

**cps<sup>®</sup>**  
**COMPUTE-A-CHARGE<sup>®</sup>**  
**CCD110**  
Refrigerant Charging Scale



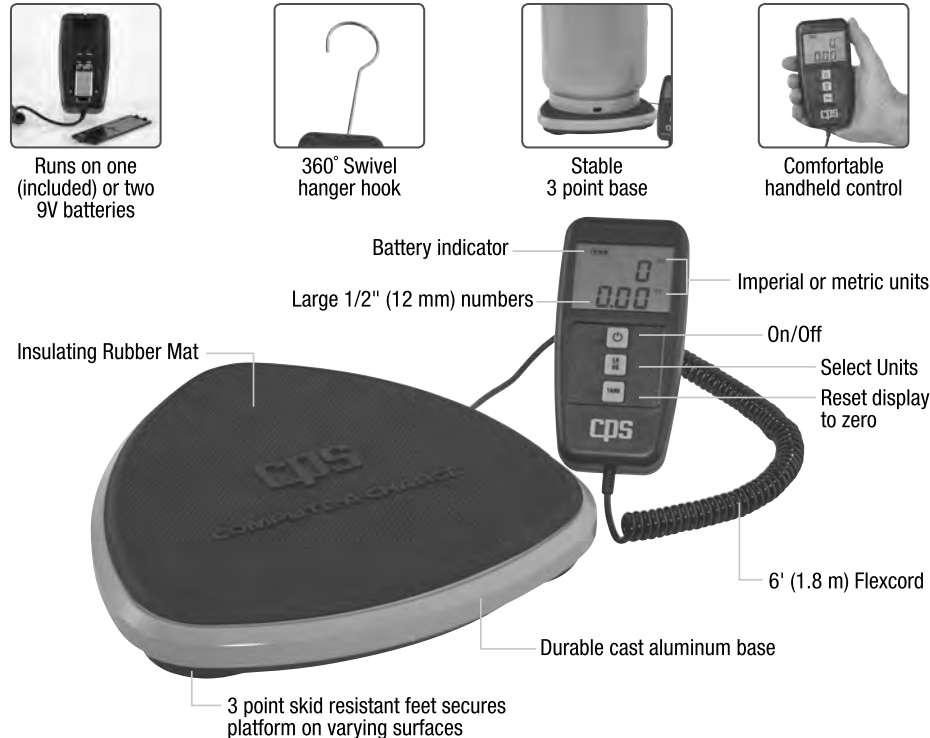
**OWNER'S MANUAL (English)**

TO BE OPERATED BY QUALIFIED PERSONNEL ONLY

## KEY FEATURES

- 110 lb (50 kg) capacity
- Easy 3 button control with large display
- Display resolution: 0.20 oz (5 g)
- Weight Accuracy: 0.015% of reading or +/- 0.2 oz (5 g) whichever greater
- Battery Life: One 9V = 75 hrs.; Two 9V = 150 hrs.
- Patents Pending

## SCALE LAYOUT



## GENERAL SAFETY INSTRUCTIONS

Please read, follow and understand the contents of this entire manual, with special attention given to **Danger**, **Warning** and **Caution** statements.

**FOR USE BY PROFESSIONALLY TRAINED AND CERTIFIED OPERATORS ONLY. MOST STATES, COUNTRIES, ETC., MAY REQUIRE USER TO BE LICENSED. PLEASE CHECK WITH YOUR LOCAL GOVERNMENT AGENCY.**

**DANGER:** Overfilling a recovery tank may cause a violent rupture resulting in severe injury or even death. **As a minimum, please use a scale to continuously monitor recovery tank weight.**

**WARNING:** All hoses may contain liquid refrigerant under pressure. Contact with refrigerant may cause frostbite or other related injuries. Wear proper personal protective equipment such as safety goggles and gloves. When disconnecting any hose, please use extreme caution as high pressure refrigerant may be present.

