

High Quality Refrigeration Tools and Equipments





High Quality Refrigeration Tools and Equipments

PROFESSIONAL MANUFACTURER

VALUE which is the global high quality refrigeration tools and equipments leader, was founded in 1996. The company covers an area of 26500m², with building area of 45000m². The annual production is 400,000 for rotary-vane vacuum pumps and 50,000 for recovery units. Right now, **VALUE** has become the largest manufacturer of refrigeration vacuum pump, recovery unit 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.



High Quality



VALUE



Refrigeration Tools and Equipments

VALUE

Excellent Quality Limitless Value

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 ISO9001:2008 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 commits to continuous investment in R&D and puts customers' requirements and needs in the first place. Now Value owns more than 60 national patents and takes lead in refrigeration Industry.

GLOBAL SERVICE

VALUE has built sound sales networks which cover more than 80 countries and regions in the world like Japan, United States, Europe and other regions. Meantime, we provide products and service for 10 companies which are fortune 500 enterprises world-wide.



FOCUS ON 2014

R32 REFRIGERANT
VACUUM PUMP
Vi240Y-R32



R32 REFRIGERANT
RECOVERY UNIT
VRR12M



LEAK DETECTOR
VLD-1

MANIFOLD GAUGE
VMG-4-R410A



DIGITAL GAUGE
VDG-S1



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REFRIGERATION TOOLS AND EQUIPMENTS

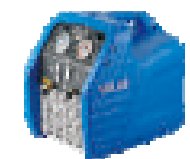
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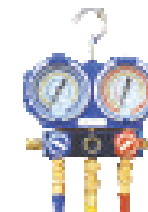
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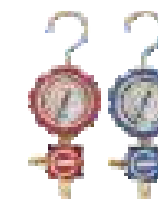
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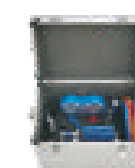
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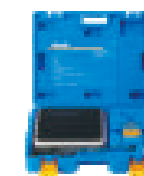
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VACUUM PUMP



2~10 CFM

TOTALLY UPGRADE

15micron



More Reliable, Higher Ultimate Vacuum

VE N SERIES



Forced oil cycling system



Integrated body structure



Big sight glass



Single Stage

Model		VE115N	VE125N	VE135N	VE160N	VE180N
Flow Rate	50 Hz	1.8 CFM	2.5 CFM	3.5 CFM	6.0 CFM	8.0 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	Partial Pressure	2 Pa	2 Pa	2 Pa	2 Pa	2 Pa
	Total Pressure	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		290×124×224 mm	290×124×224 mm	318×124×234 mm	338×138×244 mm	395×145×257 mm
Weight		6.6 Kg	7.1 Kg	8.0 Kg	9.9 Kg	14.6 Kg

Dual Stage

Model		VE215N	VE225N	VE245N	VE260N	VE280N	VE2100N
Flow Rate	50 Hz	1.5 CFM	2.5 CFM	4.5 CFM	6.0 CFM	8.0 CFM	10.0 CFM
		42 l/min	70 l/min	128 l/min	170 l/min	226 l/min	283 l/min
	60 Hz	1.8 CFM	3.0 CFM	5.0 CFM	7.0 CFM	9.0 CFM	12.0 CFM
		50 l/min	84 l/min	142 l/min	198 l/min	254 l/min	340 l/min
Ultimate Vacuum	Partial Pressure	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa	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	15 micron	15 micron
Power		1/4 HP	1/3 HP	1/2 HP	3/4 HP	1 HP	1 HP
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		308×124×224 mm	318×124×234 mm	338×138×244 mm	395×145×257mm	395×145×257 mm	395×145×257 mm
Weight		7.5 Kg	8.5 Kg	10.4 Kg	15.8 Kg	16.2 Kg	16.7 Kg

2~8 CFM

NEW REFRIGERANT

15micron



iPump SERIES

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



High accuracy vacuum gauge shows system pressure



Automatic anti-backflow valve design



Integrated body structure



Big sight glass for monitoring oil level



Single Stage

Model		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
		57 l/min	113 l/min	170 l/min	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		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

Model		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
		57 l/min	113 l/min	170 l/min	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		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

2~10 CFM

DUAL VOLTAGE

15micron



110~220V/50~60Hz

VE N SERIES

Power plug

-make this connection with different power plugs easily.

Power supply conversion switch

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



Dual Stage

Model		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	Partial Pressure	2×10^{-1} Pa	2×10^{-1} Pa	2×10^{-1} Pa
	Total Pressure	15 micron	15 micron	15 micron
Power		1/4 HP	1/3 HP	1/2 HP
Inlet Port		1/4"Flare	1/4"Flare	1/4"&3/8" Flare
Oil Capacity		200 ml	200 ml	325 ml
Dimensions		318×124×234 mm	318×124×234 mm	338×138×244 mm
Weight		8.5 Kg	8.5 Kg	10.4 Kg

Model		VE260ND	VE280ND	VE2100ND
Flow Rate	50 Hz	6.0 CFM	8.0 CFM	10.0 CFM
		170 l/min	226 l/min	283 l/min
	60 Hz	7.0 CFM	9.0 CFM	12.0 CFM
		198 l/min	254 l/min	340 l/min
Ultimate Vacuum	Partial Pressure	2×10^{-1} Pa	2×10^{-1} Pa	2×10^{-1} Pa
	Total Pressure	15 micron	15 micron	15 micron
Power		3/4 HP	1 HP	1 HP
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		395×145×257 mm	395×145×257 mm	395×145×257 mm
Weight		15.8 Kg	16.2 Kg	16.7 Kg

V-i115S-M V-i215S-M

NEW REFRIGERANT VACUUM PUMP

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

Specification

Model:	V-i115S-M	V-i215S-M
Flow Rate:	1.5 CFM	1.5 CFM
Partial Pressure:	2 Pa	2×10^{-1} Pa
Total Pressure:	150 micron	15 micron
Power:	1/5 HP	1/5 HP
Inlet Port:	1/4" Flare	1/4" Flare
Oil Capacity:	150 ml	110 ml
Dimensions:	240×88×183 mm	240×88×183 mm
Weight:	3.5 Kg	4 Kg



Smaller, lighter,
and more convenient

Only 4 Kg

V-i210H

Totally Upgrade

Specification

Model:	V-i210H
Flow Rate:	1.0 CFM
Partial Pressure:	2×10^{-1} Pa
Total Pressure:	15 micron
Power:	1/5 HP
Inlet Port:	1/4" Flare
Oil Capacity:	150 ml
Dimensions:	240×88×183 mm
Weight:	4 Kg



