



# NAVTEK Equipment

High Performance, Precise Measurement,  
Leading Technology

Version 2 | 2026



A2L | A2 | A3  
Compatible

**NAVTEK**  
Empowering you to work smarter

## About NAVTEK®

### GLOBAL HVAC TOOL MANUFACTURER

Here at NAVTEK, we are on a mission to redefine the HVAC tool industry by empowering technicians with cutting-edge vacuum pumps, recovery units, tubing tools, testing instruments, and a full range of HVAC tools that elevate their capabilities and experience. Our commitment lies in enhancing the precision, ease, and efficiency of HVAC professionals, ensuring they can tackle every job with precision and confidence.

In the rapidly evolving HVAC landscape, staying ahead means embracing new technologies. NAVTEK is at the forefront of innovation, integrating cutting-edge technology into our products to provide technicians with state-of-the-art solutions. NAVTEK is known for its **Leading Technology** and innovation with many award-winning, industry-leading, and unique product offerings.

**Superior Quality** is the cornerstone of our success. We take tremendous pride in delivering professional-grade solutions that meet and exceed the highest industry standards. Our commitment to quality is evident in every product we offer, ensuring durability, reliability, and consistent performance. At NAVTEK, we believe that technicians deserve tools that stand the test of time and deliver exceptional results on every job, day in and day out.



We are and have been for nearly three decades, dedicated to empowering HVAC technicians to achieve unparalleled accuracy, simplicity, and productivity in their work. We understand the challenges faced by professionals in the field, and our mission is to provide them with the tools they need to overcome these challenges seamlessly and efficiently. In addition to the industry leading tools we develop, we ensure best practices are utilized, so technicians can complete the job at hand, while delivering the **Best Experience**.

NAVTEK is not just a brand; it's a commitment to the success of HVAC technicians all over the world. We work tirelessly to provide the very best HVAC tools in the market and to be the go-to choice for HVAC technicians. Join us on our journey to empower HVAC professionals with tools that make a difference, embody precision, ease, efficiency, and highlight an unwavering commitment to quality.

**Elevate your career with NAVTEK, always empowering you to work smarter.**



# VACUUM PUMPS & EVACUATION



**BREAKFREE**  
CORDLESS SERIES

**KIT CONTAINS:**

- 1 – 2CFM Vacuum Pump
- 1 – 5Ah Lithium-Ion Battery
- 1 – Lithium-Ion Battery Charger
- 1 – 5oz. Bottle of Vacuum Pump Oil
- 1 – Heavy Duty Protective Travel Tool Bag

## NP2DLM

**CORDLESS  
VACUUM PUMP**



**Cordless. Compact. Convenient.**

Featuring DC Technology, this lightweight, highly efficient vacuum pump is perfect for any job. With a high-performance lithium battery that provides higher capacity and longer running time, you can bring the NP2DLM cordless vacuum pump on any service call in any location. The NP2DLM is highlighted by its mobile design allowing it to be compact and easy to carry. Lastly, the isolation ball valve and twin cylinder make this vacuum pump easy to use, reliable and ensures maximum vacuum capacity.

**High performance Lithium Battery • Brushless DC Technology  
Twin Cylinder • Compact Design**

Li-ion	18V, 5Ah
Flow Rate	2 cfm
Run Load Amps	7.5 amps
Ultimate Vacuum	23 microns
Pump Design	Dual stage
Inlet Port	1/4", 3/8" Flare
Oil Capacity	5.1 oz.
Dimensions	9.2" x 3.5" x 7.5"
Weight	8.4 lbs. (w/battery)
Warranty	2 years



**BREAKFREE**  
CORDLESS SERIES

**KIT CONTAINS:**

- 1 – 4CFM Vacuum Pump
- 1 – 9Ah Lithium-Ion Battery
- 1 – Lithium-Ion Battery Charger
- 1 – 9oz. Bottle of Vacuum Pump Oil
- 1 – Heavy Duty Protective Travel Tool Bag

## NP4DLM

**CORDLESS  
VACUUM PUMP**



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

Suitable for residential and light commercial applications, the new NP4DLM can achieve a flow rate of 4 cfm among other attributes. The model is the third unit in the BreakFree Series™ of cordless HVAC tools.

The NP4DLM Cordless Vacuum Pump features a high-performance lithium battery capable of up to one hour of continuous running time. At a scant 15.4 pounds, the unit is exceedingly efficient and, for technicians, easy to carry and store. The NP4DLM's twin cylinder operation provides high vacuum down to 15 microns. A check valve prevents backflow. Other highlights include an isolation valve as well as a lifting hook and gas ballast for better moisture handling. Its inlet port fits flares of 1/4", 3/8", and 1/2".

**High Capacity Cordless Pump • High performance Lithium Battery  
Brushless DC Technology • Twin Cylinder • Compact Design**

Li-ion	18V, 9Ah
Flow Rate	4 cfm
Run Load Amps	10 amps
Ultimate Vacuum	15 microns
Pump Design	Dual stage
Inlet Port	1/4", 3/8", 1/2" Flare
Oil Capacity	8.8 oz.
Dimensions	12.4" x 4.4" x 9.4"
Weight	15.4 lbs. (w/battery)
Warranty	2 years

**Use 'Big Boy' hoses with vacuum pumps to boost evacuation efficiency by 66%!**



## NB1

**18V, 5Ah Li-ion Battery  
For NP2DLM**



## NBP2

**18V, 9Ah Li-ion Battery  
For NP4DLM, NP2DLM**



## NP4DP VACUUM PUMP

### Performance. Reliability.

The NP4DP features twin cylinder for high ultimate vacuum, integrated cylinder structure for high performance and reliability and forced oil circulation for improved efficiency and durability.

