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**These terms and conditions are subject to change without notice.** All measures require a pre-install inspection by a program representative. Please check with your Field Energy Analyst to confirm that your proposed installation meets terms and conditions or call 1.800.230.9420 to speak with a program representative. If you have a custom measure that yields equal or greater energy savings, you may request an engineering review to determine whether it qualifies for a rebate

**Disclaimer:** The selection, purchase, and ownership of the equipment are the sole responsibility of the customer. The EnergySmart Grocer Program makes no representation as to the safety, reliability, and/or efficiency of the equipment selected or components thereof. The EnergySmart Grocer Program makes no warranty, expressed or implied, for any particular purpose, use or application of the equipment.

## Cases

### Refrigeration Retrofits

"Low temperature" covers evaporator temperatures below 0°F.

"Medium temperature" covers evaporator temperatures between 1°F and 35°F.

#### 1. Low or Medium Temperature Open Case to New Reach-in

Must replace an existing low or medium temperature open vertical display case with a new high efficiency reach-in case.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
T-8/10/12 lamps	T-8 lamps with electronic ballasts or LED lamps
No doors	Glass doors with Anti Sweat Heat Controls (ASH)
Shaded pole fan motors	EC fan motors

#### Exclusions:

Refurbished cases are not eligible for rebate; replacement case must be new and have zero in-service hours.

Additional separate rebates cannot be claimed for EC Motors, T-8 lamps or anti-sweat heat controls.

New case length must be equal to or shorter than original case.

#### Recommendations:

Customer should consider using compressor capacity modulation mechanisms (such as VFDs, cylinder un-loaders, evaporator pressure regulating valves and re-setting to higher suction pressures/temperatures).

LEDs in New Reach-in Refrigerated Cases are recommended in conjunction with this measure (see measure #7).

Units: Linear feet of case

#### 2. Low Temperature Reach-in or Coffin to New High Efficiency Reach-in

Must replace an existing low temperature reach-in or coffin case with a new high efficiency reach-in case.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
T-8/10/12 lamps, (reach-in only)	T-8 lamps with electronic ballasts or LED lamps
Glass doors (reach-in only)	Low/no anti-sweat heat glass doors (see measure #4)
Shaded pole fan motors	EC fan motors

#### Exclusions:

No additional rebate available for Anti-Sweat Heater Control.

Reach-in cases replacing reach-in case must be equal to or shorter than original case.

Reach-in cases replacing coffin cases must be equal to or shorter than 1/3 the original case length.

Refurbished cases are not eligible for rebate; replacement case must be new and have zero in-service hours.

#### Exceptions:

In lieu of low/no anti-sweat heat glass doors, triple pane doors with anti-sweat heater controls may be used.

#### Recommendation:

LEDs in New Reach-in Refrigerated Cases are recommended in conjunction with this measure (see measure #7).

Units: Linear feet of case

### 3. Medium Temperature Open Case to New High Efficiency Open Case

Must replace an existing Medium temperature open case with a new high efficiency open case.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
T-8/10/12 lamps, magnetic ballasts	T-8 lamps with electronic ballasts or LED lamps
	Evaporators must meet Saturated Evaporative Temperatures (SET) as follows: Produce, $\geq 2^{\circ}\text{F}$ ; Dairy / Deli, $\geq 6^{\circ}\text{F}$ ; Meat, $\geq 22^{\circ}\text{F}$
Shaded pole fan motors	EC fan motors

**Exclusions:**

Refurbished cases are not eligible for rebate; replacement case must be new and have zero in-service hours.  
New case length must be equal to or shorter than original case.  
Additional separate rebates cannot be claimed for EC Motors or T-8 lamps.

**Recommendation:**

LED Case Lighting in New Vertical and Semi-Vertical Open Refrigerated Cases are recommended in conjunction with this measure.

