × 7.4 × 10.7	20.5 × 7.4 × 10.7
Accessory		NPO68 Pump Oil, KF25 Clamp	S

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





NOILA & EVACUUM F

NPO68 Industrial Grade Vacuum Pump Oil 1 Liquid Quart













Smart Charging

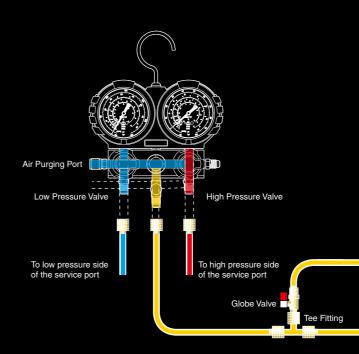
Machine with Vacuum Pump, Digital Manifold and Refrigerant Scale 3-in-1 Smart Char

- 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

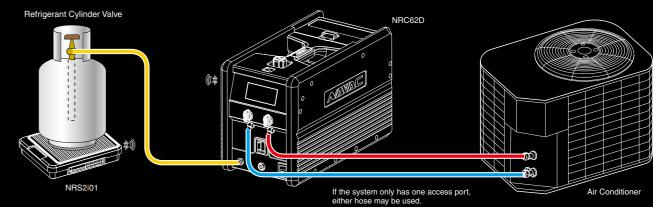
- Smart Control
- Automatic operation
- Built-in leak detection
- Real time status display and warning

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 × 10 × 14.5
Weight	lbs	39.6
Accessory Included		NRS2I01 (Scale), NRHH53 (Hoses), NMT1 (High Temp Probe), NMT2 (Low Temp Probe)

Traditional Refrigerant Charging:



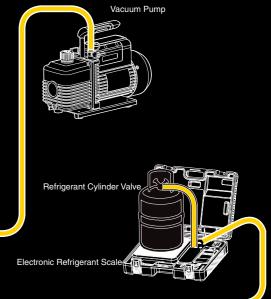
Smart Refrigerant Charging:



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**











NVR1 Valve Core Removal Tool







NH5SC **3-Color Hose Set**

V Evacuation & Recovery



Fast Evacuation

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

Vacuum Rated to 20 Microns

Designed for High-Pressure Refrigerants Including R410a

Metal Handle for Durability

Model	
Accessory	

NVR1 VR01005 O Ring (3pk)



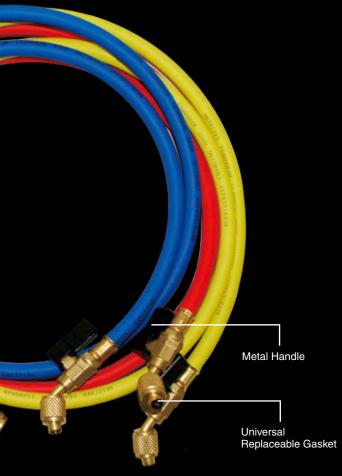
F9007 1/4" Hose Gaskets, 10-pk (Sold separately)

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

Model			NH5SC	
Туре		Red	Yellow	Blue
Pressure Scale	psi		0~800 psi	
Length	ft		5	
Connector	in		1/4" - 1/4"	



Improved Design

- Metal valve handle
- Universal, replaceable gasket



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







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

1/2" to 1/4"

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

3/8" to 1/4"

	NHB1		NHB2	
feet	6'		6'	
in	1/2"		1/2"	
		feet 6'	feet 6'	feet 6' 6'



NEVK1 NEVK2 NEVK3 **Rapid Evacuation Kit**



Rapid Evacuation

oses, 6' Long **Big Boy High-Flow Ev**

- 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

including R410a Metal handle for durability

Vacuum rated to 20 microns

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			
NVR1 Valve Core Removal Tool	1	1	2
NMV1 Micron Vacuum Gauge	-	-	1

Leng Dian Fitting

NVR1 Valve Core Removal Tool

• For use with both 1/4" and 5/16" flare fitting

• Designed for high-pressure refrigerants

NMV1 Micron Vacuum Gauge

NOITA

(2)

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



NRRD **Recovery Unit**







Fastest in Its Class

- stest in Direct Vapor for R410A, R22 · UL verified recovery rate, best performance in its class
 - Brushless DC Motor
 - Light and more efficient
- linder with 2-Row Oversized Condenser Twin Cy • Fast recovery
- **Oil-Free Comp** • Suitable for all commonly used 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-454B, 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	12				
Compressor		Oil-less, Air-cooled, Piston style					
Automatic Safety Shut-Off		558 psi/38.5 bar					
			R-410A	R-22	R-134a		
UL Verified	lbs/min	Direct Vapor	0.75 (0.34) 🕍	0.64 (0.29) 🖄	0.57 (0.26)	🖬 Industry Fastes	
Recovery Rate	(kg / min)	Direct Liquid	14.44 (6.55)	11.11 (5.04)	7.85 (3.56)		
VERIFIED		Push/Pull Liquid	18.41 (8.35)	17.04 (7.73)	12.81 (5.81)		
Dimension	in	14.5×9.9×11.7					
Weight	lbs	24.3					
3-YEAR WARRANT	3-YEAR WARRANTY * NAVAC offers a 2-year over-the-counter warranty, which can extend to 3 years with registration on <u>navacglobal.com/product-registration</u> within 30 days of purchase.						

Light · Fast

- Easy to use

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- Prevent mixing of various refrigerants
- **Twin Cylinder**
- Fast recovery
- **Oil-Free Compressor**
- Suitable for all commonly used refrigerants
- Added safety
- Model NRRD 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-502, R-509 Category V: R-402A, R-404A, R-407A, R-407B, R-410A, R-507 Refrigerant Type Power Supply 115V/60Hz Motor HP Max Current Draw Compressor Oil-less, Air-cooled, Piston style Automatic Safety Shut-Off 558 psi/38.5 bar R-22 R-134a R-410A 0.44 0.49 0.31 Direct Vapor Recovery Rate lbs/min 6.06 Direct Liquid 6.17 Push/Pull Liquid 12.61 11.60 10.8 Dimension Weight lbs 30



ressor

Large Backlit Display

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

Purge Function

• Prevent mixing of various refrigerants

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Fast • Compact • Ignition-Proof

