

VALUE[®]

High Quality Vacuum Pump Refrigerant Recovery Unit and Refrigeration Tools



VALUE[®]

ZHEJIANG VALUE MECHANICAL & ELECTRICAL PRODUCTS CO., LTD.

Add: Jiulong Avenue, Western Industrial Park of Wenling City, Zhejiang, China

Tel: +86 576 8619 1959

Fax: +86 576-8619 1957

E-mail: value@worldvalue.cn

Http: [//www.worldvalue.cn](http://www.worldvalue.cn)

**High Quality Vacuum Pump
Refrigerant Recovery Unit and Refrigeration Tools**



PROFESSIONAL MANUFACTURER

VALUE which is the global high-quality vacuum pump, recovery units, refrigeration tools leader, was founded in 1996. The company covers an area of 26500m², with building area of 45000m². The annual production is 250,000 for rotary-vane vacuum pumps and 20,000 for recovery units. Right now, VALUE has become the largest refrigeration vacuum pump, recovery unit manufacturer in the world. The company has a large number of vacuum technology experts, such as motor technical experts, quality management experts, manufacturing experts. The company has already used the customer demand analysis, value engineering analysis, failure mode analysis, lean production management, error proofing design, industrial design and the other the world's most advanced management tools and methods, to ensure that in the shortest possible time to provide customers with high-quality products and the best service.

QUALITY ASSURANCE

VALUE has the world's most advanced Japan OKUMA-BYJC vertical machining center, the German WENZEL three coordinate measuring equipment, also we have a constant temperature and clean assembly environment. The company has been through the German ISO 9001:2008 quality management system certification, the products have American UL, European CE, Canada CSA safety certification, for global customers providing the highest cost-effective products.



INNOVATION

VALUE continuous investment in research and development, to customer needs as a starting point to create and meet user's demand, the company has 50 patented technologies, continuing to lead the development of the industry.

GLOBAL SERVICE

VALUE has built the world more than 70 countries and regions of the sales network, products in Japan, the United States, Europe and other regions have a larger market, at the same time provide 10 of the world top 500 enterprises products and services; at the same time, provide suitable power products for all global customers; we also establish the network and the platform for over the world customers, provide products and services.



Contents

	VACUUM PUMP MINI SERIES	1
	VACUUM PUMP iPump SERIES	2~4
	VACUUM PUMP POWER SERIES	5~6
	VACUUM PUMP VRD SERIES	7~8
	REFRIGERANT RECOVERY UNIT	9~14
	REFRIGERATE RECOVER/CHARGE SCALE	15~16
	MANIFOLD GAUGE	17~20
	FLARING TOOLS	21~24
	TUBE CUTTER	25
	TUBE EXPANDERS	26
	INTEGRATED TOOLS KIT	27

VACUUM PUMPS

MINI SERIES

New Refrigerant Vacuum Pump

Suit for R410A, R407C, R134a, R12, R22 refrigerant

V-i115S-M

Mini Series



Only 4 kg



New

Smaller, lighter, and more convenient

Model	Voltage	Partial Pressure	Total Pressure	Inlet Port	Oil Capacity	Dimensions	Weight
V-i115S-M	220V/50-60Hz	2 Pa	150 micron	1/4"Flare	150 ml	240×88×183mm	3.5 Kg
V-i215S-M	220V/50-60Hz	2×10 ⁻¹ Pa	15 micron	1/4"Flare	110 ml	240×88×183mm	4 Kg

VACUUM PUMP

iPump SERIES

NEW REFRIGERANT

Suit for R410A, R407C, R134a, R12, R22 refrigerant

iPump

High Ultimate Vacuum

15 micron

2~8 CFM



Single Stage

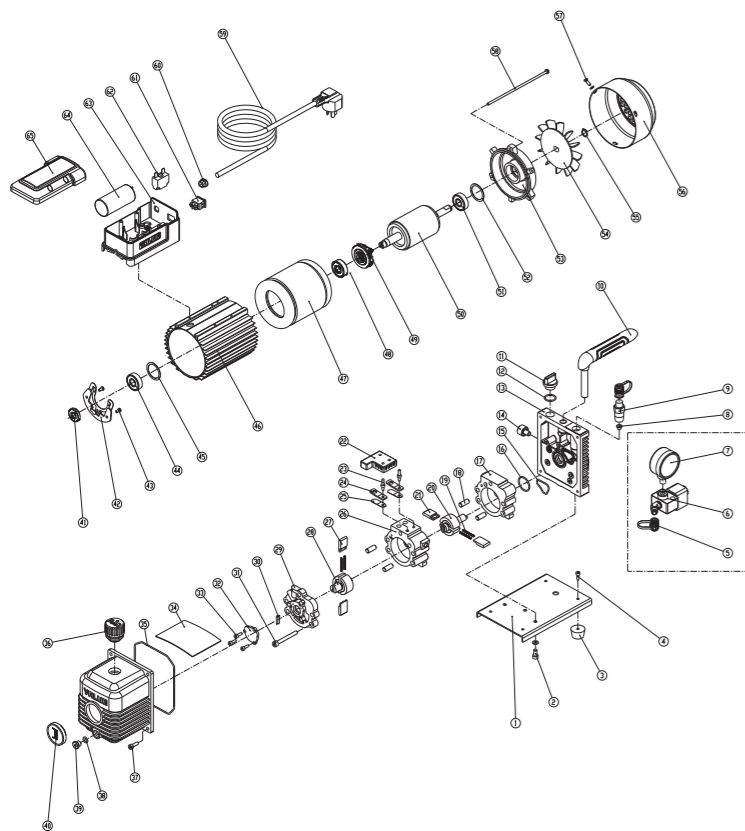
Item No.		V-i120SV	V-i140SV	V-i160SV	V-i180SV
Flow Rate	50 Hz	1.8 CFM 51 l/min	3.5 CFM 100 l/min	5.0 CFM 142 l/min	7.0 CFM 198 l/min
	60 Hz	2.0 CFM 57 l/min	4.0 CFM 113 l/min	6.0 CFM 170 l/min	8.0 CFM 226 l/min
Ultimate Vacuum	Partial Pressure	2 Pa	2 Pa	2 Pa	2 Pa
	Total Pressure	150 micron	150 micron	150 micron	150 micron
Power		1/4 HP	1/3 HP	1/2 HP	3/4 HP
Inlet Port		1/4" Flare	1/4" Flare	1/4" Flare	1/4" Flare
Oil Capacity		250 ml	250 ml	415 ml	660 ml
Dimensions(mm)		290×124×255 mm	318×124×265 mm	338×138×275 mm	395×145×318 mm
Weight		6.7 kg	8.6 kg	10.3 kg	15.4 kg