- Twin Cylinder • Forced Oil Circulation • Lifting Hook
- Integrated Cylinder Structure

Power Supply	230V/60Hz
Flow Rate	4 cfm
Run Load Amps	4.3 amps
Ultimate Vacuum	15 microns
Pump Design	Dual stage
Motor Power	3/4 HP
Inlet Port	1/4", 3/8" Flare
Oil Capacity	17 oz.
Dimensions	13.6" x 5" x 11.3"
Weight	24.3 lbs. (w/battery)
Warranty	2 years



## NP7DP2 VACUUM PUMP



### Performance. Reliability.

NP7DP2 is A2L (R32, R454B) compatible vacuum pump with expanded applications. Its dual-stage design delivers an ultimate vacuum down to 15 microns. Integrated cylinder structure coupled with forced oil circulation assure its high performance and reliability. Built-in hook makes it easy to carry to a high workplace.

- Dual-Voltage • Twin Cylinder • Forced Oil Circulation
- Lifting Hook • Integrated Cylinder Structure

Power Supply	230V/60Hz
Flow Rate	7 cfm
Run Load Amps	4 amps
Ultimate Vacuum	15 microns
Pump Design	Dual stage
Motor Power	3/4 HP
Inlet Port	1/4", 3/8", 1/2" Flare
Oil Capacity	15 oz.
Dimensions	14" x 5" x 11.3"
Weight	26 lbs. (w/battery)
Warranty	2 years



## NP12DM VACUUM PUMP NP12DM 230V



### Performance. Reliability.

NP12DM solves the problems of long-time evacuation, inadequate vacuum level in the service for large commercial refrigeration or central AC systems. The dual stage rotary vane pump and inverter motor lead to faster evacuation and a deeper vacuum. Integrate pump structure and built-in oil back-flow prevention assure superior performance and reliability.

- Dual-Voltage • Twin Cylinder • Oil Back Flow Prevention
- Lifting Hook • Integrated Cylinder Structure

Power Supply	230V/60Hz
Flow Rate	12 cfm
Run Load Amps	7.9 amps
Ultimate Vacuum	5 microns
Pump Design	Dual stage
Motor Power	1/2 HP
Inlet Port	1/4", 3/8", 1/2" Flare
Oil Capacity	28 oz.
Dimensions	16.3" x 6" x 12.1"
Weight	32 lbs. (w/battery)
Warranty	2 years



## NP12DA1 AMMONIA VACUUM PUMP

### Performance. Reliability.

NP12DA1 solves the problems of long-time evacuation, inadequate vacuum level in the service for large commercial refrigeration or central AC systems. The special design with corrosion-resistant pump parts and stainless steel inlet port makes the pump suitable for ammonia (R-717). The dual-stage rotary vane pump and inverter motor lead to faster evacuation and a deeper vacuum. Integrate pump structure and built-in oil back-flow prevention assure superior performance and reliability.

- Dual-Voltage • Twin Cylinder • Oil Back Flow Prevention
- Lifting Hook • Integrated Cylinder Structure

Power Supply	230/60Hz
Flow Rate	12 cfm
Run Load Amps	5 amps
Ultimate Vacuum	5 microns
Pump Design	Dual stage
Motor Power	1/2 HP
Inlet/Exhaust Flange	KF25
Oil Capacity	28 oz.
Dimensions	16.3" x 6" x 12.1"
Weight	32 lbs. (w/battery)
Warranty	2 years

# RECOVERY



**Brushless DC Motor • Large Backlit Display • Oil-Free Compressor  
Twin Cylinder with 2-Row Oversized Condenser • Purge Function**

## NRDDF

### BRUSHLESS DC RECOVERY UNIT

**Light. Fast. Compact.**

The NRDDF recovery unit features a Brushless DC Motor making it lightweight and much more efficient, a large backlit display, twin cylinder design with 2-row oversized condenser, oil free compressor and self-purging functionality. The NRDDF recovery unit is suitable for all commonly used refrigerants making it the ideal recovery unit!

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-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			
Recovery Rate (lbs/min)			
	R-22	R-134a	R-410a
Direct Vapor	0.55	0.37	0.49
Direct Liquid	6.88	5.34	7.98
Push/pull Liquid	14.2	11.0	15.1

Power Supply	230V/60Hz
Full Load Amps	11 amps
Motor	1 HP
Max Current Draw	10 amps
Compressor	Oil-less, Air-cooled, Piston style
Automatic Safety Shut-Off	558 psi/38.5 bar
Dimensions	14.6" x 9.9" x 11.7"
Weight	25.4 lbs.
Warranty	2 years



## NHB1 NHB2

### “Big Boy” 1/2" Evacuation Hoses

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



## NH34AB NH34AC

### “Big Boy” 3/4" Evacuation Hoses

Boasting a large 3/4" diameter, the NH34AC optimizes evacuation and recovery processes. It features high-grade, low-permeation hoses, ensuring durable and reliable performance. The NH34AB includes heavy-duty gaskets, with additional ones provided to ensure continued excellence in service. It is 3' long with 1/4" to 3/8" fitting for NH34AB and 1/4" to 3/8" fitting for NH34AC and is vacuum rated to 20 microns.



