

## NAVAC Inc.

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Empowering you to work smarter

**BREAKFREE**  
CORDLESS SERIES



Delivering unsurpassed customer value at every opportunity defines the mission of NAVAC. We empower HVAC technicians to get jobs done with more accuracy, ease and efficiency by offering highly differentiated products with leading technology and superior quality. NAVAC products include the industry first brushless DC driven vacuum pump introduced in 2017, the world's first smart refrigerant charging machine and digital DC-driven recovery unit. In 2020, building up on the success of North America's first cordless vacuum pump, NAVAC introduces our flagship BreakFree series of cordless HVAC Tools consisting of a brand new cordless vacuum pump with industry's highest cordless capacity at 4cfm, the award-winning 2cfm cordless pump and the cordless power flaring tool. Also launching in 2020 is the world's first 4-Cylinder recovery unit, taking the refrigerant recovery to an entire new level of performance!

**NAVAC Empowering You to Work Smarter.**





# NP2DLM

## Cordless Vacuum Pump



# 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 Technology

- Light weight at 8.4 lbs
- Highly efficient

## Other Features

- Backflow prevention check valve
- Isolation valve

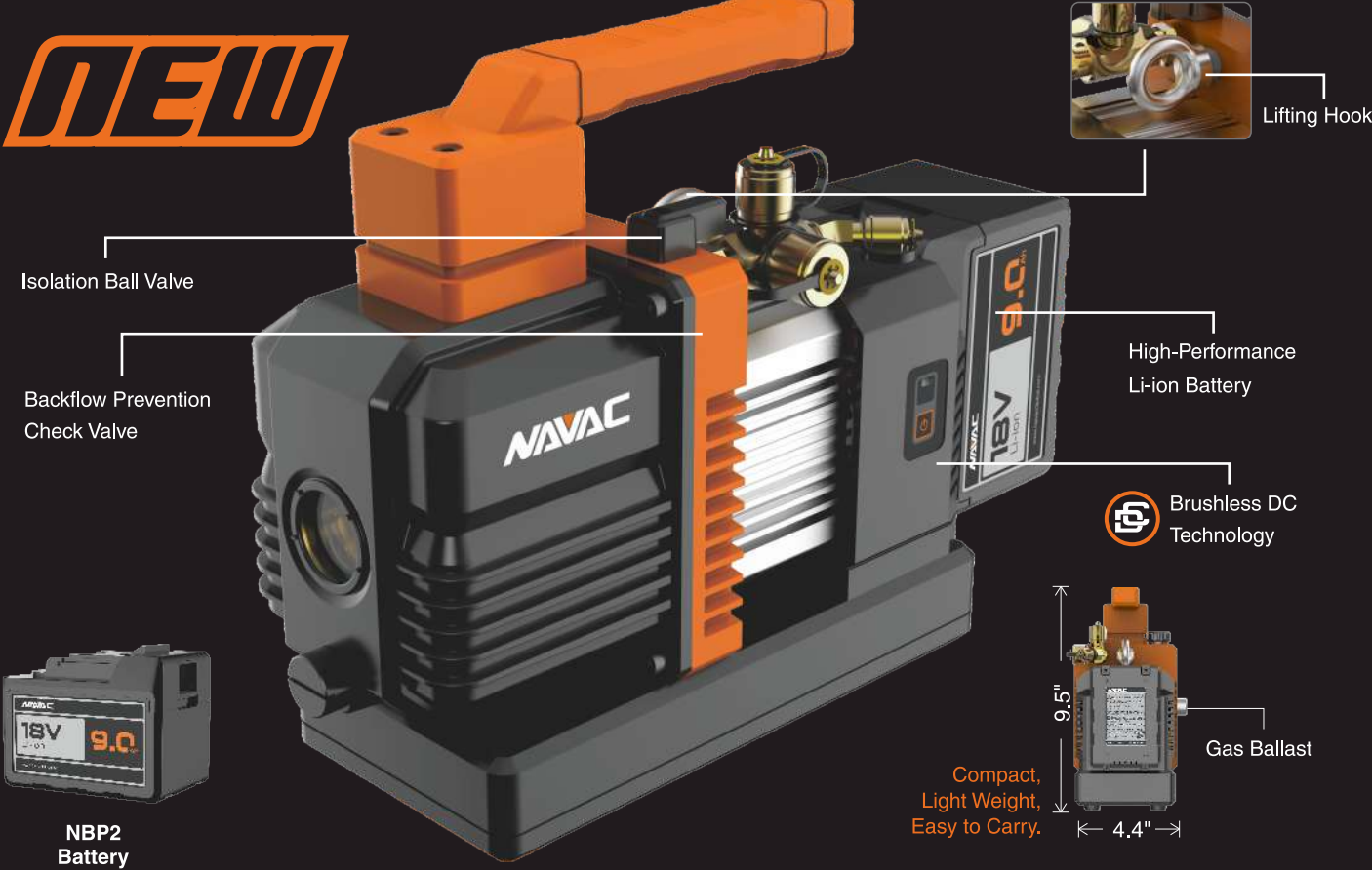
## Compact Design

- Easy to carry
- Easy to store

Model		NP2DLM
Li-ion Battery		NB1, 18V, 5Ah
Flow Rate	CFM	2
Run Load Amps	A	7.5
Ultimate Vacuum	micron	23
Pump Design		Dual stage
Inlet Port	in	1/4", 3/8" flare
Oil Capacity	oz	5.1
Dimension	in	9.2" x 3.5" x 7.5"
Weight	lbs	8.4 (with battery)

# NP4DLM

## Cordless Vacuum Pump



# World's Highest Capacity Cordless Vacuum Pump

## Cordless · Compact · Convenient

## Highest Capacity Cordless Pump

- 4CFM
- Residential and light commercial applications

## Compact Design

- Easy to carry
- Easy to store

## High Performance Lithium Battery

- High capacity
- Up to 1 hour running time

## Twin Cylinder

- High ultimate vacuum down to 15 microns

## Brushless DC Technology

- Light weight at 15.4 lbs
- Highly efficient

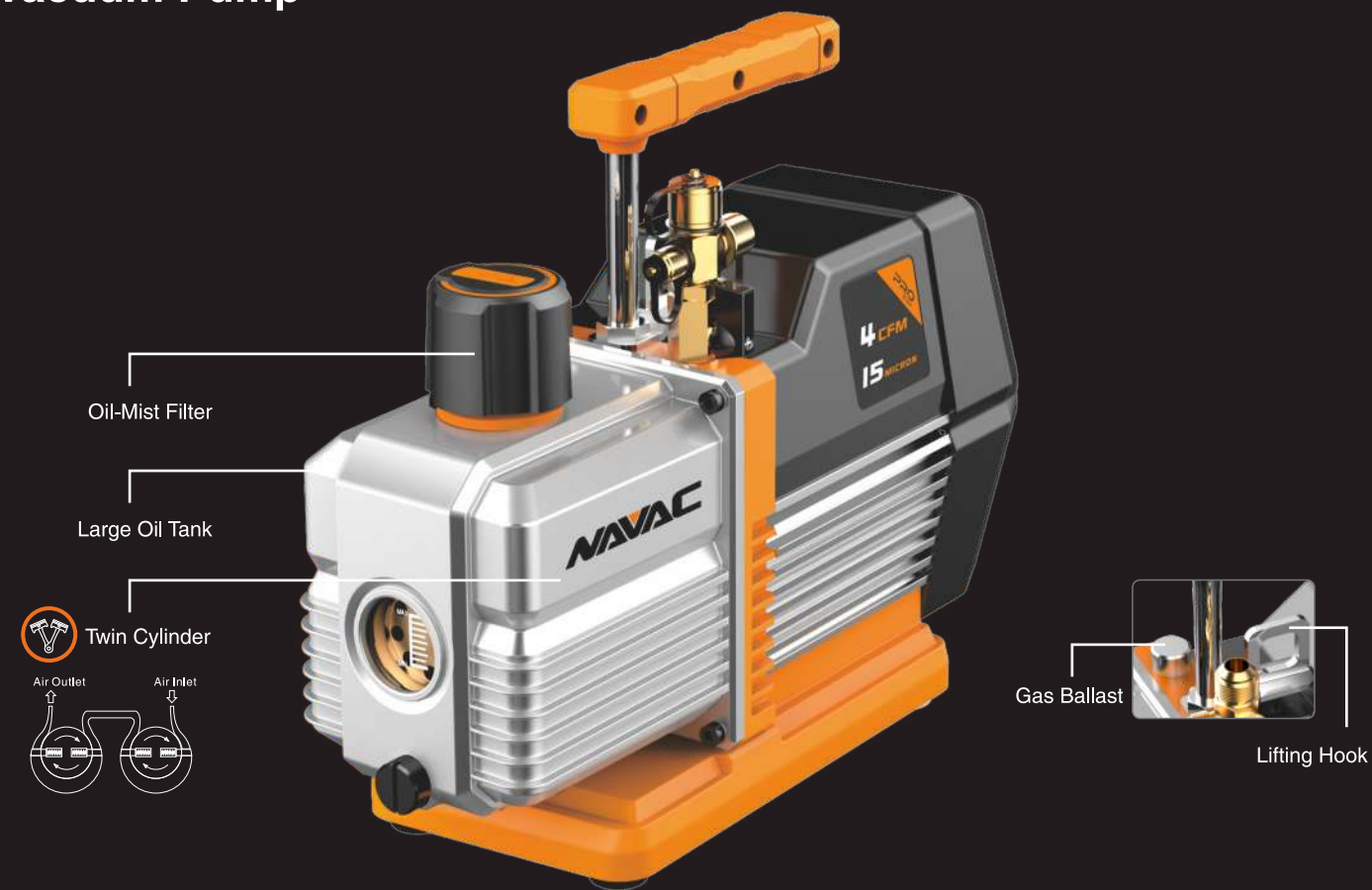
## Other Features

- Backflow prevention check valve
- Isolation valve & Lifting hook

Model		NP4DLM
Li-ion Battery		NBP2,18V, 9Ah
Flow Rate	CFM	4
Run Load Amps	A	10
Ultimate Vacuum	micron	15
Pump Design		Dual stage
Inlet Port	in	1/4", 3/8", 1/2" flare
Oil Capacity	oz	8.8
Dimension	in	12.4" x 4.4" x 9.4"
Weight	lbs	15.4 (with battery)