Dual Stage

Item No.		V-i220SV	V-i240SV	V-i260SV	V-i280SV
Flow Rate	50 Hz	1.8 CFM 51 l/min	3.5 CFM 100 l/min	5.0 CFM 142 l/min	7.0 CFM 198 l/min
	60 Hz	2.0 CFM 57 l/min	4.0 CFM 113 l/min	6.0 CFM 170 l/min	8.0 CFM 226 l/min
Ultimate Vacuum	Partial Pressure	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa
	Total Pressure	15 micron	15 micron	15 micron	15 micron
Power		1/3 HP	1/2 HP	3/4 HP	1 HP
Inlet Port		1/4" Flare	1/4" Flare	1/4" Flare	1/4" Flare
Oil Capacity		200 ml	325 ml	580 ml	500 ml
Dimensions(mm)		318×124×265 mm	338×138×275 mm	395×145×318 mm	395×145×318 mm
Weight		9.0 kg	11.0 kg	16.6 kg	17.0 kg

*Notice: according to the motor 220V only.

Exploded View for iPump Series



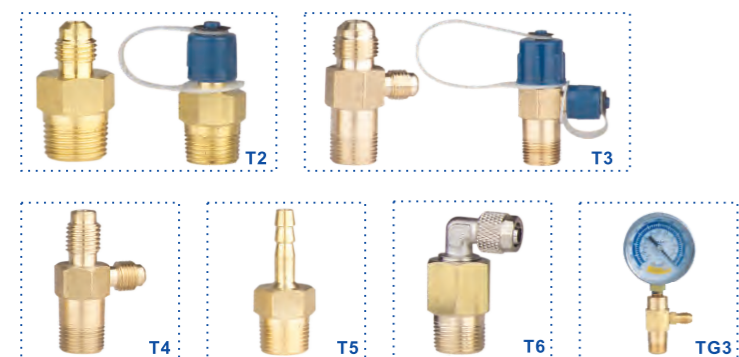
1	Base	18	Round pin
2	Screw	19	Spring
3	Rubber feet	20	Fore rotor
4	Screw	21	Fore rotary vane
5	Inlet fitting cap	22	Anti-oil cover
6	Solenoid valve	23	Screw
7	Vacuum gauge	24	Control plate
8	Filter	25	Displacing valve
9	Inlet fitting	26	Back stator
10	Handle	27	Back rotary vane
11	Oil fill cap	28	Back rotor
12	O ring	29	Pump back cover
13	Trestle	30	Oil pump rotary vane
14	Gas ballast	31	Screw
15	O ring	32	Oil pump back cover
16	O ring	33	Screw
17	Fore stator	34	Anti-oil plate
35	O ring	52	Gasket
36	Exhausting and oil inlet fitting	53	Motor cover
37	Screw	54	Fan
38	O ring	55	Elastic collar
39	Oil drain plug	56	Fan cover
40	Sight glass	57	Cross screw
41	Seal	58	Cross screw
42	Centrifugal switch base	59	Power supply cord
43	Cross screw	60	Insulating bushing
44	Bearing	61	Power switch
45	Gasket	62	Thermal protector
46	Motor hull	63	Junction box
47	Motor stator	64	Capacitor
48	Bearing	65	Junction box cover
49	Centrifugal switch		
50	Motor rotor		
51	Bearing		

AC Power Supply Plugs



Item	Description	Item	Description
C01	Israel plug	C06	America plug
C02	China plug	C07	Britain plug
C03	Australia plug	C08	Japan plug
C04	South Africa plug	C09	Italy plug
C05	Europe plug	C10	Argentina plug

Intake Ports Adapters



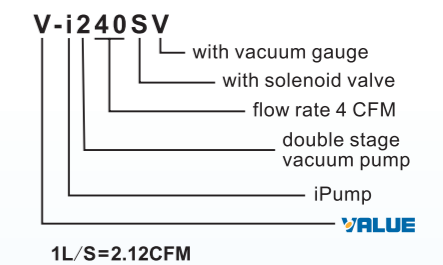
Item	Description
T2	1/4" SAE
T3	1/4" SAE 3/8" SAE
T4	1/4" SAE 1/2" Acme
Item	Description
T5	1/4" Tube
T6	1/4" Tube (Locked with M12×1 nut)
TG3	1/4" SAE Vacuum Gauge

How to select a correct vacuum pump

Refrigerants category

Flow rate

Ultimate vacuum



Refrigerants category

Vacuum pumps with solenoid valve should be used for pumping new refrigerants. Otherwise, there might be a risk that the pump oil returning to compressor, polluted and destroyed the refrigerants.

	New Refrigerant & old Refrigerant vacuum pump		Old refrigerant vacuum pump
R410A	R407C	R22	R22
	R404A	R12	R12
	R507A	R502	R502
	R134a	R500	R500

Flow rate

The flow rate of vacuum pump is usually represented by L/S, which means the working time has a direct relationship with the flow rate. It's required to select VALUE high reliable vacuum pumps which matches the equipment.