• Chinese patent



Both AC&DC
can be operated

R32 REFRIGERANT

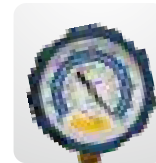
3.5~8CFM

15micron



Suit for R32 1234yf refrigerant

R32 pump series



Horizontal position
easy for reading



Integrated body structure



Enclosed switch

• Chinese patent



Dual Stage

Model		Vi240Y-R32	Vi260Y-R32	Vi280Y-R32
Flow Rate	50 Hz	3.5 CFM	5.0 CFM	7.0 CFM
		100 l/min	142 l/min	198 l/min
	60 Hz	4.0 CFM	6.0 CFM	8.0 CFM
Ultimate Vacuum	Partial Pressure	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa
	Total Pressure	15 micron	15 micron	15 micron
Power		1/ 2 HP	3/4 HP	1 HP
Inlet Port		7/16"Flare	7/16"Flare	7/16"Flare
Oil Capacity		325 ml	460 ml	500 ml
Dimensions		338×138×248 mm	395×145×270 mm	395×145×270 mm
Weight		11.0 Kg	16.6 Kg	17.0 Kg

R32 REFRIGERANT

12CFM

15micron



• Chinese patent



V-i2120

Non-sparking vacuum pump

Suit for R32,1234yf refrigerant

Specification

Model:	V-i2120
Flow Rate:	12 CFM
Total Pressure:	15 micron
Power:	1 HP
Inlet Port:	1/4" & 3/8" Flare
Oil Capacity:	500 ml
Dimensions:	345×135×280 mm
Weight:	11.5 Kg

Lighter, smaller&more convenient

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.



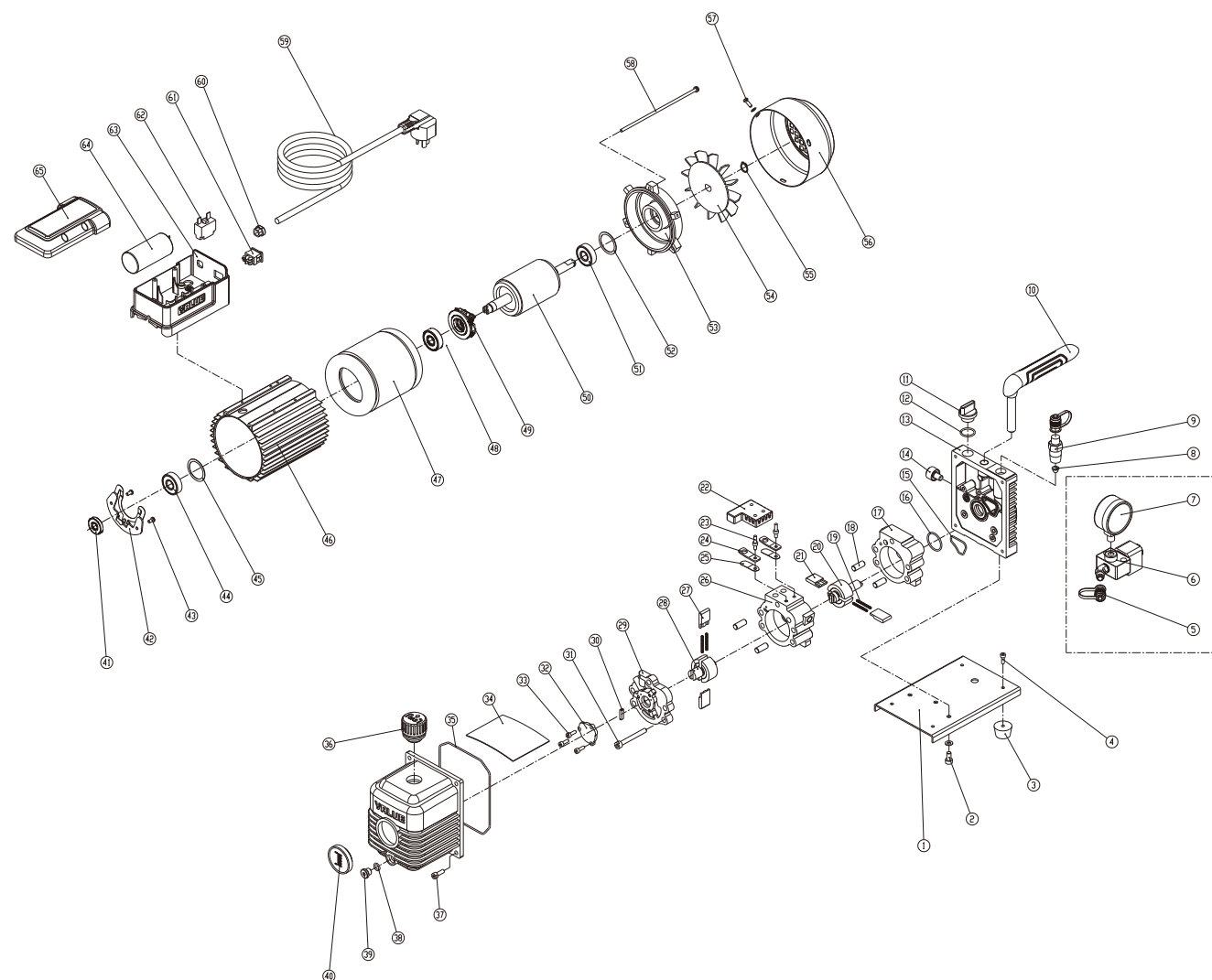
330ml(11.5 Oz) 500ml(18 Oz)

VPO-46

Kinematic viscosity (40°C): 41.4-50.6mm ² /s	Kinematic viscosity (40°C): 61.2-74.8mm ² /s
Viscosity index: 110	Viscosity index: 130
Flash point: 240°C	Flash point: 250°C
Pour point: -10°C	Pour point: -35°C
Type: Mineral oil	Type: Synthetic di-ester oil

