



Zhejiang Aitcool Equipment Co.,Ltd

NO.9,LIZHI ROAD,SHIQIAOTOU TOWN,
WENLING CITY,ZHEJIANG,CHINA

Tel:0086-576-81622550 Fax:0086-576-81622660

Email:sales@aitcool.com URL:www.aitcool.com



Aitcool Inc.



Working For A Green World

Aitcool Inc. **2020**
2021



ABOUT AITCOOL



AITCOOL INC., founded in 2007, is a professional national High-Tech enterprise, specializing in research, development, manufacture and sales of refrigeration tools for HVAC/R, with an annual capacity of 30,000 refrigerant recovery machines and 200,000 rotary-vane vacuum pumps at present. AITCOOL is at the leading position in refrigeration industry.

LEAN MANUFACTURING&FLEXIBLE MANUFACTURING



AITCOOL comprehensive use of ERP Materials Management System, Total Quality Management (TMQ) System, Lean & Flexible Manufacturing System, ISO9001 Quality System. Based on this, we have made a huge investment in introducing the most professional technical, electrical, refrigerating senior engineers, modern production equipment, building modern workshops and standardizing production procedure, so as to create good products with new technologies and new techniques, never sell one nonconforming product to clients.





AITCOOL



Aitcool Inc.

BUSINESS WORLDWIDE

AITCOOL has exported to more than 60 countries, sell well In Europe market, like Italy, German, France, UK, etc.; in US market, like USA, Brazil, Argentina, Mexico, etc.; Also in Australia, Southeast Asia, Middle East, Japan and other countries and regions.

AITCOOL has also established our own brand distribution network in many countries.

AITCOOL has provide products and service for several Fortune 500 enterprises as well.

Standard And Effective Management Creating Products With New Technologies And New Techniques



HONOR

In October 2010, AITCOOL was honored as national High-Tech enterprise, With the high quality and advanced technology, the joint efforts of all our colleagues, which guarantee AITCOOL healthy development over a long period, All products have obtained china patents and got the European CE, American UL certificate, CSA certificate, etc., international top safety certificate. AITCOOL has been certified to ISO9001, The complete quality assurance system enables the whole design and manufacturing process to be monitored and controlled. With the standardized management system and systematic quality assurance system, the products quality of AITCOOL has won the international market approval.

Enterprise Honor





WORKING FOR A GREEN WORLD



Aitcool Inc CONTENTS

VACUUM PUMP

VP N SERIES	07
A-I SERIES	10
R32 SERIES	11
AHV SERIES	12
INTAKE PORT FITTINGS&DEVICE&POWER SUPPLY PLUG.....	13
ARV SERIES.....	14
ARV-M SERIES.....	15
VPI SERIES	16



Vacuum Pump

REFRIGERANT RECOVERY UNIT

R32 SERIES	18
------------------	----



Refrigerant
Recovery Unit

REFRIGERATION TOOLS

LEAK DETECTOR.....	20
VACUUM GAUGE.....	21
CHARGING SCALE	22
MANIFOLD GAUGE SET	24
ACCESSORY	27
• REFRIGERANT HOSE	
• QUICK COUPLER	



Refrigeration
Tools

PIPE TOOLS

FLARING TOOL	28
TUBE CUTTER	29
BENDING TOOL	30
TOOL KIT	31

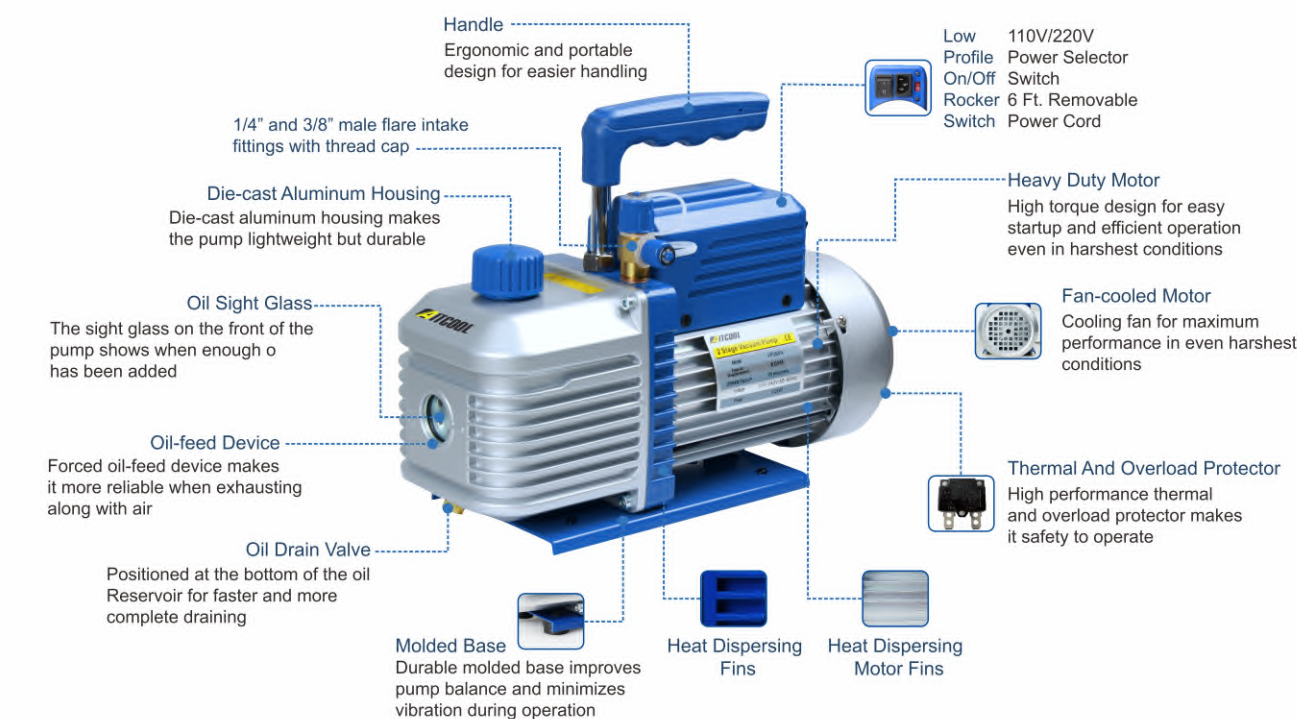


Pipe Tools

VACUUM PUMP

VACUUM PUMP VP N SERIES

More Stable,Longer Worklife



- 100% Copper Coil Motor,Longer Work life
• Built-in Thermal And Overload Protector, More Reliable
• CSA,UL Approved Components
- With Integral Structure Pump Body Processed By CNC Center, Higher Accuracy,More Stable
- Powerful Oil Cycling System:**
• Oil Inlet Port Located In The Bottom Of Pump Body Makes Pump Work Efficiently Even With Less Oil
- Optional Device:**
Solenoid Valve + Built-in 50mm Vacuum Gauge
• Automatic Anti-reflux Of Oil
• For Easy Measurements Of Vacuum
- Fan-cooled Motor
• Axial Ventilation Structure

High Efficiency Cooling Device :
For Maximum Performance in even harshest conditions
• Heat Dispersing Fins on Oil Tank,Trestle And Motor

Features

- Designed specially for HVAC/R service.
- Ultimate deep vacuum: single stage is 2Pa, while dual stage is 2×10^{-1} Pa.
- Compact design with aluminum housing and easy to carry.
- Thermal protector in the motor to guarantee the pump to run steadily.
- Both 1/4" and 3/8" SAE flare inlet connections allow for flexibility of connections.
- Vacuum pump oil included.
- Suitable for all the main voltage design in the market.
- Individual design for special customers.