Flow rate	1~2L/S	3~4L/S	POWER
Applicable equipment	Household refrigerator	Central air-conditioning	Central air-conditioning
	Household air-conditioning	Large household air-conditioning	Large household air-conditioning
	Car air-conditioning	Bus air-conditioning	
		Large refrigerated warehouse	

Ultimate vacuum

Ultimate vacuum means the capacity of removing moisture. Pressure unit with Pa usually. The smaller figure, the higher ultimate vacuum achieves. New refrigerants central air-conditioning, Freezing and refrigeration equipment with low evaporator temperature need to use VALUE double stage vacuum pump.

	Single Stage	Dual Stage
Ultimate vacuum	2Pa	2×10 ⁻¹ Pa
Applicable equipment	Household air-conditioning	Central air-conditioning
	Car air-conditioning	Large refrigerated warehouse
	Refrigerator	

Adapt for all refrigerant (including R22,R410A,etc...)

Household air-conditioning



V-i140SV(2L/S)

150 micron

Central air-conditioning

Large household air-conditioning



V-i240SV(2L/S)

15 micron



V-i280SV(4L/S)

15 micron

Vacuum Pump Oil

A wide choice of oil is available to obtain the best performance from pumps under different application conditions.

VALUE vacuum pumps can be operated with the oil listed below; using different oils can affect all specified ultimate vacuum and cold starting.

Item/Model	VPO-46	VPO-68
Kinematic Viscosity (40°C), mm ² /s	41.4~50.6	61.2~74.8
Viscosity Index	110	130
Flash Point(°C)	240	250
Pour Point(°C)	-10	-35
Type	Mineral oil	Synthetic di-ester oil

330ml (11.5 Oz) 500ml (18 Oz)



VACUUM PUMP

POWER SERIES

HIGH RELIABILITY

POWER Series

Suit for large engineering equipment, refrigeration equipment and the other vacuum work

New



Powerful Fast

POWER Series high pumping speed vacuum pump

In order to solve the vacuum work for the large refrigeration equipment, VALUE specializes in development of POWER vacuum pump, large cylinder with high power design, can achieve a faster pumping work. At the same time, the six air inlet structure can be closed individually, so it can be connected with multiple devices. Innovative pump circulating oil inlet system and automatic anti oil design, suitable for all types of refrigeration equipments. High reliability design, pursuit of excellence tradition, makes the company POWER series vacuum pump to be a classic.

VACUUM PUMP

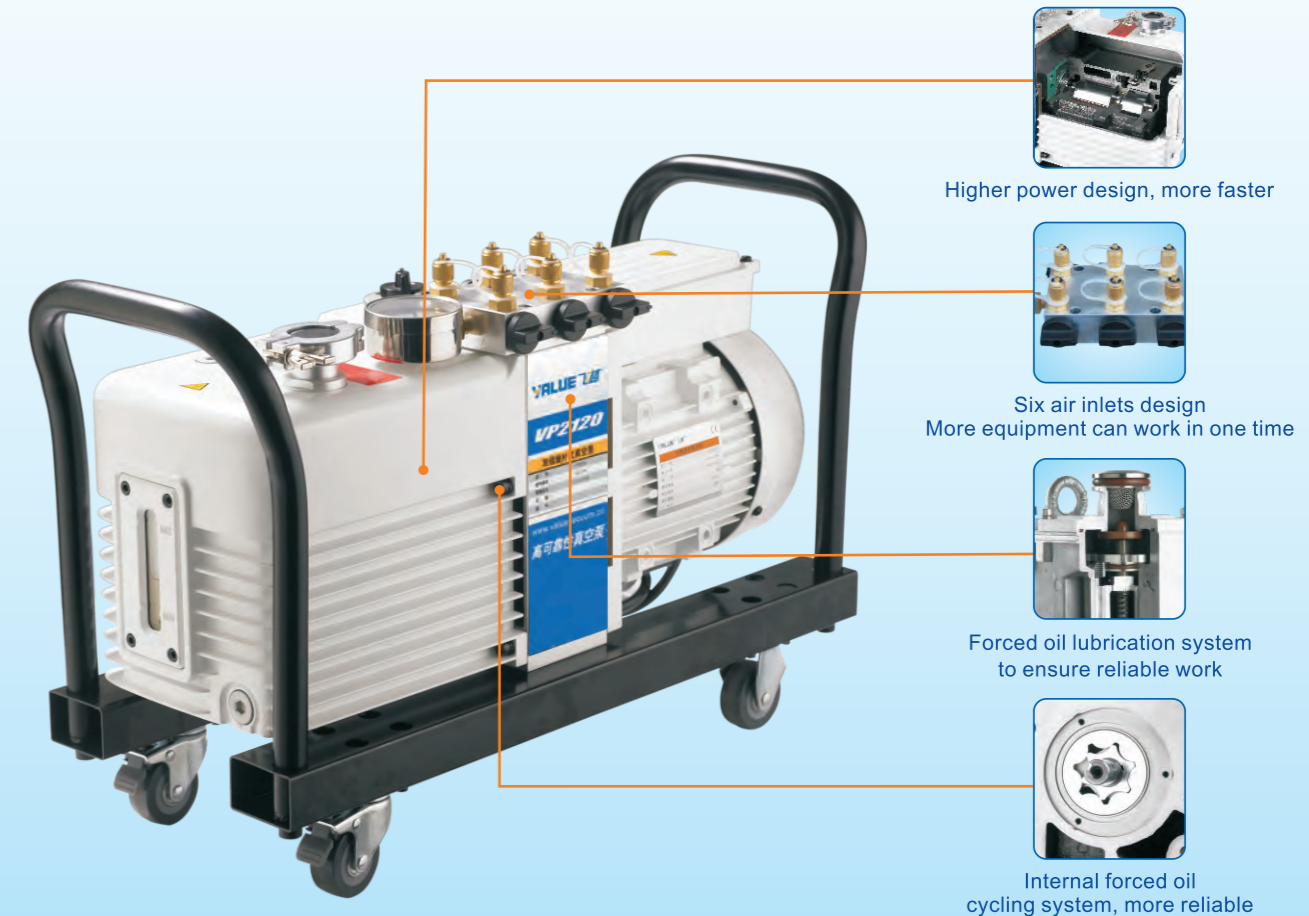
POWER SERIES

Superior performance

- Large cylinder with high power design, faster pumping
- Six air inlet structure and can be closed valves individually, so it can connect to multiple devices at the same time
- Forced oil lubrication system to ensure reliable work
- Two-handle design for easy handling