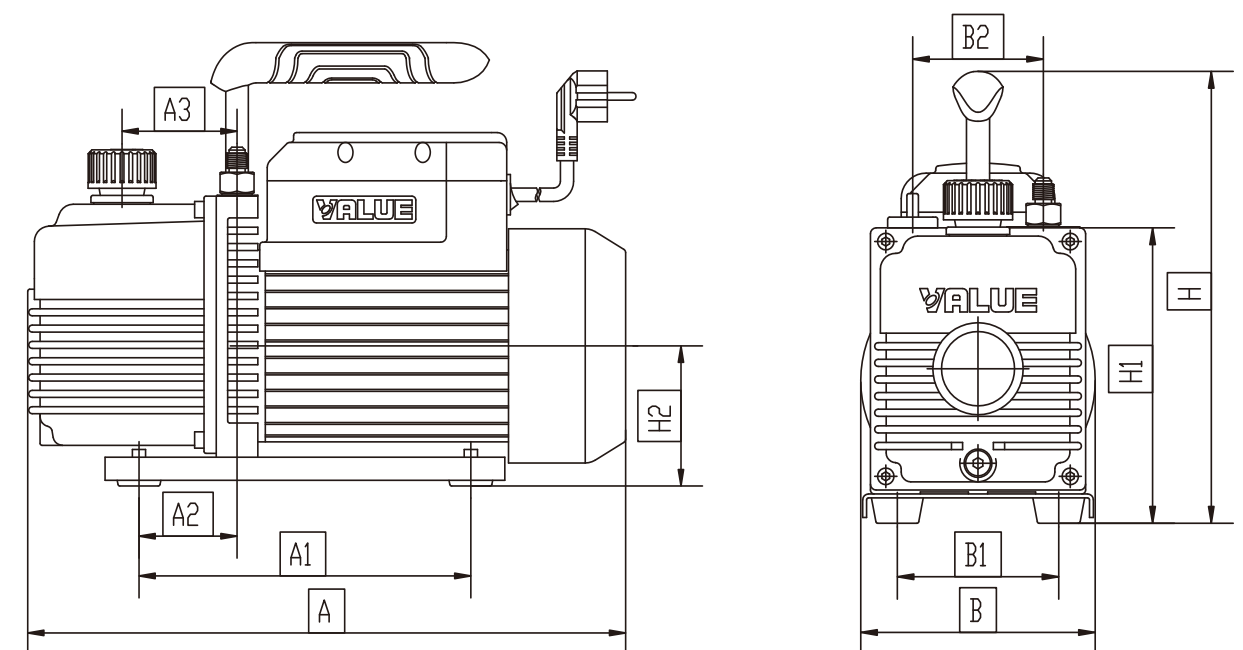
VPO-68

Exploded View For VE N Series



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

Dimensional Drawing



The dimension for VEN series pump(unit:mm)

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

AC Power Supply Plugs

Item	Description
C01	Israel plug
C02	China plug
C03	Australia plug
C04	South Africa plug
C05	Europe plug
C06	America plug
C07	Britain plug
C08	Japan plug
C09	Italy plug
C10	Argentina plug
C11	Brazil plug



C01



C02



C03



C04



C05



C06



C07



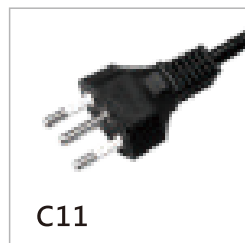
C08



C09



C10



C11

Intake Ports Adapters



T2



T3



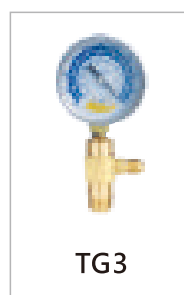
T4



T5



T6



TG3

Item	Description
T2	1/4"SAE
T3	1/4"SAE 3/8"SAE
T4	1/4"SAE 1/2"Acme
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

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	New Refrigerant
R410A	R407C	R22	R22	R32 1234yf
	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 old refrigerant			Adapt for all refrigerant (including R22,R410A,etc...)		Adapt for all refrigerant (including R32,1234yf)
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	Central air-conditioning Large household air-conditioning
 VE115N(1L/S)	 VE160N(3L/S)	 VE245N(2L/S)	 V-i140SV(2L/S)	 V-i240SV(2L/S)	 Vi240Y-R32 Vi260Y-R32 Vi280Y-R32
 VE135N(2L/S)	 VE180N(4L/S)	 VE280N(4L/S)	 V-i280SV(4L/S)	 V-i2120	
150 micron	150 micron	15 micron	150 micron	15 micron	15 micron



Work status indication lamps



One-key operation more convenient



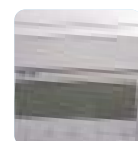
Start switch



Oil-less input/ Output gauge



Optional 80% over filled protection



Digital gauge



Work status indication lamps



One-key operation more convenient



Basket handle



Optional 80% over filled protection

R32 REFRIGERANT RECOVERY UNIT



VRR12M

Suit for R32 1234yf refrigerant

- One key operation, easy to use
- Digital gauge, easy to read
- Equipped with high, low pressure protection
- 80% over filling protection
- Self-purge function
- One-piston, brushless DC motor 3/4 HP



• Chinese patent

Smaller, lighter,
and more convenient

Only 7.8 Kg



VRR24M

Suit for R32 1234yf refrigerant

- One key operation, easy to use
- Digital gauge, easy to read
- Equipped with high, low pressure protection
- 80% over filling protection
- Self-purge function
- Two-piston, brushless DC motor 1 HP

Only 10 Kg

Specifications

Model		VRR12M			VRR24M		
Refrigerants		Category III: R-12, R-134a, R-401C, R-500, 1234yf					
		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, R32					
Power Supply		220-240V~/50-60Hz	115V~/60Hz		220-240V~/50-60Hz	115V~/60Hz	
Motor		Brushless DC motor 3/4 HP			Brushless DC motor 1 HP		
Motor Speed		3000rpm			3000rpm		
Maximal Current Draw		2.6A	5.5A		5A	9 A	
Compressor		Oil-less, Air-cooled, Piston style					
Automatic safety Shut-Off		38.5bar/3850kPa(558psi)					
Recovery Rate (Kg/min)		Category III	Category IV	Category V	Category III	Category IV	Category V
	Vapor	0.20	0.25	0.25	0.40	0.50	0.50
	Liquid	1.76	1.98	2.42	3.30	3.85	3.85
	Push/pull	4.60	5.60	6.30	7.50	8.50	9.50
Operating Temperature		0 °C~40 °C					
Dimensions		304×202×260 mm			380×250×360 mm		
Weight		7.8 Kg			10Kg		

VRR12L

Mini Recovery Unit

- One key operation, easy to use
- Equipped with high pressure protection
- Oil-less compressor
- Self-purge function
- 13.0Kg, easy to carry



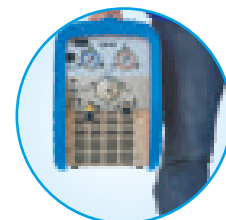
One Key Operation • Chinese patent



VRR12L-OS

- Oil separator device
- Purification and recycling of the refrigerants

One Key Operation



Specifications

Model	VRR12L		VRR12L-OS				
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	220-240V~/50-60Hz	115V~/60Hz	220-240V~/50-60Hz	115V~/60Hz			
Motor	3/4 HP	3/4 HP	3/4 HP	3/4 HP			
Motor Speed	1450rpm/1750rpm	1750rpm	1450rpm/1750rpm	1750rpm			
Maximal Current Draw	4 A	8 A	4 A	8 A			
Compressor	Oil-less, Air-cooled, Piston style						
Automatic safety Shut-Off	38.5bar/3850kPa(558psi)						
Recovery Rate (Kg/min)		Category III	Category IV	Category V	Category III	Category IV	Category V
	Vapor	0.20	0.25	0.25	0.20	0.25	0.25
	Liquid	1.60	1.80	2.20	1.60	1.80	2.20
	Push/pull	4.60	5.60	6.30	4.60	5.60	6.30
Operating Temperature	0 °C~40 °C						
Dimensions	400×250×355 mm						
Weight	13.0 Kg			14.2 Kg			

