

VALUE[®]

VALUE Creates Value

Making Your Job More Enjoyable!

NAVTEK[™] High-end Series

Ushering in the smart era of HVAC tools



NAVTEK™ High-end Series
Ushering in the smart era of HVAC tools



Making Your Job More Enjoyable!

Leading Technology, Superior Quality, Best Experience

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Delivering unsurpassed customer value at every opportunity defines the mission of **NAVTEK**[™]. We make it possible for HVAC technicians to complete jobs with more accuracy, ease, and efficiency. With that mission in mind, we proudly launch **NAVTEK**[™] brand HVAC service tools. Utilizing industry leading technology, we have developed the world's first smart refrigerant charging machine, **VRC-6100i**, and the industry's first smart vacuum pump **VRP-8Di**. The revolutionary design of these products provide HVAC technicians a better work experience. **NAVTEK**[™] offers precision products: wireless refrigerant scales, HVAC tools, portable instruments, and impact-resistant manifold gauges. Starting with end users' requirements in mind, we integrate state-of-the-art technology and quality manufacturing to deliver a superior experience and a more relaxed, time-saving, enjoyable work environment. The launch of the **NAVTEK**[™] brand marks the beginning of the smart era for HVAC tools.

Leading Technology, Superior Quality, Best Experience.

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The Industry's First
Smart Vacuum Pump

VRP-8Di

Smart Evacuation

One-Touch , Automatic Operation



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The era of smart refrigerant evacuation begins here with the combination of inverter, vacuum measurement and smart control in one unit, the **VRP-8DI**. 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.

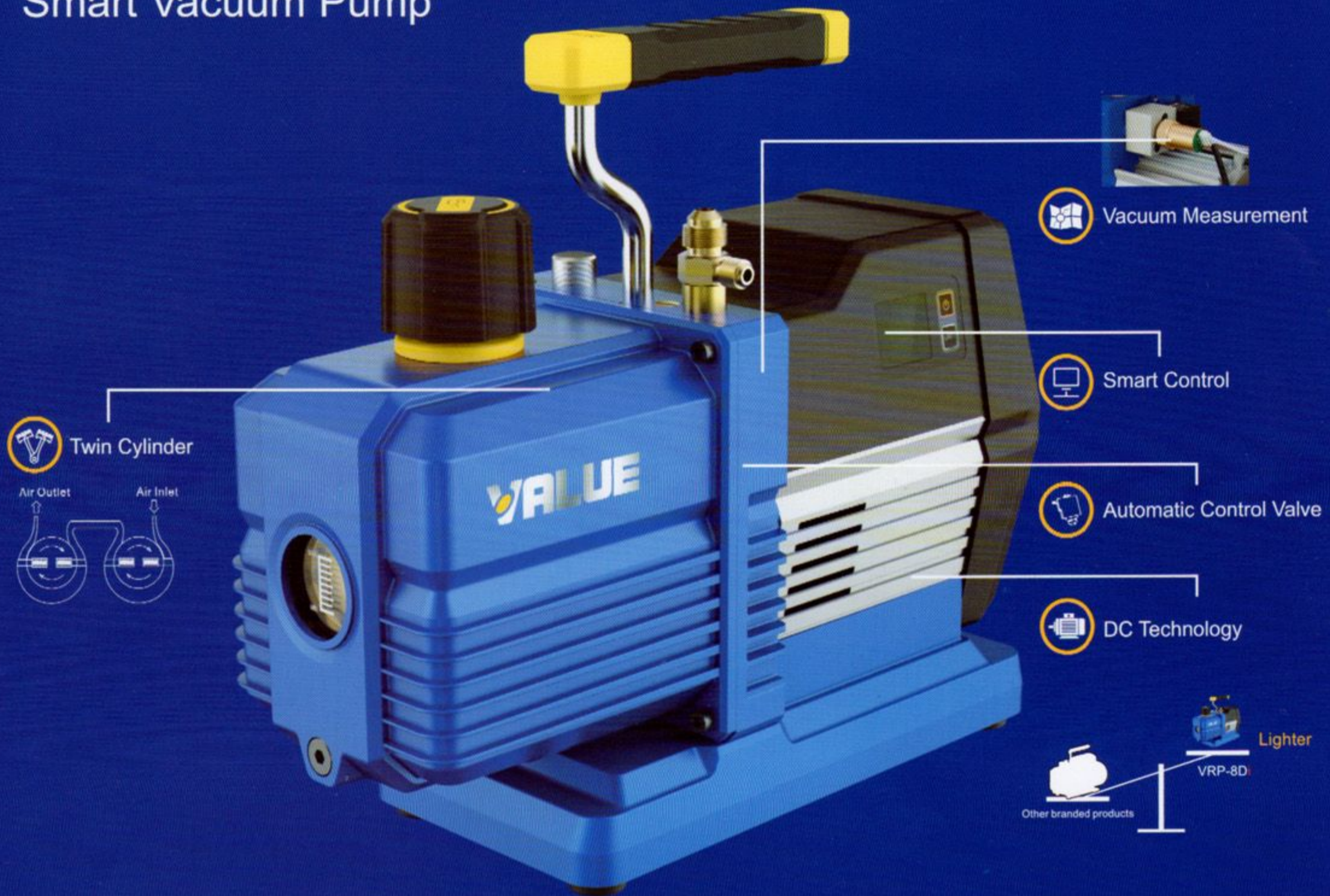
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VRP-8Di
 Smart Vacuum Pump