• Chinese patent



1 Stage vacuum pump

Model		VP115N	VP130N	VP140N	VP170N	VP190N
Flow Rate	50Hz	1.8 CFM	2.5 CFM	3.5 CFM	6.0 CFM	8.0 CFM
		51 L/min	71 L/min	100 L/min	170 L/min	227 L/min
	60Hz	2.0 CFM	3.0 CFM	4.0 CFM	7.0 CFM	9.0 CFM
		57 L/min	85 L/min	115 L/min	198 L/min	255 L/min
Ultimate Vacuum	partial pressure	2 Pa	2 Pa	2 Pa	2 Pa	2 Pa
	total pressure	150 microns	150 microns	150 microns	150 microns	150 microns
Power		1/4 HP	1/4 HP	1/3 HP	3/4 HP	3/4 HP
Inlet Port		1/4" SAE	1/4" SAE	1/4"&3/8" SAE	1/4"&3/8" SAE	1/4"&3/8" SAE
Oil Capacity		240 ml	230 ml	330 ml	280 ml	320 ml
Dimensions		240×93×200mm	240×93×200mm	280×115×230mm	320×125×232 mm	340×132×245mm
Weight		4.0 kg	4.3 kg	7.0 kg	8.5 kg	12.0 kg

VACUUM PUMP VP N SERIES



• Chinese patent  

2 Stage vacuum pump

Model		VP215N	VP230N	VP250N
Flow Rate	50Hz	1.8CFM	2.5CFM	4.5 CFM
		51 L/min	71 L/min	128 L/min
	60Hz	2.0 CFM	3.0 CFM	5.0 CFM
Ultimate Vacuum	partial pressure	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa
	total pressure	15 microns	15 microns	15 microns
Power		1/4 HP	1/3 HP	1/2 HP
Inlet Port		1/4"SAE	1/4"&3/8"SAE	1/4"&3/8"SAE
Oil Capacity		230 ml	300 ml	350 ml
Dimensions		240x93x200 mm	280x115x230 mm	320x125x232 mm
Weight		4.3 kg	7.8 kg	8.6 kg

Model		VP270N	VP290N	VP2200N
Flow Rate	50Hz	6.0 CFM	8.0 CFM	10 CFM
		170 L/min	227 L/min	283 L/min
	60Hz	7.0CFM	9.0 CFM	12 CFM
Ultimate Vacuum	partial pressure	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa
	total pressure	15 microns	15 microns	15 microns
Power		3/4 HP	1 HP	1 HP
Inlet Port		1/4"&3/8"SAE	1/4"&3/8"SAE	1/4"&3/8"SAE
Oil Capacity		450 ml	630 ml	630 ml
Dimensions		340x132x245 mm	390x145x252 mm	390x145x252 mm
Weight		12.5 kg	15.5 kg	16 kg

VACUUM PUMP VP N SERIES



• Chinese patent  



Low Profile
On/Off
Rocker
Switch

110V/220V
Power Selector
Switch
6 Ft. Removable
Power Cord

Dual voltage vacuum pump

Model		VP230ND	VP250ND	VP270ND	VP290ND	VP2200ND
Flow Rate	50Hz	2.5CFM	4.5 CFM	6.0 CFM	8.0 CFM	10 CFM
		71 L/min	128 L/min	170 L/min	227 L/min	283 L/min
	60Hz	3.0 CFM	5.0 CFM	7.0CFM	9.0 CFM	12 CFM
Ultimate Vacuum	partial pressure	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa	2×10 ⁻¹ Pa
	total pressure	15 microns	15 microns	15 microns	15 microns	15 microns
Power		1/3 HP	1/2 HP	3/4 HP	1 HP	1 HP
Inlet Port		1/4"&3/8"SAE	1/4"&3/8"SAE	1/4"&3/8"SAE	1/4"&3/8"SAE	1/4"&3/8"SAE
Oil Capacity		300 ml	350 ml	450 ml	630 ml	630 ml
Dimensions		280x115x230 mm	320x125x232 mm	340x132x245 mm	390x145x252 mm	390x145x252 mm
Weight		7.8 kg	8.6 kg	12.5 kg	15.5 kg	16 kg

VACUUM PUMP A-i SERIES

New Structure,Low Speed Motor,More Reliable



Integral structure pump body



Fan-cooled Motor
Cooling fan for maximum performance in even harshest conditions



Gas Ballast
Separate the vapor from the gas, Prolong the use of pump oil.



Optional Device:
Solenoid Valve + Built-in 50mm Vacuum Gauge
Automatic Anti-reflux Of Oil
For Easy Measurements Of Vacuum

1 Stage vacuum pump

Model		A-i120	A-i140	A-i160	A-i180
Flow Rate	50Hz	1.8CFM	3.5CFM	5.0CFM	7.0CFM
		51L/min	100L/min	142L/min	198L/min
	60Hz	2.0CFM	4.0CFM	6.0CFM	8.0CFM
		57L/min	113L/min	170L/min	227L/min
Ultimate Vacuum	partial pressure	1Pa	1Pa	1Pa	1Pa
	total pressure	75mircons	75mircons	75mircons	75mircons
Power		1/3HP	1/2HP	1/2HP	3/4HP
Inlet Port		1/4"& 3/8"SAE	1/4"& 3/8"SAE	1/4"& 3/8"SAE	1/4"& 3/8"SAE
Oil Capacity		230ml	230ml	350ml	320ml
Dimensions		240×93 ×200 mm	320×125×232 mm	340×132×245 mm	360×132×245 mm
Weight		5.0kg	8kg	11.0kg	13.5kg

2 Stage vacuum pump

Model		A-i220	A-i240	A-i260	A-i280	A-i2200
Flow Rate	50Hz	1.8 CFM	3.5 CFM	5.0 CFM	7.0 CFM	10 CFM
		51 L/min	100 L/min	142 L/min	198 L/min	283 L/min
	60Hz	2.0 CFM	4.0 CFM	6.0CFM	8.0 CFM	12 CFM
		57 L/min	113 L/min	170 L/min	227 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
	total pressure	15 microns	15 microns	15 microns	15 microns	15 microns
Power		1/2 HP	1/2 HP	3/4 HP	1 HP	1 HP
Inlet Port		1/4" SAE	1/4" SAE	1/4" SAE	1/4" SAE	1/4" SAE
Oil Capacity		350 ml	600 ml	500 ml	600 ml	550 ml
Dimensions		320×125×232 mm	340×132×245 mm	360x132x245 mm	390x145x252 mm	390x145x252 mm
Weight		8.5kg	11 kg	13.5 kg	15 kg	17 kg

