

AITCOOL

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AITCOOL
Aitcool Inc.



Working for a green world
2017-2018



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.



Mill and Turn Machining CNC Center



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.



Office



Sample room



Meeting room



Coil winding machine



Inserting copper coil, 100% copper



Copper coil binding machine



VPI equipment



Motor testing



BUSINESS WORLDWIDE

AITCOOL has exported to more than 40 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



Aitcool Inc CONTENTS



Vacuum Pump

VP S Series	07
VP N Series	10
A-i Series	13
Non-spark Series	15
AHV Series	16
Intake Port Fittings&Device&Power Supply Plug	17
ARV Series	18
VPI Series	19



Refrigerant Recovery Unit

Standard Series	21
Recovery&Recycling Series	23
Non-spark Series	25



Refrigeration Tools

Charging Scale	27
Manifold Gauge Set	29
Accessory	32
•Refrigerant Hose	
•Quick Coupler	
Leak Detector	33



Pipe Tools

Flaring Tool	34
Tube Cutter	35
Bending Tool	36
Deburring Tool	36
Tool Kit	37

VACUUM PUMP



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.

VACUUM PUMP VP S SERIES

100% copper coil motor



• Chinese patent



1 Stage vacuum pump

Model		VP115	VP130	VP140	VP150
Flow Rate	50Hz	1.5 CFM	2.5 CFM	3.5 CFM	4.5 CFM
		42 L/min	71 L/min	100 L/min	128 L/min
	60Hz	1.8 CFM	3.0 CFM	4.0 CFM	5.0 CFM
		50 L/min	85 L/min	115 L/min	142 L/min
Ultimate Vacuum	partial pressure	2 Pa	2 Pa	2 Pa	2 Pa
	total pressure	150 microns	150 microns	150 microns	150 microns
Power		1/4 HP	1/4 HP	1/3 HP	1/3 HP
Inlet Port		1/4" SAE	1/4" SAE	1/4" & 3/8" SAE	1/4" & 3/8" SAE
Oil Capacity		240 ml	230 ml	330 ml	320 ml
Dimensions		240×93×200mm	240×93×200mm	280×115×230mm	280×115×230mm
Weight		4.0 kg	4.3 kg	7.0 kg	7.5 kg

Model		VP160	VP170	VP190	VP1200
Flow Rate	50Hz	5.0 CFM	6.0 CFM	8.0 CFM	10 CFM
		142 L/min	170 L/min	227 L/min	283 L/min
	60Hz	6.0 CFM	7.0 CFM	9.0 CFM	12 CFM
		170 L/min	198 L/min	255 L/min	340 L/min
Ultimate Vacuum	partial pressure	2 Pa	2 Pa	2 Pa	2 Pa
	total pressure	150 microns	150 microns	150 microns	150 microns
Power		1/2 HP	3/4 HP	3/4 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
Oil Capacity		300 ml	280 ml	320 ml	600 ml
Dimensions		320×125×232mm	320×125×232mm	340×132×245mm	390×140×252mm
Weight		8.0 kg	8.5 kg	12.0 kg	14.5 kg

VACUUM PUMP VP S SERIES

100% copper coil motor



• Chinese patent



2 Stage vacuum pump

Model		VP215	VP230	VP240	VP250
Flow Rate	50Hz	1.5 CFM	2.5 CFM	3.5 CFM	4.5 CFM
		42 L/min	71 L/min	100 L/min	128 L/min
	60Hz	1.8 CFM	3.0 CFM	4.0 CFM	5.0 CFM
		50 L/min	85 L/min	115 L/min	142 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 microns	15 microns	15 microns	15 microns
Power		1/4 HP	1/3 HP	1/2 HP	1/2 HP
Inlet Port		1/4" SAE	1/4" & 3/8" SAE	1/4" & 3/8" SAE	1/4" & 3/8" SAE
Oil Capacity		230 ml	300 ml	350 ml	350 ml
Dimensions		240×93×200 mm	280×115×230 mm	320×125×232 mm	320×125×232 mm
Weight		4.3 kg	7.8 kg	8.3 kg	8.6 kg