**Units:** Linear feet of case

### 4. Standard Doors to Low/No Anti-Sweat Heat Doors for Low Temperature Reach-in

Must replace an existing standard glass door of a low temperature reach-in display case with a low/no anti-sweat heat glass door.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Glass door	Triple pane glass door
Anti-sweat heat $>0.39$ amps/ln ft of case at 120 volts	Anti-sweat heat in door rail, glass, and frame must be $\leq 0.39$ amps/ln ft of case at 120 volts.
	Doors must prevent condensation from occurring in the frame assembly.

**Exclusions:**

An additional separate rebate cannot be claimed for Anti-sweat Heater Controls.

**Units:** Door

### 5. Add Doors to Medium Temp Walk-in Reach-in

Must add doors to open section of medium temp walk-in reach-in.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Walk-in reach-in no doors	Doors installed on walk-in reach-in with no anti-sweat heaters (ASH)
T-8 lamps	T-8 lamps with electronic ballast or LED lamps
Shaded pole fan motors	Case evaporator coil and fans removed

**Recommendation:**

LEDs in Existing Reach-in Refrigerated Cases are recommended in conjunction with this measure to minimize post retrofit total lighting power.

**Units:** Linear feet of case

## Case Lighting Retrofits

### 6. LEDs in Existing Reach-in Refrigerated Cases

Must install a LED lighting system in lieu of a fluorescent lighting system in an existing reach-in refrigerated display case. LED lighting system must be permanently installed luminaries.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
<p>T8, T10 and T12 Fluorescent lamps operating with electronic or magnetic ballasts.</p>	<p>Installed LED lighting system must appear on either the Lighting Design Lab (LDL) LED Fixtures and Tubes List approved product list or the Design Lights Consortium Commercial Fixture list. Both lists are available at: <a href="http://www.lightingdesignlab.com/LEDlists.php">http://www.lightingdesignlab.com/LEDlists.php</a></p> <p>Fluorescent magnetic ballasts cannot be used to power the LED system. LED lamps that install into fluorescent lamp sockets are not eligible for incentives. T10 lamps will be treated as T12 lamps for the purpose of calculating rebate values.</p> <p>Incentives and energy savings vary based on replaced lamp type (T12/T10 or T8) and LED fixture power (low or high). A low power fixture is defined as one that uses less than 4 W/ft; a high power high LED is defined as one using 4 to 7.5 W/ft. When determining low and high wattage qualifications, LDL and DLC wattage criteria are applied.</p> <p>The total number of feet of LEDs rebated shall not exceed the total number of feet of fluorescent lamps replaced.</p>

**Recommendations:**

These measures may be combined with motion sensor measures for additional energy savings and rebate. See measure #8. Due to the rapid pace of LED technology, revisions of criteria will be implemented as LED performance and efficiency improves.

**Units:** Ln Ft of LED

### 7. LEDs in New Reach-in Refrigerated Cases

Must install a LED lighting system in lieu of a fluorescent lighting system in a new reach-in refrigerated display case or doors.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
	<p>Installed LED lighting system must appear on either the Lighting Design Lab (LDL) LED Fixtures and Tubes List approved product list or the Design Lights Consortium Commercial Fixture list. Both lists are available at: <a href="http://www.lightingdesignlab.com/LEDlists.php">http://www.lightingdesignlab.com/LEDlists.php</a></p> <p>Fluorescent magnetic ballasts cannot be used to power the LED system. LED lamps that install into fluorescent lamp sockets are not eligible for incentives.</p> <p>Incentives and energy savings vary based on LED fixture power (low or high). A low power fixture is defined as one that uses less than 4 W/ft; a high power high LED is defined as one using 4 to 7.5 W/ft. When determining low and high wattage qualifications, LDL and DLC wattage criteria are applied.</p>

**Recommendations:**

These measures may be combined with motion sensor measures for additional energy savings and incentives. See Measure #8.

**Units:** Linear feet of LED

### 8. LED Motion Sensors for Reach-in Refrigerated Cases

Must install motion sensor that controls permanently installed LED lighting in refrigerated reach-in display cases.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
	Motion sensor must activate lighting control system that reduces lighting load to 20% or less of full load when unoccupied.
	Load reduction ability must be indicated on system specification sheets or confirmed by manufacturer.
	Load reduction programming must be indicated on manufacturer/installers invoicing.