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

• Suitable for all commonly used refrigerants

Fast and Efficient Recovery

• Prevent mixing of various refrigerants

• Twin cylinder with 2-row oversized condenser

Brushless DC motor

Purge Eupotion

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

IP54 Waterproof Design

Large Backlit Display

• 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, R454B, R-502, R-509, R-290 Category V: R-32, R-402A, R-407A, R-407A, R-407B, R-410A, R-507 **PROHIBITED to use with IIB and IIC refrigerants: RE170, R702, R1150, R429A, R432A, R435A, R510A.				
Power Supply	V/Hz	115V/60Hz				
Motor	HP	1	1			
Max Current Draw	A	12				
Compressor		Oil-less, Air-cooled, Piston style				
Automatic Safety Shut-Off		558 psi/38.5 bar				
			R-410A	R-22	R-134a	
UL Verified	lbs/min	Direct Vapor	0.75 (0.34)	0.64 (0.29)	0.57 (0.26)	
Recovery Rate	(kg / min)	Direct Liquid	14.44 (6.55)	11.11 (5.04)	7.85 (3.56)	
VERIFIED		Push/Pull Liquid	18.41 (8.35)	17.04 (7.73)	12.81 (5.81)	
Dimension		14.5×9.9×11.7				
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

3 cooling fans

Dual Oil-Free Cor

Fastest · Most Powerful

Super-Efficient Condenser 4-Cylinder for Powerful Recovery Over-sized micro-channel coil

- 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

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, R454B, 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				
			R-410A	R-22	R-134a	
UL Verified	lbs/min	Direct Vapor	1.06 (0.48)	0.99 (0.45)	0.84 (0.38)	
necovery nate	(kg / min)	Direct Liquid	16.82 (7.63)	12.76 (5.79)	9.19 (4.17)	
VERIFIED		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	17×10.7×12.2				
Weight	lbs	41.9				



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Inlet Port Outlet Port

Suitable for all commonly used refrigerants

Brushless DC Motor

More efficient

Acceleration Knob Design

To achieve faster vapor recovery





NVR1 Valve Core Removal Tool







Fast Refrigerant Recovery

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

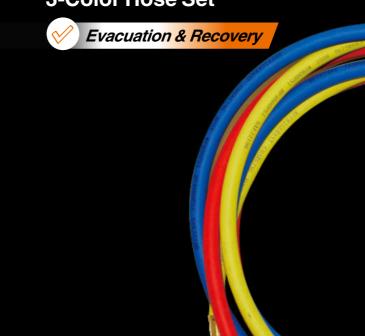
Designed for High-Pressure Refrigerants Including R410a

Vacuum Rated to 20 Microns

Metal Handle for Durability



NH5SC 3-Color Hose Set





1/4" Hose Gaskets, 10-pk (Sold separately)

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

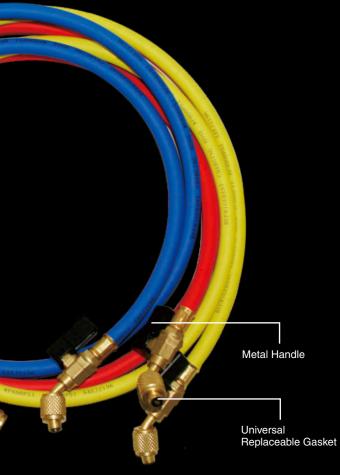
High Strength

- 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

Model			NH5SC	
Туре		Red	Yellow	Blue
Pressure Scale	psi		0~800 psi	
Length	ft		5	
Connector	in		1/4" - 1/4"	

Model	N\	/R1
Accessory	VF	R01005 O Ring (3pk)





Improved Design

- Metal valve handle
- Universal, replaceable gasket



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



V Evacuation & Recovery



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



Precise Measurement

- Pirani Vacuum Sensor
- Professional grade

Ergonomic Design • Easy to carry

Precise

- Backlit for clarity
 - Auto power off
- Model NMV1 **Operation Pressure** < 14.7 psi Range Resolution Operating Temperature 32~122°F(0~50°C) Unit Pa, mBar, mmHg, microns Sensor Pirani sensor Buzzer alar 90 dB, shut down after 10 seconds 4.5 oz Weight Angled Stem, Storage Bag Accessory

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

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

Vacuum rated to 20 microns

URE 640 PSI BURST PRESSRUE 29

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

Large Backlit Display

• Easy-to-read large digital display

Buzzing Alert

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

0~10000 Pa, 0~100 mBar, 0~75 mmHg, 0~75000 microns 0.01 (10 Pa), 0.0001 (10 mBar), 0.0001 (10 mmHg), 1 (30000 microns) 15-750 micron: ±5% of reading (at 68°F)





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

Large Backlit Display

Buzzing Alert

Smart Measurement

Pirani Vacuum Sensor

- Professional grade
- Precise

Rechargeable Battery

Long battery life

Large Backlit Display

NAVAC

THI)

500

15:30

- Easy-to-read large digital display
- Easy-to-read large digital display
 Backlit for clarity
- Auto power off
- High Pressure Protection
- Figh Pressure Protection
 500 psi maximum pressure

Buzzing Alert

Angled Stem Supplied

Pirani Vacuum Sensor

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

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 highperformance rechargeable lithium battery, it is precise, durable and easy to carry.

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

USB Charging Cable

Accurate Detection

Semiconductor Sens Precise measurement

Lithium Battery Rechargeable

- Extended service life

Sniffing Fan

2 CFM ball bearing fan for very small leaks

Model	NML1
Refrigerants	CFC, HCFC, HF
Minimum of leakage	≪0.1 oz / year (F
Response time	≤3 s (depending
Battery life	≥8 hours
System pressure	≥50 psi
Sensor life	≥1 year under n
Length of probe	15.7 in
Weight	0.77 lbs
Calibration	Auto
Fan	2 CFM
Accessory	Carry Case

IG TOOLS



Ergonomic Design

Easy to carry

C refrigerants R-134a) g on the size and location of leak) normal usage (1500 h)



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 Smarte**





High Precision Chip

Precise measurement

Compact Design

Ideal for tight spaces

Backlit LCD • Easy to read large display 1-1/8" Jaw • Suitable for large conductors

Model	Ν	NMC1
Max Measurement Voltage	6	500V
Max Measurement AC Current		100 A
Max Measurement Capacitance	4	4000 μF
Temperature Measurement Range		40°F~1832°F (-40°C~1000°C)
Veight	9	9.6 oz
Accessory	Т	est Leads, Type K Temperature Probe, Storage Bag

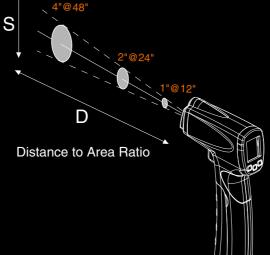


NMT300 Infrared Thermometer

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 Smarte**





Easy to Use

ecision Infrared Senso

- Rapid response, accurate measurement

- Backlit LCD · Easy to read display
- Model Emissivity Temperature Range Max Measuring Accuracy Response Time Debug Mode



Large-Aperture Silicon Mirror Long-distance reach • Wide measuring range

One-Key Operation • Convenient, easy to use

ESTING TOOLS INSTRUMENTS tt.

NMT300 0.10~1.00 adjustable -25.6°F~752°F (-32°C~400°C)

±2% 500 mS

Single-process debugging



NMT1000 Thermal Imaging Camera

The NAVAC NMT1000 is designed for HVAC applications. Equipped with a 160×120 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.