Model		VP260	VP270	VP290	VP2200
Flow Rate	50Hz	5.0 CFM	6.0 CFM	8.0 CFM	10 CFM
		142 L/min	170 L/min	227 L/min	283 L/min
	60Hz	6.0 CFM	7.0 CFM	9.0 CFM	12 CFM
		170 L/min	198 L/min	255 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
	total pressure	15 microns	15 microns	15 microns	15 microns
Power		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
Oil Capacity		330 ml	450 ml	600 ml	600 ml
Dimensions(mm)		320×125×230 mm	340×132×245 mm	370×145×252 mm	390×145×252 mm
Weight		9 kg	12.5 kg	15.5 kg	16 kg

VACUUM PUMP VP S SERIES

100% copper coil motor



• Chinese patent



Dual voltage vacuum pump

Model		VP215D	VP230D	VP240D	VP250D
Flow Rate	50Hz	1.5 CFM	2.5 CFM	3.5 CFM	4.5 CFM
		42 L/min	71 L/min	100 L/min	128 L/min
	60Hz	1.8 CFM	3.0 CFM	4.0 CFM	5.0 CFM
		50 L/min	85 L/min	115 L/min	142 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 microns	15 microns	15 microns	15 microns
Power		1/4 HP	1/3 HP	1/2 HP	1/2 HP
Inlet Port		1/4" SAE	1/4" & 3/8" SAE	1/4" & 3/8" SAE	1/4" & 3/8" SAE
Oil Capacity		150 ml	300 ml	350 ml	350 ml
Dimensions(mm)		240×93×200 mm	280×115×230 mm	320×125×232 mm	320×125×232 mm
Weight		4.3 kg	7.8 kg	8.3 kg	8.6 kg

Model		VP260D	VP270D	VP290D	VP2200D
Flow Rate	50Hz	5.0 CFM	6.0 CFM	8.0 CFM	10 CFM
		142 L/min	170 L/min	227 L/min	283 L/min
	60Hz	6.0 CFM	7.0 CFM	9.0 CFM	12 CFM
		170 L/min	198 L/min	255 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
	total pressure	15 microns	15 microns	15 microns	15 microns
Power		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
Oil Capacity		330 ml	450 ml	600 ml	600 ml
Dimensions(mm)		320×125×230 mm	340×132×245 mm	370×145×252 mm	390×145×252 mm
Weight		9kg	12.5kg	15.5kg	16kg



Low Profile On/Off Rocker Switch
110V/220V Power Selector Switch
6 Ft. Removable Power Cord

VACUUM PUMP VP N SERIES

More Stable, Longer Worklife



Integral structure pump body



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



Thermal And Overload Protector
High performance thermal and overload protector makes it safety to operate



100% Copper Coil Motor
More reliable

• Chinese patent



1 Stage vacuum pump

Model		VP115N	VP130N	VP140N	VP150N
Flow Rate	50Hz	1.8 CFM	2.5 CFM	3.5 CFM	4.5 CFM
		51 L/min	71 L/min	100 L/min	128 L/min
	60Hz	2.0 CFM	3.0 CFM	4.0 CFM	5.0 CFM
		57 L/min	85 L/min	115 L/min	142 L/min
Ultimate Vacuum	partial pressure	2 Pa	2 Pa	2 Pa	2 Pa
	total pressure	150 microns	150 microns	150 microns	150 microns
Power		1/4 HP	1/4 HP	1/3 HP	1/3 HP
Inlet Port		1/4" SAE	1/4" SAE	1/4" & 3/8" SAE	1/4" & 3/8" SAE
Oil Capacity		240 ml	230 ml	330 ml	320 ml
Dimensions		240×93×200mm	240×93×200mm	280×115×230mm	280×115×230mm
Weight		4.0 kg	4.3 kg	7.0 kg	7.5 kg

Model		VP160N	VP170N	VP190N	VP1200N
Flow Rate	50Hz	5.0 CFM	6.0 CFM	8.0 CFM	10 CFM
		142 L/min	170 L/min	227 L/min	283 L/min
	60Hz	6.0 CFM	7.0 CFM	9.0 CFM	12 CFM
		170 L/min	198 L/min	255 L/min	340 L/min
Ultimate Vacuum	partial pressure	2 Pa	2 Pa	2 Pa	2 Pa
	total pressure	150 microns	150 microns	150 microns	150 microns
Power		1/2 HP	3/4 HP	3/4 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
Oil Capacity		300 ml	280 ml	320 ml	600 ml
Dimensions		320×125×232mm	320×125×232 mm	340×132×245mm	390×140×252 mm
Weight		8.0 kg	8.5 kg	12.0 kg	14.5 kg