# NP4DP

## Vacuum Pump



## Performance • Reliability

- Twin Cylinder**

  - High ultimate vacuum
- Lifting Hook**

  - Safe & convenient for roof top use
- Integrated Cylinder Structure**

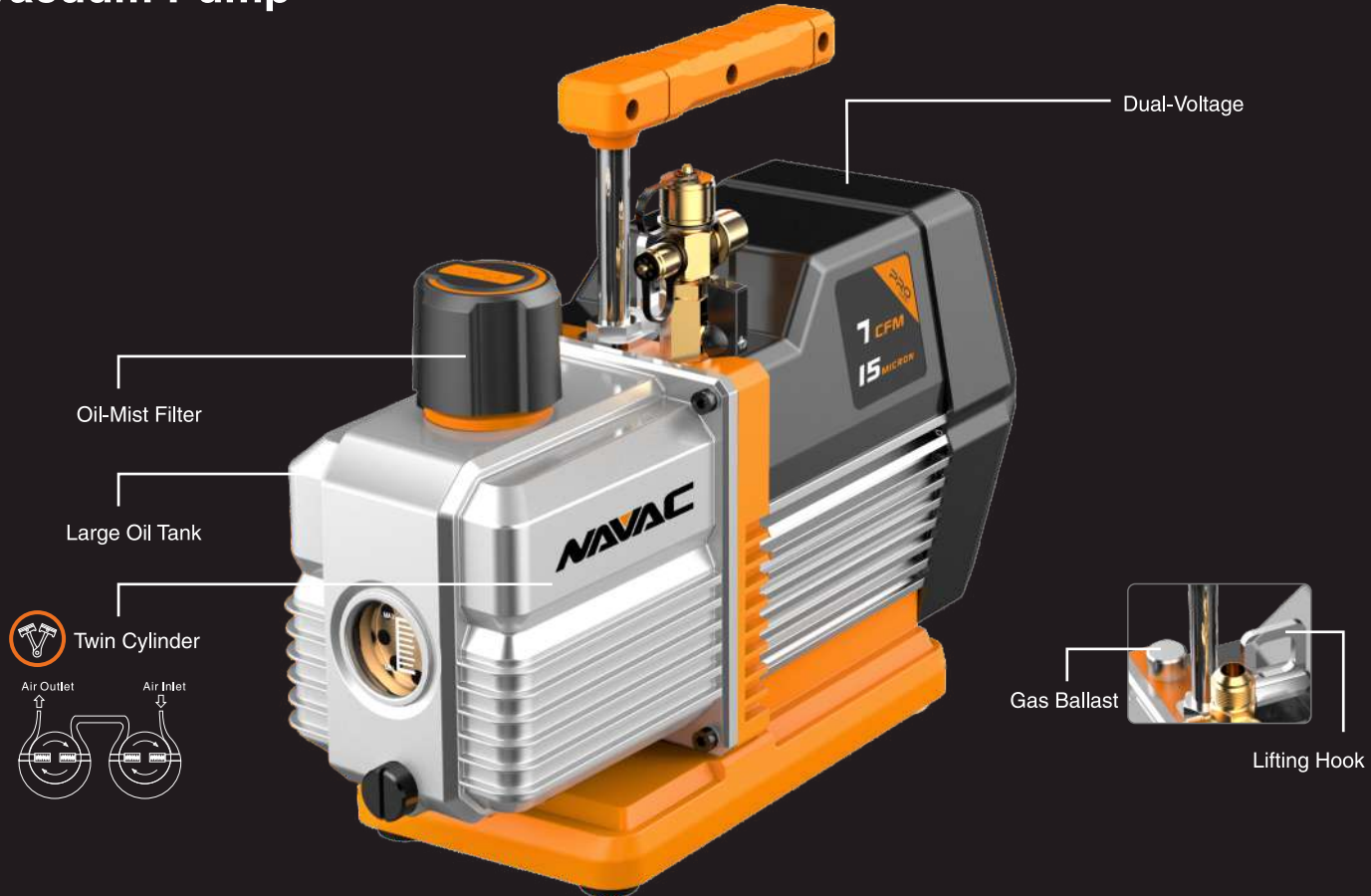
  - High performance
  - High reliability
- Forced Oil Circulation**

  - Improved efficiency and durability

Model		NP4DP
Power Supply	V / Hz	115V / 60Hz
Flow Rate	CFM	4
Run Load Amps	A	4.3
Ultimate Vacuum	micron	15
Pump Design		Dual stage
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

# NP7DP

## Vacuum Pump



## Performance • Reliability

- Dual-Voltage**

  - Expanded application
- Twin Cylinder**

  - High ultimate vacuum
- Lifting Hook**

  - Safe & convenient for roof top use
- Integrated Cylinder Structure**

  - High performance
  - High reliability
- Forced Oil Circulation**

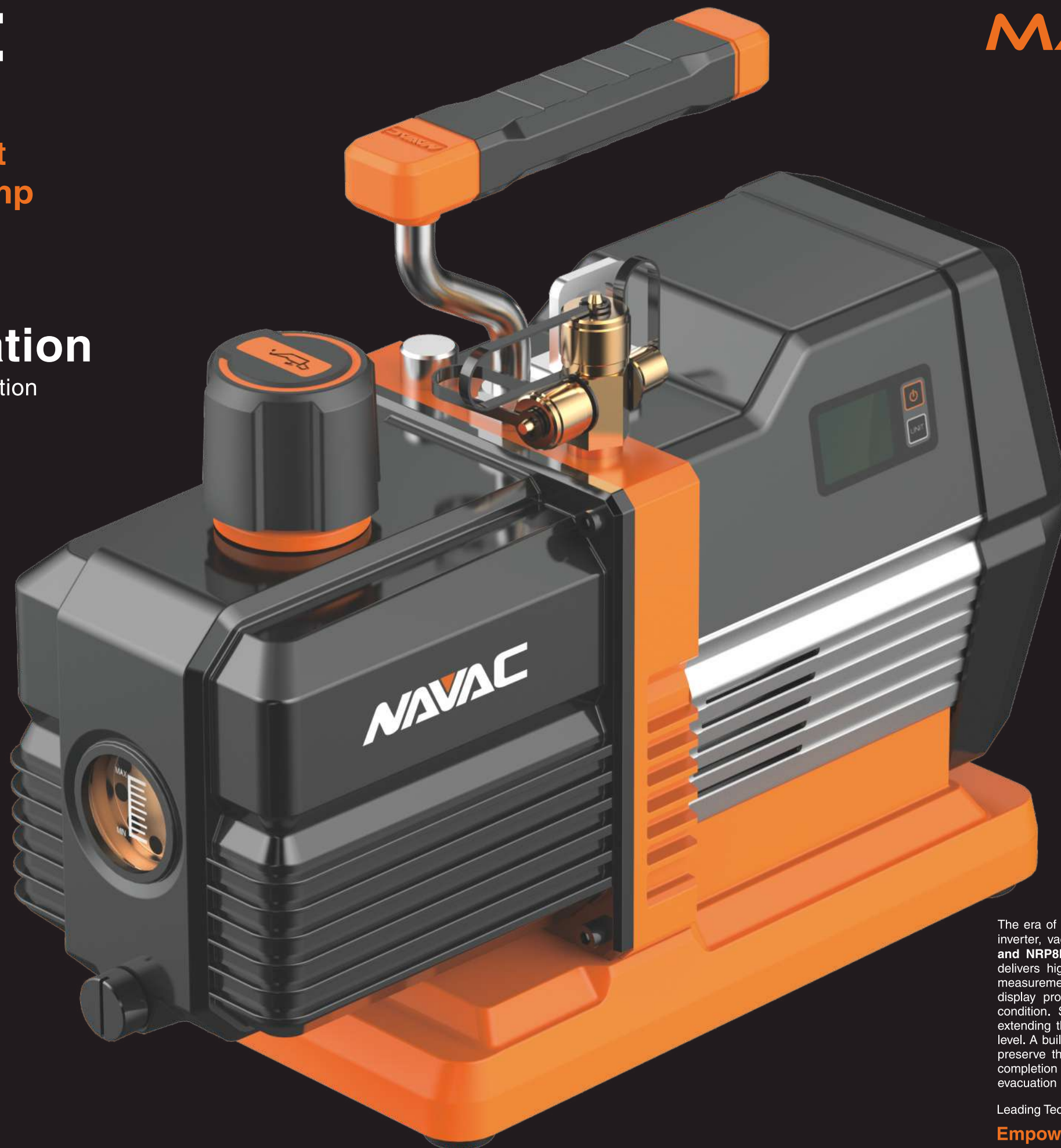
  - Improved efficiency and durability

Model		NP7DP
Power Supply	V / Hz	115V / 60Hz 230V / 60Hz
Flow Rate	CFM	7
Run Load Amps	A	4A (115V), 1.8A (230V)
Ultimate Vacuum	micron	15
Pump Design		Dual stage
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



