UAMPS
Utah Associated Municipal Power Systems
AND ITS ENERGY PARTNER...

- Beaver City
- Blanding City
- Boulder City, NV
- Bountiful, City of
- Burley, ID, City of
- Brigham City
- Central Utah Water Conservancy District
- Eagle Mountain City
- Enterprise, City of
- Ephraim City
- Fairview City
- Fallon, NV, City of
- Fillmore City
- Fredonia, AZ, City of
- Gallup, NM, City of
- Heber Light and Power
- Holden Town
- Hurricane City
- Hyrum City
- Idaho Energy Authority Inc., ID
- Idaho Falls, ID, City of
- Kanosh Town
- Kaysville City
- Lassen Municipal Utility District, CA
- Lehi City
- Lincoln County Power District #1, NV
- Logan City
- Lower Valley Energy, WY
- Meadow Town
- Monroe City
- Morgan City
- Mt. Pleasant City
- Murray City
- Northern Wasco County People's Utility District, OR
- Oak City
- Overton Power District #5, NV
- Paragonah, Town of
- Parowan City
- Payson City
- Plumus Sierra Rural Electric Cooperative, CA
- Price City
- Raft River Rural Electric Cooperative, ID
- Santa Clara, City of
- South Utah Valley Electric Service District
- Spring City
- Springville City
- St. George, City of
- Truckee Donner Public Utility District, CA
- United Electric Cooperative, Inc., ID
- Valley Electric Association, Inc., NV
- Washington City
- Weber Basin Water Conservancy District

SMARTENERGY℠

Proper Installation Form

Cool Cash Savings Program

INSTRUCTIONS:

1. Check to make certain the customer's electric utility is a participating energy partner at: **www.smartenergy.uamps.com** or call: **1-888-365-1558.**
2. A copy of this form, including the installation technician's signature, must be completed by an eligible technician. Please provide a copy of this completed Proper Installation form to the customer to accompany their Cool Cash Incentive Customer Application.
3. Dealers are eligible for Proper Installation incentives only if this form is accompanied by a customer's Cool Cash Incentive program application for the same equipment installation. Incentives will not be paid for ineligible or incomplete applications.
4. Incentives will be paid only for installations conducted by participating dealers in the Cool Cash Incentive program.
5. The technician installing the system must be a certified North American Technician Excellence (NATE) individual who is certified in air conditioning installation. The program administrator may request a copy of the technician's certification.
6. Incentives are available for central air conditioning units that meet the requirements described in the Cool Cash Incentive Program Manual for participating dealers (e.g. new install, matched system, TXV, etc.).
7. Startup and testing of the sytem is required for incentive. Installer shall verify and report all system variables requested. If the outdoor temperature is lower than the manufacturers allowance for startup, follow manufacturer's recommendations. If manufacturer recommends a method for "winter startup" submit the specification with this application.

CONTACT INFORMATION

Customer Name: _____ **Dealer:** _____

Installation Address: _____ **Cool Cash ID #:** _____

Installation City, State, Zip: _____

Technician _____ **Technician's NATE Certification #:** _____

SYSTEM INFORMATION

Start-up Date: _____ **Humidifier:** Power ☐ By-pass ☐

Condenser Model #: _____ **By-pass Damper:** Yes ☐ No ☐

Coil Model #: _____ (If yes to bypass-damper): Open ☐ Closed ☐

Indoor Unit Model #: _____ **Condensate Drain:** Yes ☐ No ☐

Metering Device: TXV ☐ Fixed orifice ☐ **Drain Size:** _____ inches

All operating data should be recorded after a minimum run time of 10 minutes after each adjustment.

AIR FLOW

Blower Wheel Clean: Yes ☐ No ☐ **Air Filter Status:** Clean ☐ Dirty ☐ Plugged ☐

Variable Speed Blower: Yes ☐ No ☐ **Are all necessary grills and registers open:** Yes ☐ No ☐

Blower Fan Speed Setting: Low ☐ Medium/Low ☐ Medium ☐ Medium/High ☐ High ☐

Return Air Dry Bulb Temperature (RAT) _____ °F **Supply Air Dry Bulb Temperature (SAT)** _____ °F

Temperature Difference (RAT-SAT) _____ °F

ELECTRICAL

Line Voltage at the Condensing Unit: Unit off: _____ volts Unit operating: _____ volts

Compressor Amps: Rated: _____ amps Actual: _____ amps

Condenser Fan Motor Amps: Rated: _____ amps Actual: _____ amps

CONTINUED ON BACKSIDE:

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REFRIGERANT CHARGE

Please complete the general information for all systems, then complete the specific charging information for one of the options that follows the manufacturer's recommendations.

Outdoor dry-bulb air temperature at time of charging: °F

Refrigerant type: R-22 ☐ D R-410A ☐ Other ☐

Is suction line completely insulated: Yes ☐ No ☐ **Suction line size:** inches **Liquid line size:** inches

Pressure test conducted at: psig (minimum of 150) **System held pressure for:** minutes (minimum of 10)

System evacuated to: microns (minimum of 500)

Return air wet bulb temperature: °F **Suction line pressure:** psig

Suction line temperature: °F **Suction line saturation temperature:** °F **Superheat:** (suction line temp -saturation temp) °F

OPTION 1: WEIGH-IN

Condenser pre-installation refrigerant charge: pounds ounces

Manufacturer's recommended charge: pounds ounces

Does this charge include an allowance for an evaporator: Yes ☐ No ☐ **Does this charge include an allowance for a line set:** Yes ☐ No ☐

Default line set length: feet **Installed line set:** feet **Line set difference:** feet

(A) Suction line*: Line set length difference (from above) feet X ounces /foot= ounces

(B) Liquid line*: Line set length difference (from above) feet X ounces /foot= ounces

(C) Driers, accumulators, and evaporator capacities (if not included above) ounces

Calculated refrigerant charge addition (A) + (B) + (C) ounces

Additional refrigerant charge added by installer ounces

Amount of charge weighed in is within */-2% of manufacturer's recommendation: Yes ☐ No ☐

**Some manufacturers list the adjustment for suction and liquid line lengths as a single value. Be sure not to double count this amount. Refer to the manufacturer's instructions for the proper procedure for the system installed.*

OPTION 2: SUBCOOLING

Is outdoor dry-bulb temperature ≥ : Yes ☐ No ☐ **Manufacturer's recommended subcooling:** °F

Liquid line pressure : psig (≥ 175 psig recommended unless otherwise specified by manufacturer)

Saturation temperature for measured pressure: °F **Liquid line temperature:** °F

Subcooling: (saturation temperature - liquid line temperature) °F

Measured subcooling is with*/-3°F of manufacturer recommendations: Yes ☐ No ☐

OPTION 3: LENNOX APPROACH

Is outdoor dry-bulb temperature ≥ 60°F: Yes ☐ No ☐ **Manufacturer's recommended subcooling:** °F

Liquid line pressure : °F **Approach temperature:** (Outdoor dry-bulb minus liquid line temperature) °F

Approach temperature matches manufacturer's recommendations: Yes ☐ No ☐

TECHNICIAN SIGNATURE

I certify that the system has been installed in accordance with the manufacturer's guidelines and that the information shown on this form is accurate. I understand that UAMPS requires this certification to be eligible for the proper installation incentive.

Signature **Date**

Please provide a copy of this form to the customer to submit along with their Cool Cash Incentive Application.