

VALUE[®]

Refrigerant Charge /Recover Scale

VES-50A/100A

VALUE[®]
www.worldvalue.cn



OPERATING MANUAL

CE

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

1. UNPACKING INSPECTION.....	3
2. SAFETY GUIDE.....	3
3. TECHNICAL PARAMETER.....	4
4. LCD DISPLAY.....	5
5. OPERATING MANUAL.....	5
FUNCTION SET.....	5
B/L SET.....	6
SCALE MODE.....	6
CLEAR SET.....	7
CHARGE MODE.....	7
RECOVER MODE.....	10
REPEAT MODE.....	12
6. MAINTENANCE.....	13

1. 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	1
● Backup Battery	1
● Hook	1

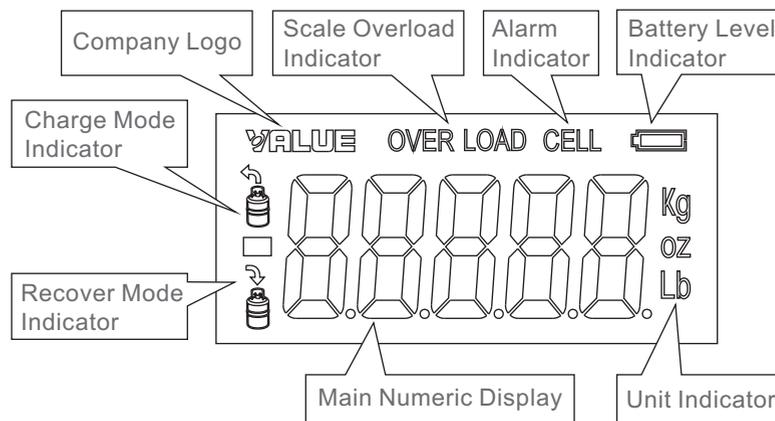
2. SAFETY GUIDE

- 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 The scale pan can be placed both in carrying case and outside. the scale pan must be in level during operation, otherwise it will influence the precision.
- 2.4 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.
- 2.5 Please do not storage or use the scale at a place where is high temperature, high humidity, explosive, flammable or strong electromagnetic fields.
- 2.6 Please do not change the internal circuit of electronic scale.
- 2.7 Please do not pull the helix line, this could damage the scale.
- 2.8 Please replace the battery when battery alarm on.
- 2.9 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-50A	VES-100A
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, ≥80 hrs. continuous	
Working Environment	-10°C~40°C(14°F~104°F) ≤75%RH	
Platform Size	237×237mm/ 9 1/3"×9 1/3"	
Weight	5Kg	
Anti-collision	YES	

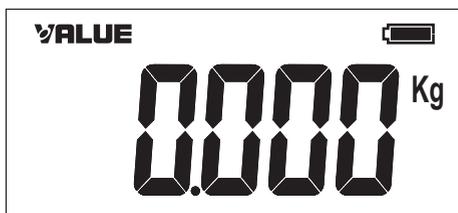
4. LCD DISPLAY



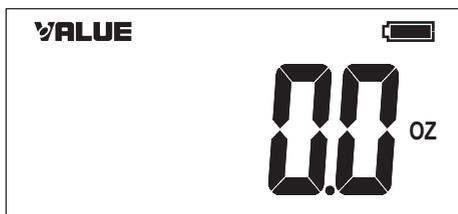
5. OPERATING MANUAL

5.1 FUNCTION SET

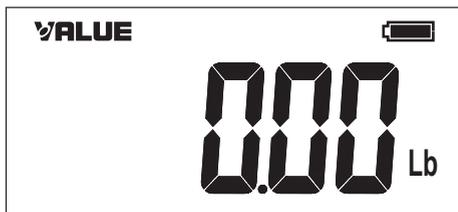
There are three weight units: kg(kilogram)、oz(ounce)、lb(pound). Pressing “Function” key to scroll among kg, oz and lb. The scale will set weight units as kg (kilogram) automatically.



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.

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.