VACUUM PUMP R32 SERIES



- 100% Copper Coil Motor,Longer Work life
- Built-in Thermal And Overload Protector, More Reliable
- CSA,UL Approved Components



- With Integral Structure Pump Body Processed By CNC Center, Higher Accuracy,More Stable



- Powerful Oil Cycling System:**
- Oil Inlet Port Located In The Bottom Of Pump Body Makes Pump Work Efficiently Even With Less Oil



- Solenoid Valve :**
- Automatic Anti-reflux Of Oil



- Gas Ballast :**
- Mix Moisture-laden Air Passing Through Pump With Relatively Dry Air
- So Compression Doesn' t Cause Condensation For Prolonging Use Of Vacuum Pump Oil



- Built-in Vacuum Gauge :**
- For Easy Measurements And Leak Checking
- With Red Pointer For Target Vacuum Value Guidance And Arrival Warning.
- For Better Protection To Gauge

1 Stage vacuum pump

Model		A-i140 SG-R32	A-i180 SG-R32
Flow Rate	50Hz	3.5CFM	7.0CFM
		100L/min	198L/min
	60Hz	4.0CFM	8.0CFM
		113L/min	227L/min
Ultimate Vacuum	partial pressure	2Pa	2Pa
	total pressure	150 microns	150 microns
Power		1/2HP	3/4HP
Inlet Port		1/4" SAE	1/4" SAE
Oil Capacity		230ml	320ml
Dimensions		320×125×232 mm	360×132×245 mm
Weight		8kg	13.5kg

2 Stage vacuum pump

Model		A-i220 SG-R32	A-i240 SG-R32	A-i260 SG-R32	A-i280 SG-R32	A-i2200 SG-R32
Flow Rate	50Hz	1.8 CFM	3.5 CFM	5.0 CFM	7.0 CFM	10 CFM
		51 L/min	100 L/min	142 L/min	198 L/min	283 L/min
	60Hz	2.0 CFM	4.0 CFM	6.0CFM	8.0 CFM	12 CFM
		57 L/min	113 L/min	170 L/min	227 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
	total pressure	15 microns	15 microns	15 microns	15 microns	15 microns
Power		1/2 HP	1/2 HP	3/4 HP	1 HP	1 HP
Inlet Port		1/4" SAE	1/4" SAE	1/4" SAE	1/4" SAE	1/4" SAE
Oil Capacity		350 ml	600 ml	500 ml	600 ml	550 ml
Dimensions		320×125×232 mm	340×132×245 mm	360x132x245 mm	390x145x252 mm	390x145x252 mm
Weight		8.5kg	11 kg	13.5 kg	15 kg	17 kg

• Chinese patent



VACUUM PUMP AHV SERIES



- Integral structure pump body,7.5microns
- Equipped with oil Anti-sucking device
- Heavy-duty independent motor
- High quality,longer work life
- Non-spark series is optional

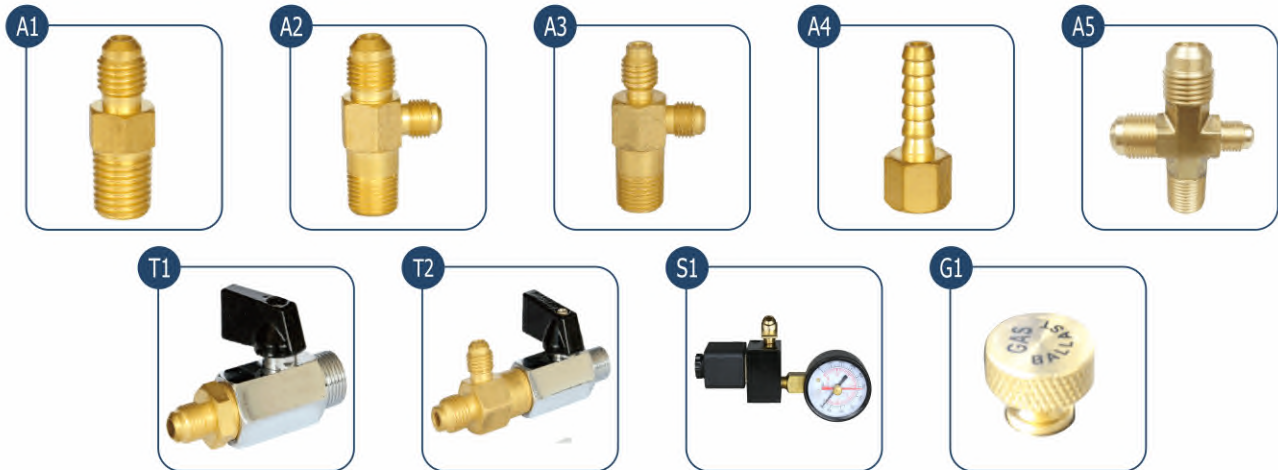
• Chinese patent



2 stage vacuum pump

Model		AHV-6	AHV-8	AHV-10	AHV-12
Flow Rate	50Hz	5.0CFM	7.0CFM	9CFM	10CFM
		142L/min	198L/min	255L/min	283L/min
	60Hz	6.0CFM	8.0CFM	10CFM	12CFM
Ultimate Vacuum	partial pressure	1×10 ⁻¹ Pa	1×10 ⁻¹ Pa	1×10 ⁻¹ Pa	1×10 ⁻¹ Pa
	total pressure	7.5Microns	7.5Microns	7.5microns	7.5microns
Power		1/2HP	1HP	1HP	1HP
Motor speed	50Hz	1440	1440	1440	1440
	60Hz	1720	1720	1720	1720
Inlet Port		1/4" & 3/8" & 5/8"SAE	1/4" & 3/8" & 5/8"SAE	1/4" & 3/8" & 5/8"SAE	1/4" & 3/8" & 5/8"SAE
Oil Capacity		550ml	600ml	550ml	520ml
Dimensions(mm)		400 x140 x260	400 x140 x260	430 x140 x260	430 x140 x260
Weight		15kg	16kg	17kg	18kg

INTAKE PORT



Item	Description
A1	1/4"SAE
A2	1/4"&3/8"SAE
A3	1/4"SAE&1/2"ACME
A4	Hose Adapter
A5	1/4"& 3/8"SAE&5/8"SAE

Item	Description
T1	Ballvalve+1/4"SAE
T2	Ballvalve+1/4"SAE&1/2"ACME
S1	Solenoid valve+50mm Gauge
G1	Gas ballast

Power supply plugs



Item	Description
P1	American plug
P2	Europe plug
P3	UK plug
P4	Australia plug
P5	Argentina plug

Item	Description
P6	Brazil plug
P7	India plug
P8	Isreal plug
P9	Italy plug
P10	Japan plug

VACUUM PUMP ARV SERIES

Industrial, Fast, Excellent Performance



Application:
Suitable for production line, large engineering equipment, refrigeration equipment repairing, machinery equipment industry and the other vacuum work.