## VO1G VO1Q

### Premium Vacuum Pump Oil

Premium Vacuum Pump Oil. This advanced product features a non-misting formula that guarantees low volatility and high resistance to oxidation. Created from hydro-processed mineral oil, it boasts exceptional purity and refinement. Its excellent lubricity provides optimal protection for your pump, even at the deepest vacuum levels.

Model	NHB1	NHB2	NH34AB	NH34AC
Diameter	1/2"	1/2"	3/4"	3/4"
Length	6'	6'	3'	3'
Connector	1/4"-3/8"	1/4"-1/2"	1/4"-3/8"	1/4"-1/2"

Model	VO1G	VO1Q
Capacity	1 Gallon	1 Ltr

# TESTING TOOLS & INSTRUMENTS



Pairs with the NSV1 Smart Refrigerant Valve for precision charging



## NRS2A WIRELESS REFRIGERANT SCALE

### Precise Charging. Wireless Connectivity.

The NRS2A Smart Refrigerant Scale delivers precision and convenience for refrigerant charging and recovery tasks. Compatible with the Smartphone app and the NSV1 smart valve, it offers wireless Bluetooth connectivity for seamless integration and automatic operation. Built with a lightweight magnesium alloy weighing platform, the scale is highly durable yet weighs only 3.3 lbs, making it easy to transport with its integrated handle design. It provides precise measurements with 0.05% accuracy and low latency for real-time readings. The impact-resistant design and auto power-off feature ensure reliability and efficiency, making the NRS2A an essential tool for HVAC professionals.

Wireless Bluetooth Control • Precision Sensor • Large Backlit Display  
Integrated Handle Design • Magnesium Alloy Weighing Pan

Maximum load	220 lbs (100 kg)
Resolution	0.2 oz.
Accuracy	0.05% F.S
Power	4xAA (Scale) 4xAAA (Handheld)
Battery Operating Time	Handheld device: 65 hours Scale: 150 hours
Weight	3.3 lbs (1.49Kg)
Bluetooth Range	100 ft (30 m)
Accessory	Carry bag
Warranty	2 years



## NRS3101 WIRELESS REFRIGERANT SCALE

### Precise Charging.

The NAVTEK NRS3101 series 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, and alert the operator to stop the charging once the setting is reached. The magnesium alloy weighing pan and ergonomic, one-piece, portable design make it lighter and easier to carry.

Wireless Bluetooth Control • Precision Sensor • Large Backlit Display  
Integrated Handle Design • Magnesium Alloy Weighing Pan

Range	220 lbs.
Resolution	0.2 oz.
Accuracy	0.05%
Power	4xAA, 4xAAA
Dimension	8.25" x 10.2"
Weight	3.3 lbs.
Warranty	2 years



## NML1 LEAK DETECTOR



### Precise Measurement.

With its semiconductor sensor, it is precise and has a long service life. Equipped with a high-performance, rechargeable lithium battery, it is easy to carry and easy to use.

Semiconductor Sensor • Lithium Battery  
Sniffing Fan • Ergonomic Design

Refrigerants	CFC, HCFC, HFC refrigerants
Minimum of leakage	(R-134A)
Response time	≤3s (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
Warranty	2 years



## 13091 SENSOR

To suit NML1

# MANIFOLD SETS & HOSES



## N2B9H MANIFOLD GAUGE 2-VALVE

### Precision. Impact-Resistant.

Incorporating the latest ergonomic research and advanced design, it's easy to handle and delivers high precision with Class 1.0 accuracy. The integrated, impact-resistant body design provides outstanding protection. With ball valve handle and easy folding hook design, they are easy to carry complete with hoses and carry case.

Accurate • Folding Hook • Impact-Resistant  
Aluminum Body with Ball Valve Handle

Refrigerant Type	R404A/R134a/R32/R410A
Gauge Diameter	Φ2-5/8"
Pressure Range	-30 inHg to 800 psi -30 inHg to 500 psi
Hose	1/4-1/4" Red 1/4-1/4" Yellow 1/4-1/4" Blue
Standard Length	3' x 5'
Warranty	2 years



## N4A9H MANIFOLD GAUGE 4-VALVE

### Impact-Resistant Manifold Gauge

Incorporating the latest ergonomic research and advanced design, it's easy to handle and delivers high precision with Class 1.0 accuracy. The integrated, impact-resistant aluminum body design provides outstanding protection. With 4 ball valve handles and easy folding hook design, they are easy to carry complete with hoses and carry case.

Accurate • Folding Hook • Impact-Resistant

Refrigerant Type	R404A/R134a/R32/R410A
Gauge Diameter	Φ3-1/8"
Pressure Range	-30 inHg to 800 psi -30 inHg to 500 psi
Hose	3/8 - 3/8" Black 1/4 - 1/4" Red 1/4 - 1/4" Yellow 1/4 - 1/4" Blue
Hose Length	4' x 5'
Warranty	2 years



## NMV1S PREMIUM MICRON VACUUM GAUGE

### Smart Measurement.

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.