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NRS2 01 NRS3 01 **Wireless Refrigerant Scale**

Troubleshoot HVAC systems through a new lens

(4)

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

ratura Maasu

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

25 Hz Fast Refresh Free

- Smooth video and measurements
- Captures moving targets

Long Battery Life

- Up to 8 hours of continuous run time
- Auto temperature range Laser pointer

Other Features

Light Weight

Quick start in 8 seconds

· Compact design, easy to carry

Store and export images

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 NAVAC NRS2I01, NRS3I01 bluetooth wireless electronic refrigerant scale is designed and reinforced with advanced technology, providing more precise and portable refrigerant charging technology.

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

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NRS201 **Wireless Refrigerant Scale**



NRS3101 Wireless Refrigerant Scale, Large Weighing Pan





Precise Charging

oth Control

- More convenient
- Auto power off
- Large Backlit Display
- Large screen digital display, better readability

Precision Sensor

- Precise measurements
- Accuracy 0.05%

Integrated Handle Design

• Convenient hide-away storage for hand-held device

Magnesium Alloy Weighing Platform

• 3.3 lbs only, easy to carry

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

- Precise measurements
- Accuracy 0.05%

Large Backlit Display

- Large screen digital display, better readability
- Integrated Handle Design

Model		N
Range	lbs	2
Resolution	OZ	0
Accuracy	%	0
Power		
Dimension	in	1
Weight	lbs	
Accessory		C

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Precision Sensor

Large Aluminum Weighin

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

• Convenient hide-away storage for hand-held device

RS3 01 \times AA (scale), 4 \times AAA (controller) 0.6 × 12.6 arry Case

ESTING TOOLS E INSTRUMENTS



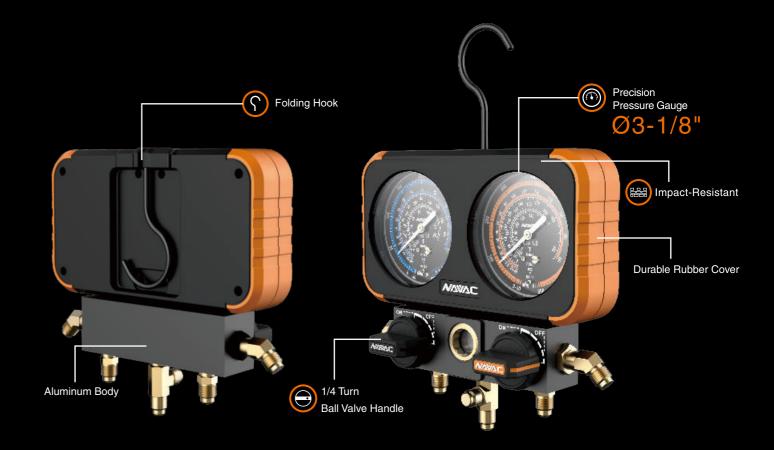


N2D4H Manifold Gauge with Digital Display



N2A4 **Manifold Gauge**





Precision • Impact-Resistant

Accurat

- Class 0.4 accuracy • Over 100% improvement vs. analog gauges

ding Hook

• Hidden hook design, easy to transport

num Body with 1/4 Turn Ball Valve Handle

Reliable, efficient and durable

- Impact-Resistant Impact-resistant design
- Durable rubber cover

22 Programmed Refrigerant Types

Precision • Impact-Resistant

 Precision pressure gauge with Class 1.0 accuracy

Impact-Resistant

- Impact-resistant design
- Durable rubber cover

- Reliable, efficient and durable
- Better work experience

Folding Hook

• Hidden hook design, easy to transport

	N2A4
	172, R
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psi	-30 inHg -30 inHg
	No
	Carry C

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- Better work experience
 - **Digital Display** Easy to read
 - Auto power off
- Model N2D4H R-22, R-32, R-134A, R-290, R-404A, R-407A, R-407C, R-410A, Refrigerant Type R-426A, R-427A, R-434A, R-442A, R-448A, R-449A, R-450A, R-452A, R-453A, R454B, R-507A, R-513A, R-600A, R-744, R-1234YF Pressure Range -30 inHg to 720 psi Red 1/4" - 1/4" Hose 1/4" - 1/4" Yellow Blue 1/4" - 1/4" Standard Length 3x5' Accessory Carry Case



inum Body with 1/4 Turn Ball Valve Handle

4-Refrigerants for Wider Application

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

-404A, R-134a, R-410A

g to 800 psi g to 500 psi

ESTING TOOLS INSTRUMENTS







Precision • Impact-Resistant

 Precision pressure gauge with Class 1.0 accuracy

mpact-Resistant

- Impact-resistant design
- Durable rubber cover

m Body with 1/4 Turn Ball Valve Handle Alum

- Reliable, efficient and durable
- Better work experience

Folding Hook

· Hidden hook design, easy to transport

R32, R454B Compatible for Wider Applic

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

Glow in the dark

Model		N2A4B
Refrigerant Type		64B, R-32, R-410A, R-22
Gauge Diameter		V 3-1/8
Pressure Range	psi	-30 inHg to 800 psi -30 inHg to 500 psi
Hose		No
Accessory		Carry Case

Precision • Impact-Resistant

 Precision pressure gauge with Class 1.0 accuracy

Impact-Resistant

istant desi

Reliable, efficient and durable

S Folding Hook

Better work experience

Folding Hook

Hidden hook design, easy to transport

1 0		0 , ,	
Durable rubber cover			
Model			N4A
Refrigerant Type			Ø
Gauge Diameter	in		V
Pressure Range	psi		-30 -30
Hose	in		Blac Red Yello Blue
Hose Length	ft		4x5'
Accessory			Carı



num Body with 1/4 Turn Ball Valve Handle

4-Refrigerants for Wider Application

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

4 Valve

Easy to use

2, R-404A, R-134a, R-410A inHg to 800 psi nHg to 500 psi 1/4" - 1/4" 1/4" - 1/4" y Case

ESTING TOOLS E INSTRUMENTS







NTB7L BreakFree[®] Power Tube Bender OPATENT 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.



