**Appendix D**

**Demand Side Management Cascade Natural Gas Corporation Integrated Resource Plan 2016**

**Table of Contents**

**Residential Incentive Listing**

**Updated Residential Incentive Application**

**Commercial-Industrial Incentive Listing**

**Commercial-Industrial Incentive Application**

**Breakdown of Scenarios by Customer Class**

**with Adoption Curves**

**Equipment and Non Equipment Libraries**

New & Existing Homes

|  |  |  |
| --- | --- | --- |
| **Energy-Saving Measure** | **Basic Specifications** | **Incentive** |
| **High-Efficiency Natural Gas Furnace**1 | 95% + AFUE | $250 |
| **High-Efficiency Natural Gas Hearth (Fireplace)** | 70% + FE (Fireplace Efficiency)2  80% + AFUE (Annual Fuel Utilization Efficiency) | $150  $250 |
| **High-Efficiency Combination Domestic Hot Water and Hydronic Space Heating System using pre-approved Tankless Water Heater3** | 90% + AFUE | $825 |
| **Condensing High-Efficiency Natural Gas Tankless Water Heater** | 0.91 + EF | $150 |
| **Conventional High-Efficiency Natural Gas Water Heater** | 0.67 + EF | $45 |
| **High-Efficiency Exterior Entry (not sliding) Door**1 | U ≤ 0.21 | $50 |

Existing Homes Incentives

|  |  |  |
| --- | --- | --- |
| **Energy-Saving Measure** | **Basic Specifications** | **Incentive** |
| **Floor Insulation1&4** | Equal to or greater than R-30 or to fill cavity5, prior condition must not exceed R-11 | $0.30/sq.ft. |
| **Wall Insulation1&4** | Equal to or greater than R-11 or to fill cavity, prior condition must not exceed R-4 | $0.35/sq.ft. |
| **Ceiling or Attic Insulation1&4** | Equal to or greater than R-38, prior condition must not exceed R-18 | $0.30/sq.ft. |
| **Whole House Residential Air Sealing1&4** | Minimum 400 CFM50 reduction using pre and post blower door testing6 | $100 |

Efficient New Home Packages

|  |  |  |
| --- | --- | --- |
| **Energy-Saving Measure** | **Basic Specifications** | **Incentive** |
| **ENERGY STAR® Certifi Home 1&7** | National Program Requirements Version 3.1 (Rev. 08) | $600 |
| **Built Green Certifi Home1&7** | Requires Built Green Certification | $600 |

1. *Home must be heated by natural gas.*
2. *Must use intermittent ignition device.*
3. *Water must be heated with a tankless system. Pre-approval from CNGC required. Boilers do not qualify.*
4. *All insulation and air sealing must be performed by a CNGC qualifi Trade Ally in order to be eligible for a rebate through the Conservation Incentive Program. Attic insulation cannot be fi to cavity.*
5. *Minimum of R-19 or higher to fill cavity.*
6. *Requires WA Department of Commerce Combustion Safety Test Report Exhibit 5.3.1A. Whole House Residential Air Sealing must comply with Washington State Energy Code section 502.4.5*
7. *These incentives are only applicable to new homes, not available to existing homes.They may not be combined with any other measure except Hearths.*

Last Updated 09/2016

Eligibility Requirements

* Applications must be received within 90 days of install date.
* Applicant must be a Washington customer of Cascade Natural Gas on residential rate schedule 502 or 503 (see your gas bill).
* Fuel for the home’s primary heat source must be provided by Cascade Natural Gas for all heating incentives.
* Water-heating fuel must be provided by Cascade Natural Gas for all water-heating incentives.
* Customer **must not use a heat pump** for heating and/or cooling with a natural gas furnace back-up for the furnace, door, insulation and air sealing measures.
* All equipment installation and service measures must be performed by a Washington State licensed contractor.
* All insulation and air sealing measures must be performed by a CNGC qualified Trade Ally in order to be eligible for a rebate through the Conservation Incentive Program. Visit us online for a list of qualified Trade Allies in your area.
* Appliances and building materials specified by Washington state code are not eligible for Cascade Natural gas incentives.
* ENERGY STAR homes must be approved by an ENERGY STAR verifier. Built Green Homes must present Built Green Certification.
* Incentives may be subject to change and are only applicable for tariff approved measures in place at the time of installation.
* Review all terms and conditions for the program at <http://www.cngconserve.com/homes-rebate-application>.