VACUUM PUMP VP N SERIES



• Chinese patent



2 Stage vacuum pump

Model		VP215N	VP230N	VP240N	VP250N
Flow Rate	50Hz	1.8 CFM	2.5 CFM	3.5 CFM	4.5 CFM
		51 L/min	71 L/min	100 L/min	128 L/min
	60Hz	2.0 CFM	3.0 CFM	4.0 CFM	5.0 CFM
		57 L/min	85 L/min	115 L/min	142 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 microns	15 microns	15 microns	15 microns
Power		1/4 HP	1/3 HP	1/2 HP	1/2 HP
Inlet Port		1/4" SAE	1/4" & 3/8" SAE	1/4" & 3/8" SAE	1/4" & 3/8" SAE
Oil Capacity		230 ml	300 ml	350 ml	350 ml
Dimensions		240×93×200 mm	280×115×230 mm	320×125×232 mm	320×125×232 mm
Weight		4.3 kg	7.8 kg	8.3 kg	8.6 kg

Model		VP260N	VP270N	VP280N	VP290N	VP2200N
Flow Rate	50Hz	5.0 CFM	6.0 CFM	7.0 CFM	8.0 CFM	10 CFM
		142 L/min	170 L/min	227 L/min	283 L/min	283 L/min
	60Hz	6.0 CFM	7.0 CFM	8.0 CFM	9.0 CFM	12 CFM
		170 L/min	198 L/min	227 L/min	255 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	3/4 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		330 ml	450 ml	500 ml	630 ml	630 ml
Dimensions		320×125×230 mm	340×132×245 mm	360×132×245 mm	390×145×252 mm	390×145×252 mm
Weight		9.0 kg	12.5 kg	13.5 kg	15.5 kg	16 kg

VACUUM PUMP VP N SERIES



Low
Profile
On/Off
Rocker
Switch

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

• Chinese patent



Dual voltage vacuum pump

Model		VP215ND	VP230N	VP240ND	VP250ND
Flow Rate	50Hz	1.8CFM	2.5CFM	3.5CFM	4.5 CFM
		51 L/min	71 L/min	100 L/min	128 L/min
	60Hz	2.0 CFM	3.0 CFM	4.0 CFM	5.0 CFM
		57 L/min	85 L/min	115 L/min	142 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 microns	15 microns	15 microns	15 microns
Power		1/4 HP	1/3 HP	1/2 HP	1/2 HP
Inlet Port		1/4"SAE	1/4" & 3/8"SAE	1/4" & 3/8"SAE	1/4" & 3/8"SAE
Oil Capacity		230 ml	300 ml	350 ml	390 ml
Dimensions		240x93x200 mm	280x115x230 mm	320x125x232 mm	320x125x232 mm
Weight		4.3 kg	7.8 kg	8.3 kg	8.6 kg

Model		VP260ND	VP270ND	VP280ND	VP290ND	VP2200ND
Flow Rate	50Hz	5.0 CFM	6.0 CFM	7.0 CFM	8.0 CFM	10 CFM
		142 L/min	170 L/min	198 L/min	227 L/min	283 L/min
	60Hz	6.0 CFM	7.0CFM	8.0 CFM	9.0 CFM	12 CFM
		170 L/min	198 L/min	227 L/min	255 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	3/4 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		330 ml	450 ml	500 ml	630 ml	630 ml
Dimensions		320x125x230 mm	340x132x245 mm	360x132x245 mm	390x145x252 mm	390x145x252 mm
Weight		9.0 kg	12.5 kg	13.5 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



Thermal And Overload Protector
High performance thermal and overload protector makes it safety to operate



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

• Chinese patent



1 Stage vacuum pump

Model		A-i120	A-i130	A-i140	A-i150
Flow Rate	50Hz	1.8CFM	2.5CFM	3.5CFM	4.5CFM
		51L/min	71L/min	100L/min	128L/min
	60Hz	2.0CFM	3.0CFM	4.0CFM	5.0CFM
		57L/min	85L/min	113L/min	142L/min
Ultimate Vacuum	partial pressure	1Pa	1Pa	1Pa	1Pa
	total pressure	75microns	75microns	75microns	75microns
Power		1/3HP	1/2HP	1/2HP	1/2HP
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	330ml	230ml	450ml
Dimensions		240x93x200 mm	280x115x230 mm	320x125x232 mm	340x132x245 mm
Weight		5.0kg	7.8kg	8kg	10.0kg