Smart Control Technology

DC Technology

- Lighter
- More efficient

Smart Control

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

Vacuum Measurement Technology

- Precise micron measurement
- Vacuum display

Twin Cylinder

- Higher ultimate vacuum

Automatic Control Valve

- Prevent oil back flow
- Preserve vacuum

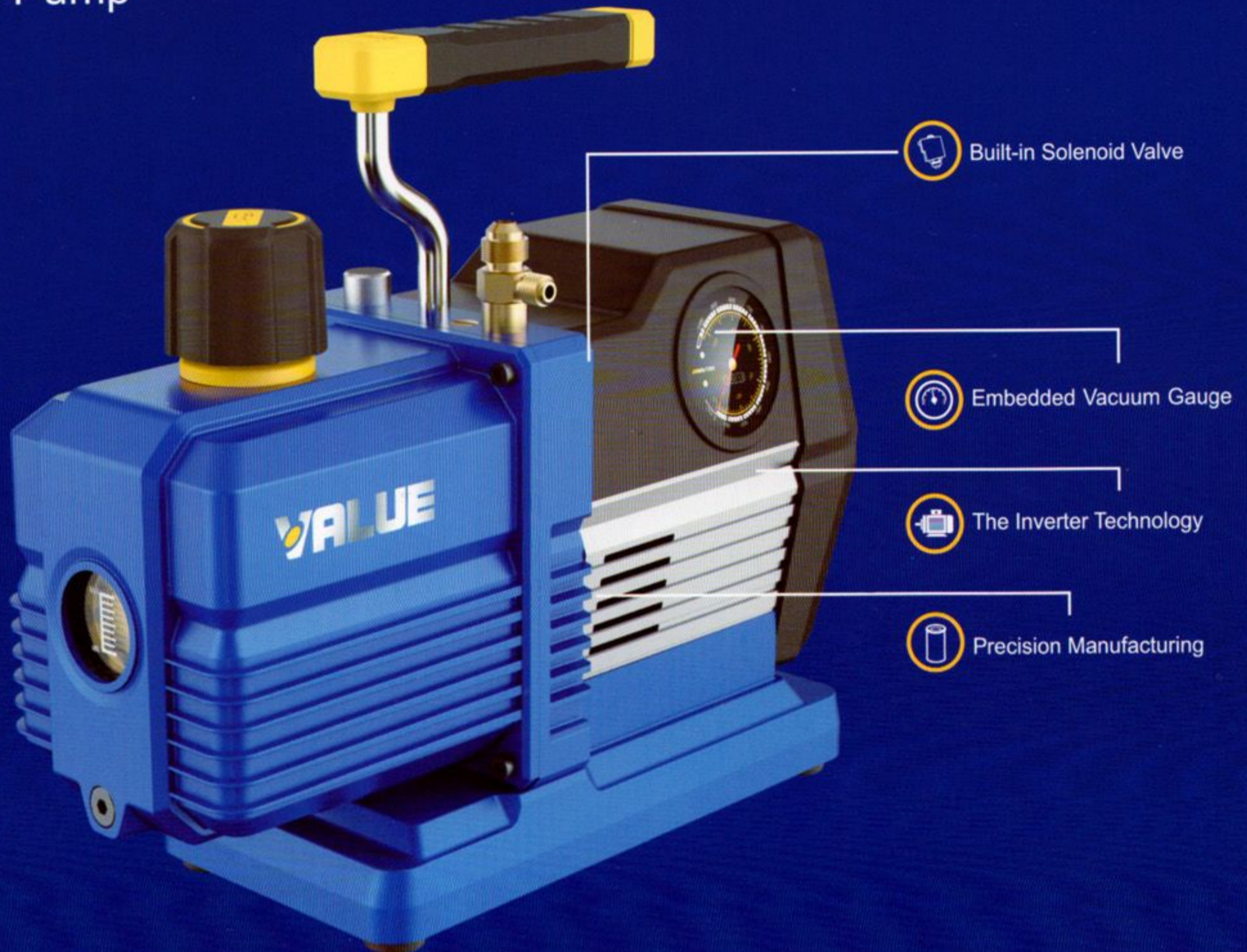
Model	VRP-6Di	VRP-8Di
Flow Rate	6.0 CFM	8.0 CFM
Ultimate Vacuum	15 micron	15 micron
Pump Design	Dual stage	Dual stage
Motor Power	3/4 HP	3/4 HP
Inlet Port	1/4" & 3/8" Flare	1/4" & 3/8" Flare
Oil Capacity	600 ml	600 ml
Dimensions	346×145×302 mm	346×145×302 mm
Weight	11.5 Kg	11.5 Kg

Suit for R32,1234yf, R410A,R22,R134a refrigerant & etc.