NTB7L BreakFree[®] Power Tube Bender O PATENT PENDING



Bending Toward the Future

tterv-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

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



Other Features

Patented Tubing Size Selector

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

Easy Operation

- Ergonomic handle design
- Stop any time for customized angles

• Quick connect mandrel and crossbar Battery power indicator

5/8", 3/4", 7/8"

s, 1 Battery, 1 Charger







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 ¼" to ¾". 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





Accessory



Carry Case, NFG1 Flare Gauge, 1 Battery, 1 Charger





2022

DEALER DESIGN

AWARDS

the NEWS G O L D

NTE11L BreakFree[®] Power Tube Expander O 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. ring You to Work Sn







NTE11L



Effortless, Quick & Accurate Expanding

- One-button operation
- Automatic pressure relief Quick connect heads

INIOUCI	NIEIIL
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 B



• Large capacity lithium battery Complete an expansion in 12 seconds • Up to 200 expansions per charge

• Quick charge in 30 minutes

TUBING

- Battery power indicator
- LED flash light

ttery, 1 Charger



NTEQHK

Quick Connect Expander Kit for NTE11L





1-1/2"





1-5/8"

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



NTF66 NTF66C **Flaring Tool**

NAVAC Flaring Tools, with axial spacing and patented rivet



Accurate Flaring

Axial Spacing Ensuring accurate and c 	onsistent flaring	Nitride Treatr • Longer servi • Robust and o
Internal Olytak		
Internal Clutch		Eccentric Co
 Preventing over-torquing 		 45° flare for I
0	2	3
Model	NTF	-66
Tube OD	1/4"	, 5/16", 3/8", 1/2", 5/8", 3/4"

Carry Case

e life lurable

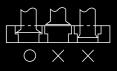
R410A system



Patented Annular Rivet Conr

52

Heavy-Duty Handle & Shaft



NTF66C 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"



NTF67D



NFG1 Flare Gauge



Accurate Flaring

Hand or Drill-Powered

Model

Tube OD

• Efficient and labor-saving with drill attached

Patented Annular Rivet Connection

NTF67D

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

Preventing over-torquing

Carry Case, NFG1 Flare Gauge

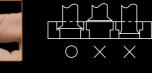


Nitride Treatment

Longer service life

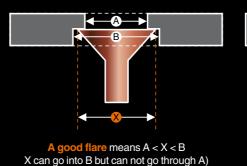
Robust and durable

Eccentric Cone • 45° flare for R410A system



Ensuring Perfect Flares

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

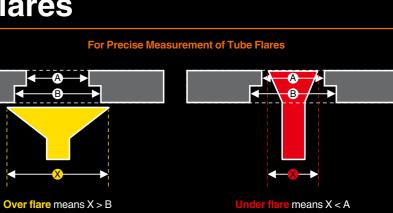


3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"





Back



(X can not go through B)

(X can go through A)





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. ering You to Work Smarter Empov



NTE11H Hydraulic Tube Expander



Powerful and Durable

Accessory

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

 - Model NTE11H Tube OD

	3/8", 1/2", 5/8"
	NTC12 (Cutte

Easy to Expand

Easy to Carry

• Foldable design for portability

Easy to Use

• Simple structure for expanding copper tubing

Foldable, Easy to Carry









Model	
Tube OD	



8", 3/4", 7/8", 1", 1-1/8"), NTD28 (Deburring Tool), Carry Case

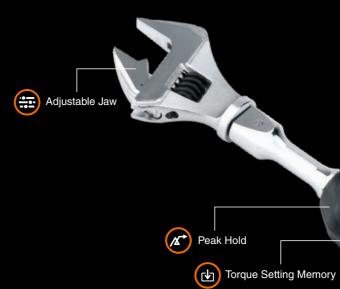




NTEHHK Expander Kit for NTE11H



NTW1 **Digital Torque Wrench**





Acc
Dua
50 c

Pea

(\circ)	

NTWR38 Ratchet Head 3/8"

Digital Readout · Adjustable Jaw

curate within 2%		
al direction (CW & CCW)		
data memories & 9 pre-sets		
ak hold		

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



1-1/2"

1-1/4"



1-3/8"



NAQA1 Quick Connect Adapter

red with NTE11L with a NAQA1 a

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









• 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

58



With sharp cutting blade, ball bearings and aluminum alloy

Leading Technology, Superior Quality, Best Experience.

Aluminum Alloy

NTC15, NTC12

PC15W, PC12W, PC6W **Replacement Cutting Wheel Set**

(2 blades & 1 pin)

body, it makes tube cutting easy and efficient.

Empowering You to Work Smarter

NTC6

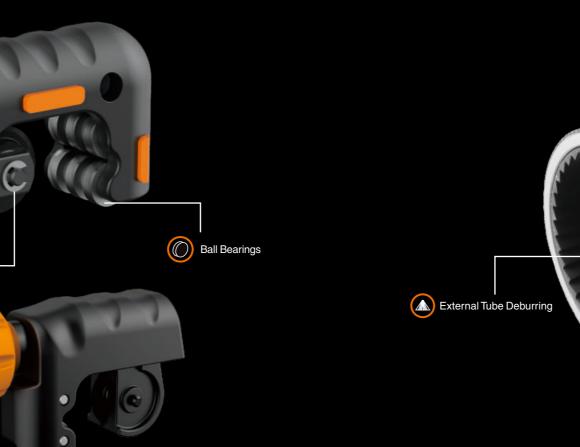
NTC12

NTC15

Tube Cutter

NTR14 **Internal & External Reamer**





NTC6

Empowering you to work smarter

Easy to Cut

-Quality Cutting Blade

- Sharp and durable
- One extra blade supplied

- **Ball Bearing**
- Easy cutting and better quality

Cutting Blade

• 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"

Fast, Easy and Clean

- Multi-Blade Alloy Steel Internal Surface
- Easy to clean internal and external tubing surfaces

Model	
Tube OD	





Slip-Resistant Aluminum Body Design

Slip-Resistant Aluminum Body Design

- Light weight
- Durability

NTR14 1/8" ~ 1-1/2"





NTD28 **Tube Deburring Tool**





Easy to Carry and Use

• 2 spare blades included

Easy to Carry



NKS2 Mini-Split Tool Kit



NAVAC Advanced Tool Kit for Mini-Split Installation

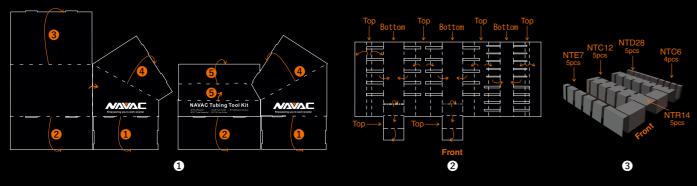
NEF6LM Power Flaring Tool Quick accurate flaring Ultra light at 2.9 lbs 		Digital readout 2		R1 Valve Core Removal Tool sizes (1/4" & 5/16") in 1 tool esigned for high-pressure refrigerants	
Model	Item	Specification		Quantity	Warranty
NEF6LM	BreakFree Power Flaring Tool	Lithium battery: 7.4V 2Ah 14.8Wh 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-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

onvenient Showcase

Easy to Refill

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



Rapid Y Connection Fitting

With it's 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

No Assembly · Less Turbulence · More Flow

- Single-piece solid brass construction
- 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