How to qualify for Cascade Natural Gas incentives:

1. Establish your eligibility. Call 866.626.4479 or visit [**www.cngc.com/conservation**](http://www.cngc.com/conservation)for program requirements.

### Install energy-effi home improvements. Contact a participating Trade Ally contractor or Washington licensed contractor to install eligible measures. Please visit [**www.cngc.com/conservation**](http://www.cngc.com/conservation)for a list of qualifi trade allies. Note: if installing insulation or air sealing you must use a CNGC qualifi Trade Ally.

3. Get the right incentive application online at [**www.cngc.com/conservation**](http://www.cngc.com/conservation)or call 866.626.4479.

### 4. Complete, sign and submit application along with a copy of your equipment or service’s invoices to:

Mail: Cascade Natural Gas Energy Efficiency Admin 1600 Iowa Street

Bellingham, WA 98229

Fax: 360.788.2396

**Upon receipt of completed applications, please allow up to twelve weeks for processing.**



**Home Energy Savings Kit**

Water-saving shower heads and faucet aerators available upon request. Please call 866.626.4479 for details or apply online at: [www.cngc.com/conservation.](http://www.cngc.com/conservation)

# For questions or more information, please visit us online at [www.cngc.com/conservation](http://www.cngc.com/conservation) or call 866.626.4479.