Model		A-i160	A-i180	A-i190	A-i1200
Flow Rate	50Hz	5.0CFM	7.0CFM	8.0CFM	10CFM
		142L/min	198L/min	227L/min	283L/min
	60Hz	6.0CFM	8.0CFM	9.0CFM	12CFM
		170L/min	227L/min	255L/min	340L/min
Ultimate Vacuum	partial pressure	1Pa	1Pa	1Pa	1Pa
	total pressure	75microns	75microns	75microns	75microns
Power		1/2HP	3/4HP	3/4HP	1HP
Inlet Port		1/4" & 3/8"SAE	1/4" & 3/8"SAE	1/4" & 3/8"SAE	1/4" & 3/8"SAE
Oil Capacity		350ml	320ml	600ml	600ml
Dimensions		340x132x245 mm	360x132x245 mm	390 x140 x252mm	390x140x252 mm
Weight		11.0kg	13.5kg	14.0kg	14.5kg

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



Thermal And Overload Protector
High performance thermal and overload protector makes it safety to operate



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

• Chinese patent

2 Stage vacuum pump

Model		A-i210	A-i220	A-i230	A-i240
Flow Rate	50Hz	1.0 CFM	1.8 CFM	2.5 CFM	3.5 CFM
		28 L/min	51 L/min	71 L/min	100 L/min
	60Hz	1.5 CFM	2.0 CFM	3.0 CFM	4.0 CFM
		42 L/min	57 L/min	85 L/min	113 L/min
Ultimate Vacuum	partial pressure	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa
	total pressure	7.5 Microns	7.5 Microns	7.5 Microns	7.5 microns
Power		1/4 HP	1/2 HP	1/2 HP	1/2 HP
Inlet Port		1/4"SAE	1/4" & 3/8"SAE	1/4" & 3/8"SAE	1/4" & 3/8"SAE
Oil Capacity		230 ml	350 ml 230ml	330ml	600 ml
Dimensions		240×93×200 mm	280×115×230 mm	320×125×232 mm	340×132×245 mm
Weight		4.5kg	8.5kg	9.5kg	11 kg

Model		A-i250	A-i260	A-i280	A-i290	A-i2200
Flow Rate	50Hz	4.5 CFM	5.0 CFM	7.0 CFM	8.0 CFM	10 CFM
		128 L/min	142 L/min	198 L/min	227 L/min	283 L/min
	60Hz	5.0 CFM	6.0 CFM	8.0 CFM	9.0 CFM	12 CFM
		142 L/min	170 L/min	227 L/min	255 L/min	340 L/min
Ultimate Vacuum	partial pressure	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa
	total pressure	7.5 microns	7.5 microns	7.5 microns	7.5 microns	7.5 microns
Power		1/2 HP	3/4 HP	1 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		530 ml	500 ml	600 ml	550 ml	550 ml
Dimensions		340X132X245 mm	360x132x245 mm	390x145x252 mm	390x145x252 mm	390x145x252 mm
Weight		12 kg	13.5 kg	15 kg	16 kg	17 kg

VACUUM PUMP NON-SPARK SERIES

Suit for R32, HFO-1234yf refrigerant



Integral structure pump body



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



Thermal And Overload Protector
High performance thermal and overload protector makes it safety to operate



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

• Chinese patent

2 Stage vacuum pump

Model		A-i210-NS	A-i220-NS	A-i230-NS	A-i240-NS
Flow Rate	50Hz	1.0 CFM	1.8 CFM	2.5 CFM	3.5 CFM
		28 L/min	51 L/min	71 L/min	100 L/min
	60Hz	1.5 CFM	2.0 CFM	3.0 CFM	4.0 CFM
		42 L/min	57 L/min	85 L/min	113 L/min
Ultimate Vacuum	partial pressure	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa
	total pressure	7.5 Microns	7.5 Microns	7.5 Microns	7.5 microns
Power		1/4 HP	1/2 HP	1/2 HP	1/2 HP
Inlet Port		1/4"SAE	1/4" & 3/8"SAE	1/4" & 3/8"SAE	1/4" & 3/8"SAE
Oil Capacity		230 ml	350 ml 230ml	330ml	600 ml
Dimensions		240×93×200 mm	280×115×230 mm	320×125×232 mm	340×132×245 mm
Weight		4.5kg	8.5kg	9.5kg	11 kg

