



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



**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](mailto:value@worldvalue.cn)

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

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



**PROFESSIONAL MANUFACTURER**

Founded in 1996, Value specializes in research, development and manufacture of vacuum pumps, and produces 250,000 rotary-vane vacuum pumps and 20,000 recovery units annually. The company has 48 senior engineers and the most advanced stream line, and provide customers with high cost-performance products.

**QUALITY ASSURANCE**

We have Japanese OKUMA vertical machining centers, German WENZEL 3D measuring machine, constant temperature and humidity assembly workshop, digital machine tools and Helium leakage detectors, etc. All these ensure the high quality of our products.



**INNOVATION**

Value has gained TÜV ISO9001:2000 quality system certification, CSA, UL, and CE product security certification, owning 30pcs Chinese patent.

**GLOBAL SERVICE**

Our products are popular in 63 countries and regions around the world, such as the United States, Japan and European Union. And we supply products to 10 Fortune 500 companies.

Our products can meet different voltages such as 220-240V/50-60Hz, 380V/50Hz, 115V/60Hz, 100V/50-60Hz, etc.



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## VACUUM PUMPS

iPump SERIES

### NEW REFRIGERANT

New Refrigerant Series vacuum pumps especially for R410A, R407C, etc..

# iPump

High Ultimate Vacuum

15 micron

2~8 CFM



## VACUUM PUMPS

iPump SERIES



- High accuracy vacuum gauge shows system pressure.



- Innovative solenoid valve design of 100% preventing oil-returning, especially suitable for R410A new refrigerant.



- Integrated pump body structure, 15 micron of ultimate vacuum.



- Big sight glass, low oil level and forced-feed oil design to avoid running without oil and ensure reliable use.

### Single Stage

Item No .		V-i120SV	V-i140SV	V-i160SV	V-i180SV
Flow Rate	50 Hz	1.8 CFM	3.5 CFM	5.0 CFM	7.0 CFM
		51 l/min	100 l/min	142 l/min	198 l/min
	60 Hz	2.0 CFM	4.0 CFM	6.0 CFM	8.0 CFM
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	318×124×265	338×138×275	395×145×318
Weight		6.7 kg	8.6 kg	10.3 kg	15.4 kg

\* Weight: according to the motor 220V only.

### Dual Stage

Item No .		V-i220SV	V-i240SV	V-i260SV	V-i280SV
Flow Rate	50 Hz	1.8 CFM	3.5 CFM	5.0 CFM	7.0 CFM
		51 l/min	100 l/min	142 l/min	198 l/min
	60 Hz	2.0 CFM	4.0 CFM	6.0 CFM	8.0 CFM
Ultimate Vacuum	Partial Pressure	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> 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	460 ml	500 ml
Dimensions(mm)		318×124×265	338×138×275	395×145×318	395×145×318
Weight		9.0 kg	11.0 kg	16.6 kg	17.0 kg

\* Weight: according to the motor 220V only.

## VACUUM PUMPS

VE N SERIES / STANDARD VERSION

### Totally Upgrade

### VE N Series

More Reliable,  
Higher Ultimate Vacuum

15 micron

2~10 CFM



### Single Stage

Item No.	VE115N	VE125N	VE135N	VE160N	VE180N	
Flow Rate	50 Hz	1.8CFM	2.5 CFM	3.5 CFM	6 CFM	8 CFM
		51 l/min	70 l/min	100 l/min	170 l/min	226 l/min
	60 Hz	2.0 CFM	3.0 CFM	4.0 CFM	7.0 CFM	9.0 CFM
		57 l/min	84 l/min	113 l/min	198 l/min	254 l/min
Ultimate Vacuum	2 Pa	2 Pa	2 Pa	2 Pa	2 Pa	
	150 micron	150 micron	150 micron	150 micron	150 micron	
Power	1/4 HP	1/4 HP	1/3 HP	1/2 HP	3/4 HP	
Inlet Port	1/4 " Flare	1/4 " Flare	1/4 " & 3/8 " Flare	1/4 " & 3/8 " Flare	1/4 " & 3/8 " Flare	
Oil Capacity	250 ml	250 ml	250 ml	415 ml	660 ml	
Dimensions(mm)	290×124×224	290×124×224	318×124×234	338×138×244	395×145×257	
Weight	6.6 kg	7.1 kg	8.0 kg	9.9 kg	14.6 kg	

