Mastercool® Inc.

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OPERATING INSTRUCTIONS

Wireless Refrigerant Charging Scale

Wireless Refrigerant Charging Scale with Solenoid

MODEL#–98310, 98315

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WIRELESS REFRIGERANT CHARGING SCALE
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A. Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

B. IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

C. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

KEY FUNCTIONS:

⏻	Turns unit ON or OFF
SYNC:	To synchronize platform with monitor
UNITS/SHIFT:	UNITS - Select readout in lb, oz or kg SHIFT - Move from one digit to the next, to edit display, to set up tank capacity
◬	To increase value
▽	To decrease value
CHARGE/PAUSE:	CHARGE - To start CHARGE/RECOVERY mode PAUSE - To pause and resume in CHARGE/RECOVERY mode
TARE/ENTER:	TARE - Zeros out display in BASIC CHARGING ENTER - To start operation or input data
REPEAT:	To repeat the last action
CLEAR:	Use to clear the display during PROGRAM CHARGE ONLY. **(Do not use clear for any other function!)**

CHECKLIST (Prior to 1st use)
Install battery in both platform and monitor. Place the platform on a flat surface and press the ON/OFF button on the platform and monitor to turn unit on. Proceed to BASIC or PROGRAM CHARGING.

PLEASE NOTE: After turning ON the scale or replacing batteries, there will be a **3 second delay** in displaying the scale's battery level, if the power LED in the scale remains on (without blinking), the scale has normal working status.

* If the digital readout displays a small weight (±.5 ounce or ±20 grams) press and hold the TARE/ENTER button for approximately 3 seconds until you hear a DOUBLE BEEP. The scale will automatically zero out. Proceed to BASIC or PROGRAM CHARGING.

SYNCHRONIZATION
When "No Signal" is displayed, it indicates synchronization is disabled or channel is wrong. Synchronize monitor with platform by following the procedure below:

1. Press SYNC button on **platform**, power LED and SYNC LED will blink.

2. Press SYNC button on **monitor**, display will show "SYNC."

3. If synchronization is successful, display will show "good" and the power LED and SYNC LED on the platform will stop blinking.

4. Resume BASIC CHARGING.

BASIC CHARGING
1. Place platform on level surface.

2. Place DOT tank in center of platform and connect to liquid port. (Place disposable tank upside down.)

3. Make sure the charging lines and the system are free of air using deep vacuum pump. (Follow vacuum instructions.)

4. Press ON/OFF button on monitor and platform to turn unit on.

5. Press TARE/ENTER button - display will read zero.

6. Open the valve to begin charging.

7. When the desired amount is reached, close the valve.

8. Press the ON/OFF button on the monitor and platform to turn unit off.

PROGRAM CHARGING

1. Repeat steps 1 through 4 in BASIC CHARGING. (CHARGING SCALE WITH SOLENOID – Connect hose between tank and IN fitting, making sure hose is loose enough to not impact scale reading. Connect charging lines to OUT fitting. To vacuum line between tank and IN fitting, see VACUUM AND RECOVERY WITH SOLENOID.)

2. Press CHARGE/PAUSE button.

3. Set amount of refrigerant you want to charge by using CLEAR, ⇑, ⇓ and SHIFT buttons.

4. Press ENTER to start.

5. Open the valve on the tank to begin charging. Just before charging is complete, a short alarm will sound, allowing time to turn off supply.

6. When charging is completed, scale will sound an alarm again and display "CH-End." Press any button (except the ON/OFF button) to stop alarm. (If the tank is empty and the charge is not complete, "E-Pty" will display. Replace the tank and press CHARGE/PAUSE button to resume charging.)

7. When the desired amount is reached, close the valve and press the ON/OFF button on the monitor and platform to turn unit off.

The unit is preprogrammed for minimum and maximum cylinder weight 0 oz / 243 lbs (0 kg / 110 kgs.) To change cylinder weight setting refer to INSTRUCTIONS FOR SETTING TANK CAPACITIES.

REPEAT CHARGING

1. Press REPEAT to start charging the previously stored amount.

2. Open the valve.

3. When desired amount is reached, close the valve and press the ON/OFF button on the monitor and platform to turn the unit off. (If the scale was turned off, follow steps (1 through 4) of BASIC CHARGING, then follow the REPEAT CHARGING steps.)