Scope of application

- Large refrigeration equipment repair
- Refrigeration line
- Central air-conditioning repair
- Lithium bromide unit supporting
- Machinery and equipment industry



Model		VP2120	VP2200
Displacement speed (m ³ /h)	50Hz	20	36
	60Hz	24	44
Ultimate partial pressure without gas ballast (Pa)		4×10 ⁻²	4×10 ⁻²
Ultimate total pressure without gas ballast (Pa)		4×10 ⁻¹	4×10 ⁻¹
Ultimate total pressure with gas ballast (Pa)		8×10 ⁻¹	8×10 ⁻¹
Power supply		single/3-ph	single/3-ph
Motor power (KW)		0.75/0.55	1.1/0.75
Inlet and outlet port DN (mm)		KF25	KF25/40
Oil capacity (L)		0.9~1.5	1.3~2.0
Motor speed (rpm)	50Hz	1440	1440
	60Hz	1720	1720
Ambient temperature (°C)		5-40°C	5-40°C
Noise level dB (A)		≤58	≤58
Weight (kg)		33	38

VACUUM PUMP

VRD SERIES

INDUSTRIAL VACUUM PUMPS

VALUE's VRD series vacuum pumps are designed and manufactured to meet the requirements of various scientific and industrial applications such as analytic instruments, laboratories and product line for refrigeration, electronics, light, semiconductor, etc..

Excellent Performance:

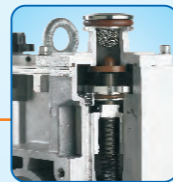
- Automatic anti-suckback valve, protect your system from oil and oil steam when power suddenly goes off.
- Internal forced oil cycling system, fully lubricates the pump and make the lifetime longer and vacuum better.
- Adjustable gas ballast for different needs of steam emission.
- High reliable integrated cylinder structure, suits production lines better.
- Different voltage types for different countries and regions.

Range of Use:

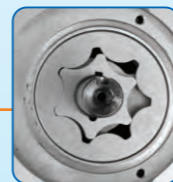
- Semiconductor Industry
- Scientific Instruments
- Mechanical Equipments
- Chemical Industry
- Vacuum Metallurgy
- Medical Instruments
- Vacuum Packaging



Adjustable Gas Ballast Design



Automatic Anti-suckback Valve



Internal Forced Oil Cycling System



Integrated Cylinder Structure

VACUUM PUMP

VRD SERIES

Dual Stage



HIGH RELIABILITY

Model	VRD-4	VRD-8	VRD-16	VRD-24	VRD-30	VRD-48	VRD-65	
Displacement speed m ³ /h (CFM)	50 Hz	4 (2.4)	8 (4.7)	16 (9.4)	24 (14.1)	30 (17.6)	48 (29.4)	65 (38.2)
	60 Hz	4.8 (2.8)	9.6 (5.6)	19.2 (11.2)	28.8 (16.9)	36 (21.2)	60 (35.3)	78 (45.9)
Ultimate Pressure (Pa)	Partial Pressure	5×10 ⁻²	5×10 ⁻²	5×10 ⁻²	5×10 ⁻²	5×10 ⁻²	5×10 ⁻²	5×10 ⁻²
	Total Pressure	5×10 ⁻¹	5×10 ⁻¹	5×10 ⁻¹	5×10 ⁻¹	5×10 ⁻¹	5×10 ⁻¹	5×10 ⁻¹
Power supply	single/3-ph	single/3-ph	single/3-ph	single/3-ph	single/3-ph	3-ph	3-ph	
Motor power (KW)	0.45 (single/3-ph)	0.55 (single/3-ph)	0.75/0.55 (single/3-ph)	1.1/0.75 (single/3-ph)	1.1 (single/3-ph)	1.5 3-ph	2.2 3-ph	
Inlet and outlet port DN(mm)	KF16/25	KF16/25	KF25	KF25/40	KF25/40	KF40	KF40	
Oil capacity (L)	0.26~0.35	0.45~0.55	0.9~1.5	1.3~2.0	1.3~2.0	3.0~4.0	3.0~4.0	
Motor speed (rpm)	50 Hz	1440	1440	1440	1440	1440	1440	
	60 Hz	1720	1720	1720	1720	1720	1720	
Ambient temperature (°C)	5~40	5~40	5~40	5~40	5~40	5~40	5~40	
Noise level dB(A)	≤56	≤56	≤58	≤58	≤58	≤62	≤62	
Type of Protection (IP)	44	44	44	44	44	44	44	
Weight (kg)	19	21	30	35	43	62	65	

VRD Power Supply Table

Model	VRD-4	VRD-8	VRD-16	VRD-24	VRD-30	VRD-48	VRD-65
Single Phase	100V/50Hz-60Hz	●	●	/	/	/	/
	110V/60Hz	●	●	/	/	/	/
	220V/50Hz	/	/	●	●	●	/
	220V/60Hz	/	/	●	●	●	/
	220V/50Hz-60Hz	●	●	/	/	/	/
3-Phase	380-420V/50Hz-60Hz	●	●	●	●	●	●
	200-220V/50Hz-60Hz	●	●	●	●	●	●

MINI REFRIGERANT RECOVERY UNIT

VRR12L/VRR24L

Mini Recovery Unit

New

VRR12L

- One key operation, easy to use
- Equipped with high pressure protection
- Oil-less compressor
- Self-purge function
- **13.5Kg** only, easy to carry.