### Dual Stage

Item No.	VE215N	VE225N	VE245N	VE260N	VE280N	VE2100N	
Flow Rate	50 Hz	1.5 CFM	2.5 CFM	4.5 CFM	6 CFM	8 CFM	10 CFM
		42 l/min	70 l/min	128 l/min	170 l/min	226 l/min	283 l/min
	60 Hz	1.8 CFM	3 CFM	5 CFM	7 CFM	9 CFM	12 CFM
		50 l/min	84 l/min	142 l/min	198 l/min	254 l/min	340 l/min
Ultimate Vacuum	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	
	15 micron	15 micron	15 micron	15 micron	15 micron	15 micron	
Power	1/4HP	1/3HP	1/2HP	3/4HP	1HP	1HP	
Inlet Port	1/4 " Flare	1/4 " Flare	1/4 " & 3/8 " Flare	1/4 " & 3/8 " Flare	1/4 " & 3/8 " Flare	1/4 " & 3/8 " Flare	
Oil Capacity	200 ml	200 ml	325 ml	580 ml	500 ml	590 ml	
Dimensions(mm)	308×124×224	318×124×234	338×138×244	395×145×257	395×145×257	395×145×257	
Weight	7.5 kg	8.5 kg	10.4 kg	15.8 kg	16.2 kg	16.7kg	

## VACUUM PUMPS

VE N SERIES / DUAL VOLTAGE SERIES

### DUAL VOLTAGE

110~220V | 50~60Hz

#### Power plug

---make this connection with different power plugs easy.

#### Power supply conversion switch

---make sure this switch is set on the right place before operating: 110V or 220V.



It's New



### Dual Stage

Item No.	VE215ND	VE225ND	VE245ND	
Flow Rate	50 Hz	1.5 CFM	2.5 CFM	4.5 CFM
		42 l/min	70 l/min	128 l/min
	60 Hz	1.8 CFM	3.0 CFM	5.0 CFM
		50 l/min	84 l/min	142 l/min
Ultimate Vacuum	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	
	15 micron	15 micron	15 micron	
Power	1/4HP	1/3HP	1/2HP	
Inlet Port	1/4 " Flare	1/4 " Flare	1/4 " & 3/8" Flare	
Oil Capacity	200 ml	200 ml	325 ml	
Dimensions(mm)	318×124×234	318×124×234	338×138×244	
Weight	8.5 kg	8.5 kg	10.4 kg	

Item No.	VE260ND	VE280ND	VE2100ND	
Flow Rate	50 Hz	6 CFM	8 CFM	10 CFM
		170 l/min	226 l/min	283 l/min
	60 Hz	7 CFM	9 CFM	12 CFM
		198 l/min	254 l/min	340 l/min
Ultimate Vacuum	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	2×10 <sup>-1</sup> Pa	
	15 micron	15 micron	15 micron	
Power	3/4HP	1HP	1HP	
Inlet Port	1/4 " & 3/8" Flare	1/4 " & 3/8" Flare	1/4 " & 3/8" Flare	
Oil Capacity	580 ml	500 ml	590 ml	
Dimensions(mm)	395×145×257	395×145×257	395×145×257	
Weight	15.8 kg	16.2 kg	16.7 kg	

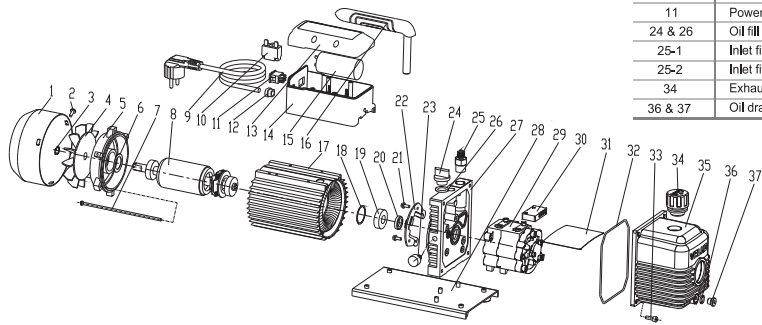


# ICONOGRAPH

## ICONOGRAPH

### Exploded View for iPumpSeries

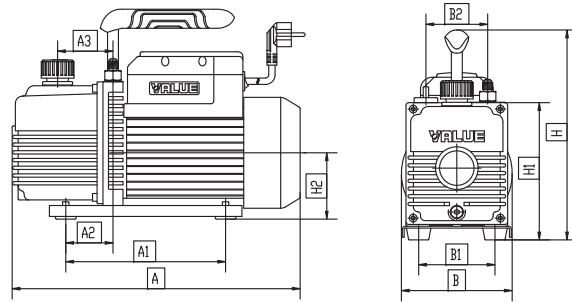
### Spare Parts For iPump Series



Part No.	Description
10	Thermal protector
11	Power switch
24 & 26	Oil fill cap & O-ring
25-1	Inlet fitting cap 1/4"
25-2	Inlet fitting cap 3/8"
34	Exhausting and oil inlet fitting
36 & 37	Oil drain plug & O-ring