Pirani Vacuum Sensor • Large Backlit Display  
Ergonomic Design • Buzzing Alert

Maximum overload pressure	500 psi
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
Warranty	2 years

# New NAVTEK® SmartTools

Introducing NAVTEK SmartTools— an intelligent range of digital diagnostic instruments designed to streamline HVAC/R servicing and system analysis.

Combining advanced wireless connectivity with intuitive operation, SmartTool devices work seamlessly together to provide a complete picture of system performance from a single display.

The NX1 Digital Manifold Gauge wirelessly connects to up to one high-side and one low-side temperature clamp, as well as the NMV1S Micron Gauge, allowing technicians to monitor temperatures, pressures and vacuum readings simultaneously. Compatible with more than 72 refrigerants, the SmartTool range delivers accurate, real-time data through a clear backlit display, providing a faster, smarter and more efficient approach to system diagnosis, commissioning and maintenance.



**SmartTOOL**  
APP CONNECTED



Quickly pair and add single or multiple devices via Bluetooth search, enabling more efficient viewing and management of measurement data across tools.

- Real-time display of measurement values
- Remote control and configuration
- Record, save, and store essential monitoring data
- Measurement values can be displayed as process curves or in tabular format
- Measurement results can be exported as Excel or PDF reports and shared via email

## Use with the App



**VALUE**  
APP Connected



**For Apple:** Search for "HiVALUE" in the App Store, then download and install the app.

**For Android:** Search for "HiVALUE" in the Google Play Store, then download and install the app





**SmartTOOL**  
APP CONNECTED



## N2DX

### FLEX-X MANIFOLD GAUGE WITH HD COLOR GRAPHIC INTERFACE

#### Digital Interface. 72 Refrigerants.

The N2DX FLEX-X Manifold Gauge is the industry's first gauge with HD Color Graphic Interface. It delivers Class 0.4 accuracy with digital reading, real-time visuals, and advanced animations through its innovative graphical user interface. With a rechargeable battery lasting up to 100 hours and its intuitive one-knob design, the FLEX-X combines cutting-edge technology with effortless operation. Fully compatible with A2L refrigerants, it supports 72 refrigerants, replacing the need for multiple analog gauges commonly associated with substantial costs in time, space, and money. It features a durable aluminum body, IP54 impact-resistant rubber cover, and a foldable hook, ensuring reliability and portability.

**Accurate • Folding Hook • Impact-Resistant Aluminum Body • 100 Hours Battery Life**

Refrigerant Type	Compatible with 72 refrigerants — see footnote for full list. *Maximum pressure: 1087psi (7500kPa)
Gauge Diameter	TBC
Pressure Range	-29.0 inHg to 720 psi (-1-50 bar)
Power Supply	Lithium Battery.
Accessory	Carry Case
Warranty	2 years



**SmartTOOL**  
APP CONNECTED



## NX1

### NEXUS DIGITAL MANIFOLD GAUGE

#### Digital Screen. Wireless Features.

The NAVTEK NX1 Nexus Digital Manifold Gauge enhances the HVAC diagnostics experience with its wireless features. Bluetooth connectivity for temperature probes and micron gauges provides comprehensive remote insights all on the screen of Nexus. It caters to various needs with 4 operation modes (Manifold, Leak Test, Evacuation, and Decay Test). Built with an aluminum body and a 1/4 turn ball valve, it ensures durability. The foldable hidden hook enhances portability, while its Class 0.4 accuracy and clear digital display offer precise readings. Impact-resistant and covered in durable rubber, the NX1 withstands field challenges, ensuring a prolonged, resilient work experience.

**Leading Technology • Superior Quality • Best Experience. Accurate • Folding Hook • Impact-Resistant**

Refrigerant Type	Compatible with 72 refrigerants — see footnote for full list. *Maximum pressure: 600 Psi (4200 kPa)
Gauge Diameter	TBC
Pressure Range	-30 inHg to 720 psi
Power Supply	Rechargeable 3000 mAh Lithium Battery.
Bluetooth Range	Up to 260 feet
Accessory	Charging Cable, Carry Case
Warranty	2 years



**SmartTOOL**  
APP CONNECTED



## NX4

### NEXUS DIGITAL MANIFOLD GAUGE

#### Smart & Precise

The NAVTEK NX4/NX4V Nexus Digital Manifold Gauge revolutionizes HVAC diagnostics with advanced wireless features. Equipped with 4 valves, including a 3/8" vacuum port for fast evacuations, it enables a single setup for multi-task operations. Seamlessly connect to Bluetooth-enabled temperature probes and micron gauges to access comprehensive remote insights directly on the Nexus screen. Designed to meet diverse needs, it offers four operational modes: Manifold, Leak Test, Evacuation, and Decay Test. The robust aluminum body and 1/4-turn ball valve ensure lasting durability, while the foldable hidden hook enhances portability. With Class 0.4 accuracy and a clear digital display, it delivers precise readings. Built to endure field challenges, its impact-resistant, rubber-covered construction guarantees reliable, long-term performance.