• Chinese patent



VRR24L

- One key operation, easy to use
- Equipped with high, low pressure protection
- 80% over filling protection
- **Twin-piston**, oil-less compressor, faster recovery
- Self-purge function



• Chinese patent



MINI REFRIGERANT RECOVERY UNIT

VRR12L/VRR24L

PARTS DIAGRAM VRR24L



SPECIFICATIONS

	VRR12L	VRR24L
Refrigerants	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, R507	
Power Supply	220-240 VAC 50-60 Hz	
Motor	3/4HP	1HP
Motor Speed	1450RPM/1750RPM	
Maximal Current Draw	4 A	5 A
Compressor	Oil-less, Air-cooled, Piston style	
Automatic safety Shut-Off	38.5bar/3850kPa(558psi)	
Recovery Rate	Category III	Category IV
	Category V	Category III
	Category IV	Category V
Vapor	0.20 kg/min	0.25 kg/min
Liquid	1.60 kg/min	1.80 kg/min
Push/pull	4.60 kg/min	5.60 kg/min
Operating Temperature	0°C-40°C	
Dimensions	400×250×355mm	
Weight	13.5 kg	14.8 kg

*For ARI certified ratings, please refer to www.airdirectory.org

REFRIGERANT RECOVERY UNIT

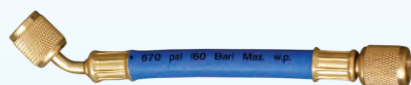
VRR12A/VRR12C

Recovery Unit

VRR12A



Filter drier



10cm(4 ")
connection hose



• Chinese patent

- Economical recovery with 3/4 HP, oil-less compressor
- Suitable for all commonly used refrigerants including R410A

Energy efficient
Environmental-friendly

VRR12C

- **80% overfilling protection**
The unit will automatically stop when the weight of recovered refrigerant reaches 80% capacity of the tank.
- **Low pressure protection**
The unit will automatically stop once the recover is complete, which reduces the need to monitor the whole process.
- **Oil separator device**
Purification and recycling of the refrigerants.

Filtration
Purification

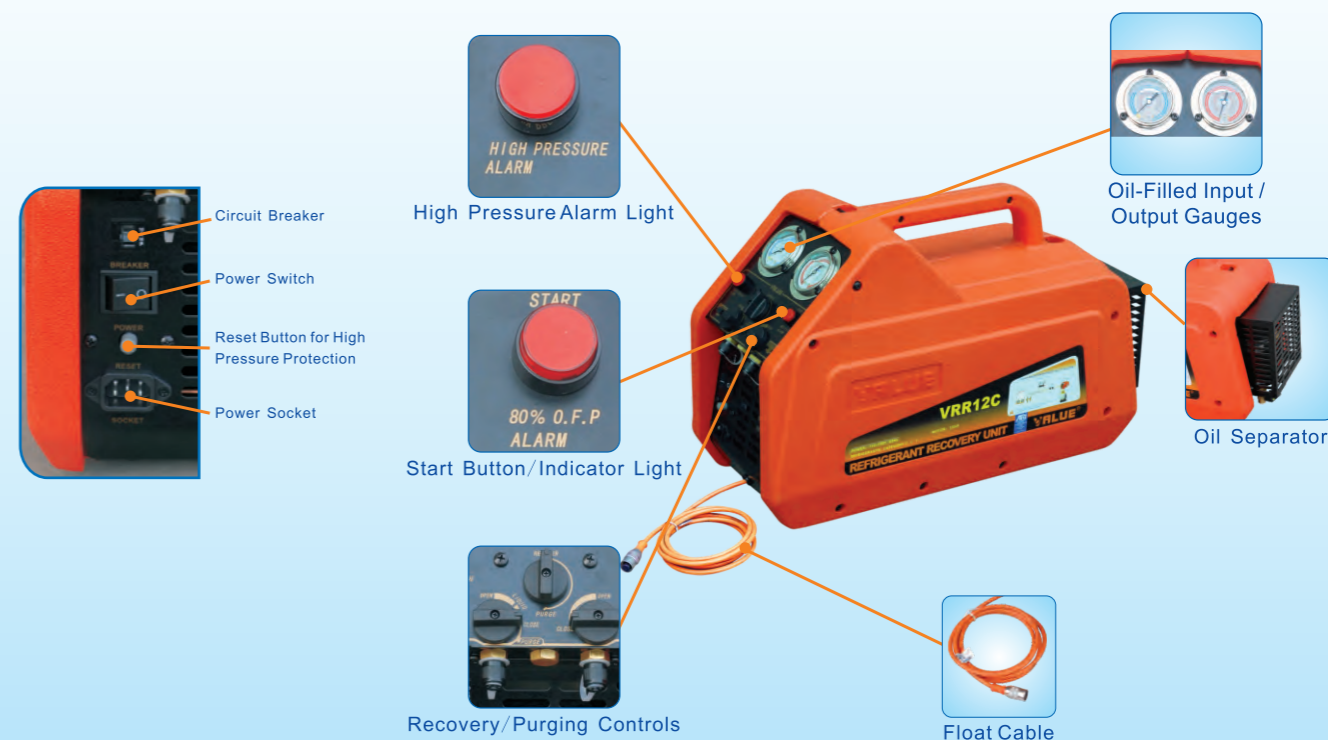


• Chinese patent

REFRIGERANT RECOVERY UNIT

VRR12A/VRR12C

PARTS DIAGRAM VRR12C



SPECIFICATIONS

	VRR12A	VRR12C
Refrigerants	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, R507	
Power Supply	220-240 VAC 50-60 Hz	
Motor	3/4HP	1HP
Motor Speed	1450RPM/1750RPM	
Maximal Current Draw	4 A	
Compressor	Oil-less, Air-cooled, Piston style	
Automatic safety Shut-Off	38.5bar/558psi	
Recovery Rate	Vapor	Category III: 0.20 kg/min, Category IV: 0.25 kg/min, Category V: 0.25 kg/min
	Liquid	Category III: 1.40 kg/min, Category IV: 1.50 kg/min, Category V: 1.90 kg/min
	Push/pull	Category III: 4.10 kg/min, Category IV: 5.00 kg/min, Category V: 5.70 kg/min
Operating Temperature	0°C-40°C	
Dimensions	500×230×340mm	530×230×340mm
Weight	16 kg	18 kg