• Chinese patent  

- Equipped with oil anti-sucking device.
- With gas ballast valve to separate the vapor from the gas, so as to ensure the purity and prolonged the use of the pump oil.
- With integral structure pump body, independent low speed motor, heavy-duty work.
- Exhaust port is applied with oil fog catcher to prevent oil leaking and environment pollution.
- Non-spark Series is optional.

2 stage vacuum pump

Model		ARV-4	ARV-8	ARV-16	ARV-30	ARV-50	ARV-70	ARV-90
Flow Rate M ³ /h(L/s)	50Hz	4(1.1)	8(2.2)	16(4.4)	30(8.3)	50(13.9)	70(19.4)	90(25)
	60Hz	4.8(1.3)	9.6(2.7)	19.2(5.3)	36(10)	60(16.7)	84(23.3)	108(30)
Ultimate partial Pressure gas ballast close		4×10 ⁻² Pa	4×10 ⁻² Pa	4×10 ⁻² Pa	4×10 ⁻² Pa	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	4×10 ⁻¹ Pa	4×10 ⁻¹ Pa	4×10 ⁻¹ Pa	4×10 ⁻¹ Pa
Ultimate total Pressure gas ballast open		10Pa	10Pa	8×10 ⁻¹ Pa	8×10 ⁻¹ Pa	8×10 ⁻¹ Pa	8×10 ⁻¹ Pa	8×10 ⁻¹ Pa
Power supply		single/3-phase	single/3-phase	single/3-phase	single/3-phase	3-phase	3-phase	3-phase
Rated Power		0.75kw/0.55kw	0.75kw/0.55kw	0.75kw/0.55kw	1.1 kw	1.5 kw	2.2 kw	3 kw
Inlet and Exhaust port		KF 25	KF 25	KF 25	KF 25/40	KF 40	KF 40	KF 40
Oil Capacity		0.6-1.0L	0.6-1.0L	0.9-1.5L	1.2-2.0L	3.0-4.5L	3.0-4.5 L	3.0-4.5 L
Motor Speed (RPM)	50Hz	1440	1440	1440	1440	1440	1440	1440
	60Hz	1720	1720	1720	1720	1720	1720	1720
Operation Temp.		5-40℃	5-40℃	5-40℃	5-40℃	5-40℃	5-40℃	5-40℃
Noise Level(dB)		≤56	≤56	≤58	≤60	≤62	≤62	≤65
Dimensions		460×140×260mm	460×140×260mm	520×192×295mm	520×192×295mm	720×240×390 mm	720×240×390 mm	780×260×460 mm
Weight		19kg	21 kg	32 kg	38 kg	60 kg	65 kg	80 kg

VACUUM PUMP ARV-M SERIES

Compatible to slightly corrosive gas, including the H₂O₂, Ammonia



• Chinese patent  

- Stainless spring is used for a better corrosion resistance.
- Two-Shift adjustable gas ballast valve satisfies different requirements of condensable vapor (such as water vapor) to be exhausted out of pump in different processes.
- Dual protection of oil anti-suck back ensures vacuum system from oil pollution when pump stops running and needs to be easily restarted.
- Forced oil circulation system consisted of oil pump and constant pressure oil supply mechanism ensures stable running of the pump.
- Less components are used, easy to maintain and repair.

2 stage vacuum pump

Model		ARV-8M	ARV-16M	ARV-30M	ARV-50M
Flow Rate M ³ /h(L/s)	50Hz	8(2.2)	16(4.4)	30(8.3)	50(13.9)
	60Hz	9.6(2.7)	19.2(5.3)	36(10)	60(16.7)
Ultimate partial Pressure gas ballast close		4×10 ⁻² Pa	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	4×10 ⁻¹ Pa
Ultimate total Pressure gas ballast open		10Pa	8×10 ⁻¹ Pa	8×10 ⁻¹ Pa	8×10 ⁻¹ Pa
Power supply		single/3-phase	single/3-phase	single/3-phase	3-phase
Rated Power		0.75kw/0.55kw	1.10kw/0.75kw	1.10kw	1.50kw
Inlet and Exhaust port		KF25	KF25	KF25/KF40	KF40
Oil Capacity		0.6-1.0L	0.9-1.5L	1.2-2.0L	3.0-4.5L
Motor Speed (RPM)	50Hz	1440	1440	1440	1440
	60Hz	1720	1720	1720	1720
Operation Temp.		5-40	5-40	5-40	5-40
Noise Level(dB)		≤56	≤58	≤60	≤62
Dimensions		460×140×260mm	460×140×260mm	460×140×260mm	460×140×260mm
Weight		21	30	38	60

VACUUM PUMP VPI SERIES

Heavy-duty,Industrial Vacuum Pump



Three four-way air inlets design, make the vacuum work faster



Large exhaust fitting, with stainless steel oil filter inside



Vacuum gauge to check the vacuum situation

• Chinese patent  

- Suitable for large engineering equipment,refrigeration equipment and the other vacuum work.
- With integral structure pump body,more stable,thorough evacuation.
- Independent low speed motor,higher quality,longer work life.
- Non-spark series is optional

2 stage vacuum pump

Model		VPI2014	VPI2024
Flow Rate M ³ /h(CFM)	50Hz	20(12)	36(20)
	60Hz	24(14)	43(24)
Ultimate Partial Pressure Gas Ballast Close		4x10 ⁻² Pa	4x10 ⁻² Pa
Ultimate Total Pressure Gas Ballast Close		4x10 ⁻¹ Pa	4x10 ⁻¹ Pa
Ultimate Total Pressure Gas Ballast Open		8x10 ⁻¹ Pa	8x10 ⁻¹ Pa
Power Supply		Single/3-phase	Single/3-phase
Rated Power		0.75kw/0.55kw	1.1kw
Inlet and Exhaust Port		1/4"SAE&3/8"SAE&5/8"SAE	1/4"SAE&3/8"SAE&5/8"SAE
Oil Capacity		0.9-1.5L	1.2-2.0L
Motor Speed(RPM)	50Hz	1440	1440
	60Hz	1720	1720
Operation Temp		5 - 40 °C	5 - 40 °C
Noise Level(dB)		≤58	≤58
Weight		32kg	42kg

REFRIGERANT RECOVERY UNIT



Features

- Recover all commonly used refrigerants (CFC, HCFC, HFC), including R410A.
- 1/2 HP&1HP, oil-less compressor recovers both vapor and liquid refrigerant quickly.
- Heavy duty industrial grade condenser and cooling fan.
- Oil separator device for recycling refrigerant.
- High pressure safety automatic shut-off&reset switch.
- Low pressure automatic shut-off&reset switch.
- Filter/Drier removes both moisture and acid from the refrigerant.
- Ergonomic and compact design makes it easy to carry and use.
- Design for residential, commercial and automotive A/C system.
- Optional 80% capacity shut off kit to prevent from overfilling the storage tank.
- Suitable for all the main voltage standard in the world.