1	Fan cover	11	Power switch	21	Cross screw	31	Anti-oil plate
2	Cross screw	12	Insulating bushing	22	Centrifugal switch base	32	O-ring
3	Elastic collar	13	Junction box cover	23	Gas ballast (2 stage only)	33	Screw
4	Fan	14	Junction box	24	Oil fill cap	34	Exhausting and oil inlet fitting
5	Motor cover	15	Capacitor	25	Inlet fitting	35	Oil housing assy.
6	Gasket	16	Handle	26	O ring	36	O-ring
7	Cross screw	17	Motor stator assy.	27	Trestle	37	Oil drain plug
8	Motor rotor	18	Gasket	28	Base		
9	Power supply cord	19	Bearing	29	Pump body		
10	Thermal protector	20	Seal	30	Anti-oil cover		

### Dimensional Drawing



Model	A	A1	A2	A3	B	B1	B2	H	H1	H2
VE115N	290	118	30	50	124	76	—	224	141	71
VE125N	290	118	30	50	124	76	—	224	141	71
VE135N	318	144	40	61	124	84	68	234	154	76
VE160N	338	144	40	61	138	84	74	244	166	78
VE180N	395	174	66	85	145	99	74	257	179	86
VE215N	308	118	30	50	124	76	—	224	141	71
VE225N	318	144	40	61	124	84	68	234	154	76
VE245N	338	144	40	61	138	84	74	244	166	78
VE260N	395	174	66	85	145	99	74	257	179	86
VE280N	395	174	66	85	145	99	74	257	179	86
VE2100N	395	174	66	85	145	99	74	257	179	86

# VACUUM PUMPS

## PUMP SELECTION

### 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 poured back 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 CFM, 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
Applicable equipment	household refrigerator	Central air-conditioning
	household air-conditioning	Large household air-conditioning
	Car air-conditioning	bus air-conditioning
		large refrigerated warehouse

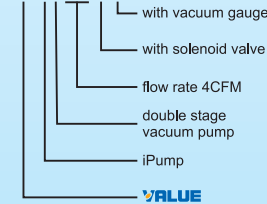
#### Ultimate vacuum

Ultimate vacuum means the capacity of removing moisture. Dimension 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.










Ultimate vacuum	Single Stage	Dual Stage
	2Pa	$2 \times 10^{-1}$ Pa
Applicable equipment	household air-conditioning	Central air-conditioning
	Car air-conditioning	large refrigerated warehouse
	Refrigerator	

### Vacuum pump selection table

#### V-i240SV



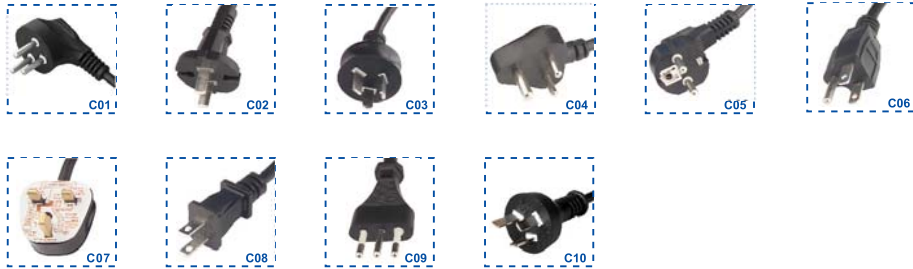
1L/S=2,12CFM

Adapt for old refrigerant			Adapt for all refrigerant (including R22, R410A etc..)	
household air-conditioning household refrigerator Car air-conditioning	Large household air-conditioning bus air-conditioning	Central air-conditioning large refrigerated warehouse	household air-conditioning	Central air-conditioning Large household air-conditioning
				
VE115N	VE160N	VE245N	V-i140SV(2L/S)	V-i240 SV(2L/S)
				
VE135N	VE180N	VE280N		V-i280 SV(4L/S)
150 micron	150 micron	15 micron	150 micron	15 micron

## ACCESSORIES

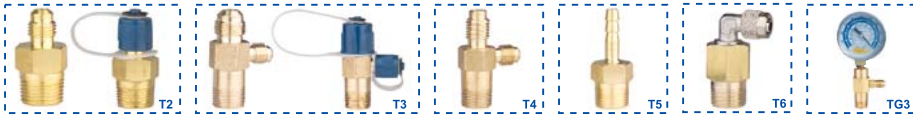
### PLUG/ADAPTER

#### 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	Item	Description
T2	1/4" SAE	T5	1/4" Tube
T3	1/4" SAE 3/8" SAE	T6	1/4" Tube (Locked with M12x1 nut)
T4	1/4" SAE 1/2" Acme	TG3	1/4" SAE Vacuum Gauge

## ACCESSORIES

### VACUUM PUMP OIL

#### Vacuum Pump Oil

330ml (11.5 Oz)

500ml (18 Oz)



**VALUE, Using SHELL Vacuum Pump Oil!  
SHELL's Global Strategic Partner!**

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 <sup>2</sup> /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