**Notes:** Measure is applicable to LED lighting retrofits or existing LED case lighting without existing motion sensor installed.

**Units:** Linear feet of lamp

### 9. Case Lighting T10/12 to T8

Must replace existing T10/12 lamps with T8 lamps in refrigerated display cases.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
T10/12 lamp with magnetic ballasts	T8 lamp with electronic ballast Lamp must have a minimum rated life of 24,000 hours with rapid-start ballasts or 18,000 hours with instant start ballasts (at 3-hour starting rating)

**Units:** Lamp

## Controls

### 10. Anti-Sweat Heater (ASH) Controls

Must install a device that controls the ASH load of reach-in doors. This measure is relevant for both MT and LT reach-in glass door cases.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
<u>Medium Temperature Case</u> Uncontrolled ASH present > 0.20 amps/ft of case (door rail, glass and/or frame heating element combined)	Must automatically modulate door ASH output based on environmental conditions (temperature or relative humidity) as measured by a sensor that is part of the control system
<u>Low Temperature Case</u> Uncontrolled ASH present > 0.37 amps/ ft of case (door rail, glass and/or frame heating element combined)	

**Exclusions:**

An additional separate rebate cannot be claimed for Standard Doors to Low/No Anti-Sweat Heat Doors for Low Temperature Reach-ins”

**Additional Information:**

The ASH controller is expected to reduce the runtime on LT cases by 50% and on MT cases by 80%. If there is no amp tag for the case door, please call program staff to help qualify the case or door frame.

**Units:** Linear feet of case

### 11. Walk-in Evaporator Fan Control - ECM

Must install controls that reduce energy consumption of evaporator fan motors in walk-ins by reducing fan speed when there is no refrigerant being delivered to the evaporator.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Electronically Commutated Motor (ECM)	Same
Evap fan motor size (nameplate rated output power): 1/20th HP to 1/10th HP	Evap fan motor size (nameplate rated output power): 1/20th HP to 1/10th HP
Evap fan full speed runtime: full speed 24hrs/day except if off for defrost periods	Evap fan full speed runtime: full speed only during call for cooling (compressor on or liquid-line solenoid open)
Evap fan full speed: 1,550 RPM	Evap fan full speed: 1,550 RPM
Evap fan low speed: N/A	Evap fan low speed: 500<=RPM>=600
	Alternative to low speed: On/Off Cycling. During periods when there is no refrigerant being delivered to the evaporator, eligible controllers may cycle the fans off only if they turn the fans on periodically during that time to circulate air in the walk-in (not more than 1 minute every 8 minutes or 13% of time).

**Exclusions:**

Not applicable if Evaporator Fan Control is already installed.

On walk-in refrigeration circuits served by multiplex systems, liquid-line solenoid is required for adequate control; multiplex systems without liquid-line solenoid on the walk-in circuit are not eligible at this time.

**Units:** Motor

### 12. Beverage Merchandiser Controller – Visi Cooler

Must install an energy control device on a standalone refrigerated glass door beverage merchandiser.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Beverage merchandisers must contain non-perishable food items limited to bottled and canned beverages.	Controller must include a passive infrared occupancy sensor to turn off compressor when surrounding area is unoccupied for 15 minutes or longer.
	During unoccupied periods, the control must periodically power up machine to maintain product temperature and provide compressor protection.

**Unit:** Controller

## Strip Curtains, Gaskets and Auto-Closers

### 13. Strip Curtains

Must install new strip curtains or plastic swinging doors on qualifying walk-in doorways.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
No strip curtains installed	Strip curtains $\geq 0.06$ inches thick
	Low temp strip curtains must be used on low temp applicatons.