VRR24L

Mini Recovery Unit

- 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



Lighter • Faster

• Chinese patent



VRR24L-OS

- Oil separator device
- Purification and recycling of the refrigerants

Lighter • Faster

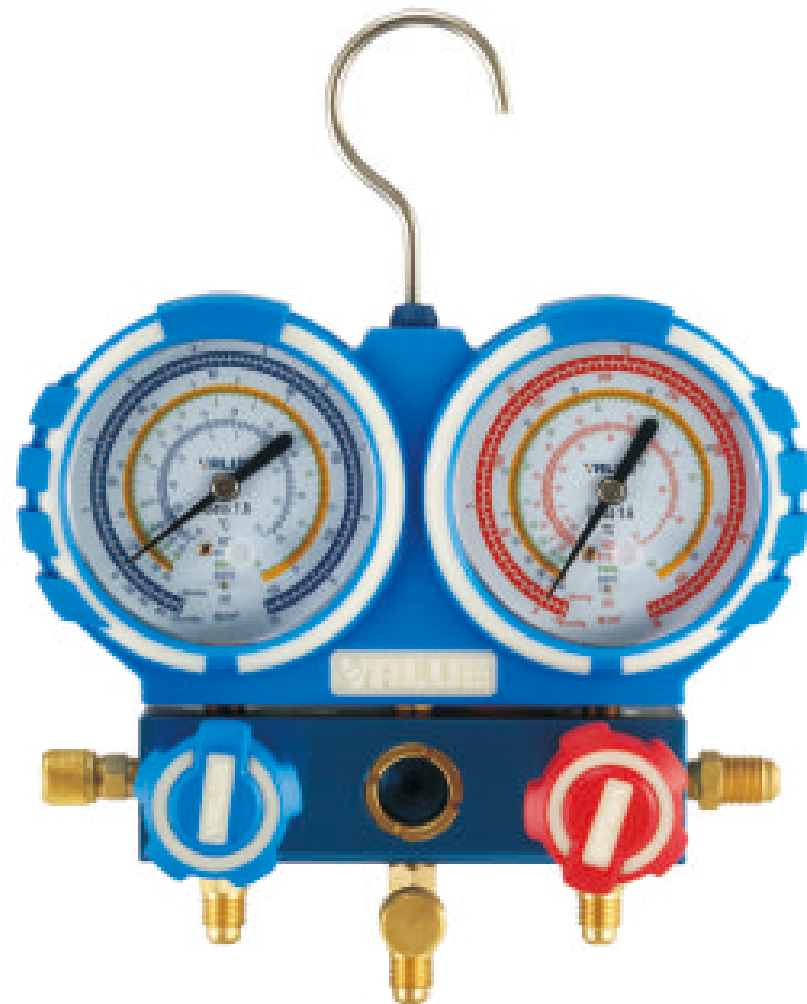
Specifications

Model	VRR24L			VRR24L-OS			
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	220-240V~/50-60Hz	115V~/60Hz	220-240V~/50-60Hz	115V~/60Hz			
Motor	1 HP	1 HP	1 HP	1 HP			
Motor Speed	1450rpm/1750rpm	1750rpm	1450rpm/1750rpm	1750rpm			
Maximal Current Draw	5 A	10 A	5 A	10 A			
Compressor	Oil-less, Air-cooled, Piston style						
Automatic safety Shut-Off	38.5bar/3850kPa(558psi)						
Recovery Rate (Kg/min)		Category III	Category IV	Category V	Category III	Category IV	Category V
	Vapor	0.40	0.50	0.50	0.40	0.50	0.50
	Liquid	3.00	3.50	3.50	3.00	3.50	3.50
	Push/pull	7.50	8.50	9.50	7.50	8.50	9.50
Operating Temperature	0 °C~40 °C						
Dimensions	450×250×355 mm						
Weight	13.5 Kg			14.7 Kg			

ANTI-COLLISION SERIES

Accurate Manifold Gauge

Suit for R410A、R134a、R12、R22、R407C、R404A



Special material sheath
with anti-collision performance



Metal-embedded designed valve
to increase strength



High precision pressure gauge
with class 1.6 accuracy



Φ12mm high-strength rubber tube
to ensure high reliability

VMG-2-R32

R32 Refrigerant manifold gauge

Gauge Diameter: Φ80mm



NEW

Model	VMG-2-R32
Refrigerants scale	R32
Gauge Diameter	Φ80 mm
Pressure Scale	0~800 psi; -30~500 psi
Hose	Red&Blue: 1/4"-5/16", 2×1pc Yellow: 1/4"-1/4", 1pc
Length	150cm
Package	Blow case

VMG-2-1234yf

1234yf Refrigerant manifold gauge

Gauge Diameter: Φ80mm



NEW

Model	VMG-2-1234yf
Refrigerants scale	1234yf
Gauge Diameter	Φ80 mm
Pressure Scale	0~130psi; 0~400psi
Hose	Red&Blue&Yellow: 1/4"-1/4", 3×1pc
Length	150 cm
Package	Blow case

VMG-2-R410A

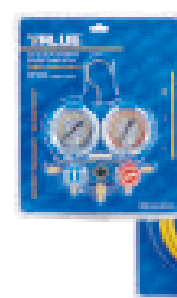
Gauge Diameter: Φ80mm



VMG-2-R410A



VMG-2-R410A-02



VMG-2-R410A-03



VMG-2-R410A-04



VMG-2-R410A-05

Model	VMG-2-R410A	VMG-2-R410A-02	VMG-2-R410A-03	VMG-2-R410A-04	VMG-2-R410A-05
Refrigerants scale	R410A	R410A/R407C/R22/R134a			R410A/R407C/R404A/R134a
Gauge Diameter		Φ80 mm			
Pressure Scale		0~800 psi; -30~500 psi			
Hose	Red&Blue: 1/4"-5/16", 2×1pc Yellow: 1/4"-1/4", 1pc	Red&Blue: 1/4"-5/16", 2×1pc Yellow: 1/4"-1/4", 1pc With 2pcs adapters	Red&Blue: 1/4"-5/16", 2×1pc Yellow: 1/4"-1/4", 1pc	/	Red&Blue: 1/4"-5/16", 2×1pc Yellow: 1/4"-1/4", 1pc
Length	90 cm 120 cm 150 cm				
Package	Blow case		Blister packing	Blister packing	Blister packing