## GENERAL SAFETY INSTRUCTIONS (CONT'D)

- WARNING:** Avoid breathing refrigerant vapors and lubricant vapor or mist. Breathing high concentration levels may cause heart arrhythmia, loss of consciousness, or even cause suffocation. Exposure may irritate eyes, nose, throat and skin. Please read manufacturer's Material Safety Data Sheet for further safety information on refrigerants and lubricants.
- WARNING:** Make certain all safety devices are functioning properly before operating equipment.
- CAUTION:** To avoid cross contamination of refrigerant and potential leakage to the atmosphere, proper hoses and fittings should be used and checked for damage.
- CAUTION:** To avoid overfilling refrigerant tank, read and follow manufacturer's recommended filling instructions for refrigerant being recovered.
- CAUTION:** Mixing of different refrigerants will cause your recovered supply of refrigerant to become contaminated.



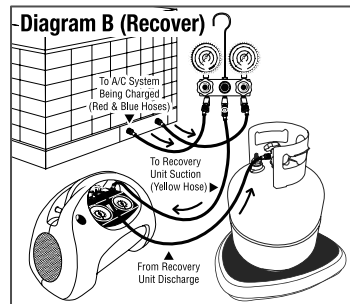
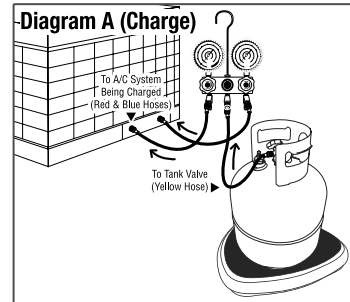
## SPECIFICATIONS

Maximum Load:	110 lb (50 kg) capacity
Weight Accuracy:	0.015% of reading or +/- 0.2 oz (5 g) whichever greater
Display Resolution (Increments):	0.20 oz (5 g)
Power Source/Battery Life:	One 9V (included) = 75 hrs.; Two 9V = 150 hrs.
Cord:	6' (1.8 m) flexcord, extended
Control Type:	Handheld LCD display
Keypad:	3 button (On/Off, Lb / Kg, Tare)
Platform Cover:	Rubber, replaceable
Auto Power Off (Enabled):	Display shows "APO ON" at power up. Display will turn OFF after 10 minutes inactivity
Auto-Power Off (Disabled):	Display shows "APO OFF" at power up. Display will be constant ON
Smart Awake:	Displays weight at time of Auto-Off
Unit Weight (Including Case)	5.5 lb (2.5 kg)
Weight Readout:	lb / oz or kg / g
Operating Temperature Range:	14°F to 122°F (-10°C to 50°C)
Battery Status Indicator:	3 segment symbol
Calibration:	To respond to published minimum accuracy levels using Class F 50 lb weight S/N's TP3060, 7816 OJOH NIST traceble standard
Approvals:	CE
Warranty:	1 year

## OPERATING INSTRUCTIONS

1. Remove scale from case and place on level, rigid surface.
2. Install 1 minimum (or 2) 9 V batteries on control.
3. Press **ON/OFF** to activate scale. Wait for display to show "0" weight reading.
4. Press **LB/KG** to select Lb or Kg.
5. Place tank (max weight 110 lb/50 kg) in center of scale. Do not drop tank on scale.
6. Connect equipment as shown in Diagram A or B.
7. Open refrigerant tank valve and purge air from hoses.
8. Press **TARE** . Display will reset to 0.
9. Open manifold valve (or turn on recovery machine).  
Refrigerant will flow and display will indicate weight added (or removed) from tank. If weight removed, display will show minus (-).
10. When Target Charge or Maximum allowable fill is reached, close refrigerant Tank valve, manifold valve or recovery machine.

**Recommended Maintenance:** Keep scale and control dry, away from interferences (electrical appliances), strong magnetic fields, corrosive gas or liquid. Do not drop or bump.



## WARRANTY

CPS Products, Inc. guarantees that all products are free of manufacturing and material defects to the original owner for one year from the date of purchase. If the equipment should fail during the guarantee period it will be repaired or replaced (at our option) at no charge. This guarantee does not apply to equipment that has been altered, misused or solely in need of field service maintenance. All repaired equipment will carry an independent 90 day warranty. This repair policy does not include equipment that is determined to be beyond economical repair.