**Exclusions:**

Rebate is only eligible for applications in supermarket walk-in freezers & coolers, convenience store freezers, and restaurant freezers. A supermarket is defined as a  $\geq 10,000$  sq ft self-service commercial retail food service facility. Rebate is not available for replacement of existing strip curtains, or application of strip curtains on display cases.

**Notes:** Rebates are only available to certified strip curtain trade allies. If you are interested in certification information, please contact the Program at 800-230-9420.

**Units:** Square feet of doorway (measured inside door frame)

### 14. Door Gaskets for Solid or Reach-In Glass Doors

Applicable to main insulated solid door(s) of walk-in cooler or freezer that open to ambient temperatures and/or standard size reach-in glass or solid door(s) of a low or medium temperature display case.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Worn or damaged gasket (and/or door sweep) with degradation sufficient to create an air gap (leak) equal to or greater than 14 inches in length.	Replacement gaskets and/or door sweep must meet the manufacturer's specifications regarding dimensions, materials, attachment method, style, compression, and magnetism.

**Exclusions:** Under counter half coolers, freezers, or beverage merchandisers do not qualify for rebates.

**Units:** Door

### 15. Auto-Closers for Walk-in Cooler or Freezer Doors

Auto-closer must be installed on the main insulated solid door of a walk-in cooler or freezer.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
	Auto-closer must firmly close door when door is within 1 inch of door latch.
	Walk-in door perimeter $\geq 16$ ft

**Exclusions:** Rebate unavailable for adjustments made to existing auto-closers.

**Notes:** Rebate available for both new auto-closer installations and replacement of parts on non-functioning auto-closers.

**Units:** Closer

**16. Auto-Closers for Glass Doors on Reach-in Coolers or Freezers**

Auto-closer must be installed on the glass door of a reach-in case.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
	Auto-closer must firmly close door when door is within 1 inch of full closure.
	Walk-in door perimeter $\geq 16$ ft

**Exclusions:** Rebate unavailable for adjustments made to existing auto-closers.

**Notes:** Rebate available for both new auto-closer installations and replacement of parts on non-functioning auto-closers.

**Units:** Closer

**Motors**

**17. ECMs - Replace Shaded Pole Fan Motors in Refrigerated Display Cases**

Applicable to existing shaded pole evaporator fan motors in refrigerated display cases.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Shaded pole motor in display case	Electronically Commutated Motor (ECM) in display case

**Units:** Motor

**18. ECMs - Replace Shaded Pole Fan Motors in Walk-in Coolers or Freezers**

Applicable to existing shaded pole evaporator fan motors in refrigeration system evaporators in walk-in coolers or freezers.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Shaded pole motor in walk-in evaporator	Electronically Commutated Motor (ECM) in walk-in evaporator

**Exclusions:** Not applicable for motors with fans less than 10" in diameter.  
Not applicable if Evaporator Fan Control is already installed.

**Recommendations:**

This measure may be combined with "Walk-in Evaporator Fan Control – ECM" measure for additional energy savings and rebate. See measure #14.

**Units:** Motor

**19. Motors — Shaded Pole to PSC in display cases**

Applicable to existing shaded pole evaporator fan motors for refrigerated display cases.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Shaded pole motor in display case	Permanent Split Capacitor (PSC) motor in display case

**Units:** Motor

### 20. Motors — Shaded Pole to PSC in Walk-in Evaporator

Applicable to existing shaded pole evaporator fan motors for refrigeration system evaporators in walk-ins.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Shaded pole motor in walk-in evaporator	Permanent Split Capacitor (PSC) motor in walk-in evaporator

**Exclusions:**

Not applicable for motors with fans less than 10" in diameter.  
Rebate not available if Evaporator Fan Control is already installed.

**Units:** Motor

### 21. VSD on Condenser Fan Motor

Must install variable speed drive (VSD) on condenser fan motor(s) serving a multiplex system.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
No VSD present	Condenser fan motors controlled via VSD

**Exclusions:** Cannot be combined with measures that require a VSD or assume their installation in the energy savings calculations.