VMG-2-R410A-B

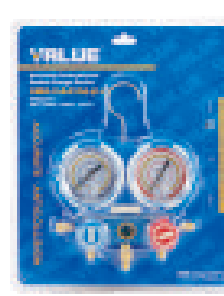
Gauge Diameter: Φ68mm



VMG-2-R410A-B



VMG-2-R410A-B-02



VMG-2-R410A-B-03

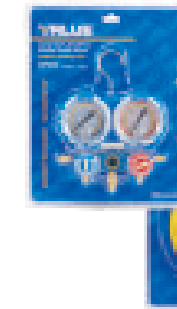
Model	VMG-2-R410A-B	VMG-2-R410A-B-02	VMG-2-R410A-B-03
Refrigerants scale	R410A/R407C/R22/R134a		
Gauge Diameter	Φ68 mm		
Pressure Scale	0~800 psi; -30~500 psi		
Hose	Red&Blue: 1/4"-5/16", 2×1pc Yellow: 1/4"-1/4", 1pc		/
Length	90 cm 120 cm 150 cm		/
Package	Blow case	Blister packing	Blister packing

VMG-2-R22

Gauge Diameter: Φ80mm



VMG-2-R22



VMG-2-R22-02



VMG-2-R22-03

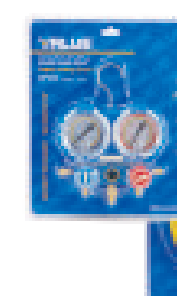
Model	VMG-2-R22	VMG-2-R22-02	VMG-2-R22-03
Refrigerants scale	R404A/R407C/R134a/R22		
Gauge Diameter	Φ80 mm		
Pressure Scale	0~140psi; 0~400psi		
Hose	Red&Blue&Yellow: 1/4"-1/4", 3×1pc		
Length	90 cm 120 cm 150 cm	/	
Package	Blow case	Blister packing	Blister packing

VMG-2-R22-B

Gauge Diameter: Φ68mm



VMG-2-R22-B



VMG-2-R22-B-02

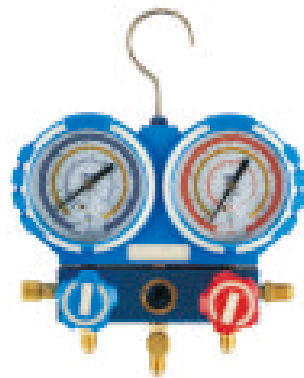


VMG-2-R22-B-03

Model	VMG-2-R22-B	VMG-2-R22-B-02	VMG-2-R22-B-03
Refrigerants scale	R404A/R407C/R134a/R22		
Gauge Diameter	Φ68 mm		
Pressure Scale	0~140 psi; 0~400 psi		
Hose	Red&Blue&Yellow: 1/4"-1/4", 3×1pc		
Length	90 cm 120 cm 150 cm	/	
Package	Blow case	Blister packing	Blister packing

VMG-2-R134a

Gauge Diameter: Φ80mm



VMG-2-R134a

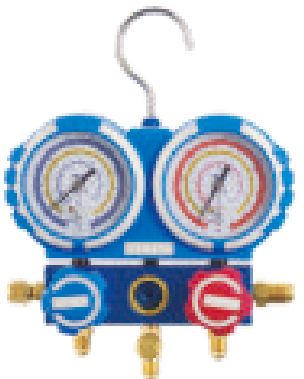


VMG-2-R134a-02

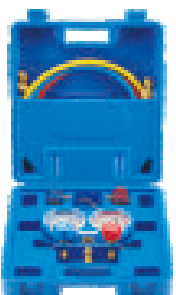
Model	VMG-2-R134a	VMG-2-R134a-02
Refrigerants scale	R134a	
Gauge Diameter	Φ80 mm	
Pressure Scale	0~400 psi; 0~140 psi	
Hose	Red&Yellow&Blue: 1/4"-1/4", 3×1pc	Red&Blue: 1/2"Acme,M14×1.5, 2×1pc Yellow: 1/2"Acme, 1/2"Acme, 1pc
Length	90 cm 120 cm 150 cm	
Package	Blow case	
Quick Couplers	VHF-A 1set	VHF-B 1set

VMG-2-R134a-B

Gauge Diameter: Φ68mm



VMG-2-R134a-B



VMG-2-R134a-B-02

Model	VMG-2-R134a-B	VMG-2-R134a-B-02
Refrigerants scale	R134a	
Gauge Diameter	Φ68 mm	
Pressure Scale	0~400 psi; 0~140 psi	
Hose	Red&Yellow&Blue: 1/4"-1/4", 3×1pc	Red&Blue: 1/2"Acme,M14×1.5, 2×1pc Yellow: 1/2"Acme, 1/2"Acme, 1pc
Length	90 cm 120 cm 150 cm	
Package	Blow case	
Quick Couplers	VHF-A 1set	VHF-B 1set

VMG-4-R410A

Gauge Diameter: Φ80mm

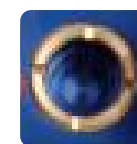
VMG-4-R410A SERIES



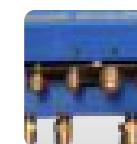
Special material sheath
with anti-collision performance



3/8" port for larger systems



Sight glass to easily view
refrigerant movement and condition



Hose holder fittings 5/16"-1/4"-3/8"-5/16"

Model	VMG-4-R410A
Refrigerants scale	R410A
Gauge Diameter	Φ80 mm
Pressure Scale	0~800 psi; -30~500 psi
Hose	Red&Blue: 1/4"-5/16", 2×1pc 1.5m with check valve Yellow: 1/4"-1/4", 1pc 1.5m with check valve Black : 3/8"-3/8",1pc 1.5m with check valve
Package	Blow case

ANTI-COLLISION SERIES

Accurate Single Gauge

Suit for R410A、R134a、R12、R22、R407C、R404A

- 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

Accurate Anti-collision



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



VMG-1-S-H VMG-1-S-L



Specifications

Model		VMG-1-U-H	VMG-1-U-L	VMG-1-S-H	VMG-1-S-L
Gauge Diameter		Φ68mm		Φ68mm	
Refrigerants scale (Optional)	Type I	R410A			
	Type II	R410A/R407C/R22/R134a			
	Type III	R404A/R407C/R134a/R22			
	Type IV	R134a			
	Type V	R410A/R407C/R404A/R134a			
Pressure Scale		-30inHg~800psi	-30inHg~500psi	-30inHg~800psi	-30inHg~500psi
Sight glass		Without		With	
Package		Blister packing		Blister packing	

VDG-1

Accurate Digital Manifold Gauge

- Suitable for detecting 44 refrigerants
- Built-in refrigerant: R11 R123 R404A R414B R600A R428A
R12 R124 R406A R744 R426A R417A
R13 R134a R407A R422A R1234yf R437A
R22 R290 R407C R422D R424A
R23 R401A R408A R427A R434A R728
R32 R401B R409A R502 R422B
R113 R402A R410A R507A R416A
R114 R402B R413A R508B R420A
- Including clamp probe for temperature measurement
- Measuring range pressure: 0~725 psi
- Operating temperature: 10~90% RH
- Weight: 1.2 Kg