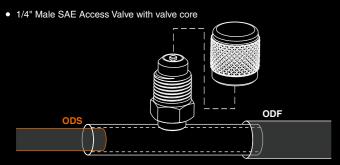
F1028

• Large internal boring for maximum flow and minimal resistance

64



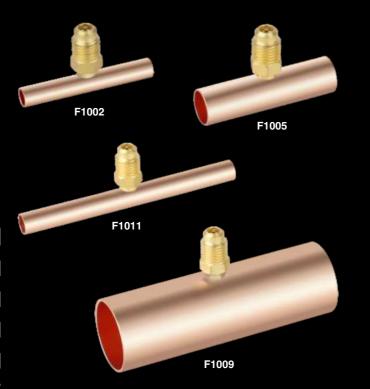
Slip Fit Copper Braze Tee



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



Empowering you to work smarter

1/4" Access Tee Connector with Flare Nut

• Includes (1) core and (1) cap



Part No.	Fitting 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

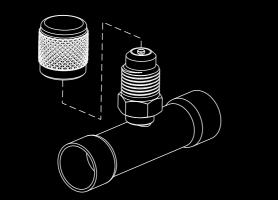
1/4" Access Tee Connector

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

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

Swaged Copper Braze Tee 1/4" Male SAE Access Valve with valve core •

Braze cups on both ends •



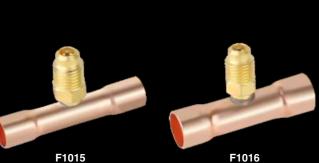
Part No.	Fit Configuration	Length	Qty
F1015	3/8" OD	2-1/8"	3 pack
F1016	1/2" OD	2-1/8"	3 pack
F1019	7/8" OD	3-1/2"	1 pack



1/4" Access 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



F1015



Backseat Control Valve

• 1/4" SAE x 1/4" O-Ring Connector



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









Quick Coupler SAE Female Adapter

Part No.	Fitting Configuration	Qty	Part No.	Fitting Configuration	Qty
F2001	1/4" SAE M x 5/16" SAE FE	1 pack	F2008	1/4" SAE M x 1/4" SAE FE	1 pack
F2002	5/16" 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

Valve Core Accessories

Liquid Charging

Adapter



F9011





F9007

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

1/4" SAE Caps E





F3002

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









No.	Model	Description
1	NP2DLM	BreakFree Cordless Vacuum Pump, 2 CFM
2	NP4DLM	BreakFree Cordless Vacuum Pump, 4 CFM
3	NRP6Di & NRP8Di	Smart Vacuum Pump, Master Series
4	NP7DP2	Vacuum Pump, 7 CFM, Pro Series, A2L Compatible
5	NP7DPF	Vacuum Pump, 7 CFM, Pro Series, A3 Compatible
6	NP12DM	Vacuum Pump, Industrial Grade, Master Series

No. Model Description NRDD Digital DC Recovery Unit NRDDF Digital DC Recovery Unit, A3 Compatible 9 NRDC4M 4-Cylinder Recovery Unit N2A4B Manifold Gauge 11 N2D4H Manifold Gauge with Digital Display, 5 Hoses

Empowering you to work smarter

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 HFFCs, 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.

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.



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:
Telephone: Fax: Web URL:

1099 Wall Street West, Suite 179 Lyndhurst, NJ 07071 +1 877 MY-NAVAC +1 877 696 2822 www.NavacGlobal.com

Primary/Order Contact:

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

Facebook: @NAVAChvactools



LinkedIn: NAVAC Inc. - HVAC Tools Division







YouTube: NAVAC Inc. HVAC Tools Division







NAVAC'S No-Hassle Warranty

Warranty Information

NAVAC Inc. GUARANTEES all NAVAC products to be free of defective material and craftmanship 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:

Charging Station NRC62 / NRC62D 2 BreakFree [®] Cordiess Vacuum Pump NRP2DL/ / NRP2D 2 Industrial - Grade Vacuum Pump NRP2DM / NRP2D 2 Industrial - Grade Vacuum Pump NRP2DM 2************************************	Category	Model	Warranty Period (Years)
Digital Gauge Vacuum Pump NRF8D/ / NRP8D/ 2 Industrial - Grade Xacuum Pump NP12DM 2 Industrial - Grade Xacuum Pump NP12DA1 1 Digital Recovery Unit NRDO 2* 4 Oylinder Recovery Unit NRDO 2 Industrial Vacuum Pump NRDC4M 2 Industrial Vacuum Pump NRD64M 2 BreakFree® Power Tube Elaring Tool NEFEL/NEFELM 2 BreakFree® Power Tube Ender NTET 2 BreakFree® Power Tube Bender NTET 2 Electronic Accessory NB1 / NBF2 / NEP2 / NAPS1 / NC / N	Charging Station	NRC62i / NRC62D	2
Industrial - Grade Vacuum PumpNP12DM2Industrial - Grade Ammonia Vacuum PumpNP12DA11Digital Recovery UnitNRDC2**4 Oylinder Recovery UnitNRDCAM2Industrial Vacuum PumpNRD16T1Industrial Vacuum PumpNRD16T1Industrial Vacuum PumpNRD16T1Industrial Vacuum PumpNRD16T1Industrial Vacuum PumpNRD16T2BreakFree® Power Tube ExpanderNTE111/NTE11LNB / NTE11LNH2BreakFree® Power Tube ExpanderNTE111/NTE11LNB / NTE11LNH2BreakFree® Power Tube BenderNTE111/NTE11LNB / NTE11LNH2BreakFree® Power Tube BenderNTE11/NTE11LNB / NTE11LNH2BreakFree® Power Tube BenderNTE11/NTE11LNB / NTE11LNH2Vacuum PumpNP4DP / NSDP / NP7DP /	BreakFree [®] Cordless Vacuum Pump	NP2DLM / NP4DLM	
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 BraakFree Power Tube Flaring Tool NEFEUL NEFEULME 2 Hydraulic Expander NTE11H/NTEHHK 2 BraakFree Power Tube Expander NTE11/NTEHHK 2 BraakFree Power Tube Expander NTE11/NTEHHK 2 BraakFree Power Tube Expander NTE7L/NEP1/NEP2/NEP2/NC1 /NC2 /NCF2 2 Electronic Accessory NB1/NBF2/NEP2/NEP2/NC1 /NC2 /NCF2 2 Vacuum Pump NP4DP/NP5DP / NP7DP / NP7DP2 / NP7DP 1 Mechanical Recovery Unit for Flarmable Refrigerants NRDDF 1 Mechanical Recovery Unit for Flarmable Refrigerants NRDDF 1 Manibold Gauge NRMD / /NRM2D / N2D4 / NAA4 / NAA4H / 1 Manibold Gauge NRMD / NRM2D / NEG/ / NESC/ /	Digital Gauge Vacuum Pump	NRP6Di / NRP8Di	2
Digital Recovery UnitNRDO2**4 Cylinder Recovery UnitNRDC/M2Industrial Vacuum PumpNRD16T1Industrial Vacuum PumpNRD24M / NRD30M1BreakFree [®] Power Tube Flaring ToolNEF6L/ NEF6LM2Hydraulie ExpanderNTE111 / NTE11LNB / NTE11LNH2BreakFree [®] Power Tube ExpanderNTE112 / NEP2 / NAPS1 / NC1 / NC2 / NCF22Electronic AccessoryNB1 / NBF2 / NAPS1 / NC1 / NC2 / NCF22Thermal Imaging CameraNMT10002Vacuum PumpNPADP/ NP3DP / NP7DP / NP7DP2	Industrial – Grade Vacuum Pump	NP12DM	
4 Cylinder Recovery Unit NRDC4M 2 Industrial Vacuum Pump NRDC4M / NRD30M 1 Industrial Vacuum Pump NRD24M / NRD30M 1 BreakFree Power Tube Flaing Tool NREL/ NEFELM 2 Hydraulic Expander NTE111 / NTE1HLNH 2 BreakFree Power Tube Expander NTE111 / NTE11LNH 2 BreakFree Power Tube Expander NTE1100 2 Thermal Imaging Camera NMT1000 2 Vacuum Pump NP4DP/ NP5DP / NP7DP / NP7DP / NP7DF 1 Mechanical Recovery Unit NRRDD 1 Mechanical Recovery Unit NRRD 1 Manifold Gauge NRH15 / NF462 / NE42 / N244	Industrial – Grade Ammonia Vacuum Pump	NP12DA1	1
Industrial Vacuum Pump NRD16T 1 Industrial Vacuum Pump NRD24M/INRD80M 1 BreakFiee [®] Power Tuble Flaring Tool NEFGL/INFEGLM 2 BreakFiee [®] Power Tuble Flaring Tool NEFGL/INFEGLM 2 BreakFiee [®] Power Tuble Expander NTE11L/INFEH1K 2 BreakFiee [®] Power Tuble Expander NTE1L/INFEH1KN / NTE11LN 2 BreakFiee [®] Power Tuble Expander NTE1L/INFEH1KN / NTE11LN 2 BreakFiee [®] Power Tuble Expander NTE1L/INFEH1KN / NTE11KN 2 BreakFiee [®] Power Tuble Expander NTE1/ 2 Dectornic Accessory NB1/INF2/INBP2/INP2/INP2/INP2/INP2/INP2/INP2/INP2/IN	Digital Recovery Unit	NRDD	2**
Industrial Vacuum PumpNRD24M / NRD30M1BreakFree Power Tube Flaring ToolNEF6L/ NEF6LM2Hydraulic ExpanderNTE11H / NTEHHK2BreakFree Power Tube ExpanderNTE11L / NTE11LNB / NTE11LNH2BreakFree Power Tube BenderNTE712BreakFree Power Tube BenderNTE712Electronic AccessoryNB1 / NBF2 / NBP2 / NAPS1 / NC1 / NC2 / NCP22Thermal Imaging CameraNMT10002Vacuum PumpNP40P / NP50P / NP70P / NP70P2 / NP70PF1Mechanical Gauge PumpNRP60V / NRP80V1Mechanical Recovery UnitNRRDD1Manfold GaugeNRM10 / NRM20 / N204H / NAA9H / MAA9H / MAA9H / NRM10 / NRM20 / N204H / NAA9H / MAA9H / NRM10 / NRM20 / N204H / NAA9H / MAA9H / NRM10 / NRM20 / N204H / NAA9H / NRM10 / NRM10 / NRM20 / N204H / NAA9H / NRM10 / NRM10 / NRM1	4 Cylinder Recovery Unit	NRDC4M	2
BreakFree [®] Power Tube Flaring Tool NEF6L/NEF6LM 2 Hydraulic Expander NTE111/NTE11LNH 2 BreakFree [®] Power Tube Expander NTE111/NTE11LNH 2 BreakFree [®] Power Tube Expander NTE11L/NTE11LNH 2 BreakFree [®] Power Tube Expander NTE11/NTE11LNH 2 BreakFree [®] Power Tube Expander NTE7/NEP2/NP7DP1/NP7DP2/NP7DP2 1 Mechanical Racovery Unit NRHDD/ NRHD 1 Mechanical Faring Tool NRHD / NRM2D / N2D4H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A / N2A4A 1 Mechanical Expander NREF6 / NTF6FC / NTF6FD 1 Mechanical Expander NTE7 1 Tube Cutter NTG11/112/13/15 1 Reamer / Deburer NTR14 / NTD28 1 Micro Gauge NNV1 / NMV15 1 Stale NRS201 / NRS301 1 Le	Industrial Vacuum Pump	NRD16T	
