

**Making Your Job More Enjoyable**  
**Refrigerant Charge/Recover Scale**  
**VES-50B/100B**

Vrecoool doo



**VALUE Mechanical & Electrical Products CO., LTD**

Add: No. 5 Third Street, East Industrial Park, Wenling, Zhejiang, China

Tel: +86-576-86191959

Email: [value@worldvalue.cn](mailto:value@worldvalue.cn)    [www.worldvalue.cn](http://www.worldvalue.cn)

**VALUE** • Quality Assurance



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.

## CONTENT

---

UNPACKING INSPECTION .....	03
SAFETY GUIDE .....	03
TECHNICAL PARAMETER .....	04
LCD DISPLAY .....	05
OPERATING MANUAL .....	05
FUNCTION SET .....	05
B/L SET .....	06
SCALE MODE .....	06
CLEAR SET .....	07
CHARGE MODE .....	07
RECOVER MODE .....	10
REPEAT MODE .....	12
MAINTENANCE .....	13

Vrecoool100

### UNPACKING INSPECTION

Open the package case and take out the scale. 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 and hand held	1
● Backup Battery	1
● Hook	1
● Power Cord	1

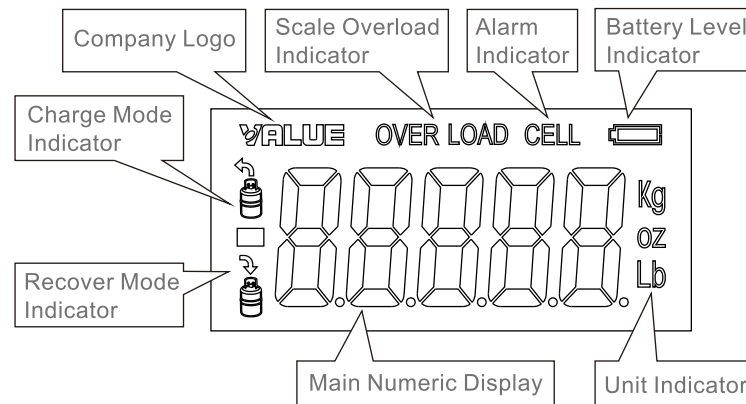
### SAFETY GUIDE

- 2.1 Check the scale before. Please do not use it if any part missing or damaged.
- 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.

### TECHNICAL PARAMETER

Model	VES-50B	VES-100B
Weighing range	50Kg/110Lb/1764oz	100Kg/220Lb/3528oz
Resolution	2g/0.01Lb/0.1oz	5g/0.01Lb/0.21oz
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	237x237mm/ 9 1/3"x9 1/3"	
Anti-collision	YES	
Weight	6.2Kg	

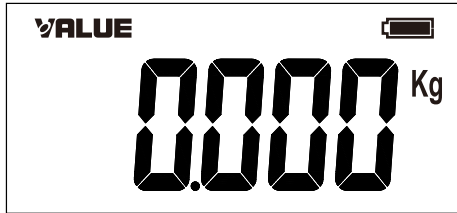
### LCD DISPLAY



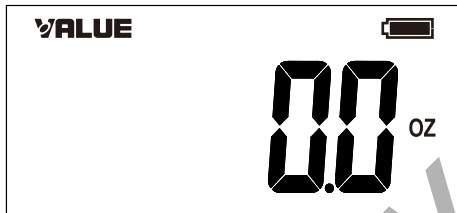
**OPERATING MANUAL**

**5.1 FUNCTION SET**

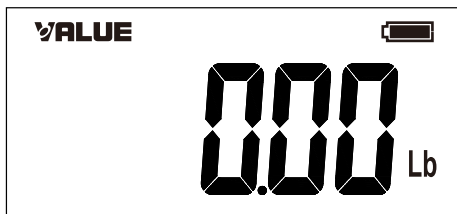
There are three weight units: kg(kilogram)、oZ(ounce)、lb(pound).Pressing "Function" key to scroll among kg, OZ and lb. The scale will set weight units as kg (kilogram) automatically.



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.

**5.3 SCALE MODE**

The first weight will be more than 20g, and after thatthe weight will display accurately as the resolution in the technical parameter form.

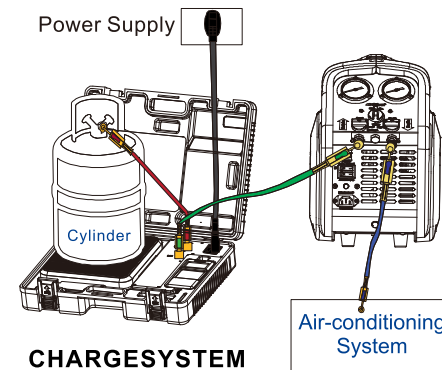
**5.4 CLEAR SET**

Press "Clear" to clear the current weight.