**Leading Technology • Superior Quality • Best Experience. Accurate • Folding Hook • Impact-Resistant**

Refrigerant Type	Compatible with 72 refrigerants — see footnote for full list. *Maximum pressure: 1087psi (7500kPa)
Gauge Diameter	(1)3/8" sae vacuum: (3) 1/4" sae for suction line liquid line, and refrigerant recovery/charging
Maximum Pressure	1087psi (7500kPa)
Power Supply	Rechargeable 3000 mAh Lithium Battery.
Accessory	Charging Cable, Carry Case
Warranty	2 years

The N2DX, NX1, NX4 manifold gauges are compatible with the following refrigerants

R-11, R-12, R-13, R-22, R-23, R-32, R-113, R-114, R-115, R-116, R-123, R-124, R-125, R134a, R-236fa, R-245fa, R-290, R-401A, R-401B, R-402A, R-402B, R-403B, R-404A, R-406A, R-407A, R-407B, R-407C, R-408A, R-409A, R-410A, R-413A, R-414A, R-414B, R-416A, R-417A, R-417C, R-420A, R-421A, R-421B, R-422A, R-422B, R-422C, R-422D, R-424A, R-427A, R-428A, R-434A, R-437A, R-438A, R-448A, R-449A, R-450A, R-452A, R-452B, R-453A, R-454B, R-458A, R-500, R-501, R-502, R-503, R-507A, R-508B, R-513A, R-600, R-600a, R-601, R-601a, R-744\*, R-1233zd, R-1234yf, R-1234ze



## NSV1 SMART REFRIGERANT VALVE

### Precision Charging. Wireless Connectivity

The NSV1 Smart Refrigerant Valve offers advanced control and precision for refrigerant charging and recovery tasks. Fully compatible with the Smartphone App and A2L refrigerants, it enables wireless connectivity with the NRS2A refrigerant scale for seamless operation. Equipped with a smart solenoid valve, the NSV1 provides automatic refrigerant flow control with real-time status indicators for flow, Bluetooth connection, and power. Its rechargeable lithium battery delivers up to 60 hours of runtime, with a battery indicator for added convenience. Built with an impact-resistant, IP54-rated design and a compact form factor featuring a folding hook, the NSV1 combines durability and portability for efficient, reliable performance in HVAC applications.

**Reliable Performance • Compact Folding Hook • Impact-Resistant**

Maximum Valve Opening ΔP (or Maximum Working Pressure)	551 psi (38bar)
Ports	1/4"
Operating environment	14° F to 122° F (-10° C to 50 °C)
Dimensions	4.76"H x 3.62"W x 1.87"D (121 x 92 x 47.5 mm)
Power Supply	Rechargeable 1000mAh Lithium Battery
Rechargeable Battery Operating Time	60 hours
Bluetooth Range	>98.4 ft (>30m)
Unit Weight	1.33 lbs (0.6 kg)
Accessory	Carry bag
Warranty	2 years



## NST1 NST2 BLUETOOTH LOW & HIGH TEMPERATURE CLAMPS

### Precision Temperature Control

The NST1 Low Side (left) and NST2 High Side (right) bluetooth Low & High Temperature Clamps feature a built in digital display, a high accuracy thermistor sensor and support bluetooth connection when paired the NAVTEK Nexus Digital Manifold Gauge.

**One-button Operation • 150 Hours Battery Life • Bluetooth Large 1-5/8" Opening • Optional Auto Power-off After 2 Hours**

Temp Range	-40-257° F (-40-125° C)
Accuracy	± 2.3° F (± 1.3° C)
Resolution	0.1
Sensor Type	Thermistor Pt100
Temperature Units	° F, ° C
Max. Tube OD	1-5/8" (42mm)
Battery Type	2 x AAA
Max. Bluetooth Range	Up to 450" (150m)
Display Type	TFT
Unit Weight	0.35 lbs
IP Rating	IP54



## NSTL LARGE BLUETOOTH TEMPERATURE CLAMP WITH DIGITAL DISPLAY

### Precision Temperature Measurement

The NSTL Large Bluetooth Temperature Clamp is designed to provide reliable and precise temperature measurements for residential, commercial, and refrigeration applications. With a 4-1/8" opening, it accommodates a wide range of pipe sizes and features Bluetooth connectivity for use with the Smartphone App or as a standalone digital thermometer. Its large, easy-to-read digital display ensures clarity, while the high-accuracy thermoelectric sensor delivers quick and accurate readings. Built for durability with an IP54 rating for dust and water resistance, the clamp includes up to 150 hours of battery life and optional auto power-off for convenience. Suitable for both high (HP) and low (LP) sides, the NSTL is a versatile and dependable tool for HVAC professionals.

**Large 3/4" to 4-1/8" Opening • Bluetooth Connectivity 150 Hours Battery Life • Real-time Display**

Measurement Range	-40° to 257° F (-40 to 125 °C)
Accuracy	±2.7° F (±1.5° C)
Resolution	0.1° F
Sensor Type	Thermocouple (Nickel Chromium)
Pipe Size Compatibility	¾" – 4 ½" OD
Refresh Rate	1 time/second
Stabilisation Time	Within 3 seconds: reach the temperature difference range within 41° F error, and then approximately 7-8 seconds to reach the target temperature difference range of 34° F
Bluetooth Range	164ft (50m)
Battery Type	2 x AAA
Battery Operating Time	Screen off: >150h; Screen on: >12h
Certification	CE, FCC, RoHS
Unit Weight	7.8oz (220g)
Accessory	Carry bag
Wireless Frequency	2.4 GHz
Water Resistance	IP54
Warranty	2 years



## NSH1 BLUETOOTH PSYCHROMETER WITH DIGITAL DISPLAY

### Precision Humidity Measurement

The NSH1 Bluetooth Psychrometer offers reliable and precise humidity measurement for HVAC applications. Compatible with the Smartphone App and A2L refrigerants, it provides the flexibility of wireless connectivity or standalone use with a large, easy-to-read digital display. The psychrometer simultaneously displays key psychrometric data points, including dry bulb, wet bulb, dew point, relative humidity, absolute humidity, and enthalpy, ensuring comprehensive insights for diagnostics. Its high-accuracy sensor delivers fast and reliable readings, while the intuitive one-button operation and easy-to-switch knob simplify use. Equipped with a rechargeable lithium battery lasting up to 150 hours and an optional auto power-off feature, the NSH1 combines accuracy, convenience, and durability for a dependable solution.