Hydraulic Expander NTE11H / NTEHHK 2 BreakFree® Power Tube Expander NTE1L / NTE11LNB / NTE11LNH 2 BreakFree® Power Tube Bender NTE7L 2 Electronic Accessory NB1 / NBF2 / NAPS1 / NC1 / NC2 / NCF2 2 Thermal Imaging Camera NMT1000 2 Vacuum Pump NP4DP/ NP5DP / NP7DP / NP7DP2 / NP7DF 1 Mechanical Gauge Pump NRP6DV / NRP8DV 1 Mechanical Recovery Unit NRRD 1 Mechanical Recovery Unit NRRD 1 Manifold Gauge NRHID / NRM2D / N2D4H / MAA3H / MAA4H / NRM1D / NRM2D / N2D4H / MAA3H / MAA4H / NRM1D / NRM2D / N2D4H / MAA3H / MAA4H / NRM1D / NRM2D / N2D4H / MAA3H / MAA4H / NRM1D / NRM2D / N2D4H / MAA3H / MAA4H / NRM1D / NRM2D / N2D4H / MAA3H / MAA4H / NRM1D / NRM2D / N2D4H / MAA3H / MAA4H / NRM1D / NRM2D / N2D4H / MAA3H / MAA4H / NRM1D / NRM2D / N2D4H / MAA3H / MAA4H / Mechanical Flaring Tool 1 Hose NRH153 / NRH5SC / NH57C / NH57C / 1 1 Flaring Gauge NFG1 1 Mechanical Expander NTE7 1 Tube Cutter NTE7/ 1 Micron Gauge NMV1 / NMV1S 1 Micron Gauge NMV1 / NMV1S 1 Core Tool NMU1 / NMX1S<	Industrial Vacuum Pump	NRD24M / NRD30M	1
BreakFree* Power Tube ExpanderNTE11L/NTE11LNB / NTE11L/NTE2BreakFree* Power Tube BenderNTB7L2BreakFree* Power Tube BenderNTB7L2Electronic AccessoryNB1 / NBF2 / NBP2 / NAPS1 / NC1 / NC2 / NCF22Thermal Imaging CameraNMT10002Vacuum PumpNP4DP/ NP3DP / NP7DP / NP7DP2 / NP7DPF1Mechanical Gauge PumpNRPDGF1Mechanical Recovery UnitNRPD1Mechanical Recovery UnitNRPD1Mechanical Recovery UnitNRPD1Manifold GaugeNRH1D / NRM2D / N204 / N404H / N404H / NRM1D / NRM2D / N204 / N404H / N404H / NRM1B / NRM2D / N204 / N20	BreakFree [®] Power Tube Flaring Tool	NEF6Li/ NEF6LM	
BreakFree* Power Tube BenderNTB7L2Electronic AccessoryNB1 / NBF2 / NBP2 / NAPS1 / NC1 / NC2 / NCF22Thermal Imaging CameraNMT10002Vacuum PumpNP40P/ NP50P / NP70P / NP70P2 / NP70PF1Mechanical Gauge PumpNRP60V / NRP80V1Mechanical Gauge PumpNRP60V / NRP80V1Mechanical Recovery Unit for Flammable RefrigerantsNRD0F1Mechanical Recovery UnitNRM1D / NRM2D / N204H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A / N2A4A / N2A4A1Mechanical Recovery UnitNRM1D / NRM2D / N204H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A / N2A4A1Mechanical Flaring ToolNTF66 / NTF66C / NTF67D1HoseNRF111Mechanical ExpanderNTE71Mechanical ExpanderNTE71Mechanical ExpanderNTE71Tube CutterNTG6 / 11 / 12 / 13 / 151Micron GaugeNMV1 / NMV1S1Core ToolNVR11Leak DeteotorNML11Leak DeteotorNML11Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNKC1 / NK13001	Hydraulic Expander	NTE11H/NTEHHK	2
Electronic AccessoryNB1 / NBF2 / NBP2 / NAPS1 / NC1 / NC2 / NCF22Thermal Imaging CameraNMT10002Vacuum PumpNP4DP/ NP5DP / NP7DP2 / NP7DP2 / NP7DPF1Mechanical Gauge PumpNRP6DV / NRP8DV1Recovery Unit for Flammable RefrigerantsNRDDF1Mechanical Recovery UnitNRRD1Manifold GaugeNRM1D / NRM2D / N2D4H / MA3H / MA4H / NRM1D / NRM2D / N2D4H / MA3H / MA4AH / NRM1B / NRM2B / N2A4 / N2A4A / N2A4A / N2A4A1HoseNRH15 / NRM2B / N2A4 / N2A4A / N2A4A / N2A4A1HoseNRH16 / NTF66 / NTF67D1Mechanical Flaring ToolNTE71Tube CutterNTE71Tube CutterNTE71Micron GaugeNW11 / NMV1S1Micron GaugeNW11 / NMV1S1ScaleNRS201 / NRS201 / NRS2011Leak DetectorML11Torque WrenchNTW1 / NTW14111Electronic MeterNTW1 / NTW13001	BreakFree [®] Power Tube Expander	NTE11L/NTE11LNB/NTE11LNH	
Thermal Imaging CameraNMT10002Vacuum PumpNP4DP/ NP5DP / NP7DP / NP7DP2 / NP7DPF1Mechanical Gauge PumpNRP6DV / NRP8DV1Recovery Unit for Flammable RefrigerantsNRDDF1Mechanical Recovery UnitNRRD1Manifold GaugeNRM1D / NRM2D / N204H / NAA3H / NAA4H / NRM1B / NRM2B / N2A4 / N2A4A / N2A4B1Manifold GaugeNRHH53 / NRHH53 / NHH53C / NH5NC	BreakFree® Power Tube Bender	NTB7L	2
Vacuum PumpNP4DP/ NP5DP / NP7DP / NP7DP2 / NP7DPF1Mechanical Gauge PumpNRP6DV / NRP8DV1Recovery Unit for Flammable RefrigerantsNRDDF1Mechanical Recovery UnitNRRD1Manifold GaugeNRM1D / NRM2D / N2D4H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A / N2A4A1Manifold GaugeNRM1D / NRM2D / N2D4H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A / N2A4A1HoseNRH1H53 / NRH1H53 / NRH1H53 / NH1H53 / NH1 / NT06 / 11 / 11 / 11 / 11 / 11 / 11 / 11 /	Electronic Accessory	NB1 / NBF2 / NBP2 / NAPS1 / NC1 / NC2 / NCF2	2
Mechanical Gauge PumpNRP6DV / NRP8DV1Recovery Unit for Flammable RefrigerantsNRDDF1Mechanical Recovery UnitNRRD1Manifold GaugeNRM1D / NRM2D / N2D4H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A N2A4B1HoseNRHH53 / NRHH53 / NH5S / NH5S / NH5S / NH51/2/31HoseNRHH53 / NRHH53 / NFH65 / NTF67D1Mechanical Flaring ToolNTF66 / NTF66 / NTF67D1Flaring GaugeNFG11Mechanical Flaring ToolNTE71Tube CutterNTC6 / 11 / 12 / 13 / 151Reamer / DeburrerNTR14 / NTD281Micron GaugeNMV1 / NMV1S1Core ToolNVR11ScaleNRS201 / NRS3011Leak DetectorNIL11Torque WrenchNTW1 / NTWH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic KiterNMC1 / NMT3001	Thermal Imaging Camera	NMT1000	2
Recovery Unit for Flammable RefrigerantsNRDDF1Mechanical Recovery UnitNRRD1Manifold GaugeNRM1D / NRM2D / N2D4H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A / N2A4B1HoseNRH1H53 / NRHH53 / NH55 / NHB1/2/31HoseNRH1H53 / NRHH53 / NH55 / NHB1/2/31Mechanical Flaring ToolNTF66 / NTF66C / NTF67D1Flaring GaugeNFG11Mechanical ExpanderNTE71Tube CutterNTC6 / 11 / 12 / 13 / 151Reamer / DeburrerNTR14 / NTD281Micron GaugeNWV1 / NWV1S1Core ToolNVR11ScaleNRS201 / NRS3011Leak DetectorNML11Torque WrenchNTW1 / NTWH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNMC1 / NMT3001	Vacuum Pump	NP4DP/NP5DP/NP7DP/NP7DP2/NP7DPF	1