Model		A-i250-NS	A-i260-NS	A-i280-NS	A-i290-NS	A-i2200-NS
Flow Rate	50Hz	4.5 CFM	5.0 CFM	7.0 CFM	8.0 CFM	10 CFM
		128 L/min	142 L/min	198 L/min	227 L/min	283 L/min
	60Hz	5.0 CFM	6.0 CFM	8.0 CFM	9.0 CFM	12 CFM
		142 L/min	170 L/min	227 L/min	255 L/min	340 L/min
Ultimate Vacuum	partial pressure	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa	1×10 ⁻⁴ Pa
	total pressure	7.5 microns	7.5 microns	7.5 microns	7.5 microns	7.5 microns
Power		1/2 HP	3/4 HP	1 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		530 ml	500 ml	600 ml	550 ml	550 ml
Dimensions		340X132X245 mm	360x132x245 mm	390x145x252 mm	390x145x252 mm	390x145x252 mm
Weight		12 kg	13.5 kg	15 kg	16 kg	17 kg

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 142L/min	7.0CFM 198L/min	9CFM 255L/min	10CFM 283L/min
	60Hz	6.0CFM 170L/min	8.0CFM 227L/min	10CFM 283L/min	12CFM 340L/min
Ultimate Vacuum	partial pressure	1×10 ⁻³ Pa	1×10 ⁻³ Pa	1×10 ⁻³ Pa	1×10 ⁻³ 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 fittings & Device



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	Ball valve + 1/4" SAE
T2	Ball valve + 1/4" SAE & 1/2" ACME
S1	Solenoid valve + 50mm Gauge
S2	Solenoid valve + 80mm 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	Israel 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

Features

- 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-16	ARV-24	ARV-30	ARV-50	ARV-70	ARV-90
Flow Rate M ³ /h(L/s)	50Hz 16(4.4)	24(6.7)	30(8.3)	50(13.9)	70(19.4)	90(25)
	60Hz 19.2(5.3)	28.8(8.0)	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
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
Ultimate total Pressure gas ballast open	8×10 ⁻¹ Pa	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	3-phase	3-phase	3-phase
Rated Power	0.75kw/0.55kw	1.1kw/0.75kw	1.1 kw	1.5 kw	2.2 kw	3 kw
Inlet and Exhaust port	KF 25	KF 25/40	KF 25/40	KF 40	KF 40	KF 40
Oil Capacity	0.9-1.5L	1.2-2.0L	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
	60Hz 1720	1720	1720	1720	1720	1720
Operation Temp.	5-40℃	5-40℃	5-40℃	5-40℃	5-40℃	5-40℃
Noise Level(dB)	≤58	≤58	≤58	≤58	≤58	≤58
Dimensions	520×192×295 mm	520×192×295 mm	520×192×295 mm	720×240×390 mm	720×240×390 mm	780×290×460 mm
Weight	32 kg	35 kg	38 kg	60 kg	65 kg	80 kg

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	VPI-2014	VPI-2024
Flow Rate M ³ /h(CFM)	50Hz 20(12)	36(20)
	60Hz 24(14)	43(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-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℃	5 - 40℃
Noise Level(dB)	≤58	≤58
Weight	32kg	32kg

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 Shut-off 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.

Refrigerant Recovery Unit Standard Series



• Chinese patent



Model		RECO250/RECO250D		
Refrigerants		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-411B, R-412A, R-502, R-509		
		Cat. V : R-402A, R-404A, R-407A, R-407B, R-410A, R-507		
Power		110-127V/60HZ	220-240V 50/60HZ	110-220V 50/60HZ
Motor	1/2HP AC; Capacitor start			
Max. Current	4A@50HZ 8A@60HZ			
Compressor	Oil-less; air cooled; piston style			
Refrigerant Recovery Rate		Cat. III	Cat. IV	Cat. V
	Vapor	0.23kg/min	0.25kg/min	0.26kg/min
	Liquid	1.57kg/min	1.81kg/min	1.85kg/min
	Push/Pull	4.84kg/min	5.57kg/min	6.22kg/min
High pressure shut-off		38bar/550psi		
Low pressure shut-off		Optional		
80%OPF Shut-off kit		Optional		
Operating Temp.		0°C-40°C		
Dimensions		515mm(L)×220mm(W)×365mm(H)		
Net Weight		12kg		