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VRP-8DV
 Vacuum Pump

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Accurate/Efficient

Built-in Solenoid Valve

- Preserve vacuum during power failure
- Prevent oil back flow

DC Technology

- Lighter
- More efficient

Precision Manufacturing

- More reliable

Embedded Vacuum Gauge

- Precision/Anti-Shock

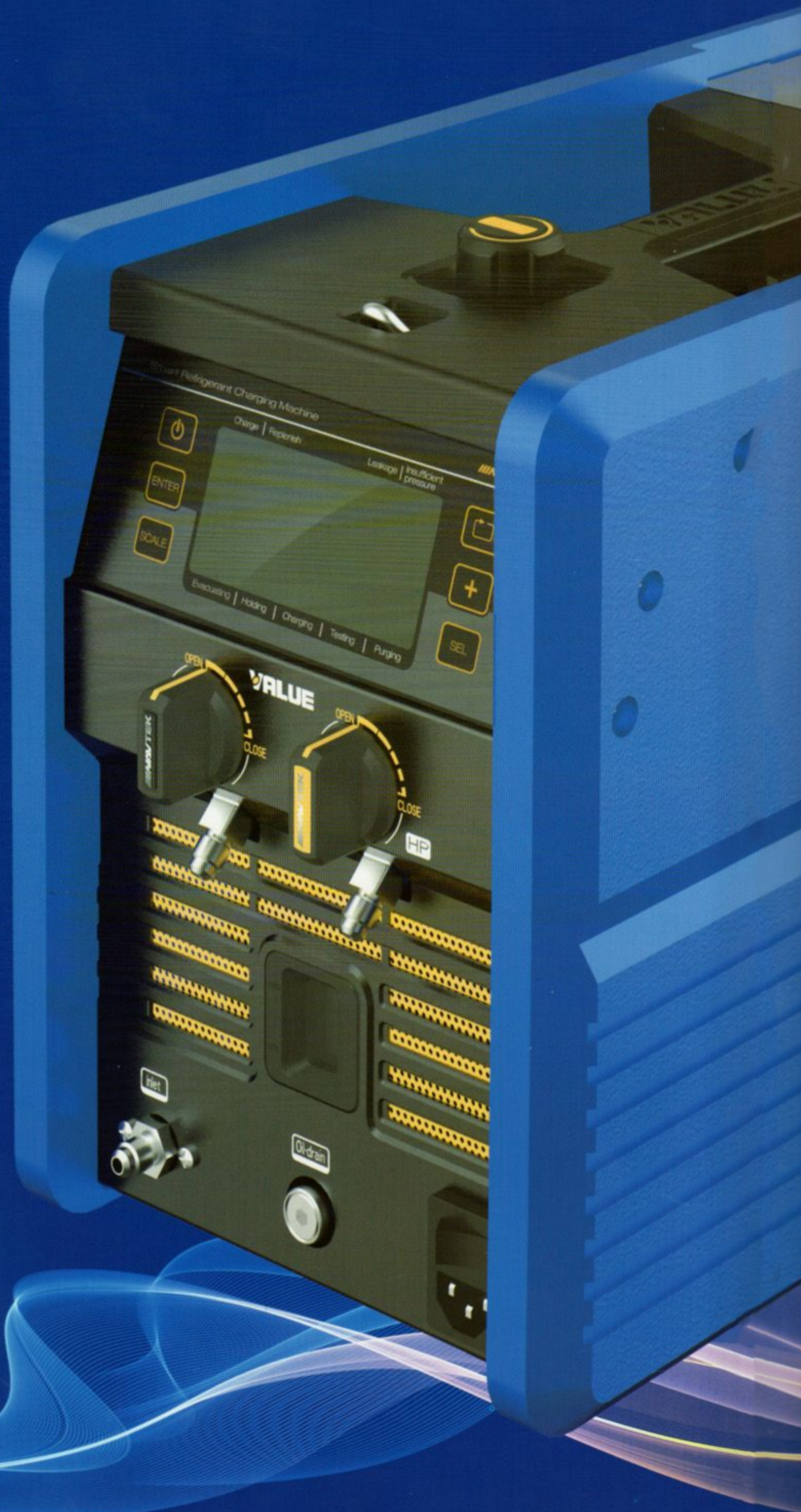
Model	VRP-6DV	VRP-8DV
Flow Rate	6.0 CFM	8.0 CFM
Ultimate Vacuum	15 micron	15 micron
Pump Design	Dual stage	Dual stage
Motor Power	3/4 HP	3/4 HP
Inlet Port	1/4" & 3/8" Flare	1/4" & 3/8" Flare
Oil Capacity	600 ml	600 ml
Dimensions	346×145×302 mm	346×145×302 mm
Weight	11.5 Kg	11.5 Kg

Suit for R32,1234yf, R410A,R22,R134a refrigerant & etc.

The Industry 's First
Smart Refrigerant Charging Machine

VRC-6100i
Smart Charging

China Patent





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VALUE

The industry's first smart charging machine, with never before seen features and advanced technology, **NAVTEK™** 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 intelligent control automatically starts the charging function with precise control of the predetermined refrigerant charge, and turns off the system once charging is complete. The **NAVTEK™** smart charging machine enables you to automatically, accurately, and efficiently complete HVAC system charging.

Leading Technology, Superior Quality, Best Experience.