Mechanical Recovery UnitNRRD1Manifold GaugeNRM1D / NRM2D / N2D4H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A N2A4B1HoseNRHH53 / NRHH53C / NH5SC / NH5/2/31HoseNRHH53 / NRHH53C / NH5/SC / NH5/2/31Mechanical Flaring ToolNTF66 / NTF66C / NTF67D1Flaring GaugeNFG11Mechanical ExpanderNTE71Tube CutterNTC6 / 11 / 12 / 13 / 151Reamer / DeburrerNTR14 / NTD281Micron GaugeNWV1 / NMV1S1Core ToolNVR11ScaleNRS201 / NRS3011Leak DetectorNML11Torque WrenchNTW1 / NTWH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNMC1 / NMT3001	Mechanical Gauge Pump	NRP6DV / NRP8DV	1
Manifold GaugeNRM1D / NRM2D / N2D4H / N4A3H / N4A4H / NRM1B / NRM2B / N2A4 / N2A4A / N2A4B1HoseNRH153 / NRH153 / NRH153C / NH5SC / NH5SC / NH512/31Mechanical Flaring ToolNTF66 / NTF66C / NTF67D1Flaring GaugeNFG11Mechanical ExpanderNTE71Tube CutterNTC6 / 11 / 12 / 13 / 151Reamer / DeburrerNTT1 / NTV1 / NTV1S1Micron GaugeNMV1 / NMV1S1Core ToolNVR11ScaleNRS2i01 / NRS3i011Leak DetectorNML11Torque WrenchNTV1 / NTVH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNMC1 / NMT3001	Recovery Unit for Flammable Refrigerants	NRDDF	
Manifold GaugeNRM1B / NRM2B / N2A4 / N2A4A /N2A4B1HoseNRHH53 / NRHH53 / NHB1/2/31Mechanical Flaring ToolNTF66 / NTF66C / NTF67D1Flaring GaugeNFG11Mechanical ExpanderNTE71Tube CutterNTC6 / 11 / 12 / 13 / 151Reamer / DeburrerNTR14 / NTD281Micron GaugeNVR11Core ToolNVR11ScaleNNL1 / NNV1S1Leak DetectorNML11Torque WrenchNTW1 / NTWH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNMC1 / NMT3001	Mechanical Recovery Unit	NRRD	1
HoseNRM1B / NRM2B / N2A4 / N2A4 A /N2A4BHoseNRHH53 / NRHH53 / NRHH53C / NH5SC / NH51/2/31Mechanical Flaring ToolNTF66 / NTF66C / NTF67D1Flaring GaugeNFG11Mechanical ExpanderNTE71Tube CutterNTC6 / 11 / 12 / 13 / 151Reamer / DeburrerNTR14 / NTD281Micron GaugeNWV1 / NMV1S1Core ToolNVR11ScaleNRS201 / NRS3011Leak DetectorNML11Torque WrenchNTW1 / NTWH411Electronic MeterNMC1 / NMT3001	Manifeld Cause	NRM1D / NRM2D / N2D4H / N4A3H / N4A4H /	
Mechanical Flaring ToolNTF66 / NTF66 / NTF67D1Flaring GaugeNFG11Mechanical ExpanderNTE71Tube CutterNTC6 / 11 / 12 / 13 / 151Reamer / DeburrerNTR14 / NTD281Micron GaugeNWV1 / NMV1S1Core ToolNVR11ScaleNRS2i01 / NRS3i011Leak DetectorNML11Torque WrenchNTW1 / NTWH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNMC1 / NMT3001	Manliold Gauge	NRM1B / NRM2B / N2A4 / N2A4A /N2A4B	
Flaring GaugeNFG11Mechanical ExpanderNTE71Tube CutterNTC6 / 11 / 12 / 13 / 151Reamer / DeburrerNTR14 / NTD281Micron GaugeNMV1 / NMV1S1Core ToolNVR11ScaleNRS2i01 / NRS3i011Leak DetectorNML11Torque WrenchNTW1 / NTWH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNMC1 / NMT3001	Hose	NRHH53 / NRHH53C / NH5SC/ NHB1/2/3	1
Mechanical ExpanderNTE71Tube CutterNTC6 / 11 / 12 / 13 / 151Reamer / DeburrerNTR14 / NTD281Micron GaugeNMV1 / NMV1S1Core ToolNVR11ScaleNRS2i01 / NRS3i011Leak DetectorNML11Torque WrenchNTW1 / NTWH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNMC1 / NIT3001	Mechanical Flaring Tool	NTF66 / NTF66C / NTF67D	1
Tube CutterNTC6/11/12/13/151Reamer / DeburrerNTR14 / NTD281Micron GaugeNMV1 / NMV1S1Core ToolNVR11ScaleNRS2i01 / NRS3i011Leak DetectorNML11Torque WrenchNTW1 / NTWH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNMC1 / NIT3001	Flaring Gauge	NFG1	1
Reamer / DeburrerNTR14 / NTD281Micron GaugeNMV1 / NMV1S1Core ToolNVR11ScaleNRS2i01 / NRS3i011Leak DetectorNML11Torque WrenchNTW1 / NTWH411Evacuation KitNEVK1 / NEVK2 / NEVK31Electronic MeterNMC1 / NIT3001	Mechanical Expander	NTE7	1
Micron GaugeNMV1 / NMV1SMicron GaugeNMV1 / NMV1SCore ToolNVR1ScaleNRS2i01 / NRS3i01Leak DetectorNML1Torque WrenchNTW1 / NTWH41Evacuation KitNEVK1 / NEVK2 / NEVK3Electronic MeterNMC1 / NMT300	Tube Cutter	NTC6/11/12/13/15	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	Reamer / Deburrer	NTR14/NTD28	1
Scale NRS2i01 / NRS3i01 Leak Detector NML1 Torque Wrench NTW1 / NTWH41 Evacuation Kit NEVK1 / NEVK2 / NEVK3 Electronic Meter NMC1 / NIT300	Micron Gauge	NMV1 / NMV1S	1
Leak Detector NML1 1 Torque Wrench NTW1 / NTWH41 1 Evacuation Kit NEVK1 / NEVK2 / NEVK3 1 Electronic Meter NMC1 / NMT300 1	Core Tool	NVR1	1
Torque Wrench NTW1 / NTWH41 1 Evacuation Kit NEVK1 / NEVK2 / NEVK3 1 Electronic Meter NMC1 / NMT300 1	Scale	NRS2i01 / NRS3i01	1
Evacuation Kit NEVK1 / NEVK2 / NEVK3 1 Electronic Meter NMC1 / NMT300 1	Leak Detector	NML1	1
Electronic Meter NMC1 / NMT300 1	Torque Wrench	NTW1 / NTWH41	1
	Evacuation Kit	NEVK1 / NEVK2 / NEVK3	1
Pipe Fittings Refer to page 64~671	Electronic Meter	NMC1 / NMT300	1
	Pipe Fittings	Refer to page 64~67	1

**3 YEARS IF PRODUCT IS REGISTERED at



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 warrantied for use on the following systems:

- Lithium
- Ammonia (Except NP12DA1)
- Bromide

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 htt or calobal com/wp-content/uploade/2010/05/ Download an RMA Form f and email to l.com, or Fax to 877-696-2822 Please fill out completely. Any missing information could delay processing.

- Butane (Except NP7DPF and NRDDF)
- CO₂ type extraction
- Leak Stop products







