everwell®

User Manual

ERS-820

Professional Electronic **Refrigeration Scale**

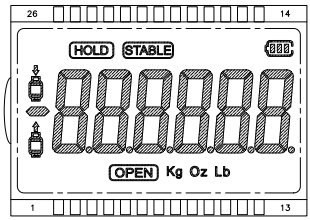
For up to 100kg (220lb)

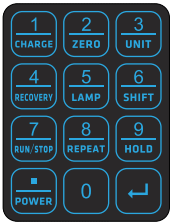
Introduction

Thank you for choosing Everwell's refrigerant scale. For correct usage please read over the manual first, especially the Safety Notice. Do not discard this manual for future reference and your convenience.

Parameters

Max Weighing: 100kg (220lb)	Operating Temperature: -10°C~40°C (14°F~104°F)
Resolution: 5g	Storage Temperature: -15°C~50°C (5°F~122°F)
Accuracy: ±0.05% rdg+10g	Temperature Fluctuation Range: 5°C/h (9°F/h)
Power Supply: 5 AAA batteries	Relative Humidity: 50~85%
Duration: 35 hours	Product Size: 27.1×27.1×7.4 cm (10.6×10.6×2.9 in)





STABLE : Stable weight indicator.

: Power indicator.

: Charge icon.

: Recovery icon.

HOLD : Current weight is locked.

OPEN : Solenoid valve is open.

: Switch to pressure display status.

“POWER”: Press to turn on the scale; press and hold for 3 seconds to turn it off.

“ZERO”: Press to zero current reading on display.

“UNIT”: Press to switch between “kg”, “oz” and “lb”.

“LAMP”: Press to turn on the blue backlight and it will last for 10 seconds. Press and hold for 3 seconds to keep the backlight on all the time, buzzer will beep once as indication. Press it again to turn off the backlight.

“CHARGE”: Press to set charge value.

“RECOVERY”: Press to set recovery value.

“SHIFT”: Press to switch between weighing status and pressure detection status (reserved).

“RUN/STOP”: Press to stop or start solenoid valve instantly.

“REPEAT”: Press to repeat the last entered operation of charge or recovery.

“ ↵ ”: Enter button. After setting charge/recovery value, press this button to enter charge/recovery status. If the data is set wrong, press and hold the button for 3 seconds to exit settings. Please set it again. During charge/recovery, press this button to exit charge/recoverystatus and return to normal weighing status.

Quick Start

1. Install 5 AAA batteries in the hand-held device.
2. Place the platform on a firm and level surface.
3. Press the “POWER” button on the hand-held device.
4. Press “UNIT” to select proper unit.
5. Press “ZERO” to tare the scale.
6. Place the object to be weighed until STABLE appears stable. Read the weight on the LCD.
7. Charge: press CHARGE to set charge value, and then press ↵ to start charging.
8. Recovery: Press RECOVERY to set recovery value, and then press ↵ to start recovery.
9. Press “RUN/STOP”: solenoid valve is instantly on (OPEN icon is always on) or off (OPEN icon is always off).
10. Press “HOLD” to lock the current weight value.

Functions

Weighing operation:

The scale is designed to weight up to 100Kg (220lb).

1. Take out the scale from the package and place the platform on firm and level surface.
2. Draw out the spiral line of the hand-held device from the side of the scale.
3. Press the “POWER” button on the hand-held device. The alarm beeps once indicating self-test is finished.
4. Press “UNIT” to switch between “kg”, “oz” and “lb”.
5. Press “ZERO” to tare the scale.
6. Place the refrigerant tank in the center of the scale platform; zero it again to display the weight of refrigerant.
7. Press “HOLD” to freeze current display. The displayed weight value will not change with the change of weight on the platform.

Charge or recover:

1. Press CHARGE/RECOVER to set charge/recovery value, the screen will display “-” on the right, and charge icon (recovery icon) will flash.
2. Input the value to be set, confirm the value and press “ ↵ ” to start charging. If the value is set wrong, press and hold “ ↵ ” to exit the current status. Repeat the operation above to set charge/recovery value.
3. In charge/recovery status, charge icon recovery icon is always on. When solenoid valve is opened, OPEN is always on.
4. Charge status: The initial display is 0.000. When the detected weight drops, the screen displays the charged weight. The value increases slowly until it reaches the set-point, solenoid valve switches off automatically, OPEN turns off and the alarm beeps. Press any button to exit alarm at this moment.

When the detected weight rises, the screen will display “-” on the left. When the value is less than -0.2kg (-0.44lb), an error occurs in the charge process. The solenoid valve switches off automatically, OPEN turns off, charge status ends and the scale enters normal weighing status.

Recovery status: The initial display is recovery set-point. When the detected weight rises, the screen displays the remaining recovery volume. The value decreases slowly until it becomes 0.000 (maximum permissible errors). Solenoid valve switches off automatically, turns off and the alarm beeps. Press any button to exit alarm at this moment.

When the detected weight drops, the value on the screen will increase. When the value is -0.2kg (-0.44lb) more than the recovery set-point, an error occurs in the recovery process. Solenoid valve switches off automatically, OPEN *turns off, the recovery status ends and the scale enters normal weighing status.*

5. When one charge (recovery) operation is finished, press REPEAT to directly carry out the last operation, saving your time to set the same value.

6. Press "RUN/STOP" to instantly turn solenoid valve on or off.

Over range indication:

If the weight applied to the weighing platform exceeds the maximum weight (100kg/220lb), characters "FULL" will appear on the screen, the buzzer will beep constantly and red LED will flash to indicate alarm.

To prevent damage to the scale and sensor, please do not place objects over 100Kg (220lb) on the platform.

Battery level indicator:

The battery power is indicated in segments, which reduce with power consumption until the frame of flashes. Later on, the LCD will display unstably.

Please change batteries before the LCD displays unstably in case an error message affects the normal use of the scale.

Other functions:

1. Power-on self-test: it lasts less than 2 seconds.

2. Tare in full weighing rang (100kg/220lb).

3. The LCD displays numbers from high to low digit. The digit that exceeds the digit range will not be displayed.

4. Auto off: If the weight on the platform does not change for 10 minutes, the scale turns off automatically.

Safety Notice

1. Please use the scale in specified environment to avoid error or damage of the sensor.
2. Please do not use chemical solvent or corrosive liquid to clean the scale.
3. Please do not disassemble the scale body and inner device; otherwise, it may cause great weighing error.
4. Please do not pull the spiral line hard in case measuring error is enlarged or the sensor damaged.

Note: Remove the batteries if the scale is not to be used for a long time in case the leakage corrodes the scale. The batteries included are not rechargeable. Please do not charge them.

Packing List

ERS-820 refrigerant scale
Charge valve
Nylon case
5 AAA alkaline battery
User manual

everwell®

Vapor Service Port
Outdoor AC Unit
High Load Refrigerant Scale
Liquid Service Port
Manifold
Recovery Machine