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Last Updated 09/2016

**WASHINGTON RESIDENTIAL REBATE APPLICATION**



**Must be postmarked within 90 days of installation**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1. CUSTOMER INFORMATION** | | | | | | | | |
| Cascade Natural Gas account # | | | | | | Property occupied by Owner Tenant  For Assignment of Funds, see page 2 of this application | | |
| Occupant's name | | | | | | Owner's name (if different than Occupant) | | |
| Installation address | | | | | | Owner's mailing address (if different from installation address) | | |
| City Zip | | | | | | City, State | | Zip |
| Occupant's email | | | Occupant's phone | | | Owner's email | | Owner's phone |
| How did you hear about the CNG rebate program? Equipment Dealer/Installer Radio  Newspaper Community Event CNG Website CNG Bill | | | | | | | | |
| **2. BUILDING INFORMATION** | | | | | | | | |
| Is natural gas from CNG the: primary source of space heat in your home? Yes No | | | | | | | **PLEASE ANSWER THESE QUESTIONS - REQUIRED FOR ELIGIBILITY** | |
| primary source of water heating fuel? Yes No | | | | | | |
| Do you use an Electric Heat Pump to cool and/or heat your home? Yes No | | | | | | |
| Not sure what an electric heat pump looks like? <http://visual.merriam-webster.com/house/heating/heat-pump_2.php> | | | | | | | | |
| **Type of Home** | Single Family | Duplex | Triplex | Fourplex | Apartment/Condo/Townhome/Row House | | | Manufactured / Mobile |
| **YEAR HOME WAS BUILT SQUARE FOOTAGE** | | | | | | | | |
| **3. SELECT YOUR REBATE** | | | | | | | | |
| **INSULATION**   * Attic/Ceiling Cavity - ($0.30/sq ft) * Floor - ($0.30/sq ft)    Wall - ($0.35/sq ft) | | | | **NATURAL GAS HOME HEATING**   * Furnace - ($250) * Fireplace/Hearth - ($150 or $250) * Combination Space & Water Heat - ($825) | | | **NATURAL GAS WATER HEAT**   * Natural Gas Tankless - ($150) * Natural Gas Storage - ($45) | |
| **DOOR**   * Exterior Entry (not sliding) - ($100) | | | | **WHOLE HOUSE AIR SEALING**   * Minimum 400 CFM reduction - ($100) | | | **NEW HOME**   * ENERGY STAR® Certified - ($600) * Built Green® Certified - ($600) | |
| **4. ATTACH A COPY OF YOUR FINAL INVOICE OR RECIEPT** | | | | | | | | |
| Your invoice or receipt must include: | | | | | | | | |
| For EQUIPMENT | | | Installation date, brand, model and serial number | | | | | |
| For INSULATION and AIR SEALING\* | | | Installation date, Pre R value, Post R value, Square Footage installed **\*CNG Trade Ally required** | | | | | |
| For NEW HOMES | | | ENERGY STAR verifier database #, ENERGY STAR Certificate or Built Green Certificate | | | | | |
| **5. ACCEPTANCE OF TERMS & CONDITIONS** | | | | | | | | |
| By signing below, Participant agrees to the terms and conditions available at: [www.cngconserve.com/homes-rebate-application](http://www.cngconserve.com/homes-rebate-application). Participant represents to CNGC that all energy-saving measures have been completed satisfactorily and Participant meets the eligibility requirements shown under the “general qualifications” section. CNGC and/or its representatives may request access to the property on which energy-saving measures have been completed and/or installed in order to do quality control inspections. Customer understands that CNGC and/or its representatives may review and evaluate the project during and after completion. Participants agree to provide access to the property for the purpose described above. | | | | | | | | |
| **Signature Date** | | | | | | | | |
| **6. SUBMIT YOUR COMPLETE APPLICATION AND INVOICE OR RECIEPT** | | | | | | | | |
| On line: <http://www.cngconserve.com/homes-rebate-application> By Mail: CNGC Energy Efficiency  Fax: 360-788-2396 Rebate Processing | | | | | | | | |
| If you have questions about this application or the CNG program  you can Email: [conserve@cngc.com](mailto:conserve@cngc.com) | | | | | 1600 Iowa St  Bellingham WA 98229 | | | |
| **Not sure if you qualify? Call 866-626-4479 to speak with a CNG Energy Efficiency Administrator** | | | | | | | | |

Form date 9/30/2016 Page 1 of 2 866-626-4479 [www.cngc.com/conservation](http://www.cngc.com/conservation)