R32 SERIES

Lighter,Faster,Higher Performance
Suit for R32,HFO-1234yf refrigerant



• Chinese patent  

Features

- Suitable for all commonly used refrigerants,including R32,HFO-1234yf.
- Compact and Portable design.
- Suitable for all the main voltage design in the market.
- Individual design for special customers.

Model		RECO250-R32			RECO520-R32		
Refrigerants		Cat.Ⅲ：R-12, R-134a, R-401C, R-406A, R-500, HFO-1234yf					
		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,R-507, R32					
Power		110-127V/60HZ			220-240V 50/60HZ		
Motor		1/2HP AC;Capacitor start			1HP AC;Capacitor start		
Max.Current		4A@50HZ 8A@60HZ			6A@50HZ 12A@60HZ		
Compressor		Oil-less; air cooled; One-piston style			Oil-less; air cooled; Twin-piston style		
Refrigerant Recovery Rate		Cat. Ⅲ	Cat. Ⅳ	Cat. Ⅴ	Cat. Ⅲ	Cat. Ⅳ	Cat. Ⅴ
	Vapor	0.23kg/min	0.25kg/min	0.26kg/min	0.46kg/min	0.50kg/min	0.52kg/min
	Liquid	1.57kg/min	1.81kg/min	1.85kg/min	3.14kg/min	3.62kg/min	3.70kg/min
	Push/Pull	4.46kg/min	5.57kg/min	6.22kg/min	9.28kg/min	11.14kg/min	12.44kg/min
High pressure shut-off		38bar/550psi					
Low pressure shut-off		Optional					
80%OFP.Shut-off kit		Optional					
Operating Temp.		0℃-40℃					
Dimensions		465mm(L)X220MM(W)X345mm(H)			465mm(L)X220MM(W)X345mm(H)		
Net Weight		10kg			11kg		

REFRIGERANT RECOVERY UNIT R32 SERIES

Lighter,Faster,Higher Performance
Suit for R32,HFO-1234yf refrigerant



• Chinese patent  



Oil Separator
Separate oil from A/C system

Features

- Suitable for all commonly used refrigerants,including R32,HFO-1234yf.
- Compact and Portable design.
- Suitable for all the main voltage design in the market.
- Individual design for special customers.

Model		RECO250S-R32			RECO520S-R32		
Refrigerants		Cat.Ⅲ：R-12, R-134a, R-401C, R-406A, R-500, HFO-1234yf					
		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,R-507, R32					
Power		110-127V/60HZ			220-240V 50/60HZ		
Motor		1/2HP AC;Capacitor start			1HP AC;Capacitor start		
Max.Current		4A@50HZ 8A@60HZ			6A@50HZ 12A@60HZ		
Compressor		Oil-less; air cooled; One-piston style			Oil-less; air cooled; Twin-piston style		
Refrigerant Recovery Rate		Cat. Ⅲ	Cat. Ⅳ	Cat. Ⅴ	Cat. Ⅲ	Cat. Ⅳ	Cat. Ⅴ
	Vapor	0.23kg/min	0.25kg/min	0.26kg/min	0.46kg/min	0.50kg/min	0.52kg/min
	Liquid	1.57kg/min	1.81kg/min	1.85kg/min	3.14kg/min	3.62kg/min	3.70kg/min
	Push/Pull	4.46kg/min	5.57kg/min	6.22kg/min	9.28kg/min	11.14kg/min	12.44kg/min
Recycling Rate		1.57kg/min	1.81kg/min	1.85kg/min	3.14kg/min	3.62kg/min	3.70kg/min
High pressure shut-off		38bar/550psi					
Low pressure shut-off		Optional					
80%OFP.Shut-off kit		Optional					
Operating Temp.		0℃-40℃					
Dimensions		465mm(L)X220MM(W)X345mm(H)			465mm(L)X220MM(W)X345mm(H)		
Net Weight		10kg			11kg		

LEAK DETECTOR



- Built-in heated semi-conductor gas sensor Imported from Japan,
- High resolution,fast response.
- Long&flexible probe for easier and more convenient job.



Rechargeable
Built-in Lithium Battery
Micro-USB charging port
Charging Parameters:5V 1A,
Fully charging time about 4-5 hours



4 button for easy operation:
Power on/off
Reset
Sensitivity L/M/H
Mute button



Built-in visual alarm for notification of leakage detection



Built-in audible alarm for notification of leakage detection

Package



Technical Specification

Model	ALD-301
Suitable for refrigerant	CFC,HCFC,HFC refrigerant
Minimum of leakage	≤3g/year(R134A)
Response time	≤3s(regarding the size and distance source of leaks)
Life time of battery	≥8 hours
Pressure of system under test	≥50 kPa
Life time of sensor	≥1 year under normal usage
Power	5V
Calibration	auto
Weight	Only 350g
Length of Probe	40cm

Packing in strong blow case to avoid any damages to leak detector

VACUUM GAUGE



Convenient metal hanger, movable and strong



Audible and visual alarm for high and low vacuum.The Vacuum sentry guards system service activity and provides notification when preset alarm thresholds are met



Rechargeable
Built-in Lithium Battery
Micro-USB charging port
Charging Parameters:5V 1A,
Fully charging time about 3-4 hours



Large backlit LCD display
Display updates every 1/2 second
Time evacuation and vacuum decay process



Reads vacuum in Micron,Pa, Torr,mbar



T-Coupler/Extension Coupler
Coupler ensures leak free connection to vacuum gauges during measurements.

Thread: 1/4"SAE Female&Male
Filter: Brass filter inside to prevent from oil pollution to the vacuum sensor



4 button for easy operation:
Power on/off
Reset
Lock/Set the vacuum data
Unit shift



Built-in Pirani Sensor Imported from Germany, High resolution, fast response.