VDG-S1

Accurate Digital Single Gauge

- Built-in 9 refrigerant : R22 R32 R290 R410A 1234yf R134a
R404A R407C R507
- Pressure Display : psi bar KPa MPa kg/cm²
- Temperature Display : °C °F
- Vacuum Display : inHg
- Sensing Accuracy:0.75%FS
- Sensing Resolution : 1psi
- Refrigerant Temperature : -5~50°C
- Connection :1/4" SAE
- Power : 9V DC battery 50 hours pressure and temperature mode only(continuous use)





VDG-2-S1 Accurate Digital Manifold Gauge

- Built-in 9 refrigerant : R22 R32 R290 R410A 1234yf R134a R404A R407C R507
- Pressure Display : psi bar KPa MPa kg/cm²
- Temperature Display : °C °F
- Vacuum Display : inHg
- Sensing Accuracy : 0.75%FS
- Sensing Resolution : 1psi
- Hose : Red&Blue : 1/4"-5/6" ,2X1pc
Yellow : 1/4"-1/4",1pc
- Package : Blow case

NEW



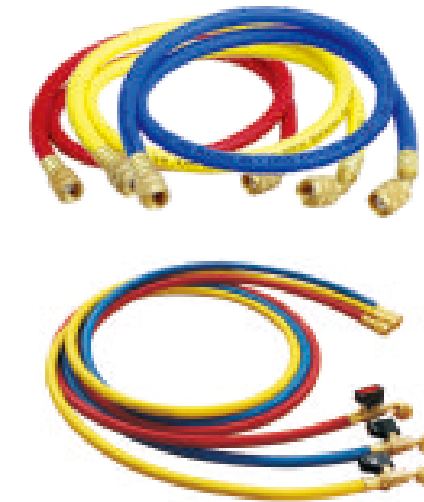
VDG-4-S1 Accurate Digital Manifold Gauge

- Built-in 9 refrigerant : R22 R32 R290 R410A 1234yf R134a R404A R407C R507
- Pressure Display : psi bar KPa MPa kg/cm²
- Temperature Display : °C °F
- Vacuum Display : inHg
- Sensing Accuracy : 0.75%FS
- Sensing Resolution : 1psi
- Hose : Red&Blue : 1/4"-5/16" ,2X1pc
Yellow : 1/4"-1/4",1pc
Black : 3/8"x3/8" SAE
- Package : Blow case

NEW

VRP SERIES High Strength Refrigerant Tube

Suit for R410A, R134a, R12, R22 refrigerant



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 level

Model	Connector Size		
	R410A	R134a R22 R12	R134a
Pressure Scale	~800 psi		~800psi; ~500psi
VRP-U-R	1/4"-5/16"	1/4"-1/4"	1/2"Acme M14×1.5
VRP-U-Y	1/4"-1/4"	1/4"-1/4"	1/2"Acme 1/2"Acme
VRP-U-B	1/4"-5/16"	1/4"-1/4"	1/2"Acme M14×1.5
Lenth	90 cm	120 cm	150 cm

Model	Connector Size		
	R410A	R134a R22 R12	R134a
Pressure Scale	~800 psi		
VRP-C-R	1/4"-5/16"	1/4"-1/4"	1/2"Acme M14×1.5
VRP-C-Y	1/4"-1/4"	1/4"-1/4"	1/2"Acme 1/2"Acme
VRP-C-B	1/4"-5/16"	1/4"-1/4"	1/2"Acme M14×1.5
Lenth	90 cm	120 cm	150 cm
Check valve	1set(Optional: CV01-CV06)		

VHF SERIES Quick Couplers

Suit for refrigerants like R134a, R1234yf and so on.
Automotive air conditioning maintenance tool

Safety Reliable

- Connecting pipeline of car air-conditioning and refrigerant system very fast
- Controlling the pipeline's open and close



VHF-A



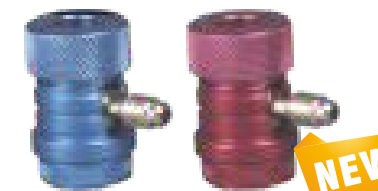
VHF-B



VHF-C

Model	VHF-A	VHF-B	VHF-C
Description	1/4" SAE	M14×1.5	3/8" SAE

NEW Locked structure



VHF-SA



VHF-SB



VHF-SC

Model	VHF-SA	VHF-SB	VHF-SC
Description	1/4" SAE	M14×1.5	3/8" SAE

Check valve



CV01



CV02



CV03



CV04



CV05



CV06



CV07



CV08



CV09



CV10



CV11



CV12

Item	Description	Item	Description
CV01	Male: 1/4"SAE Female: 5/16" SAE	CV07	Male: 1/4"SAE Female: 1/4" SAE
CV02	Male: 1/4"SAE Female: 5/16" SAE 45°	CV08	Male: 5/16"SAE Female: 5/16" SAE 45°
CV03	Male: 1/4"SAE Female: 5/16" SAE 60°	CV09	Male: 5/16"SAE Female: 5/16" SAE 60°
CV04	Male: 5/16"SAE Female: 5/16" SAE	CV10	Male: 5/16"SAE Female: 1/4" SAE
CV05	Male: 1/4"SAE Female: 1/4" SAE 45°	CV11	Male: 5/16"SAE Female: 1/4" SAE 45°
CV06	Male: 1/4"SAE Female: 1/4" SAE 60°	CV12	Male: 5/16"SAE Female: 1/4" SAE 60°

Adapter



V01



V02



V03



V04



V05



V06



V07



V08

Item	Description	Item	Description
V01	Female: 5/16" SAE Male: 5/16"SAE 90°	V05	Female: 5/16" SAE Male: 1/4"SAE
V02	Female: 5/16" SAE Male: 1/4"SAE 90°	V06	Female: 1/4" SAE Male: 5/16"SAE
V03	Female: 1/4" SAE Male: 5/16"SAE 90°	V07	Female: 5/16" SAE Male: 1/4"SAE
V04	Female: 1/4" SAE Male: 1/4"SAE 90°	V08	Female: 1/4" SAE Male: 5/16"SAE

VFT-808

Flaring Tool

- 45° eccentric flaring tool in metric and inch sizes
- Heavy duty wide-range bar type flaring tool
- Hardened bars provide positive clamping action with minimum distortion
- Easy use and exact flaring result



• Chinese patent



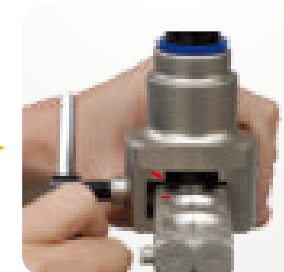
Annular rivet connection



Steel ball positioning, convenient flaring

Accurate Tube Flaring

Operation





VFT-808-I



VFT-808-I-02

Model	Tube O.D.	Applicable pipe	Packaging
VFT-808-I	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	Copper pipe	Blow case
VFT-808-I-02			Carton