# INDUSTRIAL VACUUM PUMPS

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



# INDUSTRIAL VACUUM PUMPS

VRD SERIES

## Dual Stage

## It's New



**HIGH RELIABILITY**

Model		VRD-4	VRD-8	VRD-16	VRD-24	VRD-30	VRD-40	VRD-60
Displacement speed m <sup>3</sup> /h (CFM)	50 Hz	4 (2.4)	8 (4.7)	16 (9.4)	24 (14.1)	30 (17.6)	50 (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 (mbar)	Partial Pressure	5 × 10 <sup>-2</sup>	5 × 10 <sup>-2</sup>	5 × 10 <sup>-2</sup>	5 × 10 <sup>-2</sup>	5 × 10 <sup>-2</sup>	5 × 10 <sup>-2</sup>	5 × 10 <sup>-2</sup>
	Total Pressure	5 × 10 <sup>-1</sup>	5 × 10 <sup>-1</sup>	5 × 10 <sup>-1</sup>	5 × 10 <sup>-1</sup>	5 × 10 <sup>-1</sup>	5 × 10 <sup>-1</sup>	5 × 10 <sup>-1</sup>
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)	2.2 (single/3-ph)	2.2 (single/3-ph)
Inlet and outlet port DN(mm)		16KF	16KF	25 KF	25 KF	25 KF	40 KF	40 KF
Oil capacity (L)		0.26~0.35	0.45~0.55	0.9~1.5	1.3~2.0	1.3~2.0	1.8~3.0	1.8~3.0
Motor speed (rpm)	50 Hz	1440	1440	1440	1440	1440	1440	1440
	60 Hz	1720	1720	1720	1720	1720	1720	1720
Ambient temperature (°C)		10~40	10~40	10~40	10~40	10~40	10~40	10~40
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	32	35	43	65	76

## VRD POWER SUPPLY TABLE

Model	VRD-4	VRD-8	VRD-16	VRD-24	VRD-30	VRD-40	VRD-60
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

#### VRR12L

- One-key operation, easy to use.
- Equipped with high pressure protection.
- Oil-less compressor.
- 13.5kg only, easy to carry.
- 3/4 HP motor.



13.5kg

#### VRR24L

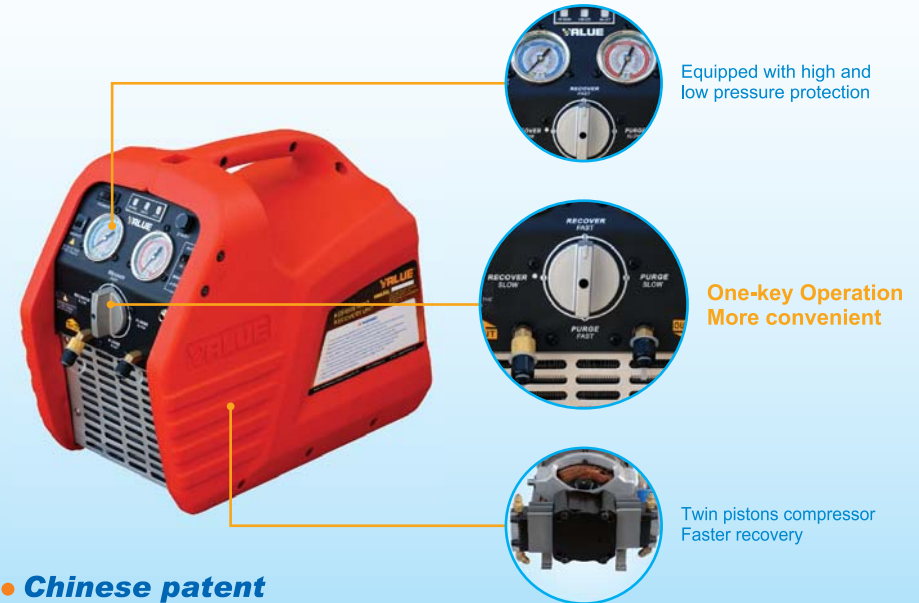
- One-key operation, easy to use.
- Equipped with high, low pressure protection.
- 80% over filling protection.
- Twin piston, oil-less compressor, faster recovery.
- 1 HP motor.



