



VALUE[®]

Refrigerant Recover /Charge Scale VES-50B/100B



OPERATING MANUAL



Dear User:

Thank you for choosing **VALUE**® Product. For best result and right way to use it, please read this operating manual carefully before using, and especially “Safety Guide”. We suggest that you’d better keep this manual with the product or a place where you can easily find for later reference.

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1. UNPACKING INSPECTION

Open the package case and please check the following parts to see if any missing or damaged. If so, please contact your dealer immediately.

Part description	Qty
● Operating Manual	1
● Carrying Case	1
● Scale (fixed scale pan)	1
● Backup Battery	1
● Power Cord	1
● Hook	1

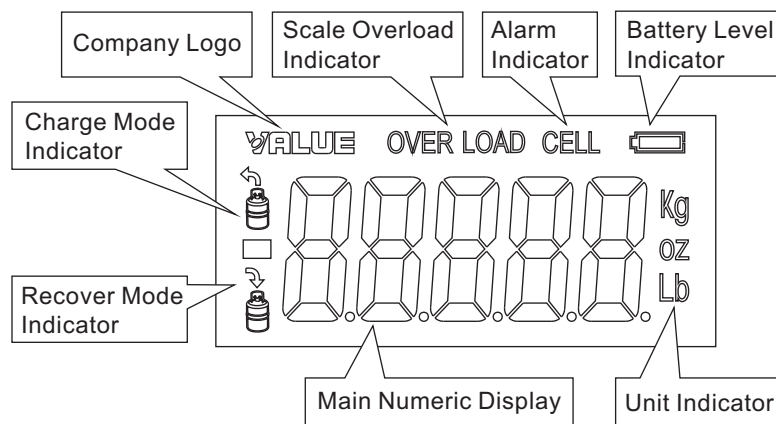
2. SAFETY GUIDE

- 2.1 Check the scale before. Please do not use it if any part missing or damaged. *www.MrCool.ir*
- 2.2 Please do not weight items that are over the maximum capacity of the scale. This could damage the scale.
- 2.3 Please try to place the item in the middle of the scale pan and do not shake, never let any items (include the helix line) contact with the scale, otherwise will influence the precision.
- 2.4 Please do not storage or use the scale at a place where is high temperature, high humidity, explosive, flammable or strong electromagnetic fields.
- 2.5 Please do not change the internal circuit of electronic scale.
- 2.6 Please do not pull the helix line, this could damage the scale.
- 2.7 Please replace the battery when battery alarm on.
- 2.8 Before use, please confirm whether the power is for single-phase AC power use, otherwise it will damage the scale.
- 2.9 Cover the cap on inlet/outlet port after each use.
- 2.10 Turn the scale off after each use. If the unit is to be stored or not used for long time, take the battery out of the electronic scale. The scale turns off automatically after 30 minutes without pressing any buttons.

3. TECHNICAL PARAMETER

Model	VES-50B	VES-100B
Weighing range	50Kg/110Lb/1764oz	100Kg/220Lb/3528oz
Resolution	2g/0.01Lb/0.1oz	5g/0.01Lb/0.2oz
Accuracy	0.05%	
Display	LCD(7 segment)	
Power	9V DC & AC(110V~240V)	
Working Environment	-10°C~40°C(14°F~104°F)	
Inlet/Outlet Port	1/4 " SAE	
Platform Size	237×237mm/ 9 1/3 " ×9 1/3 "	
Anti-collision	YES	
Weight	6.2Kg	

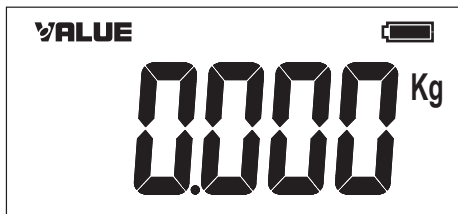
4. LCD DISPLAY



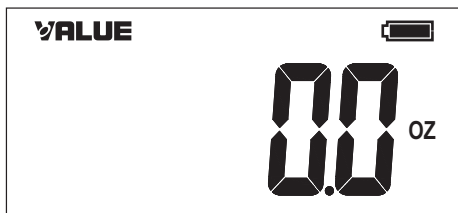
5. OPERATING MANUAL

5.1 FUNCTION SET

There are three weight units: Kg(kilogram)、oz(ounce)、Lb(pound). Pressing “Function” key to scroll among kg, oz and lb. The scale will set weight units as kg (kilogram) automatically.



Press “Function” key, switch to oz .



Press “Function” key again, switch to Lb.



5.2 B/L SET

According to different needs, press “B/L” key the scale can turn B/L (backlight) on or off. The color of the B/L is blue. The scale will not set backlight as automatically. It will turns B/L off automatically after 30s without pressing any buttons.

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5.3 SCALE MODE

The first weight will be more than 1Kg(include 1Kg), and after that the weight will display accurately as the resolution in the technical parameter form.

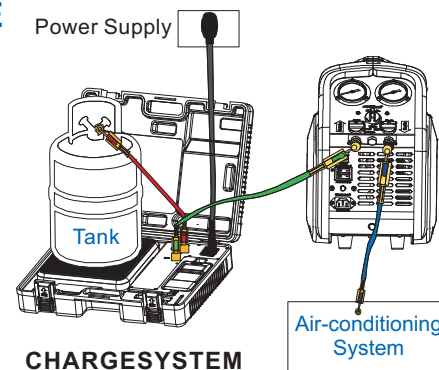
5.4 CLEAR SET

1. Press “CLEAR” key to cancel all function and back to SCALE MODE;
2. Press “ENTER” key to exit CLEAR MODE and display actual weight.