Refrigerant Recovery Unit Standard Series



• Chinese patent

Model		RECO520/RECO520D		
Refrigerants		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-411B, R-412A, R-502, R-509		
		Cat. V : R-402A, R-404A, R-407A, R-407B, R-410A, R-507		
		110-127V/60HZ	220-240V 50/60HZ	110-220V 50/60HZ
Power		1HP AC; Capacitor start		
Motor		6A@50HZ 12A@60HZ		
Max. Current		Oil-less; air cooled; Twin-piston style		
Compressor				
Refrigerant Recovery Rate		Cat. III	Cat. IV	Cat. V
	Vapor	0.46kg/min	0.50kg/min	0.52kg/min
	Liquid	3.14kg/min	3.62kg/min	3.70kg/min
	Push/Pull	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°C-40°C		
Dimensions		485mm(L)×230mm(W)×365mm(H)		
Net Weight		13kg		

Refrigerant Recovery Unit Recovery & Recycling Series

- With oil separator device
- Purification and recycling of the refrigerants



Oil Separator
Separate oil from A/C system

• Chinese patent

Model		RECO250S/RECO250SD		
Refrigerants		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-411B, R-412A, R-502, R-509		
		Cat. V : R-402A, R-404A, R-407A, R-407B, R-410A, R-507		
		110-127V/60HZ	220-240V 50/60HZ	110-220V 50/60HZ
Power		1/2HP AC; Capacitor start		
Motor		4A@50HZ 8A@60HZ		
Max. Current		Oil-less; air cooled; piston style		
Compressor				
Refrigerant Recovery Rate		Cat. III	Cat. IV	Cat. V
	Vapor	0.23kg/min	0.25kg/min	0.26kg/min
	Liquid	1.57kg/min	1.81kg/min	1.85kg/min
	Push/Pull	4.84kg/min	5.57kg/min	6.22kg/min
Recycling Rate		1.57kg/min	1.81kg/min	1.85kg/min
High pressure shut-off		38bar/550psi		
Low pressure shut-off		Optional		
80%OFP Shut-off kit		Optional		
Operating Temp.		0°C-40°C		
Dimensions		515mm(L)×220mm(W)×365mm(H)		
Net Weight		12kg		

Refrigerant Recovery Unit Recovery & Recycling Series

- With oil separator device
- Purification and recycling of the refrigerants



Oil Separator
Separate oil from A/C system

• Chinese patent

Model		RECO520S/RECO520SD		
Refrigerants		Cat. III : R-12, R-134a, R-401C, R-408A, R-500		
		Cat. IV : R-22, R-401A, R-401B, R-402B, R-407C, R-407D, R-408A, R-408A, R-411A, R-411B, R-412A, R-502, R-509		
		Cat. V : R-402A, R-404A, R-407A, R-407B, R-410A, R-507		
Power		110-127V/60HZ	220-240V 50/60HZ	110-220V 50/60HZ
Motor	1HP AC;Capacitor start			
Max. Current	6A@50HZ 12A@60HZ			
Compressor	Oil-less; air cooled; Twin-piston style			
Refrigerant Recovery Rate		Cat. III	Cat. IV	Cat. V
	Vapor	0.46kg/min	0.50kg/min	0.52kg/min
	Liquid	3.14kg/min	3.62kg/min	3.70kg/min
	Push/Pull	9.28kg/min	11.14kg/min	12.44kg/min
Recycling Rate		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°C-40°C			
Dimensions	515mm(L)×230mm(W)×385mm(H)			
Net Weight	13kg			

Refrigerant Recovery Unit Non-spark 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-NS			RECO520-NS		
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-408A, 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		110-220V 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°C-40°C					
Dimensions		465mm(L)X220MM(W)X345mm(H)			465mm(L)X220MM(W)X345mm(H)		
Net Weight		10kg			11kg		

Refrigerant Recovery Unit Non-spark Series

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



Oil Separator
Separate oil from A/C system

• 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		RECO250S-NS			RECO520S-NS			
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		110-220V 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%OFF;Shut-off kit				Optional				
Operating Temp.				0°C-40°C				
Dimensions		465mm(L)X220mm(W)X345mm(H)			465mm(L)X220mm(W)X345mm(H)			
Net Weight		10kg			11kg			

