

## Introduction

Thank you for your purchase of the RCS-N9030 large flow electronic refrigerant programmable charging scale. The RCS-N9030 utilize the most technologically advanced and precise refrigerant meter available today with features that can not be found anywhere else. It is ideal for HVAC and refrigeration service, including Critical Charging of small refrigeration systems. With the RCS-N9030 you can measure weight in both metric and English units.

The RCS-N9030 is programmable, and has a built-in alarm to indicate a programmed threshold has been exceeded .

## Features

- Large flow charging (1KG per 45 seconds)
- Hard plastic wrapped controller, protect better and good looking
- High-visibility LCD display
- Measures weight in kgs and lbs
- Built-in memory remembers all previous settings
- Rugged, compact design
- The unit will turn off automatically after 15 minutes non-use.
- High accuracy and resolution
- Programmable
- Can be calibrated in the field with inexpensive reference weight
- Long battery life



**Specifications**

**RCS-N50A**

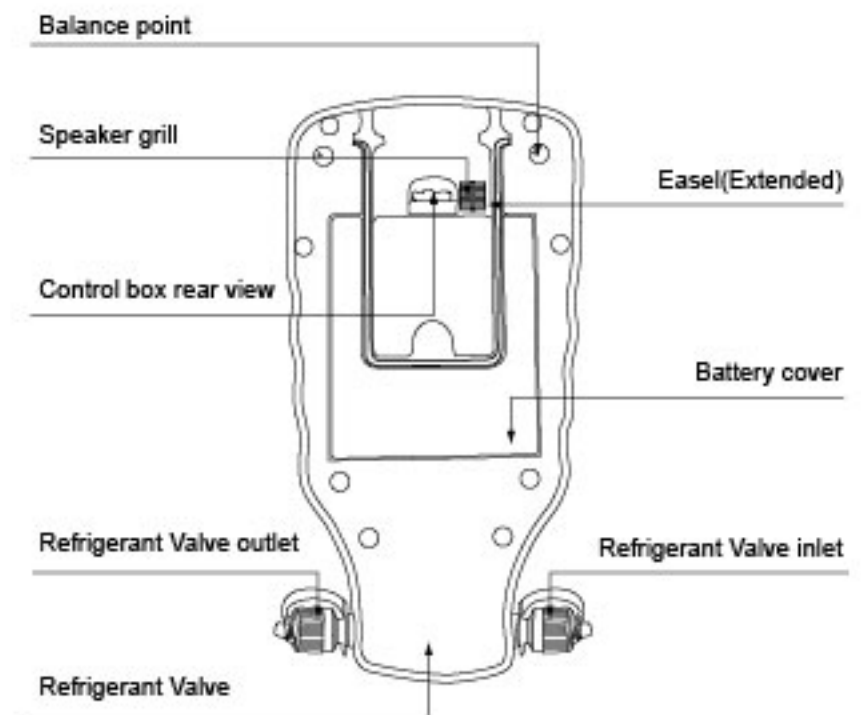
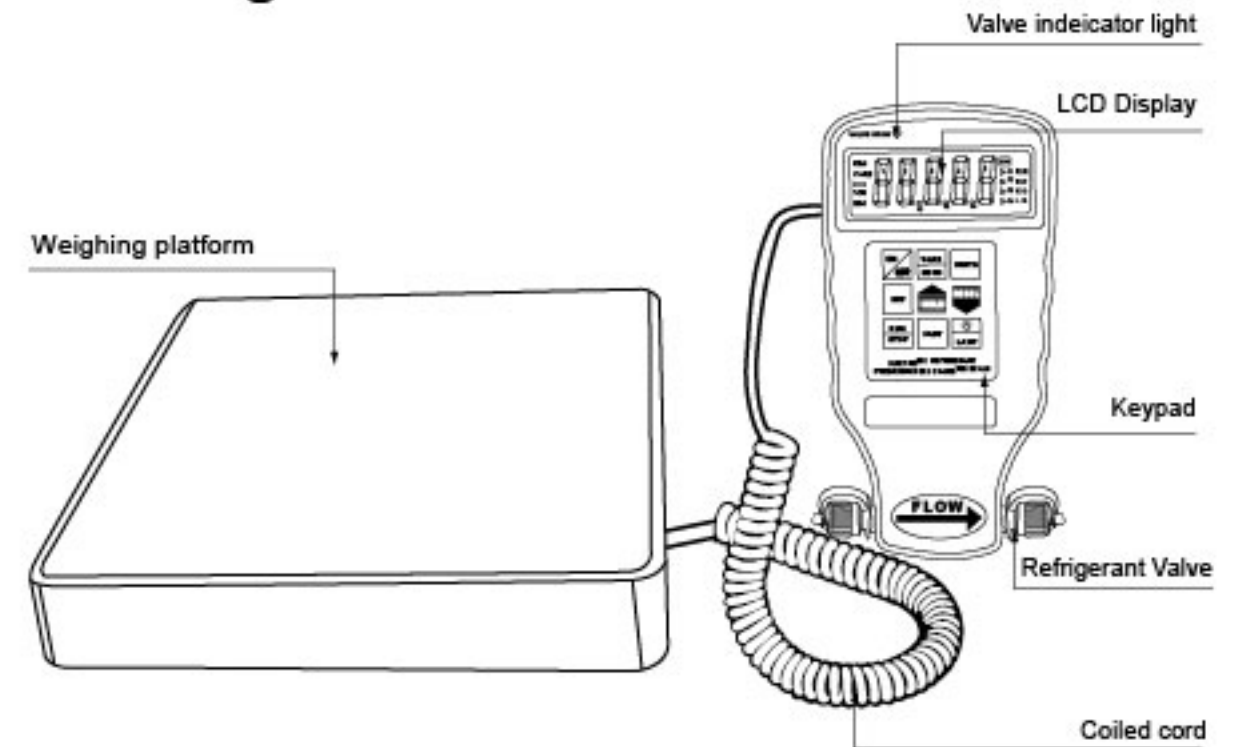
Capacity	50 kilograms (110 pounds)
Accuracy	0.2% of reading +/- 1 least significant digit
Resolution	5g 0.010 lbs 0.1 oz/2g 0.005 lbs 0.1 oz