## MINI REFRIGERANT RECOVERY UNIT

VRR12L / VRR24 L

### LIGHTER · FASTER



- Chinese patent

### SPECIFICATIONS

Model	VRR12L			VRR24L			
Refrigerants	Category III: R12, R134a, R401C, R406A, R500 Category IV: R22, R401A, R401B, R402B, R407C, R407D, R408A, R409A, R411A, R411B, R412A, R502, R509 Category V: R402A, R404A, R407A, R407B, R410A, R507						
Power Supply	230V/50-60 Hz, 115V/60 Hz, 100V/50-60 Hz			230V/50-60 Hz, 115V/60 Hz, 100V/50-60 Hz			
Motor	3/4 HP			1 HP			
Motor Speed	1450 rpm @50 Hz, 1750 rpm @60 Hz			1450 rpm @50 Hz, 1750 rpm @60 Hz			
Maximal Current Draw	4A @ 220V, 8A @ 100V / 110V			5A @ 220V, 10A @ 100V / 110V			
Compressor	Oil-less, Air-cooled, 1 Piston style			Oil-less, Air-cooled, 2 Piston style			
Automatic safety Shut-Off	38.5 bar / 3850 kPa (558 psi)			38.5 bar / 3850 kPa (558 psi)			
Recovery Rate (kg/min)	Category III	Category IV	Category V	Category III	Category IV	Category V	
	Vapor	0.23	0.25	0.26	0.46	0.50	0.52
	Liquid	1.57	1.8	2.2	2.73	3.12	3.38
	Push/pull	4.64	5.57	6.22	7.47	8.37	9.95
Operating Temperature	0°C ~ 40°C			0°C ~ 40°C			
Dimensions	400 mm × 250 mm × 355 mm			400 mm × 250 mm × 355 mm			
Weight	13.5 kg			14.8 kg			

\* For ARI certified ratings, please refer to [www.aridirectory.org](http://www.aridirectory.org)



## REFRIGERANT RECOVERY UNIT

VRR12A / VRR12C

### VRR12A



Filter drier



10cm(4 ")  
connection hose



- Economical recovery with 1/2 HP, oil-less compressor
- Suitable for all commonly used refrigerants including R410A
- ARI & CE certification approved

### VRR12C

#### • 80% overfilling protection

The unit will automatically stop when the weight of recovered refrigerant it 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

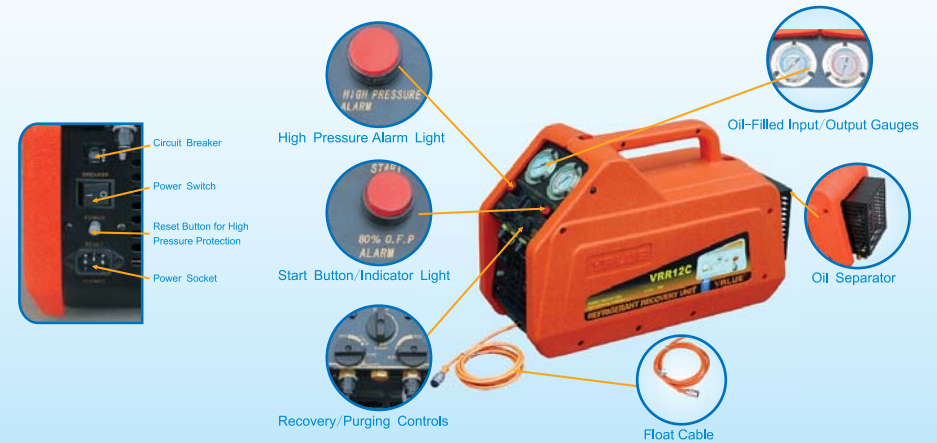
Purification and recycling of the refrigerants.



## REFRIGERANT RECOVERY UNIT

VRR12A / VRR12C

### PARTS DIAGRAM VRR12C



### SPECIFICATIONS

Refrigerants		Category III: R12, R134a, R401C, R406A, R500 Category IV: R22, R401A, R401B, R402B, R407C, R407D, R408A, R409A, R411A, R411B, R412A, R502, R509 Category V: R402A, R404A, R407A, R407B, R410A, R507				
<b>Power Supply</b>		220V/50Hz	230V/50-60Hz	115V/60Hz	100V/50-60Hz	110-220V/50-60Hz
<b>Motor</b>		1/2 HP				
<b>Motor Speed</b>		1450 rpm @ 50 Hz			1750 rpm @ 60 Hz	
<b>Maximal Current Draw</b>		4A @ 220V			8A @ 100V / 110V	
<b>Compressor</b>		Oil-less, Air-cooled, Piston style				
<b>Automatic safety Shut-Off</b>		38.5 bar / 3850 kPa (558 psi)				
<b>Recovery Rate (kg/min)</b>		Category III	Category IV	Category V		
	<b>Vapor</b>	0.23	0.25	0.26		
	<b>Liquid</b>	1.57	1.8	2.2		
	<b>Push/pull</b>	4.64	5.57	6.22		
<b>Operating Temperature</b>		0°C ~ 40°C				
<b>Dimensions</b>		500 mm × 220 mm × 340 mm				
<b>Weight</b>		16 kg				

\* For ARI certified ratings, please refer to [www.aridirectory.org](http://www.aridirectory.org)