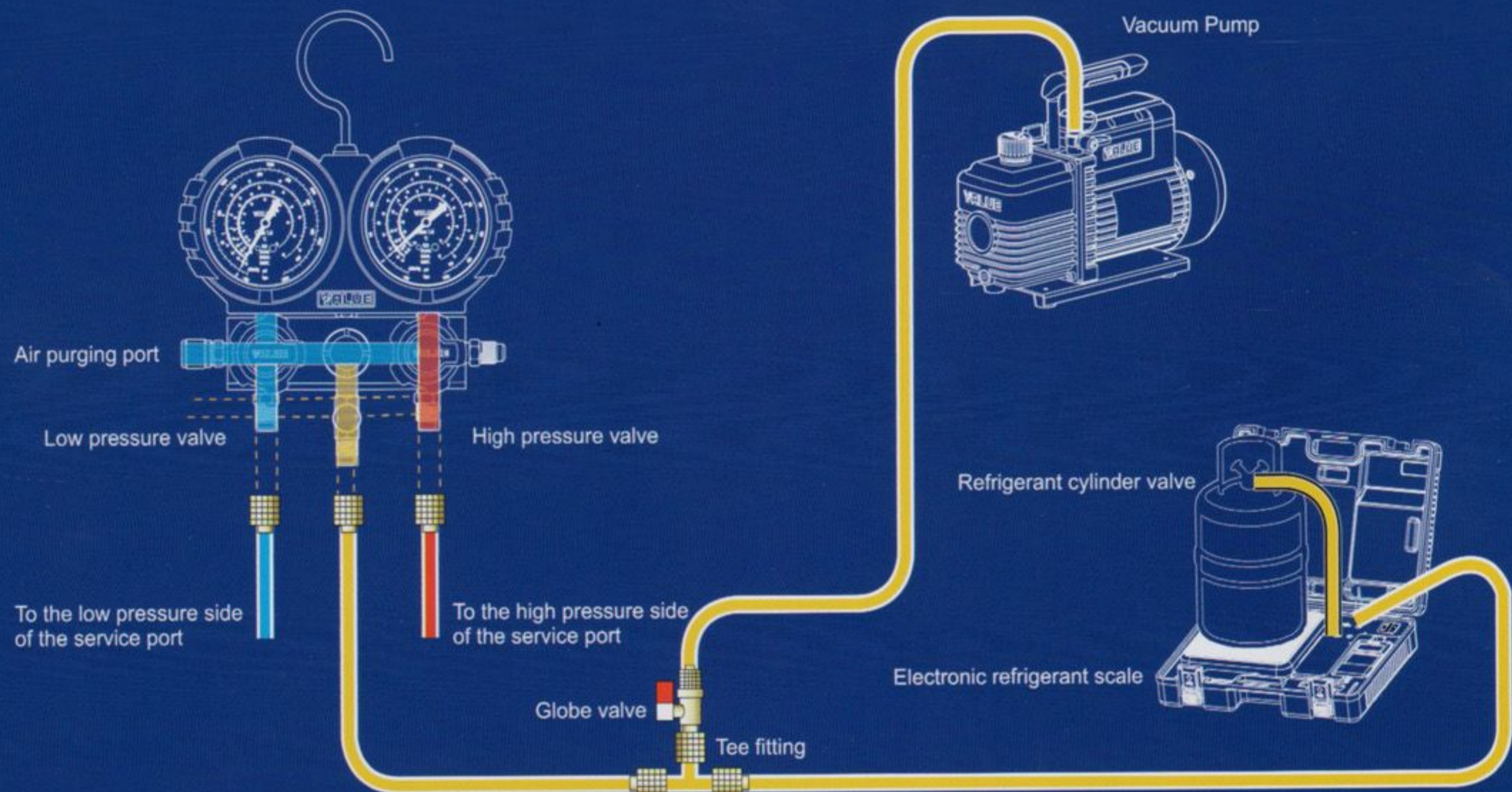
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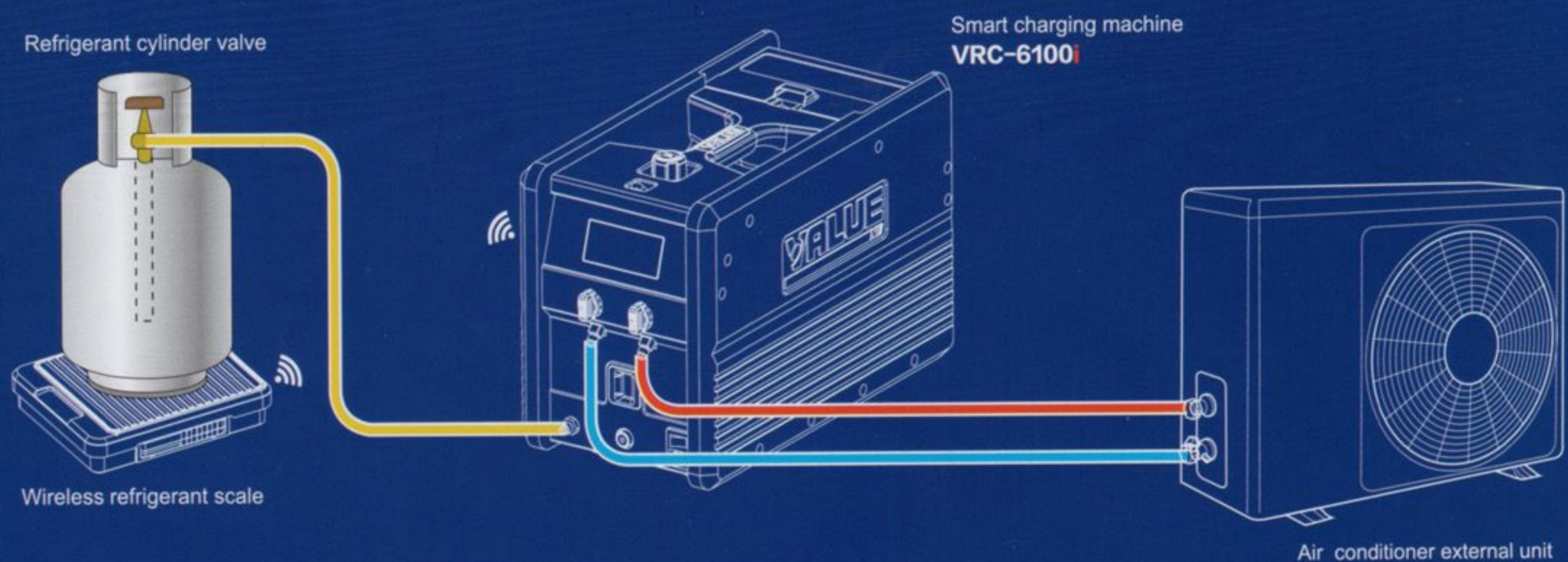
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Traditional Refrigerant Charging :

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NAVTEK™ VRC-6100i Smart Refrigerant Charging: Automatic • Accurate • Efficient



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.