**The Industry's First  
Smart Vacuum Pump**

**NRP6Di  
NRP8Di**  
**Smart Evacuation**  
One-Touch, Automatic Operation



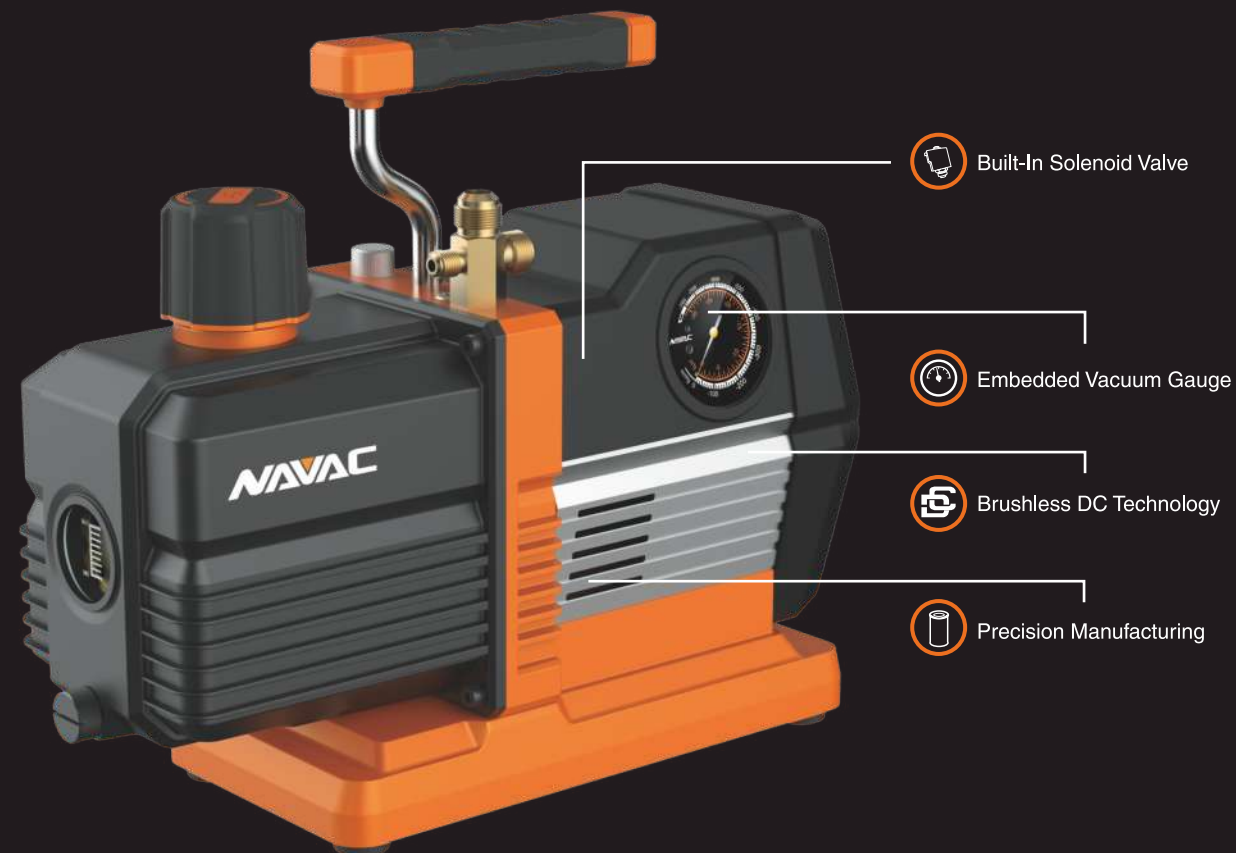
The era of smart refrigerant evacuation begins here with the combination of inverter, vacuum measurement and smart control in one unit, the **NRP6Di** and **NRP8Di**. The light-weight, inverter-driven, twin-cylinder vacuum pump delivers high-speed evacuation along with high ultimate vacuum. Vacuum measurement technology precisely measures the system pressure. A digital display provides a comprehensive view of the system's internal vacuum condition. Smart control assures the system's vacuum by automatically extending the evacuation time after the system reaches the preset vacuum level. A built-in solenoid valve prevents oil back flow and seals the system to preserve the vacuum during power outage or accidental disconnect. Upon completion of operation, the unit will beep to remind the technician that evacuation is complete, so they can move on to the next job.

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# NRP6DV NRP8DV

## Vacuum Pump



## Accurate • Efficient

### Built-in Solenoid Valve

- Preserve vacuum during power failure
- Prevent oil backflow

### Embedded Vacuum Gauge

- Precision
- Anti-shock

### Brushless DC Technology

- Light
- More efficient

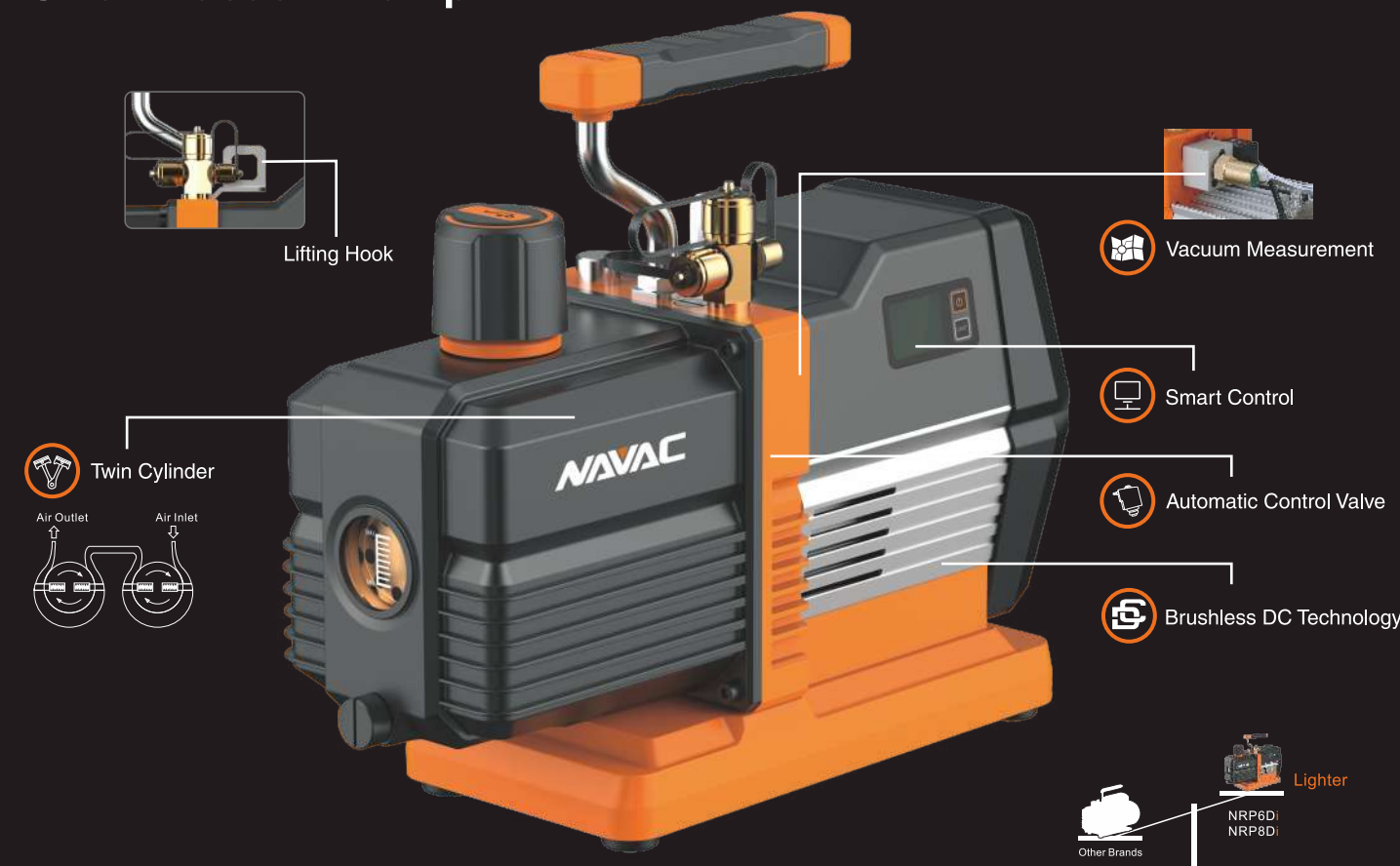
### Precision Manufacturing

- More reliable

Model		NRP6DV	NRP8DV
Power Supply	V / Hz	115V / 60Hz	115V / 60Hz
Flow Rate	CFM	6	8
Run Load Amps	A	5.5	6
Ultimate Vacuum	micron	15	15
Pump Design		Dual stage	Dual stage
Motor Power	HP	3/4	3/4
Inlet Port	in	1/4", 3/8", 1/2" Flare	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	17.6	17.6
Dimension	in	14×5.3×11.9	14×5.3×11.9
Weight	lbs	25.35	25.35

# NRP6Di NRP8Di

## Smart Vacuum Pump



## Smart Control

### Brushless DC Technology

- Light
- More efficient

### Smart Control

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

### Vacuum Measurement

- Precise micron measurement
- Vacuum display

### Twin Cylinder

- High ultimate vacuum

### Automatic Control Valve

- Prevent oil backflow
- Preserve vacuum

Model		NRP6D	NRP8D
Power Supply	V / Hz	115V / 60Hz	115V / 60Hz
Flow Rate	CFM	6	8
Run Load Amps	A	5.5	6
Ultimate Vacuum	micron	15	15
Pump Design		Dual stage	Dual stage
Motor Power	HP	3/4	3/4
Inlet Port	in	1/4", 3/8", 1/2" Flare	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	17.6	17.6
Dimension	in	14×5.3×11.9	14×5.3×11.9
Weight	lbs	25.35	25.35



NP12DM

Vacuum Pump

Suitable for evacuation of large commercial refrigeration, central AC systems. With industrial grade technology, NP12DM solves the problems of long-time evacuation and inadequate vacuum level in working with large HVAC systems. The dual stage rotary vane pump and DC inverter motor lead to faster evacuation and a deeper vacuum. Integrated pump cylinder and built-in oil backflow prevention assure the superior performance and reliability. The combination of enhanced technology and aesthetic design make NP12DM a top class product.