## REFRIGERANT RECOVERY UNIT

VRR24 A / VRR24C

### VRR24A / VRR24C

## Powerful

### FASTER RECOVERY

- 1 HP motor, Twin pistons 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



### SPECIFICATIONS

Refrigerants	Category III: R12, R134a, R401C, R406A, R500			
	Category IV: R22, R401A, R401B, R402B, R407C, R407D, R408A, R409A, R411A, R411B, R412A, R502, R509			
	Category V: R402A, R404A, R407A, R407B, R410A, R507			
Power Supply	230V/50~60Hz	115V/60Hz	100V/50~60Hz	
Motor	1 HP			
Motor Speed	1450 rpm @ 50 Hz	1750 rpm @ 60 Hz		
Maximal Current Draw	4A @ 220V	8A @ 100V / 110V		
Compressor	Oil-less, Air-cooled, Piston style			
Automatic safety Shut-Off	38.5 bar / 3850 kPa (558 psi)			
Recovery Rate (kg/min)		Category III	Category IV	Category V
	Vapor	0.46	0.5	0.52
	Liquid	2.99	3.25	3.51
	Push/pull	7.47	8.37	9.95
Operating Temperature	0°C ~ 40°C			
Dimensions (VRR24A)	515 mm × 245 mm × 360 mm			
Weight (VRR24A)	17 kg			

\* For ARI certified ratings, please refer to [www.aridirectory.org](http://www.aridirectory.org)

## REFRIGERANT RECOVERY UNIT

VRE12 P / STANDARD

### REFRIGERANT RECOVERY & RECYCLING & EVACUATION STATION

### VRE12P

- Chinese patent



### SPECIFICATIONS

Refrigerants	Recovery unit	Vacuum pump				
	Cat.III: R-12,R-134a,R-401C,R-406A,R-500 Cat.IV: R-22,R-401A,R-401B,R-402B,R-407C,R-407D, R-408A,R-409A,R-411A,R-412A,R-502,R-509 Cat.V: R-402A,R-404A,R-407A,R-407B, R-410A,R-507					
Power	110-120V 60Hz 220-240V 50Hz 220-240V 50~60Hz					
Motor	1/2HP	1/3HP				
Motor Speed	1450rpm @ 50Hz 1750rpm @ 60Hz					
Max Current	4A @ 50Hz 8A @ 60Hz	3.5A @ 50Hz 6.5A @ 60Hz				
Compressor	Oil-less, Air cooled, Piston style					
High Pressure Cut-Off	38.5bar/558psi					
Recovery Rate (kg/min)		Recovery unit			Vacuum pump	
	Vapor	Cat. III	Cat. IV	Cat. V		
	Liquid	0.23	0.25	0.26		
	Push/Pull	1.57	1.81	1.85		
	4.64	5.57	6.22			
Vacuum Pump				2 Stage		
Free Air Displacement				5 CFM		
Ultimate Vacuum				25 micron		
Oil Capacity				10.8 oz		
Operating Temp.	0-40°C					
	<b>VRE12P</b>					
Dimensions	460(L) × 400(W) × 420(H)mm					
Net Weight	36 kg					

## REFRIGERANT RECOVER/CHARGE SCALE

VES-50A/100A

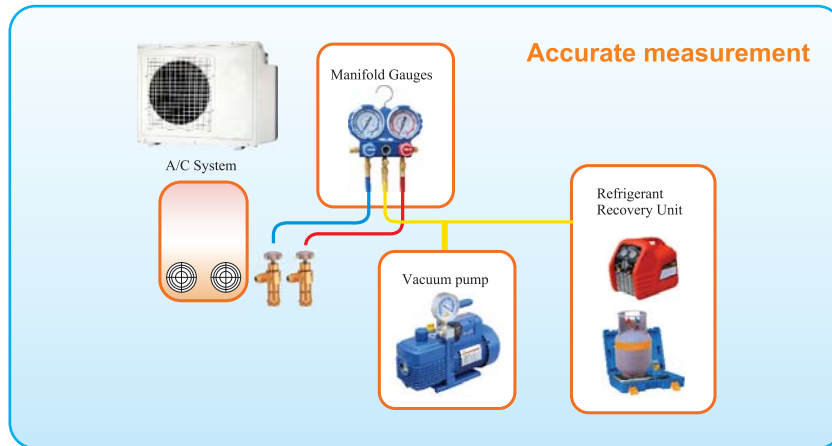
### ACCURATE MEASUREMENT VES-50A/VES-100A



