



NAVTEK Equipment

High Performance, Precise Measurement,
Leading Technology



VACUUM PUMPS



- 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

ITEM CODE: **13060**



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



- 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

ITEM CODE: **13061**



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



NB1 CORDLESS BATTERY

ITEM CODE: **13062**

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



NBP2 CORDLESS BATTERY

ITEM CODE: **13063**

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



NP4DP VACUUM PUMP

ITEM CODE: **13064**

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	1 year



NP7DP VACUUM PUMP

ITEM CODE: **13065**

Performance. Reliability.

NP7DP is a dual-voltage vacuum pump with expanded applications. Its twin-cylinder 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	1 year



NP12DM VACUUM PUMP NP12DM 230V

ITEM CODE: **13084**

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 year



NP12DA1 AMMONIA VACUUM PUMP

ITEM CODE: **13086**

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	1 year

VACUUM PUMPS

RECOVERY



NRDDF

ITEM CODE: **13066**

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!

A2L | A2 | A3
REFRIGERANTS
COMPATIBLE

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

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	3 years*

*2-year over the counter warranty, extend to 3 years with registration within 30 days of purchase



NHB1

ITEM CODE: **13088**

"Big Boy" Evacuation Hoses

1/4 x 3/8



NHB2

ITEM CODE: **13089**

"Big Boy" Evacuation Hoses

1/4 x 1/2



VO1G/VO1Q

ITEM CODE: **13082/13083**

Premium Vacuum Pump Oil

13083 = 1ltr
13082 = 1 Gallon

PIPE FLARING



NEF6LM

ITEM CODE: **13077**

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



NBF2

ITEM CODE: **13054**

7.4V, 2Ah Li-ion Battery For NEF6LM



NAQC1 1/4

ITEM CODE: **13085**

NAQC1 1/4 clamp

Quick accurate flaring & ultra light

Replacement clamp to suit NEF6LM.



NAQC1 5/16

ITEM CODE: **13087**

NAQC1 5/16 clamp

Quick accurate flaring & ultra light

Replacement clamp to suit NEF6LM.



NTF66

ITEM CODE: **13075**

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"

1 year warranty



NTE11H

ITEM CODE: **13076**

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 1/2"

2 year warranty

GAUGES



N2B9H

ITEM CODE: 13067

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	1 Year



N4A9H

ITEM CODE: 13078

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	1 Year



NMV1

ITEM CODE: 13068

MICRON VACUUM GAUGE

Precise Measurement.

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

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

Maximum overload pressure	72 psi
Range	0-10000 Pa, 0-100 mBar, 0-75 mmHg, 0-75000 microns
Resolution	0.01 (10Pa), 0.0001 (10mBar), 0.0001 (10mmHg), 1 (30000microns)
Accuracy	15-750 micron: ±5% of reading(at 68°F)
Operating temperature	32-122°F (0-50°C)
Unit	Pa, mBar, mmHg, Microns
Sensor	Pirani sensor
Buzzer alarm	90 db, shut down after 10 seconds
Weight	4.5 oz
Warranty	1 year



NRHH53C

ITEM CODE: 13080

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

GAUGES



NVR1

ITEM CODE: 13079

Valve Core
Removal Tool
1/4" & 5/16"
flare fittings



342260173

ITEM CODE: 13050

68mm High
Pressure Gauge



342260174

ITEM CODE: 13051

68mm Low
Pressure Gauge



342260459

ITEM CODE: 13052

80mm High
Pressure Gauge



342260460

ITEM CODE: 13053

80mm Low
Pressure Gauge

TUBE CUTTERS

Precise Cuts Every Time.

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



NTC6

ITEM CODE: 13072

3/4" Max OD
1 year warranty



NTC12

ITEM CODE: 13073

1-1/4" Max OD
1 year warranty



NTC15

ITEM CODE: 13074

1-1/4" Max OD
1 year warranty

TUBE TOOLS



NTD28

ITEM CODE: 13071

Tube Deburrer
Includes spare blade



NTR14

ITEM CODE: 13081

Reamer
Internal / External

SCALES/LEAK DETECTION

ELECTRONIC



NRS3101 ITEM CODE: 13069

WIRELESS REFRIGERANT SCALE

Precise Charging.