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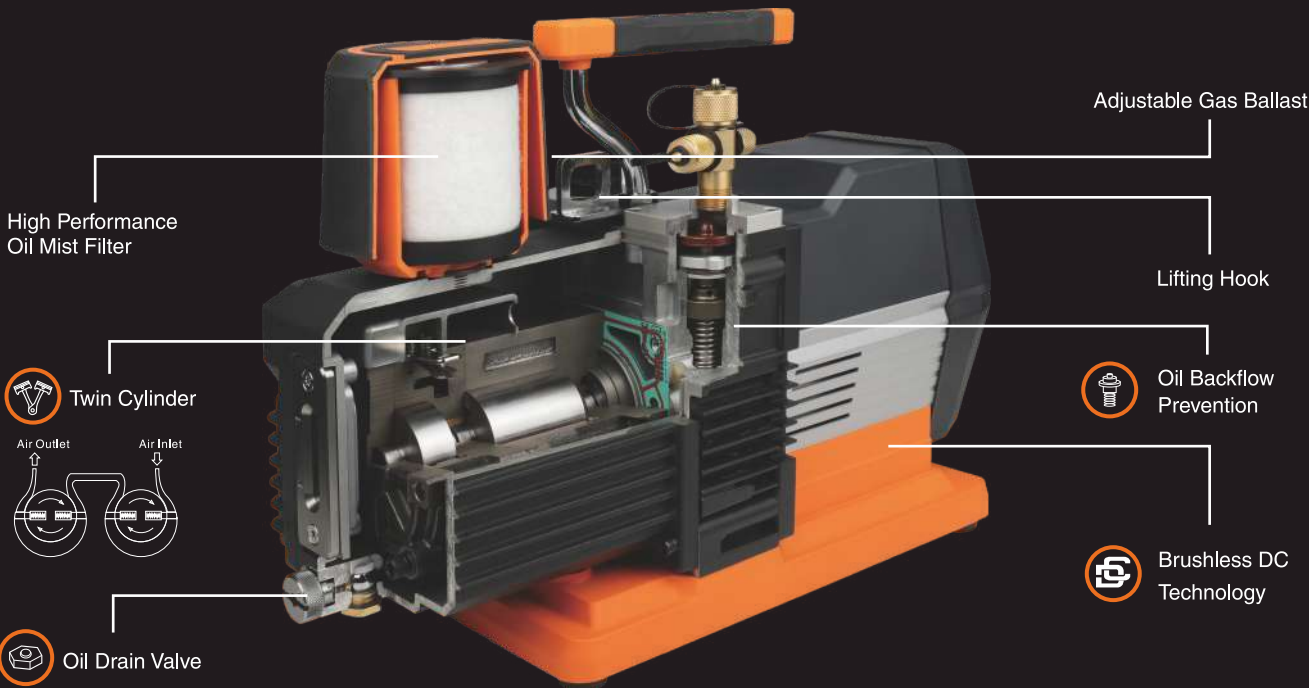


NP12DM

Vacuum Pump

5micron

12CFM



Speed, Robustness and Power

- Industrial Grade Design

  - High quality, super high vacuum
  - High evacuation performance
- Brushless DC Technology

  - Light
  - More efficient
- Integrated Dual Stage Pump

  - High vacuum level down to 5 microns
- Oil Backflow Prevention

  - No system oil contamination during power failure
- Oil Drain Valve

  - Ball valve design, easier to drain
- Sight Glass

  - Easy to see
  - Eliminate oil shortage

Model		NP12DM
Power Supply	V / Hz	115V / 60Hz
Flow Rate	CFM	12
Run Load Amps	A	7.9
Ultimate Vacuum	micron	5
Pump Design		Dual stage
Motor Power	HP	1/2
Inlet Port	in	1/4", 3/8", 1/2" Flare
Oil Capacity	oz	28
Dimension	in	16.3×6×12.1
Weight	lbs	32

VO1Q  
VO1G  
Vacuum Pump Oil



Premium Oil

Widely Applicable

- Suitable for most vacuum pumps available in the market

High Quality

- Clean and free of contaminants

Model	VO1Q	VO1G
Capacity	1 Liquid Quart	1 Liquid Gallon

NRD16T  
Vacuum Pump



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

Adjustable Gas Ballast Valve

Oil Backflow Prevention

Integrated Cylinder Structure

Forced Oil Circulation

Model		NRD16T
Flow Rate	CFM	12
Ultimate Vacuum	micron	3
Ultimate Vacuum Gas Ballast	micron	6
Water Vapor Capacity	lbs/h	0.7
Motor Power	hp	1
Oil Capacity	Quart	1.6
Inlet and Exhaust Flange		Inlet KF16 Exhaust KF25
Noise Level	dB	58
Net Weight	lbs	98 (with cart)
Dimensions	in	20.5×7.4×10.7



## The Industry's First Smart Refrigerant Charging Machine

### NRC62D Smart Charging

Automatic operation for easy, reliable  
evacuation and refrigerant charging



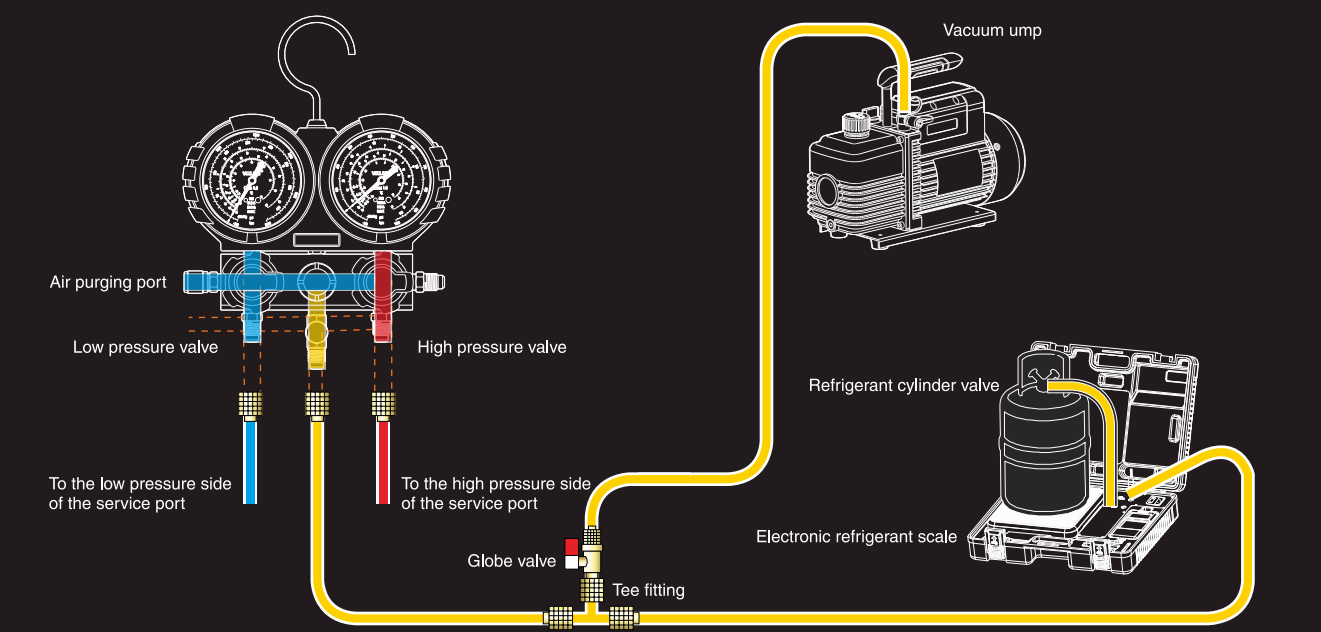
The industry's first smart charging machine, with never before seen features and advanced technology, NAVAC brings smart charging products to the HVAC industry. Conventional refrigerant charging operations use vacuum pump, manifold gauges, electronic charging scale, refrigerant tubing and other connection devices. It is dependent on the technician's experience level and judgement to evacuate and charge refrigeration systems. The conventional method is inconvenient, labor intensive, and it is difficult to ensure accuracy of the refrigerant charge.

The high-power twin-cylinder vacuum pump, with ultra-high vacuum capability, rapidly evacuates the system to the preset vacuum level. The smart control precisely measures the system's vacuum and digitally displays the vacuum level. After reaching the preset vacuum level, it automatically conducts the dry operation and leak detection. When the unit confirms the system is under proper conditions, the smart control automatically starts the charging function with precise control of the predetermined refrigerant charge, and turns off the system once charging is complete. The NAVAC smart charging machine enables you to automatically, accurately, and efficiently complete HVAC system charging.

