

WIPCOOL

I Notice before usage

- Thank you for buying WIPCOOL refrigerant recovery machine, we are dedicated to providing you with high quality products.
- Please check if your ordered goods in good shipment condition, with the correct accessories, any damage during transportation, please contact us or the local distributors in time if you find any problems.
- If there is any change in the product (including the specification), we won't inform any more.

A Warning

In order to make sure this product run stably and long-term, please read this instruction before you use, examine and repair or maintain it, be sure that you are know each details on the SAFETY GUIDELINES, OPERATION and other items, and run the unit per this instruction strictly:

- 1. Only qualified technicians or under their supervision are allowed to operate this recovery unit.
- 2. Always wear safety goggles and protective gloves when working with refrigerants, to protect your skin and eyes from liquid/gas refrigerants.
- 3. Use ONLY authorized refillable refrigerant tanks. It requires the use of recovering tanks with a minimum of 45bar(650psi) working pressure. Do not overfill the storage tank. Tank is full at 80% volume. There should be enough space for liquid expansion-overfilling the tank may cause an violent explosion.
- 4. Only qualified electricians are allowed to connect the wire per the electrical equipment standard; also the ground wire should be connected effectively before
- 5. When using an extension cord, it should be a 14AWG minimum also no longer than 7.5meters, or it may depress the voltage and damage the compressor.
- 6. Do not expose this recovery machine in the sun or rain.
- 7. Be sure that any room where you are working in is thoroughly ventilated.
- 8. Please put the unit horizontally when using it, if it is put tipsily, the compressor may be vibrated, the noise larger, the parts are wore out easily, shorten its service
- 9. A scale must be used to avoid overfilling the storage tank, when this unit is used with refrigerant tank.

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- 10. When the unit is not used, all the valve should be closed, Because the air or the moisture of the air may harm the recovery result and shorten the service life
- 11. If the wire is damaged, you must choose the wire with earth wire or buy the replacement from our company.
- 12. The using power must stay same with the power of the label.
- 13. Make sure cut-off power before you checking and repair this unit; cut-off nower before you doing any operations
- 14. This intake pressure (means the indicated value in low voltage) can not over 26bar(377psi)!

II GENERAL SAFETY GUIDELINES

- 1. Do not mix different refrigerants together in one tank, otherwise they could not he senarated or used
- 2. Before recovering the refrigerant, the tank should achieve the vacuum level: -75cmHg(-29.6inHg), which is for purging non-condensable gas. Each tank was full of nitrogen when it was manufactured in the factory, thus the nitrogen should be evacuated before the first use.
- 3. A dry filter must always be used and should be replaced frequently. And each type of refrigerant mush have its own filter. For the sake of assuring the normal operation of the unit, please use the filter specified by our company. High quality dry filters will bring high quality services.
- 4. When this unit is not being used, the switch should be lies on the "Close" position, the connector of inlet and outlet should be cover with the cap, to make sure the air or the moisture of air won't going into the unit, if not, it may harm the recovery result and shorten the service life of this machine.
- 5. Special care should be taken when recovering from a burned-out system. Use two high quality dry filters.
- 6. A scale must be used to avoid overfilling the storage tank, when this unit is used with refrigerant tank
- 7. To maximize recovery rates, we recommend that use the hose, and its inner diameter should be more than 4mm, and length is no more than 1.5meter; if not, the recovery rate will be reduced.

8. When recovering large amount of liquid, use the Push/Pull method.

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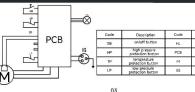
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- 9. After recovering, make sure there is no refrigerant left in the unit. Read the Self-Purging Method carefully. Remained refrigerant may be expanded and destroy the components
- 10. This unit has an Internal Pressure Shut Off switch. If the pressure inside the system go above the rated pressure, the system will automatically shut itself off, When you reset it, make sure the internal pressure has been reduced(the high press gauge shows the value under 30bar), press the button of ON/OFF after the flashing red light turn to flashing green light.

When the unit is protected caused by high pressure, you must find the reason and solve the problem, then you can start this unit. Some suggestions on the question and solution of high pressure protection:

- 1) The input valve of refrigerant tank isn't be turned on, so please turn on the
- 2) The hose connect this unit and tank is air-logged, then you should turn off the valve of this unit and tank, change a good hose:
- 3) The temperature of tank is too high, then the pressure is higher, when the tank is cooling by itself, then the temperature and pressure will lower.
- 11. If the unit is to be stored and not used for long time, we recommend that it
- should completely evacuate off any residual and purged with dry nitrogen. 12. Please wash the air inlet screen frequently, keep it clean, it is fixed in the air inlet connector; if it is damaged, please replace a new one in time.
- 13. The low pressure meter shows the input pressure of compressor, and high pressure meter shows the output pressure.
- 14. Over to use this unit, please put the switch on "close" position.