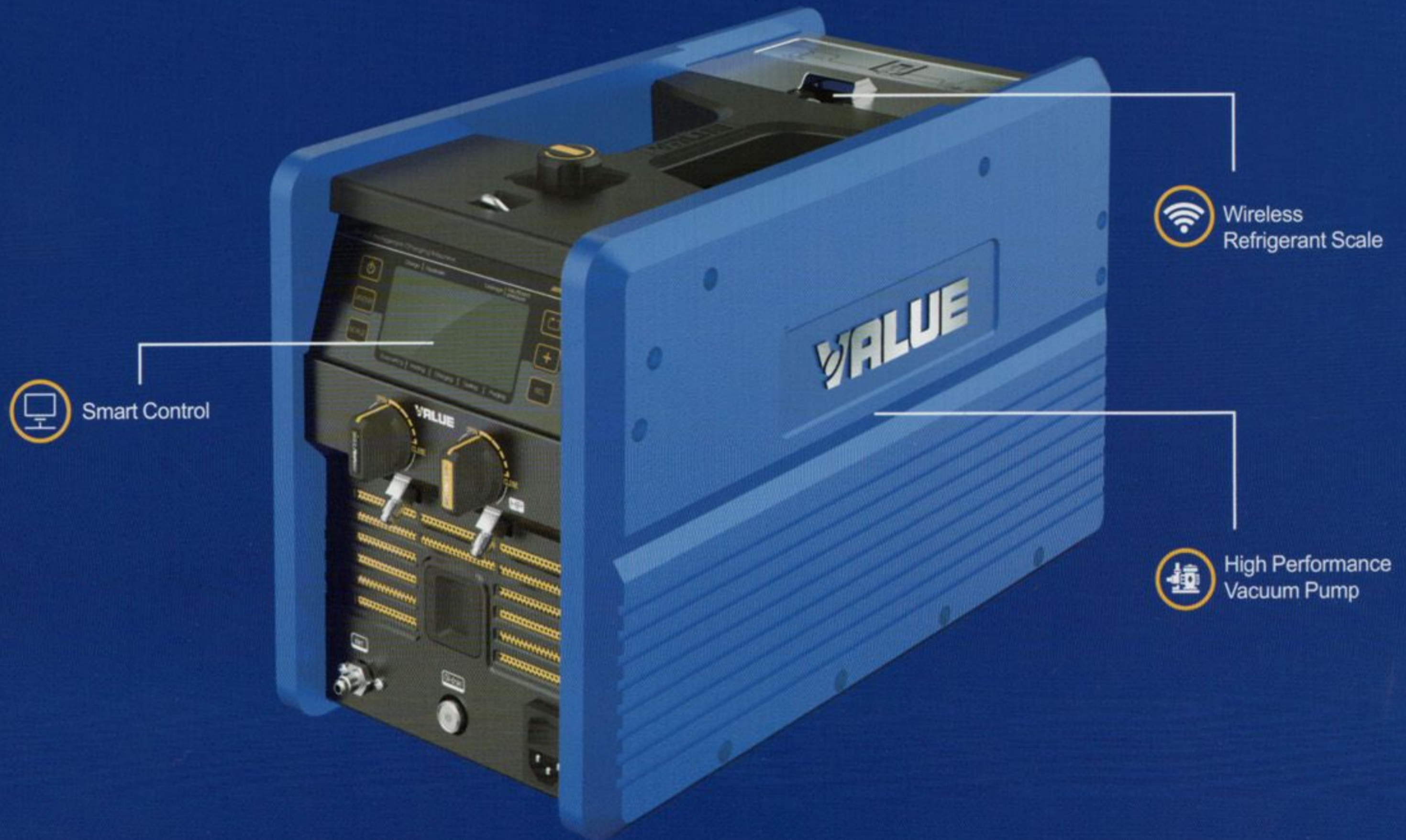
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VRC-6100i

Smart Refrigerant Charging Machine

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Smart Charging

High Performance Vacuum Pump

- More efficient
- Higher ultimate vacuum

Wireless Refrigerant Scale

- Precision charging
- Accuracy 0.05%

Smart Control

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

Model	VRC-6100i
Power Supply	230V~/50-60Hz
Flow Rate	6.0 CFM
Charge Rate	30g/s
Motor Power	1/2 HP
Operating temperature	5°C-40 °C
Dimensions	484×254×328 mm
Weight	21.3 Kg

Suit for R32, 1234yf, R410A, R22, R134a refrigerant & etc.