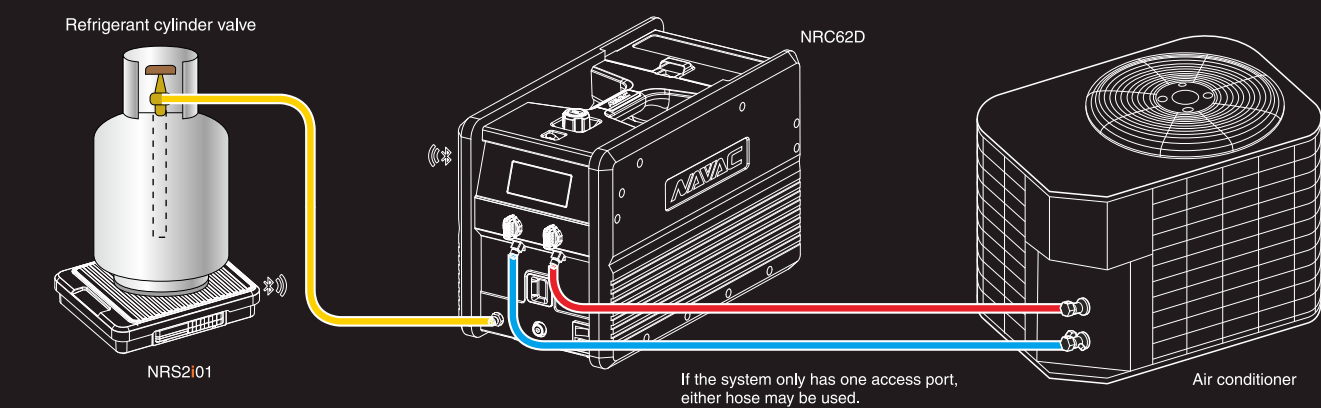
Leading Technology, Superior Quality, Best Experience.

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### 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.

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## NRC62D Smart Refrigerant Charging Machine



## Smart Charging

### High Performance DC Vacuum Pump

- More efficient
- High ultimate vacuum

### Wireless Temperature Probes

- Accurate temperature measurement

### Wireless Refrigerant Scale

- Precision charging
- Accuracy 0.05%

### Smart Control

- Automatic operation
- Built-in leak detection
- Real time status display and warning
- Weigh-in or SH/SC charging options

Model		NRC62D
Power Supply	V / Hz	115V / 60Hz
Evacuation Rate	CFM	6
FLA / RLA	A	6.1 / 4
Charge Rate	lbs / min	4
Motor Power	HP	1/3
Dimension	in	19.7 × 10 × 14.5
Weight	lbs	39.6
Accessory Included		NRS2 01 (Scale), NRHH53 (Hoses), NMT1 (High Temp Probe), NMT2 (Low Temp Probe)



NRDD

Recovery Unit



Light • Fast

One Key Operation

- Easy to use

Purge Function

- Prevent mixing of various refrigerants

Twin Cylinder

- Fast recovery

High Pressure Protection

- Added safety

Oil-Free Compressor

- Suitable for all commonly used refrigerants

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

NRDD

Recovery Unit



Light • Fast • Compact

Brushless DC Motor

- Light
- More efficient

Oil-Free Compressor

- Suitable for all commonly used refrigerants

Large Backlit Display

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

Purge Function

- Prevent mixing of various refrigerants

Twin Cylinder with 2-Row Oversized Condenser

- Fast recovery

Model		NRDD			
Refrigerant Type		Category III: R-12, R-134a, R-401C, R-500 Category IV: R-22, R-401A, R-401B, R-402B, R-407C, R-407D, R-408A, R-409A, R-411A, R-411B, R-412A, R-502, R-509 Category V: R-402A, R-404A, R-407A, R-407B, R-410A, R-507			
Power Supply	V / Hz	115V/60Hz			
Motor	HP	1			
Max Current Draw	A	10			
Compressor		Oil-less, Air-cooled, Piston style			
Automatic Safety Shut-Off		558 psi/38.5 bar			
Recovery Rate	lbs/min		R-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	11.00	15.1
Full Load Amps	A	11			
Dimension	in	16"x 10"x 14"			
Weight	lbs	25.4			

NRDC4M  
Recovery Unit



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

- 4-Cylinder for Powerful Recovery**

  - Up to 40% faster than 2-cylinder unit
  - Oversized inlet port for faster recovery
- Super-Efficient Condenser**

  - Over-sized micro-channel coil
  - 3 cooling fans
- Brushless DC Motor**

  - More efficient
- Large Digital Display**

  - Easy-to-read large LCD display
  - Backlit for clarity
- Dual Oil-Free Compressors**

  - Suitable for all commonly used refrigerants
- Acceleration Knob Design**

  - To achieve faster vapor recovery

Model		NRDC4M			
Refrigerant Type		Category III: R-12, R-134a, R-401C, R-500 Category IV: R-22, R-401A, R-401B, R-402B, R-407C, R-407D, R-408A, R-409A, R-502, R-509 Category V: R-402A, R-404A, R-407A, R-407B, R-410A, R-507			
Power Supply	V / Hz	115V/60Hz			
Motor	HP	1.5			
Max Current Draw	A	12			
Compressor		Oil-less, Air-cooled, Piston style			
Automatic Safety Shut-Off		558 psi/38.5 bar			
Recovery Rate	lbs / min		R-22	R-134a	R-410A
		Direct Vapor	0.93	0.34	1.02
		Direct Liquid	7.16	4.95	9.20
		Push/Pull Liquid	13.29	10.20	18.41
Inlet/Outlet Port	in	Inlet 3/8", Outlet 1/4"			
Dimension	in	17" x 10.7" x 12.2"			
Weight	lbs	41.9			

NVR1  
Valve Core Removal Tool



Fast Recovery and Evacuation

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

Rated For R410A Systems

Vacuum Rated to 20 Microns



# NMV1

## Micron Vacuum Gauge

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 increases from the preset vacuum level, it will buzz rapidly and flash the backlight to warn of leaks.

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## Precise Measurement

### Pirani Vacuum Sensor

- Professional grade
- More precise

### Large Backlit Display

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

### Buzzing Alert

- Vacuum level reminder
- Vacuum leakage warning

### Ergonomic Design

- Easy to carry

Model	NMV1
Maximum overload pressure	14 psi
Range	0~10000 Pa, 0~100 mBar, 0~75 mmHg, 0~75000 microns
Resolution	0.01 (10 Pa), 0.0001 (10 mBar), 0.0001 (10 mmHg), 1 (30000 microns)
Accuracy	15-750 micron: ±5% of reading (at 68°F)
Operating temperature	32~122°F (0~50°C)
Unit	Pa, mBar, mmHg, microns
Sensor	Pirani sensor
Buzzer alarm	90 dB, shut down after 10 seconds
Weight	4.5 oz

# NML1

## Leak Detector

Featuring a semiconductor sensor and a high-performance rechargeable lithium battery, it is precise, durable and easy to carry.

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## Precise Measurement

### Semiconductor Sensor

- Precise measurement
- Extended service life

### Lithium Battery

- Rechargeable

### Ergonomic Design

- Easy to carry

### Sniffing Fan

- 2 CFM ball bearing fan for very small leaks

Model	NML1
Refrigerants	CFC, HCFC, HFC refrigerants
Minimum of leakage	≤0.1 oz / year (R-134a)
Response time	≤3 s (depending on the size and location of leak)
Battery life	≥8 hours
System pressure	≥50 psi
Sensor life	≥1 year under normal usage (1500 h)
Length of probe	15.7 in
Weight	0.77 lbs
Calibration	Auto
Fan	2.2 CFM

NRS2i01

Wireless Refrigerant Scale



The NAVAC **NRS2i01** 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, to alert the operator to stop the charging once the setting is reached.

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

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NRS2i01

Wireless Refrigerant Scale



Precise Charging

- Wireless Bluetooth Control

  - More convenient
  - Auto power off
- Precision Sensor

  - Precision measurement
  - Accuracy 0.05%
- Magnesium Alloy Weighing Pan

  - 3.3 lbs only, easy to carry
- Large Backlit Display

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

Model		NRS2.01
Range	lbs	220
Resolution	oz	0.2
Accuracy	%	0.05%
Power		4 x AA (scale), 4 x AAA (controller)
Dimension	in	8.25 x 10.2
Weight	lbs	3.3





**NRM2D0101**  
Digital Manifold Gauge



**NRM1D0101**  
Digital Manifold Gauge

Incorporating the latest ergonomic research and advanced design, it's easy to handle and delivers high precision up to Class 0.4 accuracy. The integrated, impact-resistant body design provides outstanding protection. Ball valve makes it easy to operate, and folding hook easy to carry.