III WIRING DIAGRAM



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IV CDECIFICATIONS

IV SPECIFICATIONS						
Refrigerant		III: R12, R134A, R401C, R406A, R500, R1234yf				
		IV: R22, R401A, R401B, R402B, R407C,				
		R407D, R408A, R409A, R411A, R411B,				
		R412A, R502, R509				
		V: R402A, R404A, R407A, R407B, R410A, R507, R32				
Voltage		230V~/50 - 6	0Hz 110		/~/60Hz	
Motor		3/4HP				
Motor Speed		2300RPM				
Max, Current Draw		4A			8A	
Compressor Type		"Oil-less", air cooled, piston-style				
High pressure shut off		38.5bar/3850kpa(558psi)				
		III		IV	V	
Recovery Rate	Vapor	0.22 kg/min	0.25	kg/min	0.25 kg/min	
	Liquid	1.8 kg/min	2.0	kg/min	2.2 kg/min	
	Push/Pull	5.0 kg/min	6.0	kg/min	6.5 kg/min	
Operating Temp.		0°C - 40°C				
Dimensions		259mm(L)*235mm(W)*410mm(H)				
		0.51				

V PARTS DIAGRAM AND PARTS LIST



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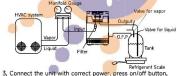
Code	Part Description	Code	Part Description
1	Motor controller	9	Motor
2	Copper tube	10	Fan
3	Control valve	11	Bottom support plate
4	Switch	12	Bottom shell component
5	Compressor	13	Body shell component
6	Control valve holder	14	Waist
7	Condenser	15	Upper shell component
8	Upper support plate		

VI REFRIGERANT LIQUID/VAPOR RECOVERY METHOD

1. Rotate Switch to "Liquid Recovery" position



2. Connect the hose correctly and fi t solidly(please



- 4, Open the valve of tank,
- 5. Open the liquid port on your manifold gauge set, start the recovery.
- 6. When finishing the liquid recovery, rotate switch to "FAST" position, it will accelerate the recovery speed of residual air refrigerant,

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- 1) If the compressor starts to knock, turn the rotary switch to "Liquid Recovery" position. If the whomp is still exist, then clockwise rotate switch slowly, and the value of low voltage is decrease, don't stop until the whomp is gone, pay attention: the low voltage can't be equal 0, otherwise, the input port won't evacuating.
- 2) If power off or hard starting, turn rotary switch to "liquid recovery" position after turning it three times, then open the power switch.
- 7. Run until desired vacuum level is achieved or close automatically caused by low voltage protector, then the recovery finish, and star to self-purging.

VII SELF-PURGING METHOD

- 1. When recovery the refrigerant is done, don't cut-off the power, put Rotary Switch on the "Purge" position.
- 2. Run until desired vacuum level is achieved, then self-purging is over.
- 1) Turn off the valve of tank,
- 2) Turn off the stop valve of hose of air output (if it is existed) 3) Turn off the liquid port and vapor port on your manifold gauge set.
- 4) Turn off the valve, which connecting the refrigerant system and manifold
- gauge.
- 5) Turn off power, disconnect all hoses carefully and slowly.
- 6) Fix the cap on the input and output port.

VIII WHOLE SYSTEM PUSH/PULL METHOD

△ Caution

PUSH/PULL method is only applicable to large systems where the liquid refrigerant is heavier than 10kg,

When using the "Push/Pull" method, a scale must be used to avoid overfilling the storage tank, once the siphon is started, it can continue and overfill the storage tank even if the tank is equipped with a float level sensor. The siphon can continue even when the machines is turned off. You must manually close the valves on the tank and the unit to prevent overfilling of the recovery tank.

- 1. Turn Rotary Switch on "Liquid Recovery" position.
- 2. Connect the hoses of system, make sure they are connected rightly and fixed solidly (Please see the connected diagram)

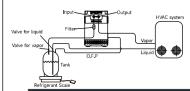
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Description

Signal lighting

PCB board

- 3. Press on/off button, start the unit.
- 4. Open the liquid valve and vapor valve of recovery tank,
- 5. Rotate switch on "FAST" position, start to use PUSH/PULL method.
- 6. When the show value on the scale isn't variable or it is variable slowly, that means PUSH/PULL method is finished, then need to change into VAPOR Recovery method.(Please re-connect all the hose per "Vapor Recovery method", then recovery the residual vapor in the unit and hose.)
- 7. Turn off the air valve of tank, then turn off the power of recovery unit.
- 8. After turning off all the valves, disconnect all hoses, then recovery the residual refrigerant per the liquid/vapor recovery method.
- 9. Self-purging after recovering



VIIII TROUBLSHOOTING

Problem	Cause	Action		
Compressor does not start when Power ON. 1.The unit is in high pressure shut off. 2.Output pressure is too high. 3.Failure in motor, or other electrical componen		1.Reduce pressure and then press the button of the high Pressure Switch. 2.Rotate two circles to the position of "Liquid recovery" 3.Factory service required.		
Compressor starts but cuts off within a few minutes,	1.Improper operation cause HP cut off 2.Refrigerant is 80% in the tank, and O.F.P cutcoff 3.Failure in motor, or other electrical components.	1.Reference ILIO 2.Replace the refrigerant tank 3.Factory service required.		
Recovery process too slow	1.Head pressure is too high 2.Compressor seals are worn	UReduce tank temperature with storage tank cooling method 2.Factory service required		
Unit does not pull. 1.Connecting hoses are loose 2.Leakage in unit		1.Tighten the connecting hoses 2.Factory service required		

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