The NATEK 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	1 Year



NML1 ITEM CODE: 13070

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	1 year



13091 ITEM CODE: 13091

SENSOR To suit NML1

BREAKFREE®



NTE11L ITEM CODE: 13090

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 NAVAC 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



NTB7L ITEM CODE: 13092

POWER TUBE BENDER KIT - MAX OD7/8

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, 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. 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

ORDERING INFORMATION

Code	Product	Description	Qty
VACUUM PUMPS			
13060	NP2DLM	Vacuum Pump, 2 CFM, Cordless, BreakFree Series	1
13061	NP4DLM	Vacuum Pump, 4 CFM, Cordless, BreakFree Series	1
13064	NP4DP	Vacuum Pump, 4 CFM, AC Motor, Pro Series	1
13065	NP7DP	Vacuum Pump, 7 CFM, DualVoltage, AC Motor, Pro Series	1
13068	NMV1	Micron Vacuum Gauge	1
13062	NB1	Battery 18V 5Ah only for NP2DLM	1
13063	NBP2	Battery 18V 9Ah for NP4DLM, NP2DLM	1
13082	VO1G	Premium Vacuum Pump Oil - 1 Gallon	1
13083	VO1Q	Premium Vacuum Pump Oil - 1 Litre	1
13084	NP12DM	VACUUM PUMP 230V	1
13086	NP12DA1	Ammonia Vacuum Pump	1
13088	NHB1	Evacuation Hose 1/4 x 3/8	1
13089	NHB2	Evacuation Hose 1/4 x 1/2	1
FLARING TOOLS			
13054	NBF2	Battery 7.4V 2Ah For Cordless Flaring Tool	1
13075	NTF66	Flaring Tool, 3/4" Max OD, 6 Sizes	1
13076	NTE11H	Hydraulic Tube Expander Kit, 1-5/8" Max OD	1
13077	NEF6LM	Cordless Power Flaring Tool 3/4" Max OD	1
13085	NAQC1	1/4 clamp to suit NEF6LM	1
13087	NAQC1	5/16 clamp to suit NEF6LM	1
TUBE CUTTERS & TOOLS			
13071	NTD28	Tube Deburrer	1
13072	NTC6	Tube Cutter, 3/4" Max OD	1
13073	NTC12	Tube Cutter, 1-1/4" Max OD	1
13074	NTC15	Tube Cutter, 1-5/8" Max OD	1
13079	NVR1	Valve Core Removal Tool - 1/4" & 5/16" Flare Fittings	1
13081	NTR14	Internal/External Reamer	1
GAUGES			
13050	342260173	68mm High Pressure Gauge	1
13051	342260174	68mm Low Pressure Gauge	1
13052	342260459	80mm High Pressure Gauge	1
13053	342260460	80mm Low Pressure Gauge	1
13067	N2B9H	Manifold Gauge, 2 Valve, R404a/R134a/R32/R410a, 5' Hoses	1
13078	N4A9H	Manifold Gauge, 4 Valve, R404a/R134a/R32/R410a, 5' Hoses	1
13080	NRHH53C	Refrigerant Hoses - 1/4" Low-Loss Charging Hoses, 5' Long	1
RECOVERY			
13066	NRDDF	Recovery Unit, Dual-Cylinder, DC, Digital Display, MasterSeries	1
ELECTRONIC			
13069	NRS2i01	Electronic Wireless Scale	1
13070	NML1	Electronic Leak Detector	1
13091		Sensor to suit NML1	1
BREAKFREE®			
13090	NTE11L	Power Tube Expander	1
13092	NTB7L	Power Tube Bender Kit - Max OD 7/8	1

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