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## Precision and Impact-Resistant

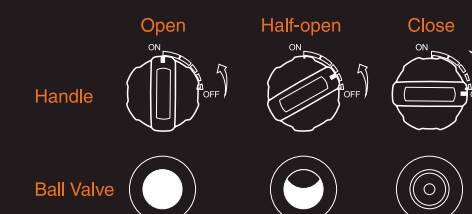
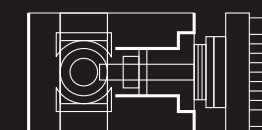
- 01 - 9 Refrigerants for Digital Manifold Gauge
- 02 - R-22, R-134a, R-410A for Mechanical Gauge
- 03 - R-22, R-404A, R-410A for Mechanical Gauge



**N4A3H**  
Manifold Gauge, 4 Valve



**NRM2B0201**  
Manifold Gauge, 2 Valve



**NRM2D0101**  
**NRM2D0102**  
Digital Manifold Gauge



**Precision • Impact-Resistant**

- Accurate**

  - Precision pressure gauge with Class 0.4 accuracy
- Folding Hook**

  - Hidden hook design, easy to transport
- Aluminum Body with Ball Valve Handle**

  - Reliable, efficient and durable
  - Better work experience
- Digital Display**

  - Easy to read
  - Auto power off
- Impact-Resistant**

  - Impact-resistant design
  - Durable rubber cover

Model		NRM2D0101	NRM2D0102
Refrigerant Type		R-22, R-134a, R-1234yf, R-290, R-404A, R-407C, R-410A, R-32, R-507	
Pressure Range	psi	-30 inHg to 720 psi	
Hose	in	Red 1/4" - 1/4" Yellow 1/4" - 1/4" Blue 1/4" - 1/4"	No Hose
Standard Length	ft	3x5'	No Hose

**NRM1D0101**  
Digital Manifold Gauge



**Precision • Impact-Resistant**

- Accurate**

  - Precision pressure gauge with Class 0.4 accuracy
- Folding Hook**

  - Hidden hook design, easy to transport
- Aluminum Body with Ball Valve Handle**

  - Reliable, efficient and durable
  - Better work experience
- Digital Display**

  - Easy to read
  - Auto power off
- Impact-Resistant**

  - Impact-resistant design
  - Durable rubber cover

Model		NRM1D0101
Refrigerant Type		R-22, R-134a, R-1234yf, R-290, R-404A, R-407C, R-410A, R-32, R-507
Pressure Range	psi	-30 inHg to 720 psi
Hose	in	Red 1/4" - 1/4" Yellow 1/4" - 1/4"
Standard Length	ft	2x5'



NRM2B0201  
NRM2B0202  
NRM2B0301  
NRM2B0302  
Manifold Gauge



Precision • Impact-Resistant

- Accurate

  - Precision pressure gauge with Class 1.0 accuracy

Aluminum Body with Ball Valve Handle

  - Reliable, efficient and durable
  - Better work experience

Impact-Resistant

  - Impact-resistant design
  - Durable rubber cover
- Folding Hook

  - Hidden hook design, easy to transport

Model	NRM2B0201		NRM2B0202	NRM2B0301		NRM2B0302
Refrigerant Type			R-22, R-134a, R-410A			R-22, R-404A, R-410A
			Φ 2-5/8			
Pressure Range	psi			-30 inHg to 800 psi -30 inHg to 500 psi		
		Red 1/4"-1/4"		Red 1/4"-1/4"		
		Yellow 1/4"-1/4"	No Hose	Yellow 1/4"-1/4"	No Hose	
		Blue 1/4"-1/4"		Blue 1/4"-1/4"		
Standard Length	ft	3x5'	No Hose	3x5'	No Hose	

NRM1B0201  
NRM1B0301  
Manifold Gauge



Precision • Impact-Resistant

- Accurate

  - Precision pressure gauge with Class 1.0 accuracy

Aluminum Body with Ball Valve Handle

  - Reliable, efficient and durable
  - Better work experience

Impact-Resistant

  - Impact-resistant design
  - Durable rubber cover
- Folding Hook

  - Hidden hook design, easy to transport

Model	NRM1B0201		NRM1B0301
Refrigerant Type			R-22, R-134a, R-410A
Gauge Diameter	in	Φ 2-5/8	
Pressure Range	psi	-30 inHg to 800 psi	
Hose	in	Red 1/4"-1/4" Yellow 1/4"-1/4"	
Standard Length	ft	2x5'	

# N4A3H

## Manifold Gauge



## Precision • Impact-Resistant

- Accurate**

  - Precision pressure gauge with Class 1.0 accuracy

**Folding Hook**

  - Hidden hook design, easy to transport
- Aluminum Body with Ball Valve Handle**

  - Reliable, efficient and durable
  - Better work experience

**4 Valve**

  - Easy to use
- Impact-Resistant**

  - Impact-resistant design
  - Durable rubber cover

Model		N4A3H
Refrigerant Type		R-22, R-404A, R-410A
Gauge Diameter	in	Φ 3-1/8
Pressure Range	psi	-30 inHg to 800 psi -30 inHg to 500 psi
Hose	in	Black 3/8"-3/8" Red 1/4"-1/4" Yellow 1/4"-1/4" Blue 1/4"-1/4"
Hose Length	ft	4x5'

# NH5SC

## Refrigerant Hose



## 1/4” Low-Loss Charging Hoses, 5 Ft Long

- High Strength**

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

**Improved Design**

  - Metal valve handle
  - Universal, replaceable gasket

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



NHB1  
NHB2  
NHB3

Big Boy High-Flow Evacuation Hoses



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

Evacuation Hose

- Fast & Efficient
- 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

Model		NHB1	NHB2	NHB3
Length		6 feet	6 feet	6 inch
Diameter	in	1/2"	1/2"	1/2"
Fitting		3/8" to 1/4"	1/2" to 1/4"	1/2" to 1/2"

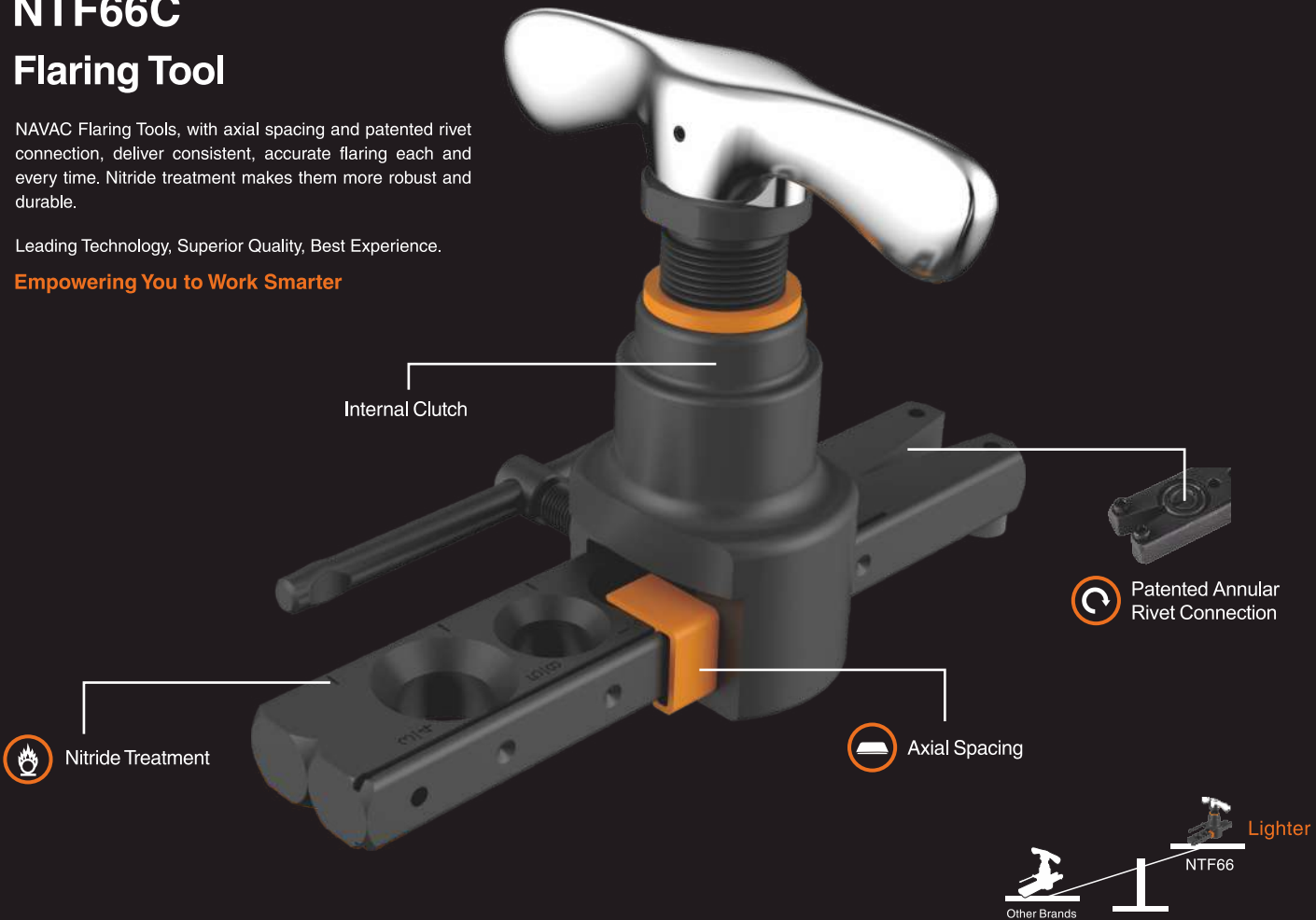
NTF66  
NTF66C

Flaring Tool

NAVAC Flaring Tools, with axial spacing and patented rivet connection, deliver consistent, accurate flaring each and every time. Nitride treatment makes them more robust and durable.