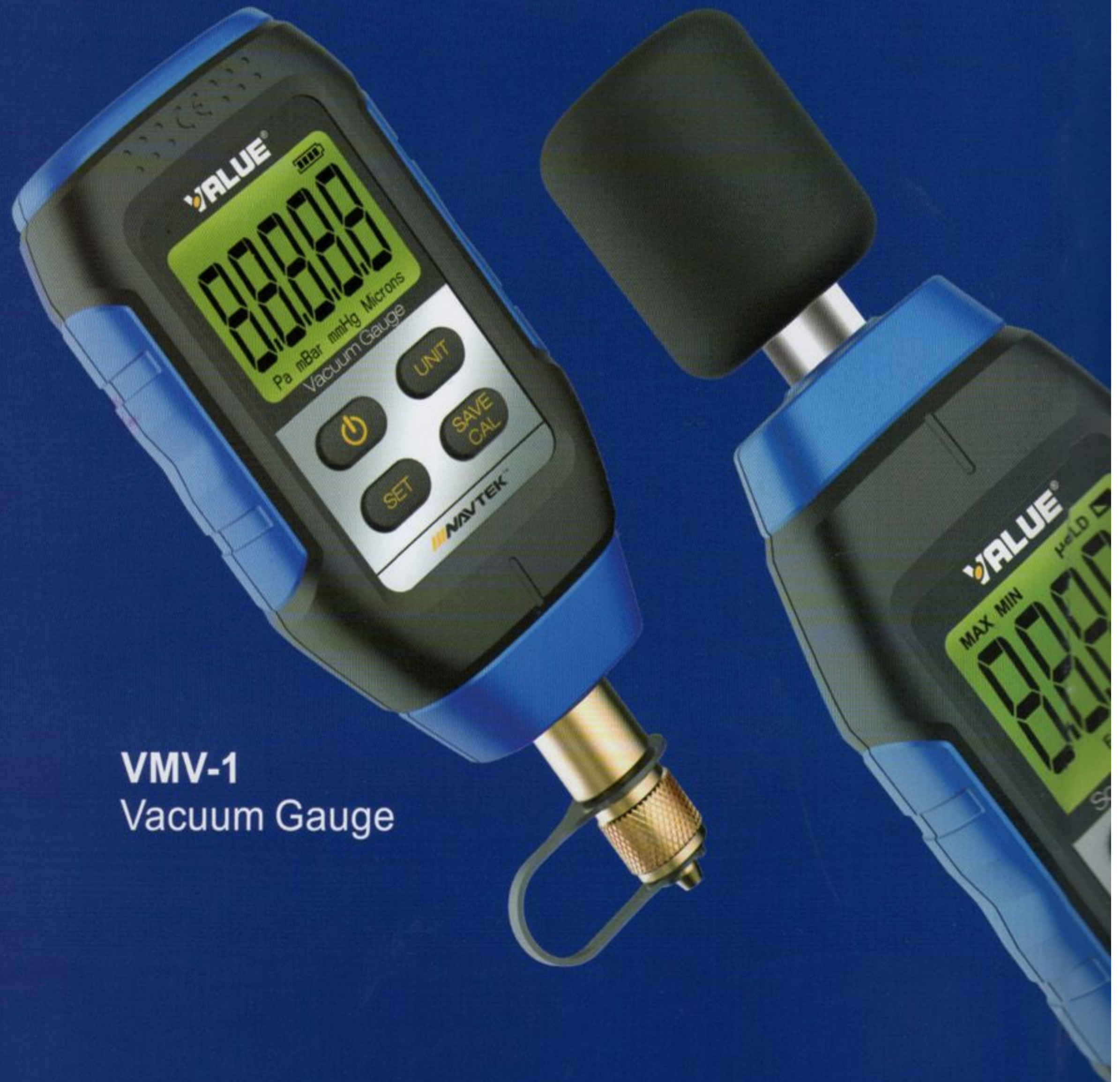
NAVTEK™ series measurement instruments

of the brand new design concept

VMV-1/VMS-1/VMA-1

Precise Measurement

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VMV-1
Vacuum Gauge

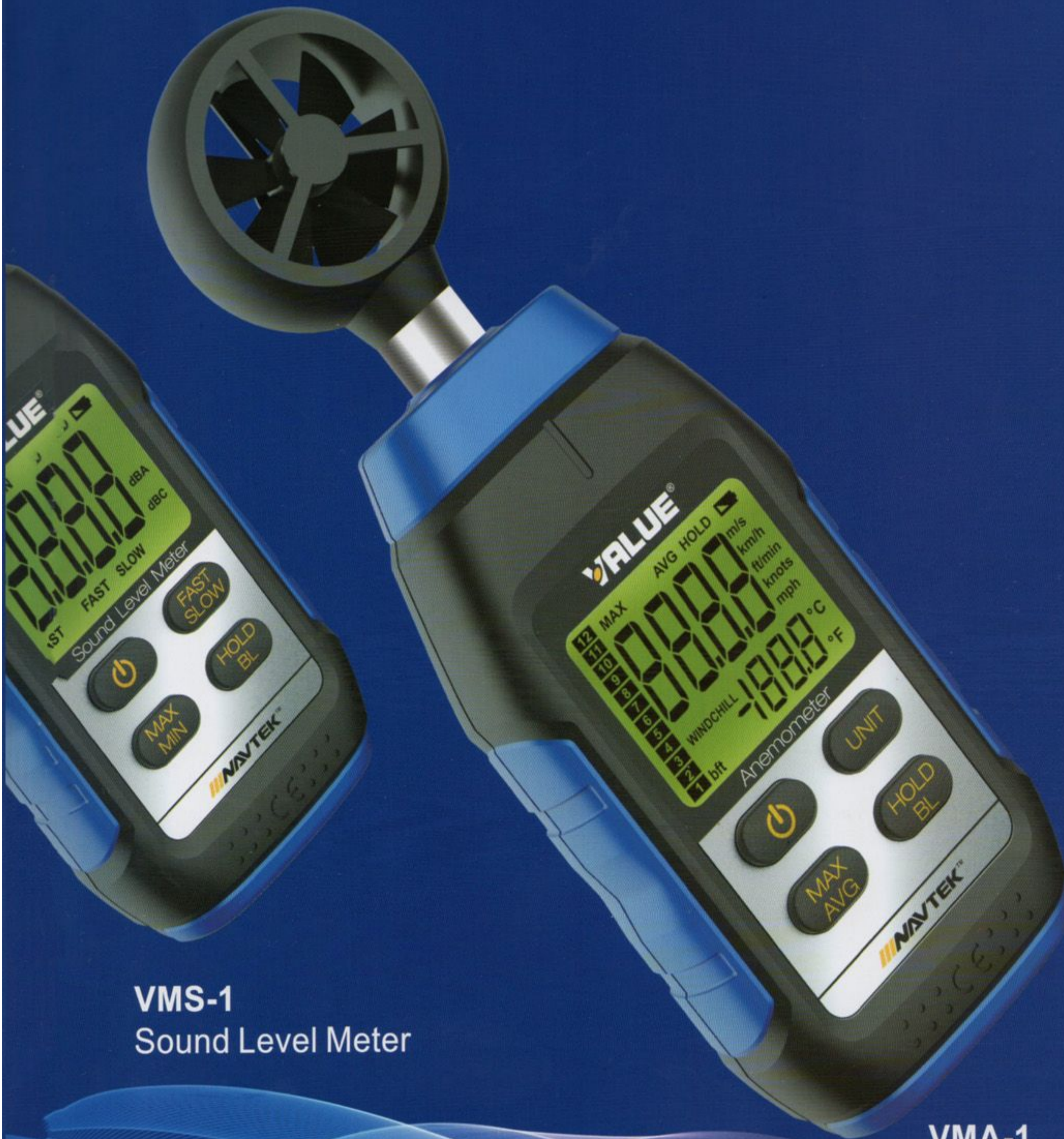
Traditional measurement instruments are often bulky, heavy and hard to carry. **NAVTEK™** Vacuum Gauge, utilizes precision technology, ergonomic and lightweight research and cutting-edge industrial design. They are easy to carry and offer single-hand operation.

