

## ECOPURE PRECISION REFRIGERANT CHARGING SYSTEM (P/N: 4175-11)

- Simplest and easiest approach in the market
- For use with Nu-Calgon EcoPure R290 and R600a refrigerants
- Charging system specifically designed to recharge systems that hold 10 lbs. or less.
- High precision scale with one gram (0.04 wt. oz.) accuracy

**⚠ WARNING! WEAR GOGGLES AND GLOVES WHEN HANDLING REFRIGERANTS.**

**CAUTION:** When removing the cylinder, make sure the hex scale adapter does not unthread from the scale.

**CAUTION:** Avoid leaving liquid refrigerant in the tube. Liquid in the tube and increase in temperature could cause the pressure to increase high enough to cause damage to the tube and scale. The check valve in the 1/4" flare fitting on the scale platform allows the cylinder removal and to draw any liquid in the tube into the system.

### INSTRUCTIONS

1. Open the battery cover and insert three AAA batteries according to the polarity indicated in the battery compartment.
2. Press the ON/OFF/TARE key. The display will show "88888" and transition to "0".
3. Connect the brass head cylinder scale adapter to the scale. Hold scale tray by hand while tightening. Be sure it is tight and secure. DO NOT overtighten.
4. Connect nylon tube to the push-fit fittings on the brass shut off valve and exit charge port on side of weigh scale. Ensure good connections are made by gently pulling on the nylon tube after assembly to ensure the tubing secured tightly within the fittings. IMPORTANT: Make sure the brass valve is in the closed position.
5. Attach the refrigerant cylinder to the brass hex cylinder scale adapter. Make sure the threads fit properly without any cross threading. With the valve on the hose closed, hold the EcoPure refrigerant cylinder in an upright position and hold the EcoPure scale upside down while fastening the components together. Turn

### Refrigerant Products

## EcoPure™ Charging System



NOTE: Refrigerant is sold separately.

the EcoPure cylinder in the scale fitting until a tight, secure connection is made. Connecting in this manner allows only a small amount of refrigerant vapor to escape while assembling. Once the connection is made, refrigerant will flow through the scale and into the tube. Turn scale in upright position on stable surface so refrigerant canister is now in an inverted position.

6. Purge the nylon tube by briefly cracking the ball valve at the end of the tube. Once the refrigerant starts to flow, immediately close the valve.
7. Scale is now ready for service.

### OPERATION

#### TARE WEIGHING:

This scale has a TARE WEIGHING function. Press the ON/OFF/TARE key, and the display will transition to "0". Connect the valve to the gauge manifold or system and open the valve to charge. The scale will start displaying the weight of the refrigerant removal from the cylinder. When a sufficient amount of charge is reached, close the valve and disconnect it from the manifold or system. NOTE: You can leave the cylinder on the scale if another system needs to be charged onsite –NEVER transport the EcoPure refrigerant canister connected to the weigh scale.

EcoPure refrigerant canister removal can be easily accomplished by holding the scale in upside down position, with the EcoPure refrigerant cylinder in an upright position. Remove the refrigerant cylinder from the scale. In disassembling in this manner, only a small amount of refrigerant vapor escapes when being disconnected. If there is remaining refrigerant in the EcoPure canister, save for a future hydrocarbon system recharge.

**UNIT CHANGE:**

The weight unit display can be changed by pressing the UNIT key.

**POWER OFF:**

When finished with system charging, turn the scale off by pressing and holding the ON/OFF/TARE key. The scale has an auto-off function to save the battery power. The scale automatically turns off if the scale is not used within three hours.

**BATTERY REPLACEMENT:**

If a “ ” message appears in the display when attempting to weigh, replace the scale’s three AAA batteries according to the polarity indicated in the battery compartment.

**MAINTENANCE AND SERVICE****CARE:**

- ✓ The EcoPure scale is manufactured precisely for immediate field use. Do not dismantle the scale or subject it to any strong shock or vibration.
- ✓ Do not use the scale in direct sunlight, and keep it away from hot appliances such as an oven, stove, etc.
- ✓ When the scale is to be used in a new location where the temperature differs from the previous locations by 36°F (20°C) or more, leave the scale in the new location for at least two hours before using it.
- ✓ When the scale is dirty, clean the scale with a damp cloth.
- ✓ When the scale is not planned to be used for a long period of time, remove the batteries from the scale.

**CALIBRATING THE DEVICE:**

1. In power off mode, press the UNIT and ON/OFF/TARE keys simultaneously to turn the scale on. When a count value is seen, release the two keys.
2. Press the ON/OFF/TARE key, and the LCD will show “ZERO” then calibration weight 5000 g.
3. Place a market available 5kg (5000 g) certified weight on the platform. Press the ON/OFF/TARE key, and the LCD will show “CAL” then “PASS”. Calibration is completed.
4. After calibration is complete, the scale will go back to weighing mode. The LCD will show the weight that is on the platform.

**REPLACEMENT PARTS**

Contact Nu-Calgon if a replacement nylon tube or brass shut off valve is required.



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)