VFT-808-MI



VFT-808-IS



VFT-808-MIS



VFT-808-IE

Model	Tube O.D.	Tube Tool	Applicable pipe	Packaging
VFT-808-MI	6, 8, 10, 12, 16, 19mm 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	/	Copper pipe	Blow case
VFT-808-IS	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	VTC-28B		Blow case
VFT-808-MIS	6, 8, 10, 12, 16, 19mm 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	VTC-28B		Blow case
VFT-808-IE	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	VST-22		Blow case

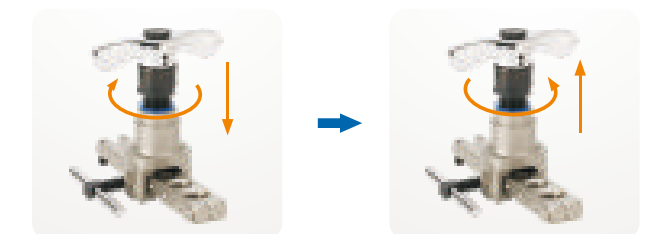
VFT-809 Ratchet Flaring Tool

Accurate tube flaring

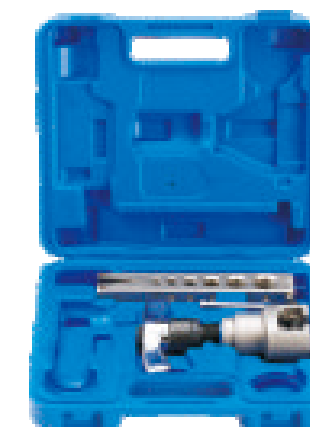
- Easy operation, save time and energy
- Special design for R410A systems
- The special cone eccentric revolution will allow the internal opening gradually and form 45° accurately and regularly, prevent the tube slippage downward. Therefore, the flaring face will be smooth, uniform without scratching.
- Eccentric cone will rebound by itself after the work is finished. To make the idle top head in revolution again for 1-2 more rounds, with the friction the flaring face will be more smooth and prettier.



• Chinese patent



Ratchet Eccentric Cone



VFT-809-I



VFT-809-IS

Model	Tube O.D.	Tube Cutter	Packaging
VFT-809-I	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	/	Blow case
VFT-809-IS	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	VTC-28B	

VFT-808C R410A Flaring Tool

Tube O.D.: 1/4", 3/8", 1/2" 5/16", 5/8", 3/4"

- Axial spacing to ensure the accurate size
- Innovative patent clamping structure for convenient operation
- Innovative design, operating more humane



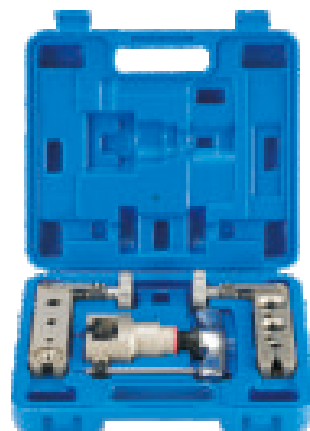
Axial spacing
Accurate tube flaring



Convenient loading
and unloading
Quick clamping

• Chinese patent

Axial Spacing
Accurate Tube Flaring



VFT-808C

Model	Tube O.D.	Tube Cutter	Packaging
VFT-808C	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	/	Blow case

VET-19-S Electrical Flaring Tool

- 5-second fast and accurate flaring
- Single head easy use for small space
- Unlimited by environment condition

Operation



Quick Flaring



• Chinese patent CE



Specification

Power supply :	DC motor
Applicable Pipe :	Copper pipe
Tube O.D. :	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"
Flaring shape :	Flared
Tuber cutter:	VTC-28B
Deburring tool:	VTT-5
Weight :	5.8Kg

VTC-19/28/28B/32/42/70

Sharp Tube Cutter

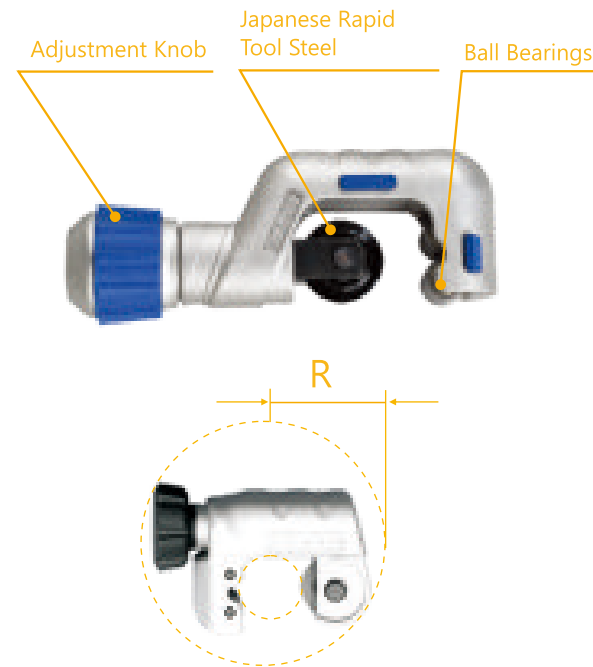
- Grinding blade, uses high-quality alloy tool steel, grinding process
- Unique ball bearing design, easy cutting



VTC-28B/32/42/70



VTC-19/28



• Chinese patent



Model	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)
VTC-70	For 1/4"~2-5/8" (6~67mm)

VST-22

Tube Expanders

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

Easy to carry



Tube O.D.: 3/8", 1/2", 5/8", 3/4", 7/8"

Patent for invention



VTT-5

Deburring tool

The deburring tool is perfect for removing the burrs left behind by the drill resulting in a clean, smooth finish as well as a polished appearance.

- Well polished appearance. Compared with other deburring tools, value deburring tool adopts sharp cutting edge, so it is more smooth in appearance.

- Easy to use and saving cost. VALUE deburring tool is convenient to carry with small size, and easy to change the blade with the button, it is saving cost with hand operation.