*For ARI certified ratings, please refer to www.airdirectory.org

REFRIGERANT RECOVERY UNIT

VRR24A/VRR24C

Recovery Unit VRR24A/24C

Faster Recovery

- **Twin-piston** compressor, suitable for A/C system with **large volume** of refrigerants.
- Equipped with high and low pressure protection with selective function of 80% O.F.P. and oil separator device.



- **Chinese patent**



REFRIGERANT RECOVERY UNIT

VRE12P

REFRIGERANT RECOVERY & RECYCLING & EVACUATION STATION

VRE12P

- **Chinese patent**

Recovery filling purification



SPECIFICATIONS

	VRR24A			VRR24C			
Refrigerants	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, R507						
Power Supply	220-240 VAC 50-60Hz						
Motor	3/4HP			1HP			
Motor Speed	1450RPM/1750RPM						
Maximal Current Draw	5 A						
Compressor	Oil-less, Air-cooled, Piston style						
Automatic safety Shut-Off	38.5bar/558psi						
Recovery Rate		Category III	Category IV	Category V	Category III	Category IV	Category V
	Vapor	0.40 kg/min	0.50 kg/min	0.50 kg/min	0.35 kg/min	0.45 kg/min	0.45 kg/min
	Liquid	3.00 kg/min	3.50 kg/min	3.50 kg/min	2.50 kg/min	3.00 kg/min	3.00 kg/min
	Push/pull	7.50 kg/min	8.50 kg/min	9.50 kg/min	6.70 kg/min	7.50 kg/min	8.50 kg/min
Operating Temperature	0°C-40°C						
Dimensions	515×245×360mm			545×245×360mm			
Weight	16 kg			18 kg			

*For ARI certified ratings, please refer to www.airdirectory.org

SPECIFICATIONS

	Recovery Device	Vacuum Pump
Refrigerants	Cat III:R-12, R-134a, R-401C, R-500 Cat 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 Cat V :R-402A, R-404A, R-407A, R-407B, R-410A, R507	
Power Supply	110-120V 60Hz 220-240V 50Hz 220-240V 50-60Hz	
Motor	3/4HP	1/3HP
Maximal Current Draw	4A@50Hz 8A@60Hz	3.5A@50Hz 6.5A@60Hz
Compressor	Oil-less, Air-cooled Piston style	
Automatic safety Shut-Off	38.5bar/558psi	

		Recovery Device		
Recovery Rate (kg/min)		Cat III	Cat IV	Cat V
	Vapor	0.20	0.25	0.25
	Liquid	1.60	1.80	2.20
	Push/pull	4.60	5.60	6.30
	Vacuum pump	VE245		
	Stage	2		
	Flow Rate	5 CFM		
	Ultimate Vacuum	25 micron		
	Power	1/3 HP		
	Working Current	3.5 A / 50 Hz		

REFRIGERANT RECOVER/CHARGE SCALE

VES-50A/VES-100A

Accurate Measurement VES-50A/VES-100A



Anti-collision



The recovery / recycling weight can be set, convenient for operation

Accurate Measurement

Model	VES-50A	VES-100A
Weighting range	50 Kg	100 Kg
Resolution	2 g	5 g
Accuracy	±0.05%	
Display	LCD	
Power	DC 9V, at least 80h working time	
Working Environment	-10°C~40°C ≤75% Humidity	
Platform Size	237×237mm	
Weight	4 Kg	
Anti-collision	Yes	

Easy operation schematic

1 Open the electrical scale



2 Place the refrigerant tank and clear the electrical scale



3 Enter the filling and recovery function, enter the net weight values of the refrigerant, and press OK



4 When close to fixing weight of filling / recovery, electronic scale will alarm or automatic shut down the valve, and prompts the filling/recovery has been completed



5 After filling / recovery, stop the scale manually, and press OK



REFRIGERANT RECOVER/CHARGE SCALE

VES-50B/VES-100B

Accurate Measurement VES-50B/VES-100B

Quantitative filling precision control



The recovery / recycling weight can be set, convenient for operation



High precision valve, accuracy control, filling weight±5g



Anti-collision

Model	VES-50B	VES-100B
Weighting range	50 Kg	100 Kg
Resolution	2 g	5 g
Accuracy	±0.05%	
Display	LCD	
Power	DC 9V	
Working Environment	-10°C~40°C ≤75% Humidity	
Platform Size	237×237mm	
Weight	5 Kg	
Anti-collision	Yes	
Automatic Shut-off	Yes	

MANIFOLD GAUGE

VMG-2-R410A

Accurate Dual Manifold Gauge

(Anti-collision series)

Anti-collision manifold gauge specially for R410A

VMG-2-R410A

**Accurate
Anti-collision**



- Pressure gauge with high precision movement, precision grade 1.6
- High strength rubber cover, fully anti-collision
- ϕ 12mm high strength refrigerant tube, to ensure high reliability
- The gauge handle with metal insert design, increase the strength

Manifold gauge specially for R410A

Model	VMG-2-R410A
Refrigerants	R410A
Gauge Diameter	80mm
Pressure Scale	0~800psi -30~500psi
Hose	Red: 1/4", 5/16" Yellow: 1/4", 1/4" Blue: 1/4", 5/16"