**RCS-N9030**

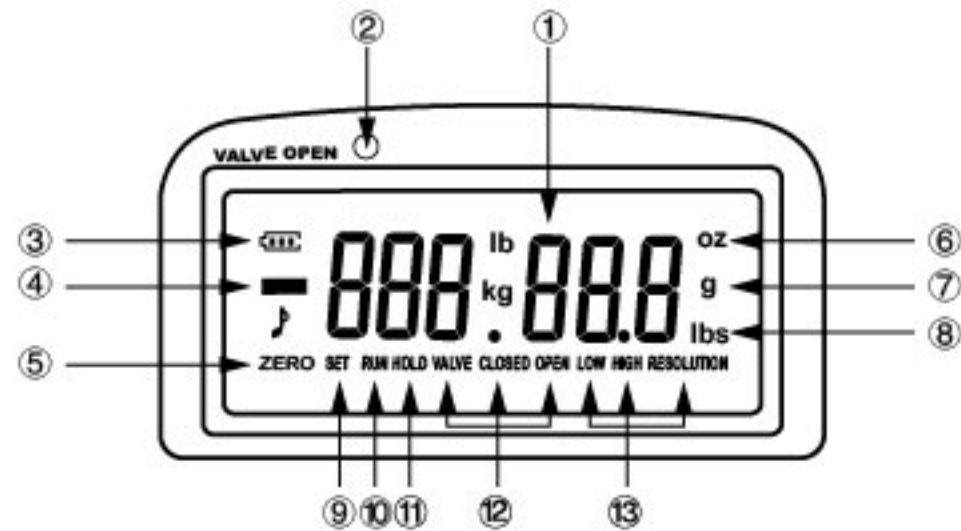
Capacity	100 kilograms (220 pounds)
Accuracy	0.5% of reading +/- 1 least significant digit
Resolution	5g 0.010 lbs 0.1 oz/2g 0.005 lbs 0.1 oz
Power	5 x 1.5 V 'AA' alkaline batteries (7.5VDC)
Battery life	60 hours continuous use
Operation temperature	10°C -50°C (50F-122F)
Weight	2.74 kg(6.03 lbs).
Dimensions	23.2 x 23.2 x 5.8cm