Package



Technical Specification

Model	ADG-01
Maximum overload pressure	72PSI/0.5Mpa
Range	0~10000Pa、 0~100.00mBar、 0~75.000mmHg、 0~75000Microns
Resolution	0.01(<10Pa)、 0.0001(<10mBar)、 0.0001(<10mmHg)、 1(<30000Microns)
Accuracy	2~100Pa:±5% of reading(at 20°C)
Operating temperature	0~50°C
Unit	Micron,Pa,Torr,mBar、
Sensor	Pirani sensor
Dimensions	147*59*33mm
Weight	Only 125g

Packing in strong bag to avoid any damages to vacuum gauge

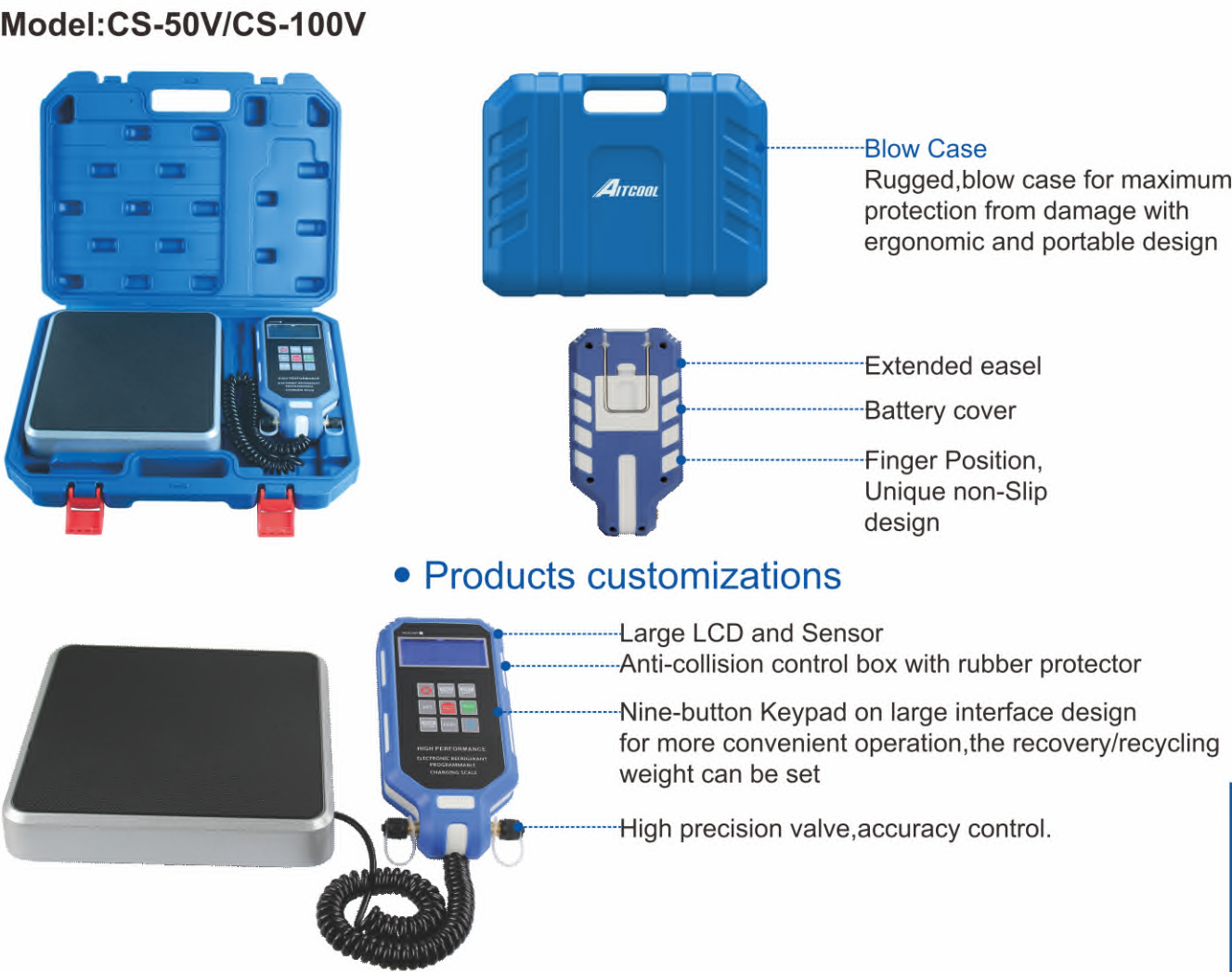
CHARGING SCALE



Technical Specification

Specifications				
Model	CS-50	CS-100	CS-50N	CS-100N
Capacity	110LB/50KG	220LB/100KG	110LB/50KG	220LB/100KG
Unit Shift	LB/KG/OZ	LB/KG/OZ	LB/KG/OZ	LB/KG/OZ
Accuracy	0.05% of reading	0.05% of reading	0.05% of reading	0.05% of reading
Resolution	2g	5g	2g & 1g	5g & 2g
Display	Large LCD,67*25mm	Large LCD,67*25mm	Large LCD,67*25mm	Large LCD,67*25mm
Lamp	Three gear backlight	Three gear backlight	Three gear backlight	Three gear backlight
Platform	230*230mm	230*230mm	230*230mm	230*230mm
Weight	3.6kg	3.6kg	4.0kg	4.0kg
Power	9V battery included	9V battery included	9V battery included	9V battery included
Operating Temp.	-4 ℉ to 156 ℉/-10 ℃ to 50 ℃	-4 ℉ to 156 ℉/-10 ℃ to 50 ℃	-4 ℉ to 156 ℉/-10 ℃ to 50 ℃	-4 ℉ to 156 ℉/-10 ℃ to 50
Programmable	No	No	No	No

CHARGING SCALE

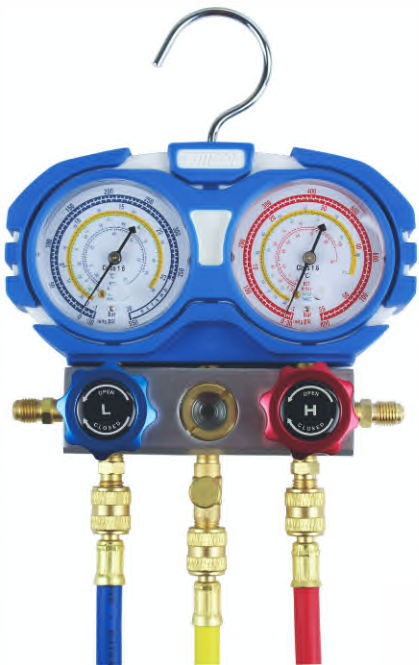


Technical Specification

Specifications		
Model	CS-50V	CS-100V
Capacity	110LB/50KG	220LB/100KG
Unit Shift	LB/KG/OZ	LB/KG/OZ
Accuracy	0.05% of reading	0.05% of reading
Resolution	2g & 1g	5g & 2g
Display	Large LCD,67*25mm	Large LCD,67*25mm
Lamp	Three gear backlight	Three gear backlight
Platform	230*230mm	230*230mm
Weight	4.5kg	4.5kg
Power	9V battery included	9V battery included
Operating Temp.	-4 ℉ to 156 ℉/-10 ℃ to 50 ℃	-4 ℉ to 156 ℉/-10 ℃ to 50 ℃
Programmable	Yes	Yes

MANIFOLD GAUGE SET

Higher Quality And Precision



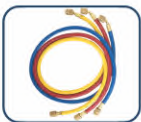
Rubber cover design with anti-collision performance



High precision pressure gauge



Strong metal knob,longer work life
Sight glass for view of the refrigerant movement.