MANIFOLD GAUGE

VMG-2-R134a

Accurate Dual Manifold Gauge

(Anti-collision series)

Suit for R410A, R407C, R134a, R12, R22 refrigerant

VMG-2-R134a

- Pressure gauge with high precision movement, precision grade 1.6
- High strength rubber cover, fully anti-collision
- ϕ 12mm high strength refrigerant tube, to ensure high reliability
- The gauge handle with metal insert design, increase the strength

**Accurate
Anti-collision**



Suit for R410A, R407C, R134a, R12, R22 refrigerant

Model	VMG-2-R134a
Refrigerants	R407C, R404A, R134a, R22
Gauge Diameter	80mm
Pressure Scale	0~400psi ; 0~140psi
Hose	Red: 1/4"-1/4" ; Yellow: 1/4"-1/4" ; Blue: 1/4"-1/4" ; 90cm 120cm 150cm

MANIFOLD GAUGE

VMG-1-U-H/VMG-1-U-L

Accurate Single Gauge

(Anti-collision series)

Suit for R410A, R407C, R134a, R12, R22 refrigerant

VMG-1-U-H

VMG-1-U-L

**Accurate
Anti-collision**



- Pressure gauge with high precision movement, precision grade 1.6
- High strength rubber cover, fully anti-collision
- The gauge handle with metal insert design, increase the strength

Model	VMG-1-U-H	VMG-1-U-L
Gauge Diameter	60mm	60mm
Pressure Scale	-30ingh~800psi	-30ingh~500psi

REFRIGERANT TUBE

VRP-U-R/VRP-U-Y/VRP-U-B

High Strength Refrigerant Tube

(General refrigerant series)

Suit for R410A, R134a, R12, R22 refrigerant

VRP-U-R

VRP-U-Y

VRP-U-B



High strength

- General: Suit for R410A, R134a, R12, R22 refrigerant
- Safe: Rubber tube wall is thickened and the diameter up to 12mm, to ensure the safety and reliability during the use
- Anti-leakage: High oil resistances, anti-leakage, reach to RMA-A leve

Model	VRP-U-R	VRP-U-Y	VRP-U-B
Pressure Scale	~800psi	~800psi	~800psi
Connector Size	R410A	1/4"-5/16"	1/4"-5/16"
	R134a R22 R22	1/4"-1/4"	1/4"-1/4"
Length		90cm	120cm 150cm

FLARING TOOLS

VET-19C-F

Electrical Flaring Tool

VET-19C-F (220V/50Hz)

New **Accurate Measurement**



- Axial spacing to sure the accurate size
- Using 220V /50HZ power supply, fast flaring in 10 seconds
- Innovative patent clamping structure for convenient flaring
- Steel ball positioning, more convenient for operation

Model	VET-19C-F
Applicable pipe	Copper Pipe
Tube O.D.	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Power Supply	220V/50Hz
Weight	5.6 Kg

FLARING TOOLS

VET-19-F

Electrical Flaring Tool

VET-19-F

New



- Chinese patent
- 5-second fast and accurate flaring
- Unlimited by environment condition
- Flaring bar self centering design, easy use

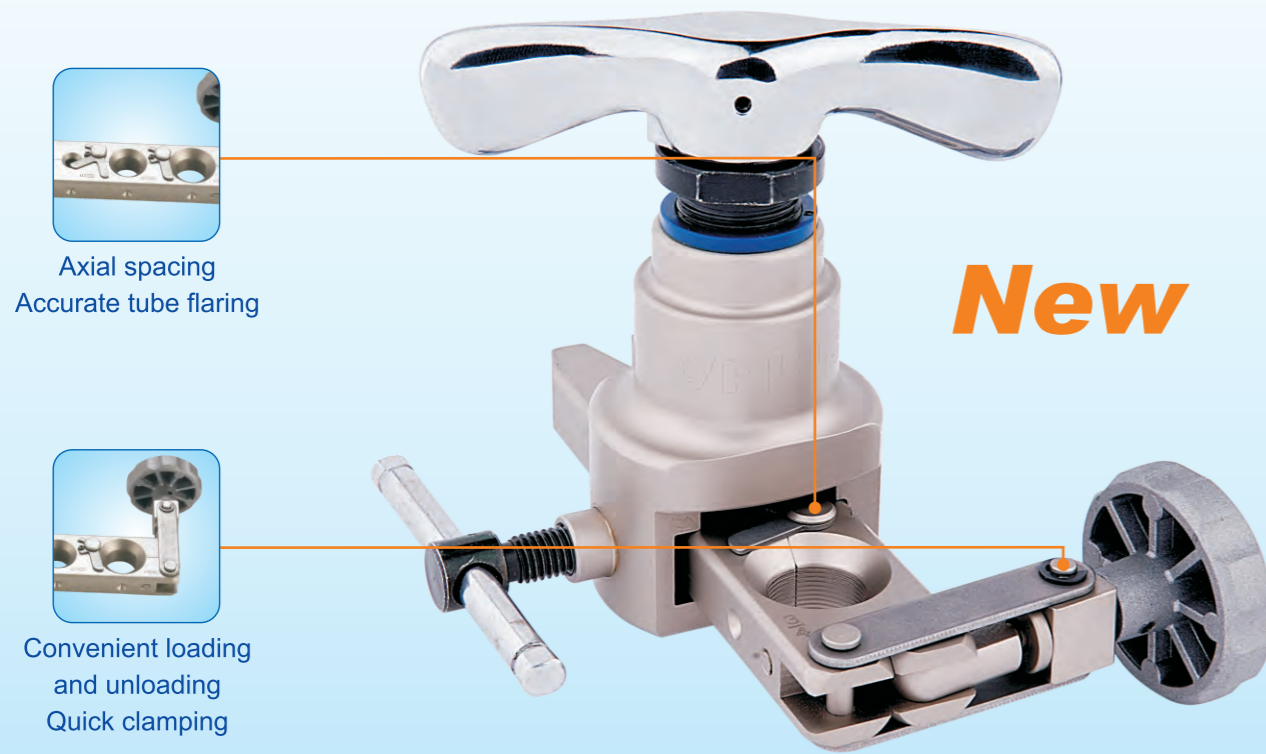


Model	VET-19-F
Tube O.D.	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Weight	6.2 Kg