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VMS-1
Sound Level Meter

VMA-1
Anemometer

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VMV-1 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 decreases from the pre-set vacuum level, it will buzz rapidly and flash the backlight to warn of leaks.


Leading Technology, Superior Quality, Best Experience.


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 Buzzing Remind



 Large Backlight Display

 High-precision Vacuum Sensor

Precise Measurement

Ergonomic Design

- Easy to carry

Buzzing Alert

- Vacuum level reminder
- Vacuum leakage warning

Precision Vacuum Sensor

- Pirani sensor

Large Backlit Display

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

Model	VMV-1
Maximum overload pressure	72PSI/0.5Mpa
Range	0~10000Pa, 0~100.00mBar, 0~75.000mmHg, 0~75000Microns
Resolution	0.01 (< 10Pa), 0.0001 (< 10mBar), 0.0001(< 10mmHg), 1 (< 30000Microns)
Accuracy	2~100Pa : ±5% of reading(at 20°C)
Operating temperature	0~50°C
Unit	Pa, mBar, mmHg, Microns
sensor	Pirani sensor
Dimensions	147x59x33 mm
Weight	Only 125g

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VMS-1 Sound Level Meter


Sound Level Meter **VMS-1**, with micro capacitor-type microphone sensing technology and bandwidth weighting network design, to enable small interference on the sound field, fast response and a precise, efficient noise measurement.

Leading Technology, Superior Quality, Best Experience.

Making Your Job More Enjoyable !



 Large screen backlit display

 Micro Capacitor-type Microphone Sensing Technology and Bandwidth Weighting Network Design

Precise Measurement

Ergonomic Design

- Easy to carry

Micro Capacitor-type Microphone Sensing Technology And Bandwidth Weighting Network Design

- Fast response
- Accurate and Efficient

Large Backlit Display

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

Model	VMS-1
Noise measurement scope	30~130 dB
Accuracy	±1.5 dB
Refresh rate	31.5Hz~8kHz
Resolution	0.1 dB
Sampling rate	Fast : 125ms / Slow : 1000ms
Power	1.5V AAAx3
LCD size	32x26 mm
Dimensions	155x57x35 mm
Weight	Only 88g

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VMA-1 Anemometer


Anemometer VMA-1, with magnetic sensor technology and precision computing amplifier chip, enable to directly convert the airflow rate into electrical signals; through the microprocessor chip to process data, using the electronic digital display to provide you with accurate measurements. It resolved the issues with traditional anemometer such as large volume and initial high airspeed, so as to achieve precision measurement.

Leading Technology, Superior Quality, Best Experience.

Making Your Job More Enjoyable !



 High sensitivity wind rotor

 Large Backlight Display

Precise Measurement

Ergonomic Design

- Easy to carry

Large Backlit Display

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

High Sensitivity Wind Rotor

- 6 vanes high sensitivity wind rotor
- Low friction bearing technology

Model	VMA-1
Wind Speed Measurement Scope	0~12
Accuracy of wind-speed measurement	± (5%rdg+0.5)
Accuracy of temperature measurement	±2°C
Wind Scale Accuracy	±1
Wind-speed resolution	0.1 m/s
Temperature resolution	0.1 °C
Sampling rate	500 ms
Power	1.5V AAAx3
LCD size	32x26 mm
Dimensions	164x57x30 mm
Weight	95 g

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VML-1 Leak Detector

With 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.

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Precise Measurement

Ergonomic Design

- Easy to carry

Lithium Battery

- Rechargeable

Semiconductor Sensor

- Precise measurement
- Extended service life

External Power Supply

- Extended use

Model	VML-1
Suitable for refrigerant	CFC, HCFC, HFC refrigerant
Minimum of leakage	≤3g/year(R134A)
Response time	≤3s (regarding the size and distance of source of leaks)
Life time of battery	≥8 hours
Pressure of system under test	≥50 kPa
Life time of sensor	≥1 year under normal usage
Power	5V
Calibration	auto
Weight	350 g
Length of probe	40 cm

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VRS-100i-01

Wireless Refrigerant Scale

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Precise Charging

Wireless Bluetooth Control

- More convenient

Large Backlit Display

- Large screen data display, better readability

Precision Sensor

- Precision measurement
- Accuracy 0.05%

Integrated Handle Design

Magnesium alloy weighing pan

- Only 2.0Kg, easy to carry

Model	VRS-50i-01	VRS-100i-01
Weighting range	50 Kg	100 Kg
Resolution	2 g	5 g
Accuracy	0.05%	0.05%
Power	4xAA, 4xAAA	4xAA, 4xAAA
Dimensions	210x260 mm	210x260 mm
Weight	2.0 Kg	2.0 Kg