5.5 CHARGE MODE

This function allows the user to quickly and conveniently charge a system in a minimal amount of time. Simply turns on the CHARGE MODE and enter the weight (minimum 50g) to be charged.

1. Make sure all connections are correct and tight (refer to following illustration):



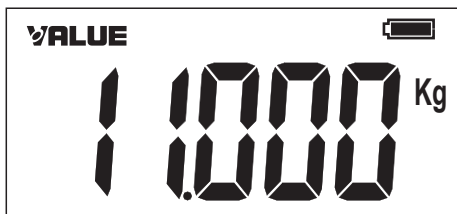
2. Turn the scale on.
3. Place refrigerant tank on scale. Wait for the reading to settle out.
e.g. The refrigerant tank is 12 Kg, the following screen will appear:



4. Press "Charge" key, the Charging Indicator will appear, and enter the weight to be charged, then press "Enter" key. The solenoid valve will open and the refrigerant will start to transfer.
e.g. The weight to be charged is 1 Kg, press "Charge", "1", "Enter" step by step.



5. When the entered amount of refrigerant has been transferred, the solenoid valve will shut off automatically and the scale will display the gross weight of refrigerant tank.



6. If the scale is not connected to the AC power, the solenoid valve will not work. The scale's buzzer will alarm when charging nearly finish (refrigerant ≤ 0.05 Kg). when the charge is completed, stop the charge system manually. Press the "Enter" key exit to screen, the scale will display the gross weight of refrigerant tank.

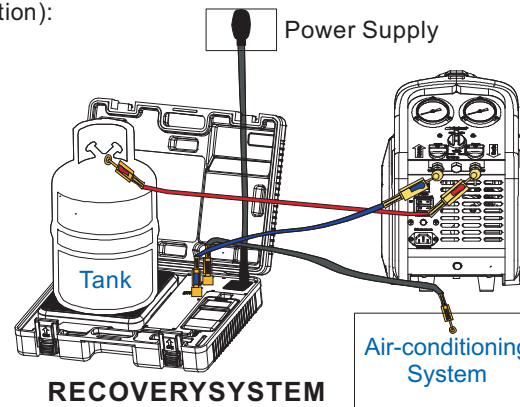
⚠ Caution:

- a. If you press a wrong key during charge mode, press "ENTER" key to cancel the previous operation, then press "CHARGE" key, the previous screen will appear.
- b. If you want to finish earlier during charge mode, press "CLEAR" key to stop.

5.6 RECOVER MODE

The scale is not only a stand-alone scale but also can be compared with a recovery/recycle machine component of a system.

1. Make sure all connections are correct and tight (refer to following illustration):



2. Turn the scale on.
3. Place refrigerant tank on scale. Wait for the reading to settle out.
e.g. The refrigerant tank is 12 Kg, the following screen will appear:



4. Press “Recover” key, the Recovering Indicator will appear, and enter the weight to be recovered, then press “Enter” key. The solenoid valve will open and the refrigerant will start to transfer.
 e.g. The weight to be recovered is 1.5 Kg, press “Charge”、“1”、“.”、“5”、“Enter” step by step.



5. When the entered amount of refrigerant has been transferred, the solenoid valve will shut off automatically and the scale will display the gross weight of refrigerant tank.



6. If the scale is not connected to the AC power, the solenoid valve will not work. The scale’s buzzer will alarm when recovering nearly finish

(refrigerant ≤ 0.05 Kg). when the recover is completed, stop the recover system manually. Press the “Enter” key exit to screen, the scale will display the gross weight of refrigerant tank.

⚠ Caution:

- a. If you press a wrong key during recover mode, press “ENTER” key to cancel the previous operation, then press “RECOVER” key ,the previous screen will appear.
- b. If you want to finish earlier during recover mode, press “CLEAR” key to stop.
- c. If the entered recover weight is more than the gross weight of tank, the scale will display “ERROR”, please re-enter the recover weight.
- d. It is very dangerous if the recovering weight is more than 80% capacity of the refrigerant tank.

5.7 REPEAT MODE

The “Repeat” key is used to repeat the previously entered charge /recover weight. After the first charge/recover cycle is complete, press the “Repeat” key, it will start to charge/recover the same quantity as last time.

6.MAINTENANCE

1. Clean the surface of scale can only use a damp cloth and a little mild detergent. Do not use chemical solvents.
2. Turn the scale off after each use. Take the battery out for storage.
3. Do not use or store the scale in a place of humidity, high temperature, explosive, inflammable or strong magnetic field. *www.MrCool.ir*
4. For overhaul and repair of the machine, ask an appointed VALUE distributor or contact with VALUE company directly. It will be out of warranty if the product disassembled by unauthorized individual.
5. Before each using please check the solenoid valve inlet whether there is any visible admixture. If yes, please clip out the metal filter to clean then put it back again.

Caution: If there is a mistake or system is down, please press “POWER” key to shutdown and wait for three seconds, then press “POWER” key to restart.