Charging Scale



Model:CS-50/CS-100
• Large LCD and Sensor
• Four-button keypad



Model:CS-50N/CS-100N/CS-150N



Blow Case
Rugged,blow case for maximum protection from damage with ergonomic and portable design



Large LCD and Sensor
Anti-collision control box with rubber protector
Six-button keypad,With weight lock device and resolution choice device

• Products customizations

Specifications					
Model	CS-50	CS-100	CS-50N	CS-100N	CS-150N
Capacity	110LB/50KG	220LB/100KG	110LB/50KG	220LB/100KG	330LB/150KG
Unit Shift	LB/KG/OZ	LB/KG/OZ	LB/KG/OZ	LB/KG/OZ	LB/KG/OZ
Accuracy	0.015% of reading	0.015% of reading	0.015% of reading	0.015% of reading	0.015% of reading
Resolution	2g	5g	2g & 1g	5g & 2g	10g & 5g
Display	Large LCD,67*25mm	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	Three gear backlight
Platform	230*230mm	230*230mm	230*230mm	230*230mm	230*230mm
Weight	3.6kg	3.8kg	4.0kg	4.0kg	4.0kg
Power	9V battery included	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 ℃	-4 ℃ to 156 ℃ /-10 ℃ to 50 ℃
Programmable	No	No	No	No	No

Charging Scale

Model:CS-50V/CS-100V/CS-150V



Specifications			
Model	CS-50V	CS-100V	CS-150V
Capacity	110LB/50KG	220LB/100KG	330LB/150KG
Unit Shift	LB/KG/OZ	LB/KG/OZ	LB/KG/OZ
Accuracy	0.015% of reading	0.015% of reading	0.015% of reading
Resolution	2g & 1g	5g & 2g	10g & 5g
Display	Large LCD,67*25mm	Large LCD,67*25mm	Large LCD,67*25mm
Lamp	Three gear backlight	Three gear backlight	Three gear backlight
Platform	230*230mm	230*230mm	230*230mm
Weight	4.5kg	4.5kg	4.5kg
Power	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℃
Programmable	Yes	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	ø68mm	ø68mm	ø68mm	ø68mm
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 requirement.

Manifold Gauge Set

Higher Quality And Precision



1/4"SAE 3/8"SAE 1/4"SAE 1/4"SAE



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	68mm	68mm	68mm	68mm
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 x 1/4"SAE-F •Red&Blue: 1/4"SAE-F x 5/16"SAE-F; Yellow: 1/4"SAE-F x 1/4"SAE-F	•Red-Yellow-Blue: 1/4"SAE-F x 1/4"SAE-F •Red&Blue: 1/4"SAE-F x 5/16"SAE-F; Yellow: 1/4"SAE-F x 1/4"SAE-F	•Red-Yellow-Blue: 1/4"SAE-F x 1/4"SAE-F •Red&Blue: 1/4"SAE-F x 5/16"SAE-F; Yellow: 1/4"SAE-F x 1/4"SAE-F	•Red-Yellow-Blue: 1/4"SAE-F x 1/4"SAE-F •Red&Blue: 1/4"SAE-F x 5/16"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 manufacture according to your requirement.

Manifold Gauge Set

Single manifold gauge set



HMG-1-H

HMG-1-L

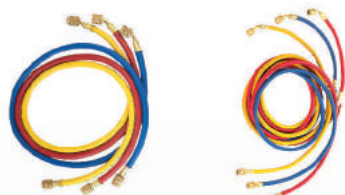
Rubber Cover
High strength, fully anti-collision
Pressure Gauge
High precision movement, precision grade 1.6
Sight Glass
View of the refrigerant movement

Index Dial

High/Low Pressure Gauge	Gauge Diameter	Unit	Refrigerants	Thread
	68mm	°C/Psi/Bar	R410A, R22, R407C, R134a	NPT1/8"
	68mm	°C/Psi/Bar	R134a, R22, R404A, R407C	NPT1/8"
	68mm	°C/°F/Psi/Bar	R410A, R32	NPT1/8"
	68mm	°C/°F/Psi/Bar	R134a, HFO-1234yf	NPT1/8"

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

Accessory



Without check valve

With check valve

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
QC-ML	Low pressure coupler
QC-MH	High pressure coupler