FLARING TOOLS

VFT-808C

R410A Flaring Tool VFT-808C



Axial spacing
Accurate tube flaring

• Chinese patent

- Axial spacing to sure the accurate size
- Innovative Patent Clamping structure for convenient operation
- Innovative design, operating more humane

Model	VFT-808C
Applicable pipe	Copper Pipe
Tube O.D.	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"

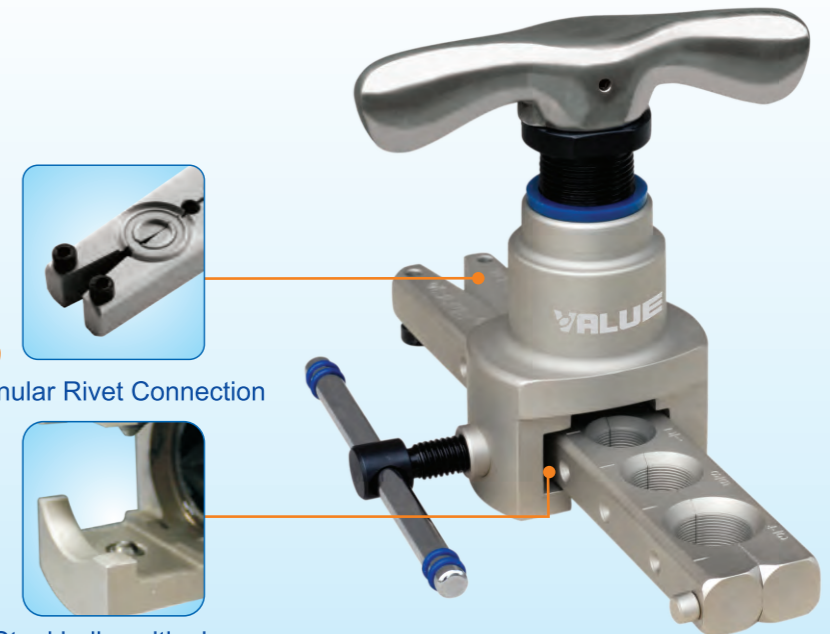
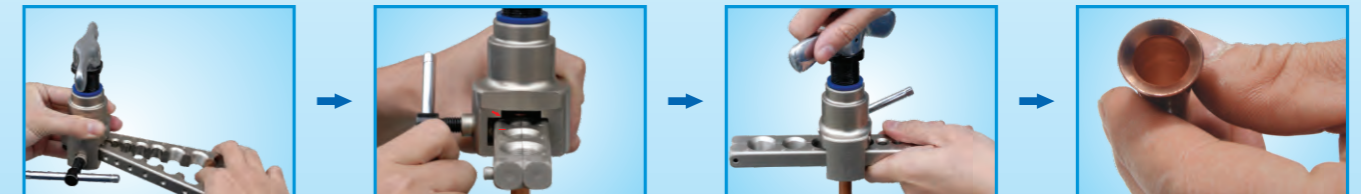
FLARING TOOLS

VFT-808

Flaring Tool VFT-808

Accurate tube flaring

• Chinese patent



VFT-808-MI



VFT-808-MIS



Model	Tube O.D.	Cutter Model
VFT-808-MI	6,8,10,12,16,19mm 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	VTC-28B
VFT-808-MIS	6,8,10,12,16,19mm 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	

TUBE CUTTER

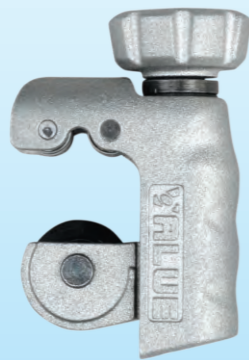
VTC-19/28/28B/32/42

Sharp Tube Cutter

VTC-28B/32/42



VTC-19/28



- Grinding blade, uses high-quality alloy tool steel, Grinding process.
- Unique ball bearing design. Easy cutting.

• **Chinese patent**



Item No.	Description
VTC-19	For 1/8" ~3/4" (3~19mm)
VTC-28	For 1/8" ~1-1/8" (4~28mm)
VTC-28B	For 1/8" ~1-1/8" (4~28mm)
VTC-32	For 1/8" ~1-1/4" (4~32mm)
VTC-42	For 1/4" ~1-5/8" (6~42mm)

TUBE EXPANDERS

VST-22

Tube Expanders

VST-22

Innovative invention patent, using the most simple structure for brass pipe expanding

New

Easy to carry

• **Patent for invention**



Model	Tube O.D.
VST-22	3/8" , 1/2" , 5/8" , 3/4" , 7/8"

INTEGRATED TOOLS KIT

VTB-5B-I

Integrated Tool Box VTB-5B-I



Item No.	Spare Part	Description	Quantity
VTB-5B-I	Flaring Tool	VFT-808-I	1set
	Tube Cutter	VTC-28B	1pc
	Tube Cutter	VTC-19	1pc
	Manifold Gauge	VMG-2-R410A	1set
	Scraper	VTT-5	1pc
	PVC Box	Box	1pc



VFT-808-IS



VFT-808-MIS

Item No.	Tube O.D.		Tube Cutter
	Flare		
VFT-808-IS	1/4" , 5/16" , 3/8" , 1/2" , 5/8" , 3/4"		VTC-28B
VFT-808-MIS	Universal: 6, 8, 10, 12, 16, 19 mm 1/4" , 5/16" , 3/8" , 1/2" , 5/8" , 3/4"		