## REFRIGERANT RECOVER/CHARGE SCALE

VES-50B/100B

### ACCURATE MEASUREMENT VES-50B/VES-100B



### SPECIFICATIONS

Model	VES-50A	VES-100A	VES-50B	VES-100B
<b>Weighing range</b>	50 kg (110lb)	100 kg (220lb)	50 kg (110lb)	100 kg (220lb)
<b>Resolution</b>	2g	5g	2g	5g
<b>Accuracy</b>	0.05%		0.05%	
<b>Display</b>	LCD(7 segment)		LCD(7 segment)	
<b>Power</b>	9V DC Power		9V DC Power and 100V~220V AC Power	
<b>Working Environment</b>	-10°C~40°C (14°F~104°F) ≤75%RH		-10°C~40°C (14°F~104°F) ≤75%RH	
<b>Platform Size</b>	237×237mm (9-1/3" × 9-1/3")		237×237mm (9-1/3" × 9-1/3")	
<b>Weight</b>	5 kg		5.8 kg	
<b>Anti-collision</b>	YES		YES	
<b>Buzzle Alarm</b>	YES		YES	
<b>Automatic Shut-off</b>	No		YES	

## MANIFOLD GAUGE

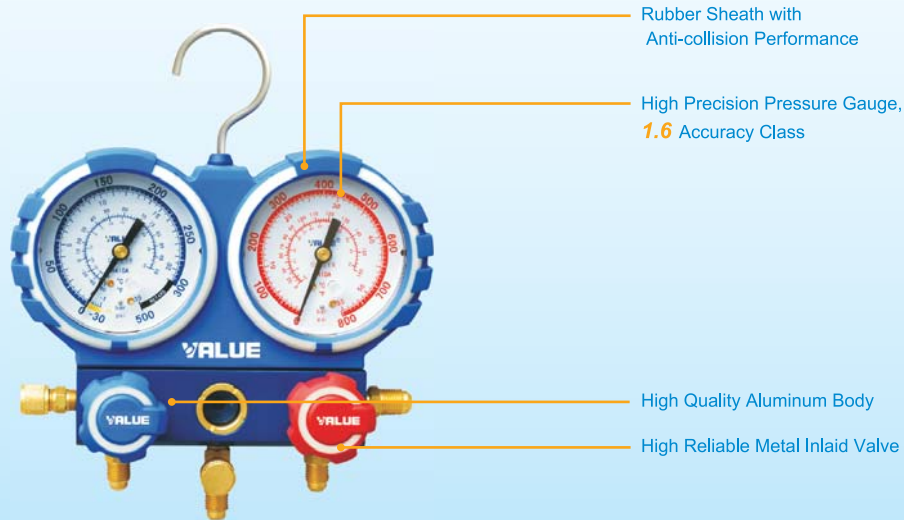
R410A MANIFOLD GAUGE

### ACCURATE·ANTI-COLLISION

VALUE's VMG series manifold gauge sets are designed with unique appearance, and can meet different requirements for various refrigerants

### VMG-2-R410A

• For New Refrigerant R410A



## MANIFOLD GAUGE

R410A MANIFOLD GAUGE

### Manifold Gauge for R410A



Model	VMG-2-R410A
Refrigerant	R410A
Gauge Diameter	80mm
Pressure Scale	0~800psi -30~500psi
Hose	Red: 150cm, 1/4", 5/16" Yellow: 150cm, 1/4", 1/4" Blue: 150cm, 1/4", 5/16"



Model	VMG-1-R410A-1
Refrigerant	R410A
Gauge Diameter	80mm
Pressure Scale	0~800psi
Hose	Red: 120cm, 1/4", 5/16" Yellow: 120cm, 1/4", 1/4"



Model	VMG-1-R410A-2
Refrigerant	R410A
Gauge Diameter	80mm
Pressure Scale	-30~500psi
Hose	Blue: 120cm, 1/4", 5/16" Yellow: 120cm, 1/4", 1/4"

### High Strength Refrigerant Hoses

Model	Image	Pressure Scale	Length	Connector Size
VRP-R410A-R		≤800psi	120cm	1/4"-5/16"
VRP-R410A-Y		≤800psi	120cm	1/4"-1/4"
VRP-R410A-B		≤800psi	120cm	1/4"-5/16"