**Detailed Psychrometric Datapoints • High Accuracy Sensor  
Bluetooth Connectivity • 150 Hours Battery Life**

Measurement Range	Temperature: -40°F to 249.8°F Humidity: 0 to 100% RH
Measurement Units	°F (Fahrenheit), °C (Celsius), % RH (Relative Humidity), °Ftd (Fahrenheit, dry bulb temperature), °Ctd (Celsius, dry bulb temperature), Wet Bulb °F, Wet Bulb °C
Accuracy	Humidity: ±2.0%RH (10 to 90%RH) (at 77°F/25°C) ±5.0%RH (< 10%Rhor > 90%RH) (at 77°F/25°C) Temperature: ±1.1°F (-4°F to 32°F) / ±0.6°C (-20-0°C) ±0.9°F (32°F to 140°F) / ±0.5°C (0- 60°C) ±1.3°F (140°F to 248°F) / ±0.7°C (60°C- 120°C)
Sensor Type	Humidity: Capacitive Polymer Film Temperature: Precision Thermistor
Response Time	10 seconds
Bluetooth Range	164 ft (50m)
Power Supply	Rechargeable 1200mAh lithium battery.
Rechargeable Battery	164ft (50m)
Operating Time	Screen off: >200h; Screen on: >40h
Unit Weight	7.8oz 0.49lbs (220g)
Accessory	Carry bag
Wireless Frequency	2.4 GHz
Flexible Probe	Length: 7.9 in (200 mm), Diameter: 0.39 in (10mm)
Warranty	2 years



## NSP1 BLUETOOTH PRESSURE PROBE WITH DIGITAL DISPLAY

### Precision Pressure Measurement

The NSP1 Bluetooth Pressure Probe is a versatile tool for precise pressure measurements in HVAC applications. Compatible with the Smartphone App and A2L refrigerants, it offers the flexibility of wireless connectivity or standalone operation with its large, easy-to-read digital display. The probe features a high-accuracy piezoelectric sensor for quick and reliable readings and a simple one-button operation for ease of use. Smart functions such as VSAT/LSAT calculations on the Smartphone App, simultaneous pressure and temperature display, and pressure decay testing through the App enhance diagnostic capabilities. Built for convenience, the NSP1 includes a rechargeable lithium battery with up to 150 hours of life, an auto power-off option, and an easy-to-switch knob for use on high (HP) or low (LP) sides.

**Auto VSAT/LSAT calculations via the App • High Accuracy  
Bluetooth Connectivity • 150 Hours Battery Life**

Measurement Range	-29.0 inHg to 725 psi
Maximum Overload Pressure	1087psi (7500kPa)
Accuracy	±0.5% of full range
Resolution	0.01 psi
Sensor Type	Ceramic pressure sensor
Max. Bluetooth Range	164 ft (50 m) line of sight
Power Supply	Rechargeable 1200mAh Lithium Battery. For the best charging experience, please use the provided cable, or USB-A to USB-C cables.
Rechargeable Battery Operating Time	Screen off: >200h; Screen on: >40h
Unit Weight	7.6oz (215g)
Accessory	Carry bag
Wireless Frequency	2.4 GHz
Auto Power Off (APO)	2 hours (can be disabled)
Warranty	2 years



## F1028 F1029

### RAPID-Y CONNECTION FITTING

#### Rapid Recovery

With its large internal boring and flow-friendly design, NAVTEK'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 NAVTEK's large diameter hoses and core removal tools, the Rapid-Y is the final piece in "ditching the manifold" to gain dramatic recovery speed.

**One-piece Solid Brass • Vacuum Rated to 20 Microns  
Large Internal Boring for Max flow / Minimal Resistance**

F1028	2 x 3/8" M to 1 x 3/8" FE
F1029	2 x 3/8" M to 1 x 1/4" FE
Warranty	2 years



## FHH4

### 4 PORT HOSE HANGER

#### Simplify Hose Organisation

The FHH4 4 Port Hose Hanger is designed for professional technicians seeking streamlined hose management. This innovative organiser stands out as the only hanger capable of securely holding multiple hoses, accommodating various sizes with designated ports for 1/4", 1/4", 1/2", and 3/8" fittings. Crafted from premium metal, the FHH4 is both lightweight at 0.15 lbs and durable, enabling longevity in a sleek and modern design. Enhance your workspace with this versatile and efficient hose hanger, designed to simplify hose organisation for professionals who value precision and reliability.