**Units:** Motor nameplate horsepower

### 22. ECMs for Compressor Head Fans

Must replace existing shaded pole compressor head-cooling fan motors with ECM fan motor.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Shaded pole motor, 35-55 Watts	ECM motor, ≤20 Watts

**Exclusions:** Applicable to only low temperature reciprocating compressor systems that are an integral part of a refrigeration system with a remote air cooled or evaporative condenser.

**Units:** Motor

## Compressors and Condensers

### 23. High Efficiency Multiplex Compressor System

Must replace stand-alone compressor system with a high efficiency multiplex compressor system.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Stand-alone compressor system	High efficiency multiplex compressor system
Air Cooled Condenser - Fixed pressure head	Floating head pressure controls, air-cooled condensers: Must use staged fans or variable speed drive. Must maintain an ambient following condensing setpoint of 10°F temperature differential (TD) or less between the outside air drybulb temperature and the setpoint for low temperature systems, and a 15°F TD or less for medium temperature systems. When a single circuit condenser is used, it must operate at a 10°F TD or less. Minimum saturated condensing temperature must be equal to or less than 70°F.

**Exclusions:** An additional rebate cannot be claimed for Floating Head Pressure Control or Variable Speed Drive (VSD) for Condensers.

**Notes:** See measure #25 if this measure is implemented in tandem with an efficient oversized condenser.

Pre-approval must be granted prior to installation. Pre-approval is contingent upon an engineering review to verify conformity with Terms and Conditions before any installation. Send a copy of the proposed refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.

**Units:** Ton

### 24. Efficient/Oversized Air or Evaporative Condenser for Multiplex

Must replace an existing condenser with a new efficient/oversized condenser serving multiplex systems.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Existing condenser	Efficient/oversized condenser
Air Cooled Condenser - Fixed pressure head	Floating head pressure controls, air-cooled condensers: Must use stage fans or variable speed drive. Must maintain an ambient following condensing setpoint of 8°F temperature differential (TD) or less between the outside air drybulb temperature and the setpoint for low temperature systems, and a 13°F TD or less for medium temperature systems. When a single circuit condenser is used, it must operate at an 8°F TD or less. Minimum saturated condensing temperature must be equal to or less than 70°F. Condenser energy efficiency ratio (EER) must be 105 MBH/kW or greater.

**Exclusions:** An additional rebate cannot be claimed for Floating Head Pressure Control or Variable Speed Drive (VSD) for Condensers.

**Notes:** EER will be calculated by the EnergySmart Program

See measure #25 if combined with a multiplex compressor implementation.

Rebate is limited to 150% of the required condenser capacity necessary to meet TD requirements.

Pre-approval must be granted prior to installation. Pre-approval is contingent upon an engineering review to verify conformity with Terms and Conditions before any installation. Send a copy of the proposed refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.

**Units:** Ton

### 25. Multiplex Compressor System with Efficient Condenser

Must replace a stand-alone compressor system with a multiplex compressor system, and replace an existing condenser with a new efficient/oversized condenser.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
	Requirements for both Multiplex Compressor Systems (Measure #26) and Efficient/Oversized Condensers (Measure #27) apply. Please refer to Terms & Conditions for these measures.

**Notes:** An installation of either a multiplex or an efficient condenser will be treated as a combined installation if the other item (a multiplex or efficient condenser) was installed in the current Program time frame.

Pre-approval must be granted prior to installation. Pre-approval is contingent upon an engineering review to verify conformity with Terms and Conditions before any installation. Send a copy of the proposed refrigeration schedule to your Field Energy Analyst or program headquarters to pre-qualify this measure for the rebate.