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter



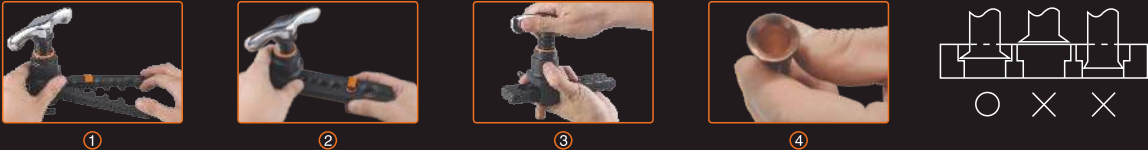
Accurate Flaring

- Axial Spacing

- Ensuring accurate and consistent flaring
- Nitride Treatment

- Longer service life
  - Robust and durable
- Patented Annular Rivet Connection

- Preventing over-torquing



Model	NTF66	NTF66C
Tubing OD	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Accessory	/	NTC11 (Cutter)

NEF6Li

Cordless Power Flaring Tool

Equipped with high-performance, large capacity lithium battery, adjustable speed control and quick-connect, it makes flaring easy and enjoyable, while guaranteeing accurate and consistent flaring.

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter



Quick Accurate Flaring

Easy to Use

- High performance, large capacity lithium battery
- Variable speed
- Rechargeable
- No power supply needed

Speed and Accuracy

- Designed for harsh environments
- Quick and accurate
- High quality flares

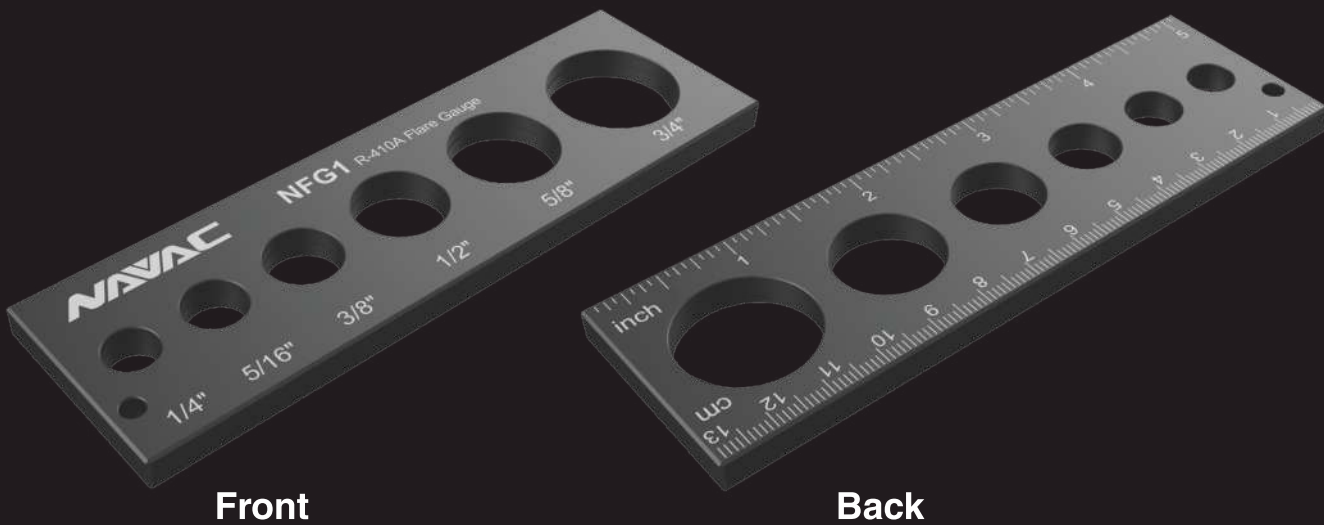
Convenient for Narrow Space



Model	NEF6Li
Battery type	Li-Ion, 10.8V, 2.6Ah, 2 pcs
Tubing Type	Copper
Tubing OD	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Power	DC motor
Accessory	NTC11 (Cutter), NTD28 (Deburring Tool)
Weight	11.8 lbs

NFG1

Flare Gauge



Precise Measurement

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

For Precise Measurement of Tube Flares



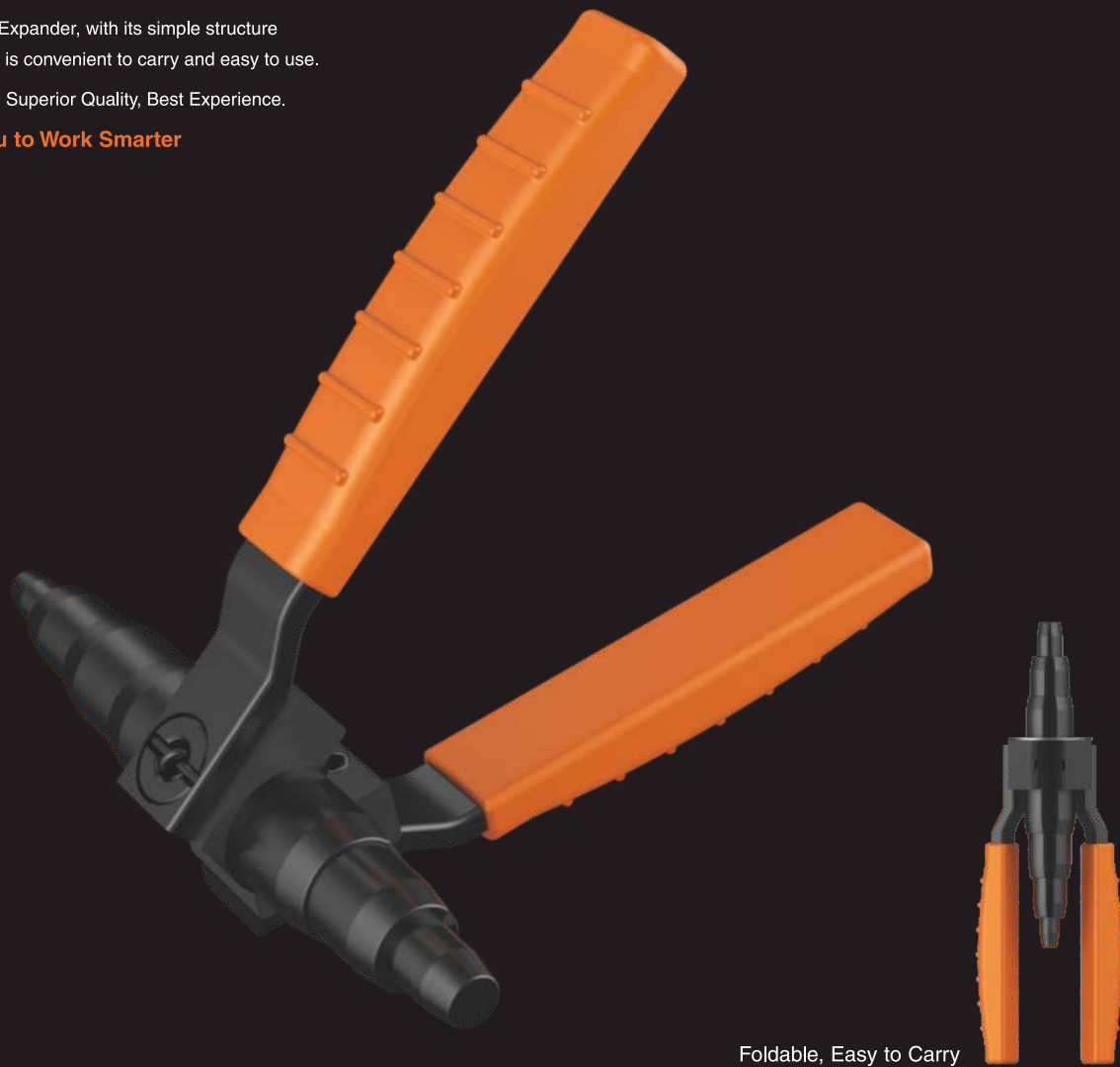
NTE7

Tube Expander

NAVAC NTE7 Tube Expander, with its simple structure and foldable design, is convenient to carry and easy to use.

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter



Foldable, Easy to Carry

Easy to Expand

- Easy to Carry

  - Foldable design for portability
- Easy to Use

  - Simple structure for expanding copper tubing



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

NTE11H

Hydraulic Tube Expander



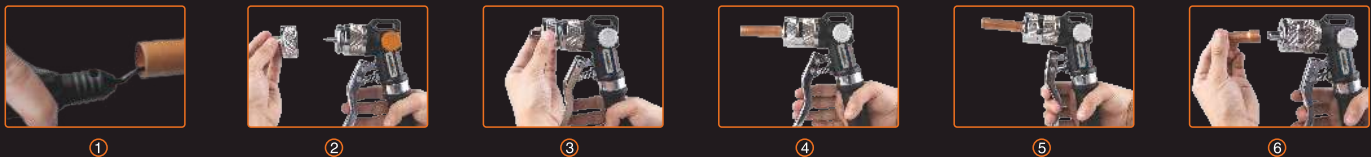
Easy To Expand

- Hydraulic Expander

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

  - Convenient for narrow spaces
  - Easy to use
- Easy One-Hand Operation

  - Reduced labor and improved efficiency



Model	NTE11H
Tube OD	3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8"
Accessory	NTC13 (Cutter), NTD28 (Deburring Tool)

**NTC6  
NTC11  
NTC13  
NTC15**

**Tube Cutter**

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

Leading Technology, Superior Quality, Best Experience.

