

## FOR CHARGING R-290 AND R-600a REFRIGERANT SYSTEMS

- Refrigerant-grade propane (R-290) and isobutane (R-600a)
- Meets AHRI 700 Standard (99.5% pure)
- Non-odorized
- Re-sealable canister, for use on multiple jobs
- EcoPure Charging System is the most simple, accurate, and complete approach in the market
- EcoPure Charging System provides integrated charging hose and shut-off valve with precision weigh scale for simplified and accurate charging
- System or Assembly provides stable platform for liquid charging into system
- OEM Approved

### Description

Although these refrigerants are highly flammable, they are eco-friendly. Both R-290 and R-600a refrigerants have zero ozone depletion potential (ODP) and global warming potential (GWP) of three or less. In addition to EcoPure's low environmental impact, they are more efficient than the HFC refrigerants they replace. Improved system efficiency reduces energy usage and life cycle costs.

EcoPure R-290 and R-600a are refrigerant grade products that meet AHRI 700 Standard purity requirements. The EcoPure refrigerants are colorless and non-odorized, so extreme care is required when handling these refrigerants. EcoPure R-290 and R-600a refrigerants are approved by the EPA's SNAP program for the US market. EcoPure refrigerants are for qualified professionals and only for equipment specifically designed and clearly identified that it uses R-290 or R-600a refrigerant.

### Application

EcoPure R-290 or R-600a refrigerant are for service requirements for the following applications, that have a system charge of 150 grams (5.3 ounces) or less, and are clearly designed and identified for these hydrocarbon refrigerants:

- Refrigerators & freezers
- Retail food refrigerators & freezers
- Vending machines
- PTAC & PTHP systems
- Ice machines
- Water coolers

## Specialty Products

### EcoPure™ Refrigerants & Accessories



The products are closely controlled during their manufacturing to ensure low levels of contamination, moisture and sulphur. Refrigerants that do not meet desired purity requirements can cause issues such as freezing at the metering device, accelerated acid production, copper plating, lubricant foaming or breakdown potentially reducing system longevity. It's for these reasons, EcoPure R-290 and R600a refrigerants are non-odorized to meet AHRI Standard 700 (99.5% purity). Refrigerants that do not meet this criterion should not be used in these systems.

Inaccurate R-290/R-600a refrigerant charging can cause less than optimal system performance and longevity. Even a slight deviation of just 5 grams can impair functionality. Charge within a one-gram range to maximize efficiency and lifespan.

The EcoPure Refrigerant Charging System offers the simplest, most reliable, and accurate method for charging R-290/R-600a systems. Achieve one-gram accuracy with ease, backed by assemblies rated for a 400 psig working pressure.

### Packaging

EcoPure Charging Assembly	<b>4175-10</b>
EcoPure Refrigerant Charging System	<b>4175-11</b>
EcoPure R-290 Refrigerant, 10.6 oz. Canister	<b>4175-21</b>
EcoPure R-600a Refrigerant, 10.6 oz. Canister	<b>4175-31</b>

## Directions for Use: EcoPure Charging Assembly P/N: 4175-10

**FOR USE BY HVACR PROFESSIONALS ONLY.**

**Use only in accordance with equipment manufacturer's instructions.**

### BEFORE FIRST USE:

Peel the adhesive backer from bottom of charging assembly, place center of weigh platform and press down. Proceed with removing assembly so magnet stays affixed to scale.

1. Wear protective gear, use hydrocarbon gas monitor, and reaffirm no ignition sources.
2. Pull vacuum through suction service port, then isolate system to ensure it's leak free.
3. Ensure hand valve is closed. Invert charge base and connect to upright EcoPure canister.
4. Crack hand valve to purge line while fastening to valve isolating the evacuated system. **IMPORTANT:** Always charge through the low side of system. Never expose EcoPure canister to high side pressure.
5. Invert cylinder/assembly on weigh scale for liquid refrigerant charging. Purge hose, tare scale, slowly charge to OEM specification. If necessary, briefly cycle system to fully charge. Do NOT overcharge.
6. Close assembly hand valve after charging. In a ventilated area, turn the canister upright, quickly remove from charging base and follow manufacture guidelines to seal the process tube.

Use any market scale capable of weighing in grams for precise charging.



## Instructions: EcoPure Charging System P/N: 4175-11

1. **IMPORTANT:** Make sure the ball valve is in the closed position. Connect ball valve to one end of hose assembly. Connect other end to the exit charge port on the side of the scale.
2. Close ball valve on canister adapter and connect to refrigerant canister in the upright position.
3. Invert canister assembly and connect to fitting on top of scale. **DO NOT** overtighten.
4. Open the ball valve on the canister adapter.
5. Purge the hose by briefly cracking the ball valve at the end of the tube. Once the refrigerant starts to flow, immediately close the valve.
6. Press the ON/OFF/TARE key. The display will show "88888" and transition to "0".
7. Scale is now ready for service.

Hard carrying case



Allows storage of an EcoPure canister (sold separately)



Threaded adapter connects EcoPure canister to scale. Available as a replacement part, p/n: 911065

Charging hose assembly. Available as a replacement part, p/n: 211029.

High precision scale provides gram wt. accuracy. Capacity is 5000 grams or 176 wt. oz. (Three 'AA' batteries included)

Ball Valve. Available as a replacement part, p/n: 911063.

### PRODUCT SAFETY:

- EcoPure R-290 and R-600a is extremely flammable. Always store and transport canister upright, keep away from direct sunlight and heat, do not store in park vehicles where temperatures can exceed 120°F. Keep away from children.
- Use only tools and equipment certified for use in hazardous areas.
- Do not use other market option access valves for use with EcoPure refrigerants.
- Refer to the Safety Data Sheet (SDS) for other guidelines with handling EcoPure refrigerants.