Model	Description
QC-ML4	Low pressure coupler
QC-MH4	High pressure coupler

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

Leak Detector

• Model: HLD-100

Technical Features:

- Adopt advanced, low power consu, med-eight bit microprocessor controller
- Dual-color LED indicator light with progressive and real time display
- Sensitivity adjustable, seven level alarming indicated by LED display
- Modular sensor, convenient for maintenance
- Seven levels audible and visual alarm
- Auto reset testing when the detect or is turned on
- Battery level indication

Technical parameters:

- Sensor type: negative corona sensor
- Ultimate sensitivity: 3g/yr
- Operating Environment: Temperature: 0°C ~ 5°C
Humidity: <95% RH (Non-condensing)
- Power supply: two 2# Alkaline Batteries
- Sensor tip life under continuous operation: more than 50 hours in normal detecting status
- Specification: 230 x 60 x 55 (mm)
- Probe length: 36mm



• Model: LD-100/200

Technical Features:

- Human engineering design, more comfortable in operation
 - Flexible stainless steel probing rod can detect hard-to-reach places,
 - Replaceable probe
- The detector responds to all halogenated refrigerants (including Chlorine and Fluorine), which include but not limited to:
- CFCs, e.g. R12, R11, R500, R503 etc.
 - HCFCs, e.g. R22, R123, R124, R502 etc.
 - HFCs, e.g. R134a, R404a, R410a, R407c, R32 etc.
 - HCs, e.g. R600a, R290 etc.
 - HFOs, e.g. R1234yf etc.

Technical parameters:

- 6-level sensitivity regulation, Max leak detection: 3g/yr (LD-200: 7-level)
 - Response time: < 3s, Warm-up time: about 60s
 - Recovery time: < 10s (It depends on the detection environment)
 - Power supply: 3 AA batteries (LD-200: rechargeable lithium battery).
 - Battery life: 4h (LD-200: 6h)
- Conform to ROHS, Conform to SAE J1627 and EN14624 standards
Specification: Overall size 256*53*58 mm, Probing rod length 417mm



Flaring Tool

45° Eccentric Cone Type Flaring Tool



AFT-C808

• Chinese patent



AFT-808



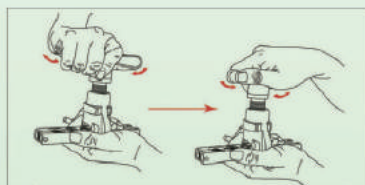
- Easy operation, save time and energy.
- The special cone eccentric revolution will allow the internal opening gradually and form 45° accurate and regular flare without preventing tube slippage downward. Therefore, the flare face will be smooth, uniform without scratching.
- Eccentric cone will be rebound by itself after the work is finished, make the idle top head in revolution again for 1-2 rounds and have the flare face in friction to make it prettier.

Model	Tube O.D.	Packing
AFT-C808	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	Color box/Blister packing
AFT-808	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-809	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	Color box/Blister packing

Tube Cutter

High-precision & Sharp Tube Cutter



ATC-428/532/650/670



ATC-319

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

• Chinese patent

ATC-428/532/650/670 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-428	1/8"~1 1/8" (4~28mm)	Aluminum Alloy Body
ATC-532	1/8"~1 1/4" (4~32mm)	Aluminum Alloy Body
ATC-650	1/4"~2" (6~50mm)	Aluminum Alloy Body
ATC-670	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-04	1/4"	14.30mm
AH-364A-05	5/16"	17.50mm
AH-364A-06	3/8"	23.30mm
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.

90° 3-in-one Tube Benders

Model:AH-368A-90-05



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-808: 1SET	AFT-809: 1SET
Tube Cutter	ATC-428 or ATC-532: 1PC	ATC-428 or ATC-532: 1PC
Deburring Tool	ATD-1: 1PC	ATD-1: 1PC



ATK-3



ATK-4

Items Included	ATK-3	ATK-4
Flaring Tool	AFT-808: 1SET	AFT-809: 1SET
Tube Cutter	ATC-428: 1PC	ATC-428: 1PC
Manifold gauge	Two-Valve manifold gauge: 1PC	Two-Valve manifold gauge: 1PC
Refrigerant Tube	90CM length: 1SET	90CM length: 1SET
Deburring Tool	ATD-1: 1PC	ATD-1: 1PC