**NOTE:** To prevent damage, never exceed the rated capacity of the RCS-N9030.

**Parts Diagram**

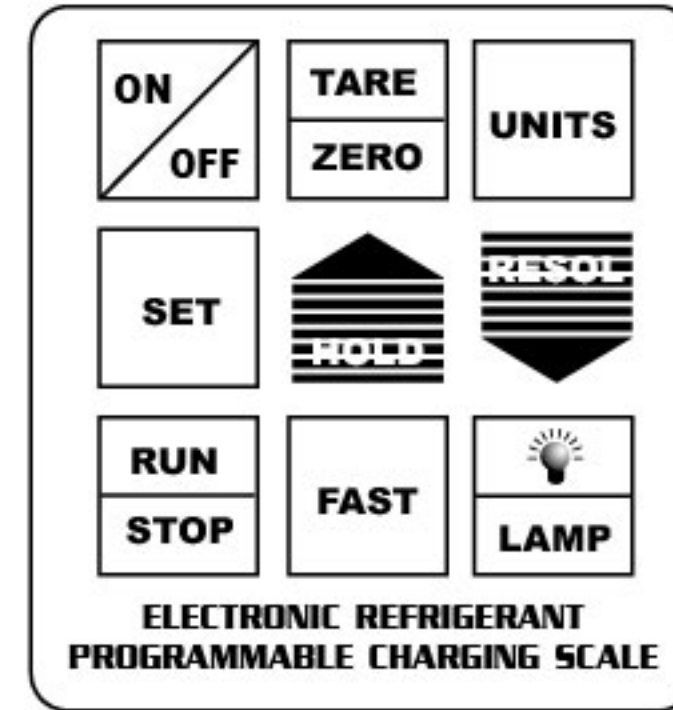



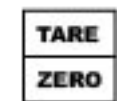




### LCD Display







Item	Function
①	Main numeric display
②	Valve indicator light (ON/OFF)
③	Battery level indicator
④	"Floating" Negative indicator (Indicates weight removed from cylinder)
⑤	Display "TARE/ZERO"
⑥	Indicate units for LB and OZ
⑦	Indicate units for KG and G
⑧	Indicate units for LBS
⑨	Programable weight set
⑩	Run mode indicator
⑪	Hold mode indicator
⑫	Valve Open/Close
⑬	Set resolution 2G(High)/5G(Low)


### Keypad



-  Press to power on. Press and keep 2 seconds to power off
-  Press to "TARE/ZERO" current reading on display
-  Shift metric/imperial measurements
-  Press "SET" to start program amount
-  Press to increase setting charging amount or pause when charging
-  Press to reduce setting charging amount / Switch 2G or 5G resolution


 Press to select digit and press "" and "" to change volume




 Activates/Deactivates stored program. Check if electromagnetic valve work naturally.

 LCD background lamp.

## Basic Weighing Operation

To operate the RCS-N9030 as a basic weight scale, perform the following steps:

1. Unpack the scale as described in the "unpacking the RCS-N9030" section below.
2. Install the batteries into the control box as described in the "battery installation" section below.
3. Place the weighing platform on a firm, level surface.
4. Turn the RCS-N9030 ON by pressing .

5. Select the proper measurement units by repeated pressing . The units will cycle as follows:  
kg.g ↔ lb.oz ↔ lbs ↔ oz.
6. If using a container to hold the objects being measured, place it empty on the center of the platform.
7. Press  to "zero-out" the scale. The display will read zero.
8. Place the material to measure in the container or on the center of the platform.
9. Read the weight on the display.
10. A positive number indicates the applied weight is greater than the zero value. A negative number indicates the applied weight is less than the zero value.
11. Turn the RCS-N9030 OFF by pressing  and keep pushing about 2 seconds

12. To conserve battery life, the RCS-N9030 will turn itself off after 15 minutes of inactivity, unless it is currently running a program (see programming section). The last state of the RCS-N9030 will be restored upon power-up.