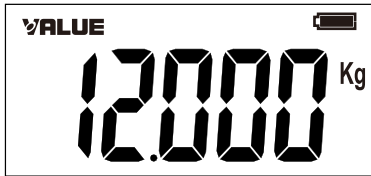
**5.5 CHARGE MODE**

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.

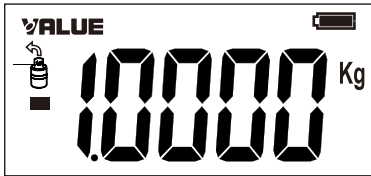
1. Make sure all connections are correct and tight (refer to following illustration)



2. Turn the handheld on.
3. Place refrigerant cylinder on scale. Wait for the reading to settle out, it displays the total weight of refrigerant cylinder e.g. The refrigerant cylinder is 12 Kg, the following screen will appear:



3. 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 15 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 total weight of refrigerant cylinder.



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.

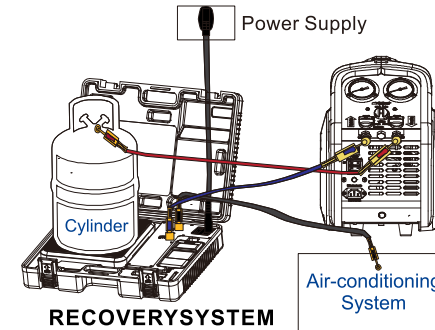
**Caution:**

1. In charge mode, press "Charge" key to display the setting weight of charge.
2. If you press a wrong key during charge mode, there are two methods to re-enter.  
Method 1. First, press the "Enter" key twice to cancel the last operation, then press "Charge" key again to enter the charge weight.  
Method 2. The digital input is in loop mode. When the last digit input is completed, it will automatically jump to the first digit. At this time, the first digit is flashing. When the first digit is entered, the subsequent digits will turn to "0". You can re-enter the subsequent digits.
3. In the process of charging, press "Enter" key to finish the charge mode ahead of time.

**5.6 RECOVER MODE**

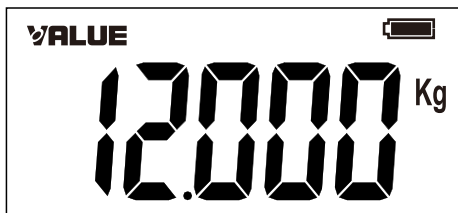
The scale is not only a stand-alone scale but also can be compared with a recovery/recycle machine component of a system.

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



2. Turn the handheld on.
3. Place refrigerant tank on scale. Wait for the reading to settle out, it displays the total weight of refrigerant cylinder.

For example: The refrigerant cylinder is 20kg, 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 charged is 1.5 Kg, press "Recover", "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 <math>< 0.05 \text{ Kg}</math>). when the recover is completed, stop the recover system manually. Press the "Enter" key exit to screen, the scale will display the total weight of refrigerant tank.

### ⚠ Caution:

1. In recover mode, press "Recover" key to display the setting weight of recover.
2. If you press a wrong key during recover mode, there are two methods to re-enter.  
Method 1. First, press the "Enter" key twice to cancel the last operation, then press "Recover" key again to enter the recover weight.  
Method 2. The digital input is in loop mode. When the last digit input is completed, it will automatically jump to the first digit. At this time, the first digit is flashing. When the first digit is entered, the subsequent digits will turn to "0". You can re-enter the subsequent digits.
3. In the process of recovery, press "Enter" key to finish the recover mode ahead of time.
4. The recover weight should not exceed 80% of the total cylinder capacity.
5. The total weight of recovered refrigerant and cylinder should not exceed the range of scale's measuring range.

### 5.7 REPEAT MODE

Press "Repeat", it will flash three times and indicate the same weight as last time, then it will directly start to charge/recover mode as last operation.

### 6. MAINTENANCE

- 6.1 Clean the surface of scale can only use a damp cloth and a little mild detergent. Do not use chemical solvents.
  - 6.2 Turn the scale off after each use. Take the battery out for storage.
  - 6.3 Do not use or store the scale in a place of humidity, high temperature, explosive, inflammable or strong magnetic field.
  - 6.4 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.
  - 6.5 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.

### Correct Disposal of this product:

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