**Units:** Ton

### 26. Floating Head Pressure Controller for Multiplex Compressor System

Must convert the head pressure controls of an existing multiplex system from fixed control to floating control.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Fixed head pressure	Floating head pressure  Air-cooled condensers: Must maintain an ambient following condensing setpoint of 12°F temperature differential (TD) or less between the outside air drybulb temperature and the setpoint.  Either use a variable speed drive or assume no change in fan operation. If a variable frequency drive is used it must control all condenser fans in parallel, unless the controls sequence receives pre-approval by The Program.  Evaporative-cooled condensers: Must maintain a wetbulb following setpoint of 17°F TD or less between the outside air wetbulb temperature and the setpoint. Must be controlled with a variable speed drive or 2 speed fan control.  Minimum saturated condensing temperature must be equal to or less than 70°F.

**Exclusions:** Measure cannot be used in conjunction with measures that require floating head pressure controls.

**Units:** Compressor nameplate horsepower

### 27. Floating Suction Pressure Controller

Must convert the suction pressure controls of an existing multiplex system from fixed control to floating control.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Fixed suction pressure set point	Floating suction pressure  Suction pressure must be adjusted to the highest point that can still maintain setpoint temperatures at monitored cases on the suction circuit.

**Units:** Compressor nameplate horsepower

### 28. Floating Head Pressure Control on Single Compressor Systems

Must convert the head pressure controls of an existing single compressor system from fixed control to floating control. Applicable to either condensing unit or remote condensing refrigeration systems.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Fixed pressure head control valve	Must replace any non-adjustable flood-back control valve with adjustable flood-back control valve (head pressure control valve) to lower minimum condensing head pressure from 180 psig (93 F for R22) to saturated pressure equivalent of 70 F or less. Alternatively, a fan control safety switch can be used to maintain adequate head pressure.
Expansion valve	To prevent evaporator from starving, at low condensing pressures, one of the following must be implemented: <ul style="list-style-type: none"> <li>- Replace each expansion valve with balanced-port valve or electronic expansion valve (EEV) sized to meet the load requirement at 70° F condensing temperature</li> <li>- Install a device to supplement refrigerant feed to each evaporator attached to the condenser.</li> </ul> Exemption: Existing expansion valve is a balanced port or electronic expansion valve.
Compressor motor nameplate indicates motor is 1 HP or more	Same
A single compressor serves suction group	Same
Condenser intake air must be from outside ambient air	Same

**Units:** Compressor nameplate HP

### 29. Efficient Compressors — Low Temperature

Must replace a reed valve compressor with a disc valve or discus compressor on low temp systems.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Reed valve compressor on low temp system	Disc valve or discus compressor on low temp system

**Recommendations:** Only compressors serving evaporators with Saturated Evaporative Temperatures (SET) of -10°F or less can benefit from this measure.

**Notes:** Rebate will be allowed for up to 110% of the existing compressor capacity. Invoice must show both the pre-existing and new compressor model numbers.

**Units:** Tons

## Gas Measures

### 30. Gas – Automatic Flue Damper (Full Service and Standard)

Must retrofit an existing natural gas fired hot water heater that has manual dampers with automatic flue dampers.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
	The flue damper valve must be interlocked with the burner to close when the burner is off and open just before the burner starts.

**Exclusions:** Systems utilizing refrigeration hot water heat reclaim are not eligible for this measure.

**Units:** Unit

### 31. Gas - Domestic Hot Water Tank Insulation

Must retrofit an existing natural gas powered service hot water heater with insulation.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Tank insulation must have had a thermal resistance value of R6 or less.	Tank insulation must have a thermal resistance value of R12 or greater

The storage capacity of the hot water heater must be greater than or equal to 100 gallons.

**Exclusions:** Instantaneous hot water heaters are not eligible for this measure. Systems utilizing refrigeration hot water heat reclaim are not eligible for this measure.

**Units:** System

### 32. Gas - Domestic Hot Water Heat Reclaim

Must retrofit a hot water heating system with a refrigeration heat reclaim hot water heater.

<u>Existing Equipment Requirements</u>	<u>Replacement Equipment Requirements</u>
Hot water heating system must be natural gas fired.	The original natural gas powered hot water heater may remain functioning downstream of the new heat reclaim heater.

**Exclusions:** The heat reclaim heater cannot incorporate an electric auxiliary heating system.

**Units:** System