Empowering You to Work Smarter



**Easy to Cut**

**High-Quality Cutting Blade**

- Sharp and durable

**Ball Bearing**

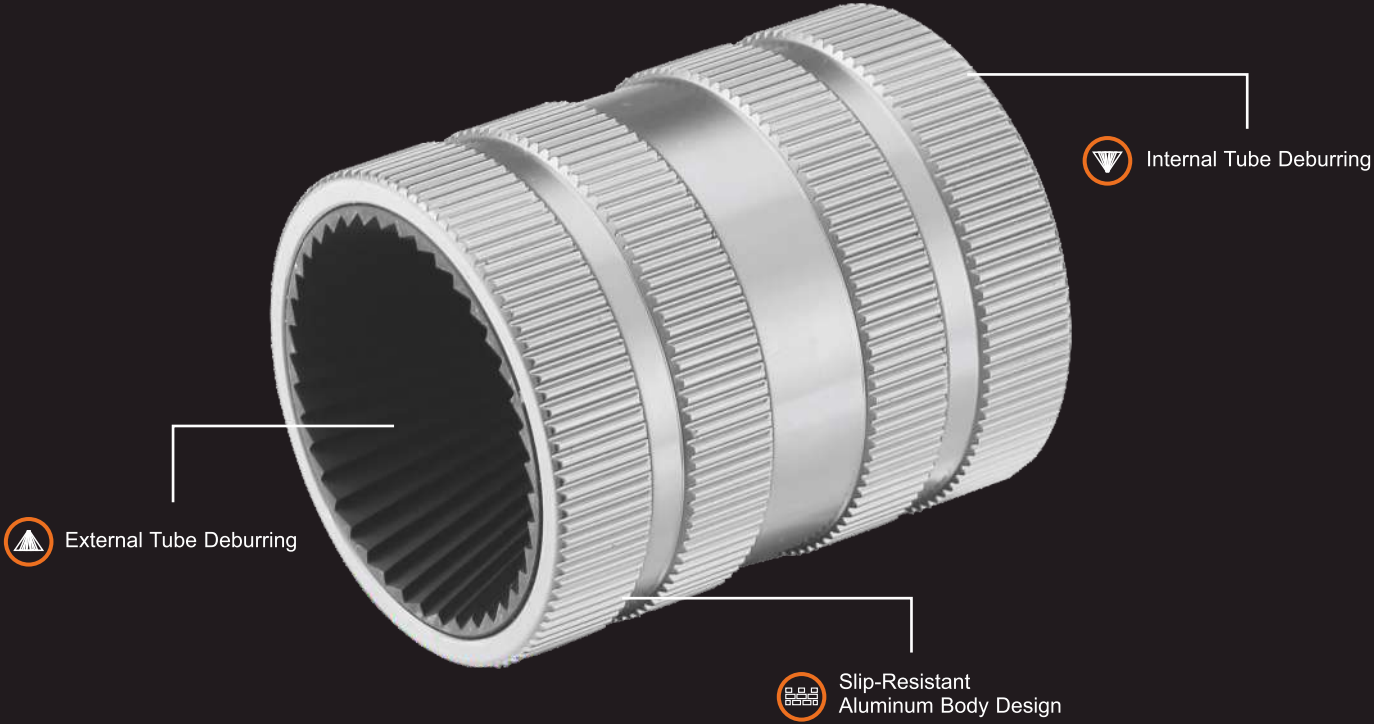
- Easy cutting and better quality
- Short cut for flare ends, saving copper

**Aluminum Alloy**

- Light weight, easy to carry and use

Model	NTC6	NTC11	NTC13	NTC15
Tube OD	1/8" ~ 3/4"	1/8" ~ 1-1/8"	1/8" ~ 1-3/8"	1/4" ~ 1-5/8"

**NTR14**  
**Internal & External Reamer**



**Easy to Deburr**

**Multi-Blade Alloy Steel Internal Surface**

- Easy to deburr

**Slip-Resistant Aluminum Body Design**

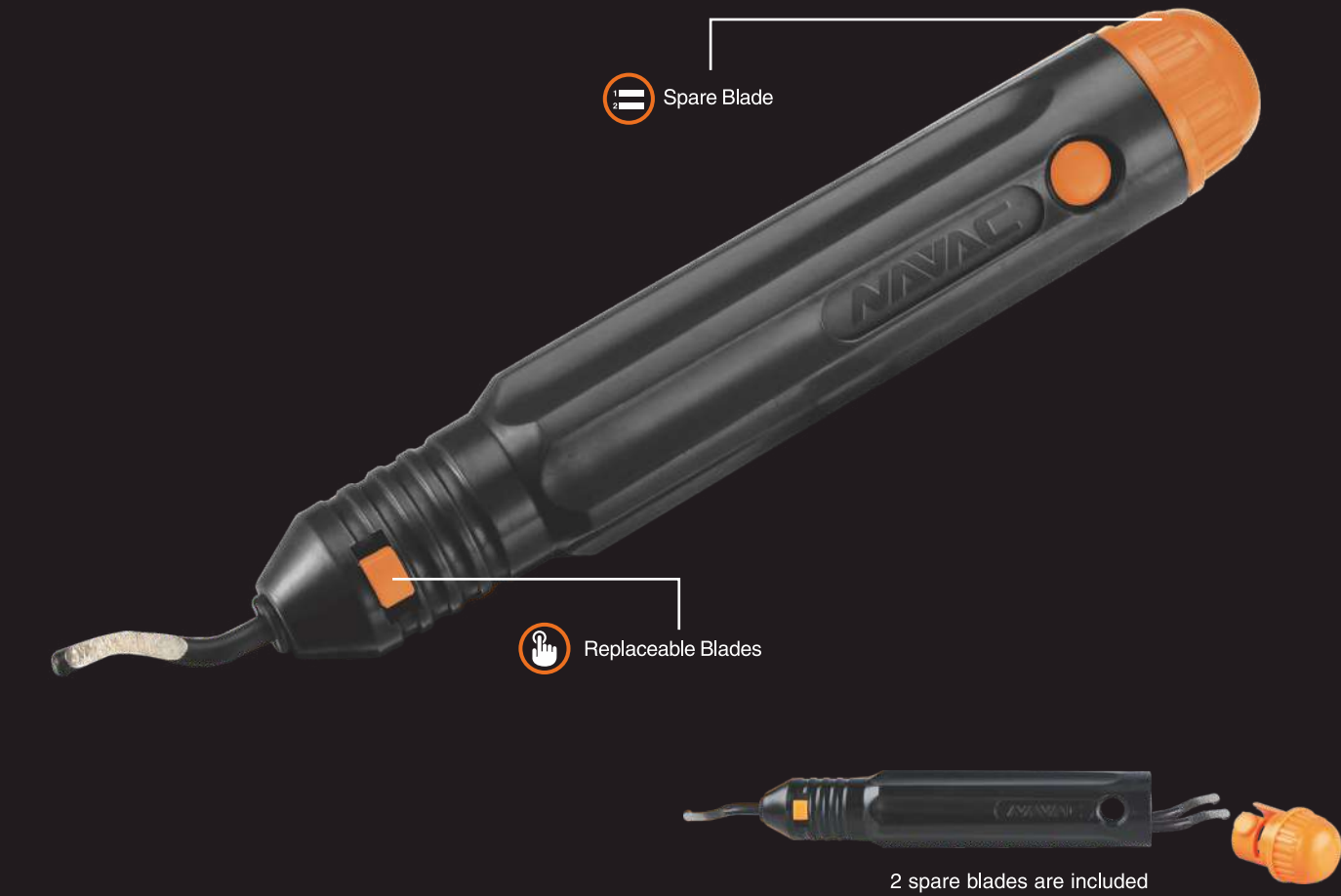
- Light weight

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



NTD28

Tube Deburring Tool



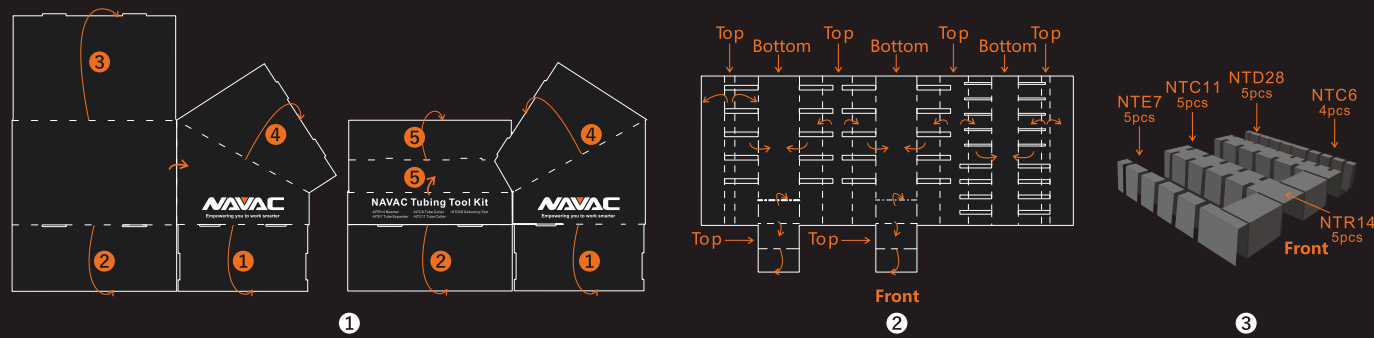
Easy to Deburr

- Replaceable Blades
- 2 spare blades included

- Compact Design
- Easy to carry

NTK1

Tubing Tool Kit



Your Favorite NAVAC Tubing Tools

Counter Displayable		Convenient Showcase	Easy to Refill
Item	Description	Quantity	
NTE7	Tube Expander, 7/8" Max OD	5	
NTR14	Internal/External Reamer, 1-1/2" Max OD	5	
NTC11	Tube Cutter, 1-1/8" Max OD	5	
NTC6	Tube Cutter, 3/4" Max OD	4	
NTD28	Tube Deburrer	5	
MM014	2 sets of counter display cartons	1	

**Company Information:**

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

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