|  |  |  |  |
| --- | --- | --- | --- |
| **GENERAL QUALIFICATIONS** | | | |
| * Rebate application must be postmarked within 90 days of installation * All qualifying natural gas equipment and measures must be installed in Washington by a Washington state licensed contractor * Insulation and air sealing must be installed by a CNGC Trade Ally, view directory here: https://[www.cngc.com/conservation-corner1/trade-ally/](http://www.cngc.com/conservation-corner1/trade-ally/) * Rebates are subject to change and are only applicable for tariff-approved measures in place at the time of installation * Installation must comply with all federal, state and local code requirements * Call 866-626-4479 or visit [www.cngc.com/conservation](http://www.cngc.com/conservation) or Email [conserve@cngc.com](mailto:conserve@cngc.com) to review qualifications and eligibility | | | |
| **ASSIGNMENT OF FUNDS** | | | |
| **If you are requesting this rebate and you are not the account holder, then authorize payment here:**   * Yes, I have a Landlord Agreement with CNG, here is my Landlord Account Number: | | |  |
| * No, I do not have a Landlord Agreement with CNG; here is my authorization from the account holder so I can receive the rebate: | | | |
| Assignment of Incentive Payment Authorization allows the account holder to transfer the incentive to a third party such as a landlord or property manager. To release the incentive payment to an individual other than account holder, account holder must print name and sign below. | | | |
| Authorization  Print Name | |  | |
| Signature | |
| **PROJECT SPECIFICATIONS and REQUIREMENTS** | | | |
| **ATTIC/CEILING CAVITY INSULATION** | **NATURAL GAS COMBINATION SPACE AND WATER HEAT** | | |
| Attic/Ceiling insulation must be installed by a CNG Trade Ally Final insulation must be equal to or greater than R-38  Prior ceiling cavity/attic insulation must not exceed R-18 | REQUIRES PRE-APPROVAL, call 866-626-4479 or email [conserve@cngc.com](mailto:conserve@cngc.com)  Must use a tankless natural gas condensing water heater  Btu Output per Hour not to exceed 199,999 - BOILERS DO NOT QUALIFY  Minimum system efficiency 90% AFUE | | |
| **FLOOR INSULATION** |
| Floor insulation must be installed by a CNG Trade Ally Final insulation minimum R-30 or the cavity must be filled  Prior floor insulation must not exceed R-11 | **NATURAL GAS TANKLESS WATER HEATER** | | |
| Must install a tankless natural gas condensing water heater  Minimum 0.91 EF | | |
| **WALL INSULATION** | **ENERGY STAR CERTIFIED HOME** | | |
| Wall insulation must be installed by a CNG Trade Ally  Final insulation must be minimum R-11 or the cavity must be filled Prior wall insulation must not exceed R-4 | Applicable only to new homes Minimum 95% AFUE furnace  Window glazing specification U value 0.28 or less Requires ENERGY STAR verifier database ID# Requires ENERGY STAR Certification  Cannot be combined with other CNG incentives except Fireplace/Hearth | | |
| **NATURAL GAS FURNACE** |
| Minimum 95% AFUE or better  Natural Gas furnace be the primary source of heat No existing or new electric heat pump in the home  Any natural gas furnace installed with a heat pump is not eligible |
| **BUILT GREEN CERTIFIED HOME** | | |
| Applicable only to new homes Minimum 95% AFUE furnace Three-star minimum  Requires Built Green Certification  Cannot be combined with other CNG incentives except Fireplace/Hearth | | |
| **NATURAL GAS FIREPLACE/HEARTH** |
| Minimum 70% FE ($150)  Minimum 80% AFUE ($250) |
| **NATURAL GAS STORAGE WATER HEATER** |
| Minimum 0.67 EF  Energy Factor (EF): A measure of water heater overall efficiency | **EXTERIOR ENTRY DOOR** | | |
| Applicable only to existing homes  U value of door equal to or less than 0.21 Sliding glass doors do not qualify | | |
| **WHOLE HOUSE AIR SEALING** |
| Whole House Air Sealing must be complete by CNG Trade Ally Minimum 400 CFM reduction using pre and post blower door testing  Requires WA Department of Commerce Combustion Safety Testing Form Exhibit 5.3.1A | | | |
| **ENERGY SAVINGS KIT** Must heat water with natural gas provided in WA by CNGC - one kit per household Energy Savings Kit #1: One showerhead, one bath and one kitchen aerator  Energy Savings Kit #2: Two showerheads, two bath and one kitchen aerator  To apply for an Energy Savings Kit, visit: <https://cngc.dsmcentral.com/traksmart4/public/registration.do>or call 866-626-4479 | | | |

Form date 9/30/216 Page 2 of 2 866-626-4479 [www.cngc.com/conservation](http://www.cngc.com/conservation)