## MANIFOLD GAUGE

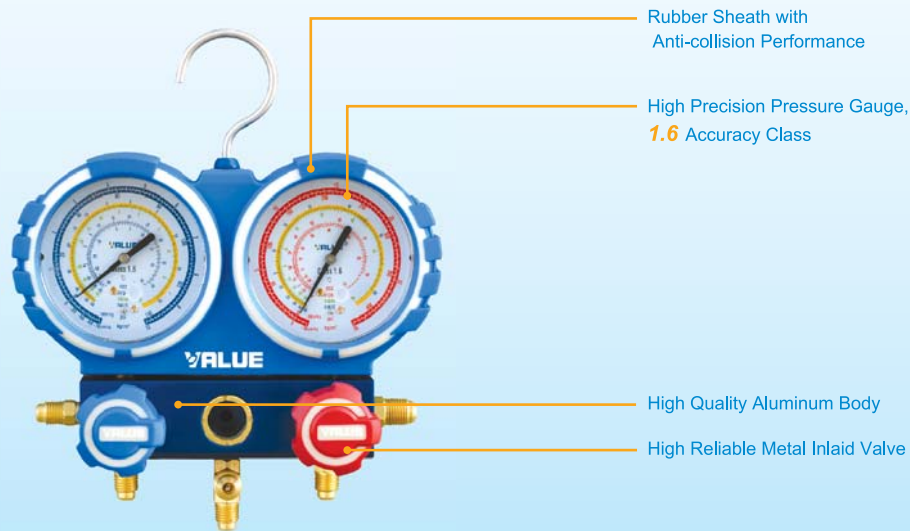
R134a MANIFOLD GAUGE

### ACCURATE·ANTI-COLLISION

VALUE's VMG series manifold gauge sets are designed with unique appearance, and meet different requirements for various refrigerants

### VMG-2-R134a

• For R22, R134a, R404A, R407C



## MANIFOLD GAUGE

R134a MANIFOLD GAUGE

### Manifold Gauge for R134a, R22, R404A, R407C



Model	VMG-2-R134a
Refrigerant	R22, R134a, R404A, R407C
Gauge Diameter	80mm
Pressure Scale	-30~400psi -30~140psi
Hose	Red: 120cm, 1/4", 1/4" Yellow: 120cm, 1/4", 1/4" Blue: 120cm, 1/4", 1/4"



Model	VMG-1-R134a-1
Refrigerant	R22, R134a, R404A, R407C
Gauge Diameter	80mm
Pressure Scale	-30~400psi
Hose	Red: 120cm, 1/4", 1/4" Yellow: 120cm, 1/4", 1/4"



Model	VMG-1-R134a-2
Refrigerant	R22, R134a, R404A, R407C
Gauge Diameter	80mm
Pressure Scale	-30~140psi
Hose	Blue: 120cm, 1/4", 1/4" Yellow: 120cm, 1/4", 1/4"

### High Strength Refrigerant Hoses

Model	Image	Pressure Scale	Length	Connector Size
VRP-R134a-R		≤600psi	120cm	1/4"-1/4"
VRP-R134a-Y		≤600psi	120cm	1/4"-1/4"
VRP-R134a-B		≤600psi	120cm	1/4"-1/4"

**FLARING TOOLS**

FLARING TOOL

45° Flaring Tools

**VFT-808**

• *Chinese patent*

**It's New**



**ACCURATE**



VFT-808-I

VFT-808-MI



Item No.	Tube O.D. Flare
VFT-808-I	3/16" , 1/4" , 5/16" , 3/8" , 1/2" , 5/8" , 3/4"
VFT-808-MI	Universal: 6, 8, 10, 12, 14, 16, 19 mm 3/16" , 1/4" , 5/16" , 3/8" , 1/2" , 5/8" , 3/4"

**FLARING TOOLS**

FLARING TOOL

Bearing · Type Flaring Tool

**VFT-809**

**It's New**



*Easy operation while space is tight  
Self-centering design, easy to use.*

VFT-809-I



Item No.	Tube O.D. Flare
VFT-809-I	1/4" , 3/8" , 1/2" , 5/8" , 3/4"

## FLARING TOOLS

FLARING TOOL

### ACCURATE · FASTER

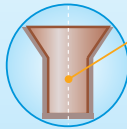
Electrical Flaring Tool

**VET-19-F**

It's New



Environmental Li-ion Battery  
LI-ION 1.5Ah



Precision Symmetry



● **Chinese patent**

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



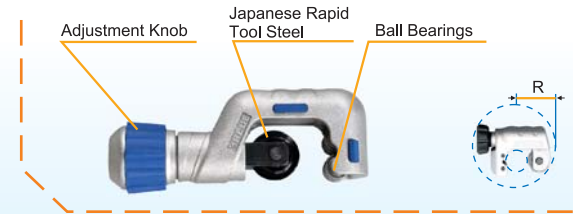
Item No.	Tube O.D.
VET-19-F	1/4" , 5/16" , 3/8" , 1/2" , 5/8" , 3/4"

## TUBE CUTTER

TUBE CUTTER

### 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)



# INTEGRATED TOOLS KIT

## 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



VFT-809-IS

Item No.	Tube O.D.	Tube Cutter
	Flare	
VFT-808-IS	3/16" , 1/4" , 5/16" , 3/8" , 1/2" , 5/8" , 3/4"	VTC-28B
VFT-808-MIS	Universal: 6, 8, 10, 12, 14, 16, 19 mm 3/16" , 1/4" , 5/16" , 3/8" , 1/2" , 5/8" , 3/4"	
VFT-809-IS	1/4" , 3/8" , 1/2" , 5/8" , 3/4"	