Good quality rubber hose with Teflon gasket,the length can be customized



Two-valve manifold gauge set

Model	HMG-2-R410A-II	HMG-2-R134a-II	HMG-2-R32-II	HMG-2-1234yf
Refrigerants scale	R410A,R22,R407C,R134a	R134a,R22,R404A,R407C	R410A,R32	R134a,HFO-1234yf
Gauge Diameter	Φ68mm	Φ68mm	Φ68mm	Φ68mm
Pressure Scale	0~800psi;-30~0psi;0~550psi	0~400psi;-30~0psi;0~350psi	0~800psi;-30~0psi;0~550psi	0~400psi;-30~0psi;0~350psi
Connector	1/4"SAE-M	1/4"SAE-M	1/4"SAE-M	1/4"SAE-M
Hose	●Red-Yellow-Blue:1/4"SAE-F x1/4"SAE -F ●Red&Blue:1/4"SAE-F x5/16"SAE-F; Yellow:1/4"SAE-F x 1/4"SAE-F	●Red-Yellow-Blue:1/4"SAE-F x1/4"SAE -F ●Red&Blue:1/4"SAE-F x5/16"SAE-F; Yellow:1/4"SAE-F x 1/4"SAE-F	●Red-Yellow-Blue:1/4"SAE-F x1/4"SAE -F ●Red&Blue:1/4"SAE-F x5/16"SAE-F; Yellow:1/4"SAE-F x 1/4"SAE-F	●Red-Yellow-Blue:1/4"SAE-F x1/4"SAE -F ●Red&Blue:1/4"SAE-F x5/16"SAE-F; Yellow:1/4"SAE-F x 1/4"SAE-F
Standard Length	90cm	90cm	90cm	90cm
Package	Blow case/Blister packing/ Box packing	Blow case/Blister packing/ Box packing	Blow case/Blister packing/ Box packing	Blow case/Blister packing/ Box packing

Notice:All the above information is standard size,We also could manufacturer according to your requirment.

MANIFOLD GAUGE SET

Higher Quality And Precision



Rubber cover design with anti-collision performance



High precision pressure gauge



Strong metal knob,longer work life
Sight glass for view of the refrigerant movement.



Good quality rubber hose with Teflon gasket,the length can be customized

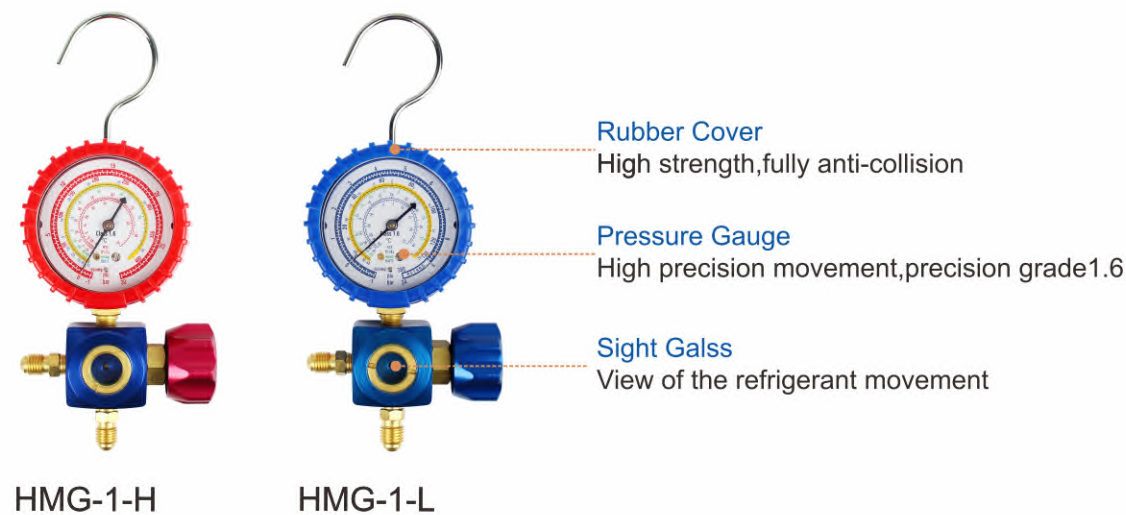
Four-valve manifold gauge set

Model	HMG-4-R410A-II	HMG-4-R134a-II	HMG-4-R32-II	HMG-4-1234yf
Refrigerants scale	R410A,R22,R407C,R134a	R134a,R22,R404A,R407C	R410A,R32	R134a,HFO-1234yf
Gauge Diameter	Φ68mm	Φ68mm	Φ68mm	Φ68mm
Pressure Scale	0~800psi;-30~0psi;0~550psi	0~400psi;-30~0psi;0~350psi	0~800psi;-30~0psi;0~550psi	0~400psi;-30~0psi;0~350psi
Connector	3x1/4"SAE,1x3/8"SAE	3x1/4"SAE,1x3/8"SAE	3x1/4"SAE,1x3/8"SAE	3x1/4"SAE,1x3/8"SAE
Hose	●Red-Yellow-Blue:1/4"SAE-F x1/4"SAE -F ●Red&Blue:1/4"SAE-F x5/16"SAE-F; Yellow:1/4"SAE-F x 1/4"SAE-F	●Red-Yellow-Blue:1/4"SAE-F x1/4"SAE -F ●Red&Blue:1/4"SAE-F x5/16"SAE-F; Yellow:1/4"SAE-F x 1/4"SAE-F	●Red-Yellow-Blue:1/4"SAE-F x1/4"SAE -F ●Red&Blue:1/4"SAE-F x5/16"SAE-F; Yellow:1/4"SAE-F x 1/4"SAE-F	●Red-Yellow-Blue:1/4"SAE-F x1/4"SAE -F ●Red&Blue:1/4"SAE-F x5/16"SAE-F; Yellow:1/4"SAE-F x 1/4"SAE-F
Standard Length	90cm	90cm	90cm	90cm
Package	Blow case/Blister packing/ Box packing	Blow case/Blister packing/ Box packing	Blow case/Blister packing/ Box packing	Blow case/Blister packing/ Box packing

Notice:All the above information is standard size,We also could manufacturer according to your requirment.

MANIFOLD GAUGE SET

Single manifold gauge set

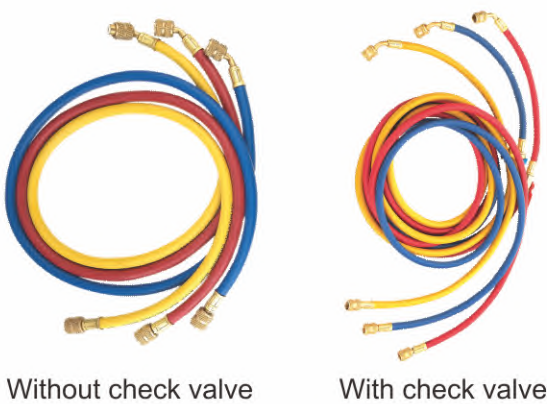


Index Dial

High/Low Pressure Gauge	Gauge Diameter	Unit	Refrigerants	Thread
	Φ68mm	℃/Psi/Bar	R410A,R22, R407C,R134a	NPT1/8"
	Φ68mm	℃/Psi/Bar	R134a,R22, R404A,R407C	NPT1/8"
	Φ68mm	℃/°F/Psi/Bar	R410A,R32	NPT1/8"
	Φ68mm	℃/°F/Psi/Bar	R134a,HFO-1234yf	NPT1/8"

Notice:All the above information is standard size,We also could manufacturer according to your requirment.