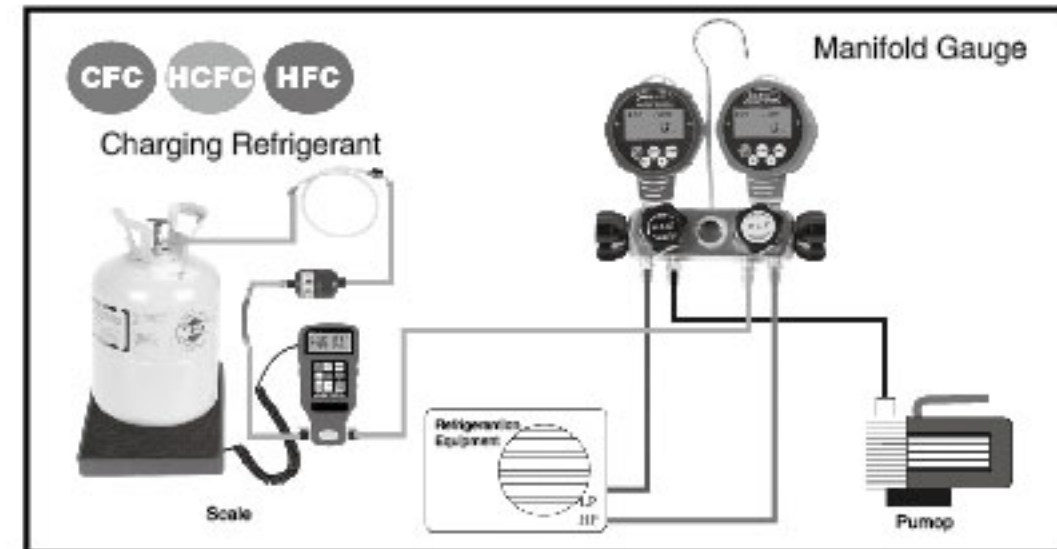
### Unpacking the RCS-N9030




1. Remove the RCS-N9030 from the carry case.
2. When using the RCS-N9030, ensure the coiled cord does not touch the top of weighing platform, or inaccuracies may result.
3. If desired, extend the easel at the top back of the control box by pulling it out. The easel may be used straight for hanging, or folded at an angle for resting on a level surface.

### Repacking the RCS-N9030

1. If extended, restore the easel to the retracted position.
2. Replace the RCS-N9030 into the carry case.



### Refrigerant charging/recovery operation




1. Unpack the scale as described in the "unpacking the RCS-N9030" section above.
2. Install the batteries into the control box as described in the "battery installation" section in page 11.
3. Place the weighing platform on a firm, level surface.
4. Connect one end of the charging hose to the dry filter to "INLET" and the other end to refrigerant tank.
5. Connect one end of charging hose to "OUTLET" and the other end to either the manifold gauge or auto A/C system.
6. Turn on the RCS-N9030 by pressing . To select the resolution 2G or 5G by press the Button .
7. Select the proper measurement units by repeated pressing . The units will cycle as follows:  
kg.g ↔ lb.oz ↔ lbs ↔ oz.

8. Place the refrigerant tank on the centre of platform and open refrigerant tank valve, weight display on the screen, show the weight on the display.

9. Press  to set weight.


(1). If set weight within 1kg, press  or  repeatedly.

Press  to start charging work.



(2). If set weight beyond 1 kg, press  and press  or  repeatedly, press  to start charging work.

10. When finished refrigerant charging, the Valve will auto shut off and alarm for 6 seconds.

#### NOTE:

1. Press  if you wanna pause the charging work.

2. Press  if you wanna stop and cancel charging work.

3. During the charging, if the cylinder is empty, please press the  and change the cylinder, after changing the cylinder, please press the  to continue.

## Battery installation & replacement

1. Remove the battery cover from the rear of the control box by compressing tab at the base of the battery cover.
2. If necessary, remove old set of batteries.
3. Insert 5 'AA'. Replace battery cover by aligning tabs and snapping back into place.

#### **IMPORTANT:**

*TO PREVENT DAMAGE TO THE RCS-N9030, CAREFULLY OBSERVE BATTERY POLARITY AS MARKED INSIDE THE BATTERY COMPARTMENT. DO NOT LEAVE DEAD BATTERIES INSIDE THE CONTROL BOX. REMOVE BATTERIES IF THE RCS-N9030 IS NOT TO BE USED FOR AN EXTENDED PERIOD OF TIME.*

## Over Range Indication

If the weight applied to the weighing platform exceeds the maximum capacity of the RCS-N9030 (100 kg), 'OL' will be displayed in the middle of the display. To prevent damage to the RCS-N9030, immediately remove the weight from the platform.

**Parts Include**

1. 1 set refrigerant charging scale
2. 5 PCS 1.5V "AA" alkaline batteries
3. 1 PC charging hose with shut off valve
4. 1 user's guide manual
5. 1 PC blow mould case
6. 1 PC dry filter



**DSZH®**

- RCS-N9030**
- RCS-N50A**



**PROFESSIONAL REFRIGERANT CHARGING SCALE**



**DSZH®**

**ELECTRIC CHARGING SCALE**

**GLOBAL EXCELLENT SUPPLIER  
OF REFRIGERATION TOOLS**



**PROFESSIONAL REFRIGERANT CHARGING SCALE**