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VRS-120i-01

Wireless Refrigerant Scale

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Suitable for larger size refrigerant cylinders



Precise Charging

Wireless Bluetooth Control

- More convenient

Aluminium Weighing Pan

- High strength, High reliability
- More durable

Precision Sensor

- Precision measurement
- Accuracy 0.05%

Large Backlit Display

- Large screen data display, better readability

Larger Size Weighing Pan

- Suitable for larger size refrigerant cylinders

Integrated Handle Design

Model	VRS-60i-01	VRS-120i-01
Weighting range	60 kg	120 kg
Resolution	5 g	10 g
Accuracy	0.05%	0.05%
Power	4xAA, 4xAAA	4xAA, 4xAAA
Dimensions	320x270 mm	320x270 mm
Weight	4.7 kg	4.7 kg

Precision and Impact-Resistant

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VRM2-0101i
Digital Manifold Gauge



VRM1-0101i
Digital Manifold Gauge

Incorporating the latest ergonomic research and advanced design, it's easy to handle and delivers high precision with Class 0.4 accuracy. The integrated, impact-resistant body design provides outstanding protection. With ball valve handle and easy folding hook design they are easy to carry.

Leading Technology, Superior Quality, Best Experience.

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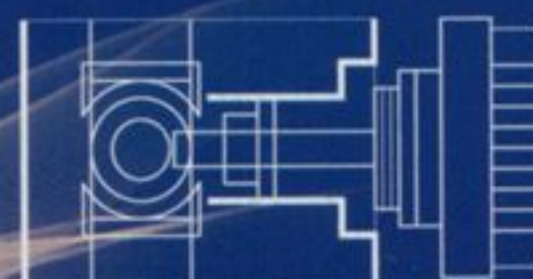
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VRM2-B-0401
 Manifold Gauge



VRM1-B-0403
 Manifold Gauge



Making Your Job More Enjoyable!

VRM2-0101i
 Digital Manifold Gauge

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Precision / Impact-Resistant

Accurate

- Precision pressure gauge with Class 0.4 accuracy

Folding Hook

- Hidden hook design ,easy to transport

Ball Valve Handle

- Effieient, convenient, easy
- Better work experience

Digital Display

- Easy to read

Impact-Resistant

- Impact-resistant design
- Durable rubber cover

Model	VRM2-0101i
Refrigerants scale	R22/R134a/R1234yf/R290/R404A/R407C/R410A/R32/R507
Pressure Scale	-30inHg~720psi
Hose	Red1/4"-5/16"; Yellow1/4"-1/4" ; Blue1/4"-5/16" With 2 pcs adapters: Male: 5/16" SAE Female:1/4" SAE
Standard Length	3x150cm
Package	Blow Case

NOTICE: All information listed above is standard type, if you have other requirement, please appoint in the order.

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VRM2-B-0401
 Manifold Gauge

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Precision / Impact-Resistant

Accurate

- Precision pressure gauge with Class 1,0 accuracy

Folding Hook

- Hidden hook design ,easy to transport

Ball Valve Handle

- Efficient, convenient, easy
- Better work experience

Impact-Resistant

- Impact-resistant design
- Durable rubber cover

Model	VRM2-B-0401	VRM2-B-0501
Refrigerants scale	R22/R134a/R410A/R407C	R22/R134a/R404A/R407C
Gauge Diameter	Φ68 mm	Φ68 mm
Pressure Scale	-30inHg~800psi; -30inHg~550psi	-30inHg~400psi; -30inHg~350psi
Hose	Red 1/4"-5/16"; Yellow 1/4"-1/4"; Blue 1/4"-5/16" With 2 pcs adapters: Male: 5/16" SAE Female:1/4" SAE	Red 1/4"-1/4"; Yellow 1/4"-1/4"; Blue 1/4"-1/4"
Standard Length	3x150 cm	3x150 cm
Package	Blow Case	Blow Case

NOTICE: All information listed above is standard type, if you have other requirement, please appoint in the order.

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VRM1-0101i
 Digital Manifold Gauge

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Precision / Impact-Resistant

Accurate

- Precision pressure gauge with Class 0.4 accuracy

Folding Hook

- Hidden hook design ,easy to transport

Ball Valve Handle

- Efficient, convenient, easy
- Better work experience

Digital Display

- Easy to read

Impact-Resistant

- Impact-resistant design
- Durable rubber cover

Model	VRM1-0101i
Refrigerants scale	R22/R134a/R1234yf/R290/R404A/R407C/R410A/R32/R507
Pressure Scale	-30inHg~720psi
Hose	Red1/4"-5/16" ; Yellow1/4"-1/4" With 1 pc adapter: Male: 5/16" SAE Female:1/4" SAE
Standard Length	2x150cm
Package	Blow Case

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VRM1-B-0403
 Manifold Gauge

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Precision / Impact-Resistant

Accurate

- Precision pressure gauge with Class 1.0 accuracy

Folding Hook

- Hidden hook design ,easy to transport

Ball Valve Handle

- Efficient, convenient, easy
- Better work experience

Impact-Resistant

- Impact-resistant design
- Durable rubber cover

Model	VRM1-B-0403	VRM1-B-0404
Refrigerants scale	R22/R134a/R410A/R407C	R22/R134a/R410A/R407C
Gauge Diameter	Φ68mm	Φ68mm
Pressure Scale	-30inHg~800psi;	-30inHg~550psi;
Package	Blister packing	Blister packing

NOTICE: All information listed above is standard type, if you have other requirement, please appoint in the order.

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