Integrated tools kit



VTB-5A

Complete with	Description	Quantity
Vacuum pump	1.5CFM	1pc
Flaring tool	VFT-808-I	1set
Tube cutter	VTC-28B	1pc
Scraper	VTT-5	1pc
Manifold gauge	VMG-2-R410A	1set
Tube expanders	VST-22	1pc
Package	Aluminum alloy box	1pc

Integrated tools kit



VTB-5B-I

Complete with	Description	Quantity
Flaring tool	VFT-808-I	1set
Tube cutter	VTC-28B	1pc
	VTC-19	1pc
Manifold gauge	VMG-2-R410A	1set
Scraper	VTT-5	1pc
Package	Blow case	1pc



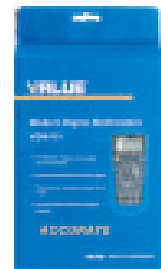
VTB-5B-II

Complete with	Description	Quantity
Flaring tool	VFT-808-I	1set
Tube cutter	VTC-28B	1pc
	VTC-19	1pc
Manifold gauge	VMG-2-R410A	1set
Adapter	Optional: V01-V08	1set
Scraper	VTT-5	1pc
Package	Blow case	1pc



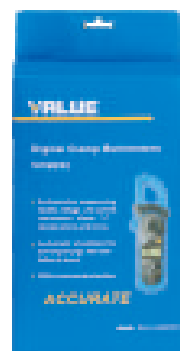
VTB-5B-III

Complete with	Description	Quantity
Flaring tool	VFT-808-I	1set
Tube cutter	VTC-28B	1pc
	VTC-19	1pc
Manifold gauge	VMG-2-R410A	1set
Adapter	Optional: V01-V08	1set
Check valve	Optional: CV01-CV12	1set
Scraper	VTT-5	1pc
Package	Blow case	1pc



VDM-151 Modern Digital Multimeters

- 30 different measuring ranges can be selected
- Overload protection for the full range
- The function to keep number of all shifts
- The max range of electric capacity is 200 μ F
- Working temperature: 0°C~40°C
- Storage temperature: -10°C~50°C
- Weight: 300 g



VCM-202 Digital clamp multimeters

- Suitable for measuring AC/DC voltage, AC current, resistance, diode, °C/°F temperature and so on
- Automatic shut down for saving energy and low battery alarm
- 250V overload protection
- Max measurement voltage: 600V
- Max measurement AC current: 400A
- Temperature measurement range: -40°C~1000°C
- Weight: 360 g



VIT-300 Infrared thermometer

- Emissivity: 0.95
- Temperature range: -18°C~280°C
- Max measuring accuracy: $\pm 2^\circ\text{C}$ or $\pm 2\%$
- Ambient operation temperature: $23^\circ\text{C} \pm 2^\circ\text{C}$
- Resolution: 0.1
- Response time: 500 ms
- Weight: 185 g



VLD-1 Leak detector

- High sensitivity
- Fast response
- Suit for different refrigerants

Refrigerants

R134a , R22 、 R12、 R410A , R407C、 R404A , R32、 R290、 R600a R32 and etc.

Accurate Detect



Specification

Battery :	4X1.5V AABattery
Battery life :	4hours
Sensitivity :	10ppm
Sensor life :	1year(normal use)
Ambit temperature :	0-50°C
Calibration:	Automatic
Respond time :	5Second
Probe length :	300mm
Dimension :	230mmX83mmx50mm
Weight :	220g

Refrigerant charging scale



VES-50A/VES-100A

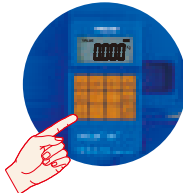


VES-50B/VES-100B

Quantitative filling precision control

Easy operation schematic

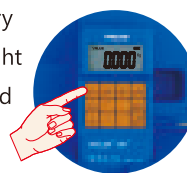
1 Open the electrical scale



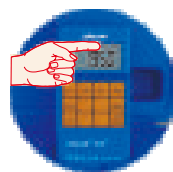
2 Place the refrigerant tank and clear the electrical scale



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



VES-50A/VES-100A

Accurate Measurement



Anti-collision



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

Model	VES-50A	VES-100A
Weighting range	50Kg	100Kg
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	237×237 mm	
Weight	4Kg	
Anti-collision	Yes	

VES-50B/VES-100B

Accurate Measurement



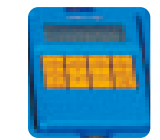
Quantitative filling precision control



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



Anti-collision



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

Model	VES-50B	VES-100B
Weighting range	50Kg	100Kg
Resolution	2 g	5 g
Accuracy	±0.05%	
Display	LCD	
Power	DC9V& AC(110V~240V)	
Working environment	-10°C~40°C, ≤75% Humidity	
Platform size	237×237 mm	
Weight	4Kg	
Anti-collision	Yes	
Automatic shut-off	Yes	

High Reliability Vacuum pump

VRD SERIES

Suit for production line



Adjustable gas ballast valve



Oil anti-sucking



Forced oil circulation



The integrated cylinder structure

Excellent Performance

Specification

Model		VRD-16	VRD-24	VRD-30
Displacement speed m ³ /h(L/s)	50 Hz	16(4.4)	24(6.6)	30(8.3)
	60 Hz	19.2(5.2)	28.8(7.9)	36(9.9)
Ultimate partial pressure gas ballast close		4×10 ⁻² Pa	4×10 ⁻² Pa	4×10 ⁻² Pa
Ultimate total pressure gas ballast close		4×10 ⁻¹ Pa	4×10 ⁻¹ Pa	4×10 ⁻¹ Pa
Ultimate total pressure gas ballast open		8×10 ⁻¹ Pa	8×10 ⁻¹ Pa	8×10 ⁻¹ Pa
Power supply		single/3-ph	single/3-ph	single/3-ph
Power rating		0.75kW/0.55kW	1.1kW/0.75kW	1.1kW
Inlet and exhaust DN		KF25	KF25/40	KF25/40
Oil Capacity		0.9~1.5 L	1.3~2.0 L	1.3~2.0 L
Motor speed(rpm)	50 Hz	1440	1440	1440
	60 Hz	1720	1720	1720
Ambient temperature		5~40 °C	5~40 °C	5~40 °C
Noise level(dB)		≤58	≤58	≤58
Weight		31Kg	35kg	38Kg

High pumping speed vacuum pump

POWER SERIES

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



Higher power design, more faster



Six air inlets design
More equipment
can work in one time



Forced oil lubrication
system to ensure
reliable work



Internal forced oil
cycling system,
more reliable

Powerful Fast

Specification

Model		VP2120	VP2200
Displacement speed (CFM)	50 Hz	12	20
	60 Hz	14	24
Ultimate partial pressure gas ballast close		4×10 ⁻² Pa	4×10 ⁻² Pa
Ultimate total pressure gas ballast close		4×10 ⁻¹ Pa	4×10 ⁻¹ Pa
Ultimate total pressure gas ballast open		8×10 ⁻¹ Pa	8×10 ⁻¹ Pa
Power supply		single/3-ph	single/3-ph
Power rating		0.75kW/0.55kW	1.1kW/0.75kW
Inlet and exhaust DN		KF25	KF25/40
Oil Capacity		0.9~1.5 L	1.3~2.0 L
Motor speed(rpm)	50 Hz	1440	1440
	60 Hz	1720	1720
Ambient temperature		5~40°C	5~40°C
Noise level(dB)		≤58	≤58
Weight		40Kg	42Kg