Commercial/Industrial Standard Incentives

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| --- |
| **Warm Air Furnaces - $3.00/kBtu/hr**  High Efficiency Condensing Furnace—Min 91% AFUE |
| **HVAC Unit Heater - $1.50/kBtu/hr**  High Efficiency Non-Condensing Min—86% AFUE |
| **HVAC Unit Heater - $3.00/kBtu/hr**  High Efficiency Condensing Min—92% AFUE |
| **Radiant Heating - $6.95/kBtu/hr**  Direct fired radiant heating |
| **Boiler - $4.00/kBtu/hr**  High Effi y Condensing Boiler  Min 90% Thermal Eff & 300 kBtu input |
| **Boiler Vent Damper - $1,000**  Min 1,000 kBtu input |
| **Boiler Steam Trap1 - $125**  Min 300 kBtu in; steam pressure at 7psig or > |
| **Domestic Hot Water Tanks3 - $2.50/kBtu/hr**  Condensing tank, Min 91% Thermal Eff |
| **Domestic Hot Water Tankless Water Heater3 - $60/gpm**  ENERGY STAR**®** .82 EF |
| **Attic Insulation -** (retrofit only) **Tier 1:** Min R-30 - **$0.50/sq ft Tier 2:** Min R-45 - **$0.65/sq ft** |
| **Roof Insulation -** (retrofit only) **Tier 1:** Min R-21 - **$0.60/sq ft Tier 2:** Min R-30 - **$0.80/sq ft** |
| **Wall Insulation2 -** (retrofit only) **Tier 1:** Min R-11 - **$0.50/sq ft Tier 2:** Min R-19 - **$0.56/sq ft** |
| **Energy Savings Kits3 - FREE**  **A:** Kitchen Pre Rinse Spray Valve & Bath Aerators  **B:** Low Flow Showerhead |
| **Ozone Injection Laundry3 - $2,500**  Venturi injection or bubble diffusion - Min 125 lb. total washer/extractor capacity. **Pre-approval required.** |

|  |
| --- |
| **Motion Control Faucet3 - $105**  Maximum flow rate of 1.8 gpm  WaterSense® Certified and Below Deck Mixing Valve |
| **Clothes Washer3 - $180**  Commercial gas washer—1.8 MEF |
| **Gas Convection Oven - $450**  ENERGY STAR**®**  ≥42% Cooking Eff/ ≤13,000 Btu/hr Idle Rate |
| **Gas Griddle - $350**  ENERGY STAR**®**  ≥38% Cooking Eff/ ≤2650 Btu/hr sq ft Idle Rate |
| **Gas Conveyor Oven - $600**  Greater than 42% tested baking efficiency |
| **Connectionless 3 Pan Gas Steamer - $850**  ENERGY STAR**®** or CEE/FSTC Qualified  ≥38% Cooking Eff / ≤2,083 Btu/hr/pan Idle Rate |
| **Connectionless 6 Pan Gas Steamer - $1,200**  ENERGY STAR**®** or CEE/FSTC Qualified  ≥38% Cooking Eff / ≤2,083 Btu/hr/pan Idle Rate |
| **Double Rack Oven - $2,000**  FSTC Qualified  ≥50% Cooking Eff/ ≤3,500 Btu/hr/Idle Rate D Rack |
| **ENERGY STAR® Gas Fryer - $600** |
| **Door Type Dishwasher Low Temp Gas3 - $650**  ENERGY STAR**®**  ≤.6 kw Idle Rate/ ≤1.18 gallon/rack |
| **Multi-Tank Conveyor Low Temp Dishwasher3 - $1,000**  Gas Main w/Electric Booster ENERGY STAR**®**  ≤2.0 kw Idle Rate; ≤ 0.50 gallons/rack |
| **Recirculation Controls3 - $100** Continuous Operation DHW Pump **Pre-Approval required.** |
| **Demand Control Ventilation**4 **- $12/nominal ton**  5 tons ≤ Unit Cooling Capacity ≤ 20 tons. Pre-Approval Required. |

If you are planning equipment or building upgrades that do not fit within the standard incentives, but significantly reduce natural gas consumption, please call 866.450.0005 to learn about custom project opportunities.

Mixed purpose facilities that include buildings on both Residential Rate Schedule 503 **and** qualifying Rate Schedules 504, 505, 511, 570, and 577 as part of the same Cascade Natural Gas customer account shall also be eligible for custom conservation incentives.