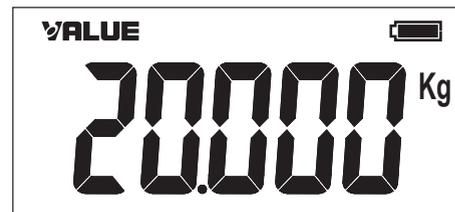
5.4 CLEAR SET

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

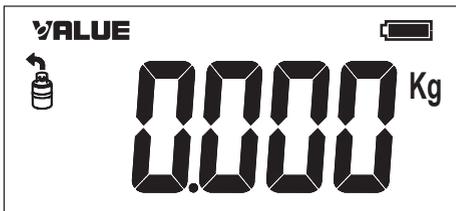
This function allows the user to quickly and conveniently charge a system in a minimal amount of time. Simply turns on the CHARGE MODE and enter the weight (minimum 50g) to be charged.

1. Turn the scale on.
2. Place refrigerant tank on scale. Wait for the reading to settle out.
For example: The refrigerant tank is 20kg, the following screen will appear:

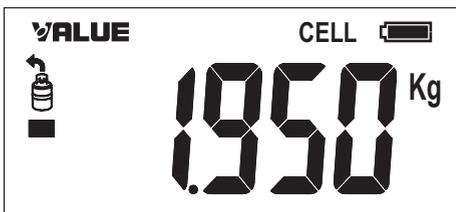


3. Press “Charge” key, the Charging Indicator will appear, and enter the weight to be charged, then press “Enter” key.

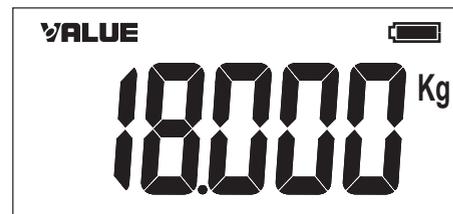
For example: The weight to be charged is 2kg, press “Charge”、 “2”、 “Enter” step by step.



4. The scale will now start charge the entered amount of refrigerant. The scale’s buzzer will alarm when charging nearly finish (refrigerant≤0.05kg).



5. When the number displayed as the same as the previously entered charge weight, the charge is completed, stop the charge system manually. LCD displays the left amount refrigerant (like the screen bellow). Press the “Enter” key exit to screen.



Caution:

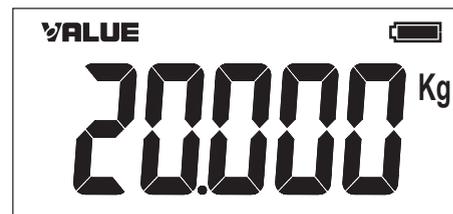
If you press a wrong key during charge mode, press “ENTER” key to cancel the previous operation, then press “CHARGE” key ,the previous screen will appear.

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.

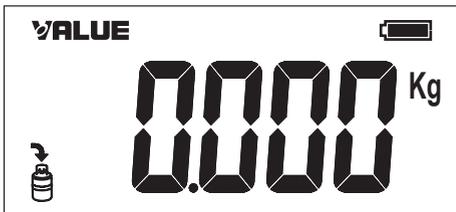
1. Turn the scale on.
2. Place refrigerant tank on scale. Wait for the reading to settle out.

For example: The refrigerant tank is 20kg, the following screen will appear:

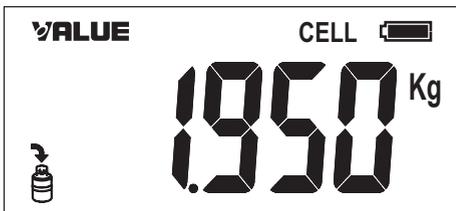


3. Press“RECOVER”key, and enter the weight to be recovered, then press “Enter”.

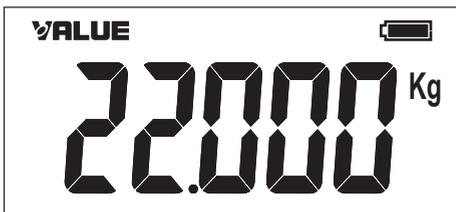
For example: The weight to be recovered is 2kg, press “RECOVER” 、 “2”、 “Enter” step by step:



4. The scale will now start recovering the entered amount of refrigerant. The scale's buzzer will alarm when recovering nearly finish (refrigerant $\leq 0.05\text{kg}$).



5. When recovering is completed, LCD displays the left amount refrigerant (like the screen below). Press the "Enter" key exit to screen.



⚠ Caution:

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.

⚠ Caution:

If the entered recover weight is more than the gross weight of tank, the scale will display "ERROR", please re-enter the recover weight.

⚠ Caution:

It is very dangerous if the charging 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.

⚠ 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.

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.