ACCESSORY



Refrigerant Hose

- Anti-leakage,More reliable
- Higher strength&quality

Model	Details	W.P.I	Burst P.	Connector Size	Check Valve
AHA-90	R22	Length:90cm	500psi	● Red-Yellow-Blue:1/4"SAE-F x 1/4"SAE -F	Optional
AHA-120		Length:120cm			
AHA-150		Length:150cm			
AHB-90	R134a	Length:90cm	600psi	● Red-Yellow-Blue:1/4"SAE-F x 1/4"SAE -F ● Red&Blue:1/2"ACME -F x M14-M; Yellow:1/2"ACME-F x 1/2"ACME-F	Optional
AHB-120		Length:120cm			
AHB-150		Length:150cm			
AHC-90	R410A	Length:90cm	800psi	● Red-Yellow-Blue:1/4"SAE-F x 1/4"SAE -F ● Red&Blue:1/2"ACME -F x M14-M; Yellow:1/2"ACME-F x 1/2"ACME-F	Optional
AHC-120		Length:120cm			
AHC-150		Length:150cm			



Quick Coupler

- Quick coupler with valve
- Suitable for all commonly used refrigerants
- Adapter on the side
- Thread is optional

Model	Description
HQC-ML	Low pressure coupler
HQC-MH	High pressure coupler

FLARING TOOL

45° Eccentric Cone Type Flaring Tool



• Chinese patent

- Easy operation,save time and energy.
- The special cone eccentric revolution will be allows the internal opening gradually and form45°accurate and regular flare without preventing tube slippage downward.Therefore,the flare face will be smooth, uniform without scratching.
- Eccentric cone will be rebound by itself after the work is finished.make the idle top head inrevolution again for 1-2 rounds and have the flare face in friction to make it prettier.



Model	Tube O.D.	Packing
AFT-E808	1/4",5/16",3/8",1/2",5/8",3/4"	Color box/Blister packing

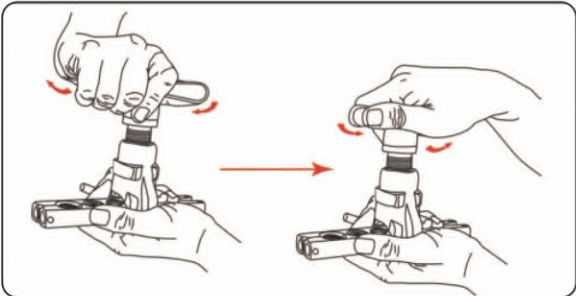
Ratchet Eccentric Cone Type Flaring Tool



- This precision tool provides smooth,uniform flares with minimum effort.
- The new ratcheting feed screw handle turns easily and requires less motion and effort than a standard handle.hand need not leave the handle to complete the flare work.more convenient to operate.
- Hardened steel flaring cone,eccentrically mounted in needle bearings, produces rolling action for even metal flow,giving uniform flare walls without galling.



• Chinese patent



Model	Tube O.D.	Packing
AFT-E809	1/4",5/16",3/8",1/2",5/8",3/4"	Color box/Blister packing

TUBE CUTTER

High-precision&SharpTube Cutter



ATC-28E/32E/42E/70E ATC-319

• Chinese patent

- Mini cutter,Length 7cm
- Big capacity in small size
- Include 2 general-purpose rollers
- 100% factory tested to ensure accuracy

ATC-28E/32E/42E/70E Features:



Adjustment knob,unique non-slip design.



High-performance ball bearings are used in both the roller and sharp alloy steel blade,so the cutter turns easily with only slight force even under the cutting load applied,more efficiently.



The ultra precise ball bearings stabilize tube better, make heavy-duty cut processing with higher quality.



Widely apply to cutting of thin-walled copper,titanium,stainless steel, aluminum tube and polyethylene(PE) pipes.

Model	Description	Material
ATC-319	1/8"~3/4"(3~19mm)	Zinc Alloy Body
ATC-28E	1/8"~1 1/8"(4~28mm)	Aluminum Alloy Body
ATC-32E	1/8"~1 1/4"(4~32mm)	Aluminum Alloy Body
ATC-42E	1/4"~1 5/8"(6~42mm)	Aluminum Alloy Body
ATC-70E	1/4"~2 5/8"(6~67mm)	Aluminum Alloy Body

BENDING TOOL

Model:AH-364A



Item No.	O.D. Tubing	Center of Tube (Radio)
AH-364A-08	1/2"	38.50mm
AH-364A-10	5/8"	56.50mm
AH-364A-12	3/4"	75.50mm
AH-364A-14	7/8"	84.20mm

- Each tool bends one size.
- For bending soft copper,brass,aluminium,steel,stainless steeland other very thinner metals.
- Calibrated marking with red colour to show angle of bend, wide hook grips tugging securely.
- Makes smooth short radius bends up to 180° with minimum effort,No scraping or flattening of tubing.
- New fixed hook tube benders furnished have easy 180° start, requires much less effort to make fast,accurate bends.

180° 3-in-one Tube Benders Model:AH-368A-05



- Aluminum alloy body,Bend radius 15/16"(24mm).
- Open size-slips on tubing at any point,can bend 0.4mm thin tube without distortion.
- Calibrated markings for making accurate left-hand, right-hand and offset bends.Making high quality bending fast and easy.
- O.D. tubing:1/4",5/16",3/8"

Deburring Tool



Model:ADT-1

- Well polished surface.
- Adopts sharp cutting edge,provides you a better finish.
- Easy to use,convenient to carry with.
- Quick to change blade by pushing the button.
- One extra blades inside

TOOL KIT



ATK-1



ATK-2

Items Included	ATK-1	ATK-2
Flaring Tool	AFT-E808: 1SET	AFT-E809: 1SET
Tube Cutter	ATC-28E: 1PC	ATC-28E: 1PC
Deburring Tool	ADT-1: 1PC	ADT-1: 1PC



ATK-3



ATK-4

Items Included	ATK-3	ATK-4
Flaring Tool	AFT-E808: 1SET	AFT-E809: 1SET
Tube Cutter	ATC-28E: 1PC	ATC-28E: 1PC
Manifold gauge	Two-valve manifold gauge: 1PC	Two-valve manifold gauge: 1PC
Refrigerant Tube	90CM length: 1SET	90CM length: 1SET
Deburring Tool	ADT-1: 1PC	ADT-1: 1PC