**Lightweight • Premium Metal • Suitable for Multi-size Fittings**

FHH4	4 Port Hose Hanger, 1/4", 1/4", 1/2", 3/8"
Warranty	2 years

## NRHH53C

### REFRIGERANT HOSES

#### 1/4" Low-loss charging hoses, 5' long



#### High Strength

- Low-loss ball valve
- Suitable for R410A, R134A, R-22 and other refrigerants
- 1/4" SAE fittings with 45 degree 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

## NH5S-2 NH5S

### REFRIGERANT HOSES

#### 5/16" or 1/4" Low-loss charging hoses, 5' long



#### High Strength

- Suitable for R410A, R134a, 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	NRHH53C	NH5S-2	NH5S
Ball Valve	YES	NO	NO
Length	5'	5'	5'
Connector	1/4"-1/4"	1/4"-5/16"	1/4"-1/4"



## NVR1

### VALVE CORE REMOVAL TOOL

#### 1/4" & 5/16" flare fittings

#### Fast Recovery and Evacuation

For use with both 1/4" and 5/16" flare fittings and rated for R410A systems. Vacuum rated to 20 microns.



## F2008 F2009

### LIQUID CHARGING ADAPTER

F2008	1/4" SAE M x 1/4" SAE FE
F2009	5/16" SAE M x 5/16" SAE FE
Warranty	2 years

# TUBING TOOLS



**BREAKFREE**  
CORDLESS SERIES

## NEF6L2

### CORDLESS POWER FLARE

#### Quick accurate flaring & ultra light.

A welcome departure from creating flares manually, the NEF6LM Cordless Power Flare yields accurate, hassle-free flares in a fraction of the time compared to traditional flaring methods. Weighing less than 3 pounds, the new Power Flaring Tool equips with a high-performance rechargeable lithium battery which makes over 100 flares per charge. NAVTEK's second-generation automatic flaring solution is significantly reduced in weight and price without sacrificing accuracy or consistency. Designed to perform reliably in harsh environments, the NEF6LM Cordless Power Flare also allows one-button, one-hand operation. In addition, it features a battery power indicator and a flashlight. It comes in a sturdy blow-molded case with five commonly-sized flare dies, one battery, a charger, and a premium flare gauge.

Tubing Type	Copper
Tubing O.D.	1/4", 3/8", 1/2", 5/8", 3/4"
Power	7.4V 2Ah 14.8Wh
Battery type	Li-ion, 1pc
Accessory Included	NFG1
Tool Weight	2.9 lbs
Warranty	2 years



**BREAKFREE**  
CORDLESS SERIES

## NTE11L

### POWER TUBE EXPANDER

#### Effortless, Quick & Accurate Expanding

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 NAVTEK NEF6LM BreakFree® Power Flaring Tool. Expander heads from the NTE11H Hydraulic Expander can be shared with NTE11L with a NAQA1 adapter.

- One-button operation and automatic pressure relief
- Complete an expansion in 12 seconds
- Quick connect heads sizing 3/8", 1/2", 5/8", 3/4", 7/8", 1" and 1-1/8"
- Large capacity lithium battery, up to 200 expansions per charge
- Quick charge in 30 minutes
- Battery power indicator
- LED flashlight

Tubing Type	Soft or Annealed Copper
Tubing O.D.	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8"
Power	7.4V 2Ah 14.8Wh
Battery Type	Li-ion, 1 pc
Tool Weight	3.4 lbs (with battery)
Warranty	2 years

#### KIT CONTAINS:

- 1 – Expander Body
- 1 – Quick Connect Expander Heads, 7 pcs
- 1 – NBF2 Lithium Battery, 1 pc
- 1 – NCF2 Battery Charger
- 1 – Carry Case
- 1 – Tube deburrer NTD28



## NTF66

### FLARING TOOL

#### Precise flaring every time.

NAVTEK NTF66 Flaring Tool, with axial spacing and patented rivet connection, delivers consistent, accurate flaring each and every time. Nitride treatment makes it more robust and durable.

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

2 year warranty



## NTE11H

### HYDRAULIC TUBE EXPANDER

#### Easy to expand.

The NAVTEK NTE11H Hydraulic Expander is easy to use, suitable for large diameter copper and compact in size making it convenient for narrow spaces. The easy one-hand operation reduces labor and improves efficiency.

TUBING OD: 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 3/8", 1 1/2"

2 year warranty



**BREAKFREE**  
CORDLESS SERIES

## NTB7L

### POWER TUBE BENDER KIT - MAX OD 7/8

#### Hvac/R's First-Choice Power Tube Bender

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, NAVTEK 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. The reverse bending kit NTBRK is available and sold separately.

- Battery-Driven Effortless Bending: Powerful for large-size tubing.
- Push and hold for 90° bending, and stop at any time for customized angles.
- Automatic tube release.
- Patented Tubing Size Selector: 7 sizes in one selector, easy to switch to different tubing size settings.
- Easy Operation: Ergonomic handle design.
- Large Lithium Battery: Over 100 bends per charge. Quick charge in 30 minutes. Battery power indicator shows you remaining battery life.
- Quick connect mandrels and crossbar.

Tubing Type	Soft (HVACR) Copper
Tubing O.D.	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"
Power	7.4V 2Ah 14.8Wh
Battery Type	Li-ion, 1 pc
Accessory Included	NBF2 Battery, NCF2 Charger, Carry Case
Tool Weight	6.2 lbs (with battery)
Package Weight	12.9 lbs
Warranty	2 years



## NTBRK

### REVERSE BENDING KIT For NTB7L and NTB7

This reverse bending kit allows you to make reverse bends with your NTB7L and NTB7 Tube Bender.