BASIC RECOVERY

1. Follow steps 1 through 6 in BASIC CHARGING.

2. Begin recovery.

LINE VACUUM AND RECOVERY WITH SOLENOID

1. Place tank on scale and connect line between tank and IN fitting then connect OUT fitting to vacuum pump or recovery machine. Do NOT open tank valve.

2. Turn on platform and monitor.

3. Press CHARGE/PAUSE button.

4. Set charge weight to 1 lb. (0.45 Kg) using CLEAR, ⇑, ⇓, and SHIFT buttons.

5. When ready to vacuum/recover press ENTER and platform valve will open.

6. When done with vacuuming/recovery, press CLEAR to close valve.

7. Continue to PROGRAM CHARGING step 2, or, if done with line recovery, remove hose.

PROGRAM RECOVERY WITH SOLENOID
Push-Pull

1. Connect line from DOT tank vapor port to IN fitting on platform.

2. Vacuum line between tank and valve using LINE VACUUM and RECOVERY WITH SOLENOID.

3. Connect line from OUT fitting on platform to IN fitting on recovery machine.

4. Connect line from system liquid port to tank liquid port.

5. Press TARE/ENTER then CHARGE/PAUSE.

6. Set recovery weight using CLEAR, ⇑, ⇓, and SHIFT buttons. (If recovery weight is not known, enter an amount larger than best estimate.)

7. When ready to recover press ENTER to open platform valve.

8. Valve will close and alarm sound when recovery weight is reached. If recovery is done, but recovery weight has not been reached, press CLEAR to close valve. If tank full weight is reached, FULL will be displayed and valve will close. (see INSTRUCTIONS FOR SETTING TANK CAPACITY)

Vapor/Liquid

1. Connect line from OUT fitting on platform to tank.

2. Vacuum line between tank and valve using LINE VACUUM AND RECOVERY WITH SOLENOID.

3. Connect line from recovery machine to IN fitting on platform.

4. Follow steps 5 to 8 in Push/Pull.

INSTRUCTIONS FOR SETTING TANK CAPACITY

1. Turn on the unit.

2. Select desired units using UNITS/SHIFT.

3. Press and hold down the UNITS/SHIFT again until the last digit in display "blinks."

4. Use CLEAR, ⇑, ⇓ and shift buttons to input the empty tank weight.

5. Press ENTER to save the empty tank weight. The display will read "GOOD" to confirm.

6. Use CLEAR, ⇑, ⇓ and shift to input full tank weight.

7. Press ENTER to save the full tank weight. The display will read "GOOD" to confirm.

8. Press ON/OFF button on the monitor and platform to turn unit off.

CALIBRATION PROCEDURE

1. Turn on platform.

2. Turn on monitor. Press ⇑ and ⇓ together. Display will then show "SEt-1."

3. Press TARE/ENTER. Display will show "SEt-11" for kg calibration (for lb calibration press ⇑ and "SEt-12" will display.) Press TARE/ENTER to confirm.

4. A "-----" 5 digit number will be displayed, press ⇓.

5. Place calibration weight on scale.

6. Press ⇑. Press TARE/ENTER. Number displayed must match calibration weight. If a digit needs to be changed, press UNITS/SHIFT to activate digit (digit will blink.) Press the ⇑ or ⇓ to change the number. Repeat until all digits are changed.

7. When the number displayed agrees with the weight on the scale press TARE/ENTER. Calibration is complete. Monitor will restart automatically.

SPECIFICATIONS:

• Capacity: 243 lbs (110 kg)
• Accuracy: [±0.01 lb / ±0.005 kg] or 0.1% of reading whichever is greater.
• Resolution: 0.02 lb / 0.01 kg
• Automatic Shut-Off: 20 minutes
• Operating Temperature: 32˚F to 120˚F (0˚C to 49˚C)
• Battery Life: Monitor - approximately 20 hours; platform - approximately 30 hours

REPLACING THE BATTERY:

Replace the 9V battery in monitor or (6) AA batteries in platform when low-battery symbols prompt on LCD. DO NOT OPERATE WITH A LOW BATTERY.