## NBF3

### 7.4V, 2Ah Li-ion Battery For NEF6L2, NTE11L, NTB7L

Replaces NBF2. This upgraded version features the addition of a USB-C charging input



#### Precise Cuts Every Time.

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



## NTC6

3/4" Max OD  
2 year warranty



## NTC12

1-1/4" Max OD  
2 year warranty



## NTC15

1-5/8" Max OD  
2 year warranty



## NTD28

**Tube Deburrer**  
Includes spare blade



## NTR14

**Reamer**  
Internal / External

# ORDERING INFORMATION

**2** YEAR WARRANTY

All products are backed by a 2-year warranty

Product	Description		
<b>VACUUM PUMPS &amp; EVACUATION</b>			
NP2DLM	Vacuum Pump, 2 CFM, Cordless, BreakFree Series		
NP4DLM	Vacuum Pump, 4 CFM, Cordless, BreakFree Series		
NP4DP	Vacuum Pump, 4 CFM, AC Motor, Pro Series		
NP7DP2	Vacuum Pump, 7 CFM, DualVoltage, AC Motor, Pro Series		
NP12DM	Vacuum Pump 230V - 12 CFM, AC Motor, Pro Series		
NP12DA1	Ammonia Vacuum Pump 230V - 12 CFM, AC Motor, Pro Series		
VO1G	Premium Vacuum Pump Oil - 1 Gallon		
VO1Q	Premium Vacuum Pump Oil - 1 Litre		
NB1	Battery 18V 5Ah only for NP2DLM		
NBP2	Battery 18V 9Ah for NP4DLM, NP2DLM		
NVR1	Valve Core Removal Tool - 1/4" & 5/16" Flare Fittings		
NMV1S	Premium Micron Vacuum Gauge		
NHB1	1/2" Evacuation Hose 1/4 x 3/8		
NHB2	1/2" Evacuation Hose 1/4 x 1/2		
NH34AB	3/4" Evacuation Hose 1/4 x 3/8		
NH34AC	3/4" Evacuation Hose 1/4 x 1/2		
<b>TUBING TOOLS</b>			
NEF6L2	Cordless Power Flaring Tool 3/4" Max OD, BreakFree Series		
NTE11L	Power Tube Expander, BreakFree Series		
NTB7L	Power Tube Bender Kit - Max OD 7/8, BreakFree Series		
NTBRK	Reverse Bending Kit For NTB7L		
NBF3	Battery 7.4V 2Ah For Cordless Flaring Tool		
NTF66	Flaring Tool, 3/4" Max OD, 6 Sizes		
NTE11H	Hydraulic Tube Expander Kit, 1-5/8" Max OD		
NTD28	Tube Deburrer		
NTR14	Internal/External Reamer		
NTC6	Tube Cutter, 3/4" Max OD		
NTC12	Tube Cutter, 1-1/4" Max OD		
NTC15	Tube Cutter, 1-5/8" Max OD		
<b>MANIFOLD SETS &amp; HOSES</b>			
N2B9H	Manifold Gauge, 2 Valve	NST1	Bluetooth Temp Clamp Low Side
N4A9H	Manifold Gauge, 4 Valve	NST2	Bluetooth Temp Clamp High Side
N2DX	FLEX-X Manifold Gauge	NSTL	Large Bluetooth Temp Clamp
NX1	Digital Manifold Gauge	NRHH53C	Refrigerant Hoses - 1/4", w/ Valve
NX4	Digital Manifold Gauge	NH5S	Refrigerant Hoses - 1/4"-1/4"
NSV1	Smart Refrigerant Valve	NH5S-2	Refrigerant Hoses - 1/4"-5/16"
<b>RECOVERY</b>			
NRDDF	Recovery Unit, Dual-Cylinder, DC, Digital Display, MasterSeries		
<b>TESTING TOOLS &amp; INSTRUMENTS</b>			
NRS2A	Smart Refrigerant Scale	NSP1	Bluetooth Pressure Probe
NRS3101	Electronic Wireless Scale	F2008	Liquid Charging Adapter (1/4")
NML1	Electronic Leak Detector	F2009	Liquid Charging Adapter (5/16")
NSH1	Bluetooth Psychrometer		
<b>SPARES</b>			
342260173	68mm High Pressure Gauge	NHG14	1/4" Hose Gasket (Pkt 10)
342260174	68mm Low Pressure Gauge	NHG516	5/16" Hose Gasket (Pkt 10)
342260459	80mm High Pressure Gauge	NC2	CHARGER 18V NP4-2DLM
342260460	80mm Low Pressure Gauge	NCF2	CHARGER 7.4V NBF2 BATTERY
NAQC*	Clamp to suit NEF6L2	PC6W	Cutting Wheel for NTC6
ML01018	Sensor to suit NML1	PC12W	Cutting Wheel for NTC12
FHH4	4 Port Hose Hanger	PC15W	Cutting Wheel for NTC15
F1028	Rapid-Y Connection 2x 3/8"M to 3/8"FE	F1029	Rapid-Y Connection 2x 3/8"M to 1/4"FE"

\* nominate 1/4"; 5/16"; 3/8"; 1/2"; 5/8"; 3/4"

More spares available

# NAVTEK

Empowering you to work smarter



A CSW Industrials Company

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