1 This measure will only be allowed where the customer agrees to regular trap maintenance and replacement every seven (7) years.

2 Minimum value of R-11 applies only where existing walls have no internal insulation cavities.

3 Incentive eligibility contingent upon use of natural gas fired domestic hot water serving the specified measure equipment or fixture.

4 For Existing Packaged HVAC Units equipped with Gas Fired Furnace and Direct Expansion Cooling Sections. DCV Unit Controller must meet Joint Utility Advanced Rooftop Control Guidelines

Updated 09/16

# Who is eligible to participate?

### Must be a new or existing commercial or industrial customer of CNGC on one of five qualifying rate schedules: 504, 505, 511, 570 or 577.

* Incentives apply on qualified high-efficiency natural gas equipment such as heating, insulation, water heating systems, cooking equipment installed as replacement, retrofit as well as new installation in place of standard efficiency equipment. If the equipment installation, replacement, or retrofit provides significant increase over existing high-efficiency equipment, and is not listed here please contact program representative for potential custom incentive.
* Insulation must be installed in an existing building, heated by natural gas, without functional insulation.
* Eligible measures installed are subject to the available incentives coinciding with the date of the installation as outlined in CNGC’s tariff.
* Customers requesting incentives for site-specific energy efficiency measures must submit estimated costs and natural gas savings associated with the project. Natural gas savings are to be calculated using standard engineering practices. CNGC will review the natural gas savings calculations, and reserves the right to modify energy savings estimates.

How to qualify for Cascade Natural Gas incentives

1. Establish your eligibility[. Call 1.866.450.0005 or visit www.cngc.com/conservation](http://www.cngc.com/conservation) for program requirements.
2. Install energy-efficient upgrades. Contact a participating Trade Ally contractor or licensed contractor to install eligible measures.
3. Get the application, av[ailable online at www.cngc.com/conservation.](http://www.cngc.com/conservation)
4. Sign and submit the following forms:

Send forms to:

C&I Standard Incentive application • W9 form • Invoice/Quote for equipment installation • Manufacturer’s spec sheet

Mail: Cascade Natural Gas Corporation, c/o Lockheed Martin Energy and Environmental Services 22121 20th Avenue SE, Bothell, WA 98021

Fax: 1.877.671.2998

Upon receipt of completed application, please allow six weeks for processing and payment.

Get started today!

To apply for an incentive, apply online or do[wnload a PDF application at www.cngc.com/conservation](http://www.cngc.com/conservation) and return it by fax or mail.

Questions on food service, lodging or health care projects? Call Bill Prillaman, 503.278.3078

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Updated 09/16

Cascade Natural Gas Conservation Incentive Program Commercial/Industrial Incentive Application

# Who is eligible to participate?

* + New or existing commercial or industrial customer of Cascade Natural Gas Corporation (CNGC) on one of five qualifying

rate schedules: 504, 505, 511, 570 or 577.

* + Customers installing space heating equipment or insulation in buildings without functional insulation, using natural gas as the

primary heat source.

* + Customers installing qualified high-efficiency natural gas equipment such as heating, water heating systems and cooking equipment installed as replacement, retrofit or new installation in place of standard efficiency equipment. If the equipment installation, replacement, or retrofit provides significant increase over existing high-efficiency equipment, please contact program representative for potential custom incentive.
  + Customers installing measures that coincide with the current CNGC tariff.
  + Customers who have submitted estimated cost, project details and/or natural gas savings with a site specific (custom) project. (Natural gas savings are to be calculated using standard engineering practices. CNGC will review the natural gas savings calculations, and reserves the right to modify energy savings estimates.)

Customer Information

Company name Project no.

Contact name Title

Mailing address

Telephone Cell Fax

Email Website

Project/Facility Information

Gas use type: Heat Water Other

Is the site heated by an electric heat pump with natural gas backup? Yes No

(If so this is considered an dual fuel system and does not qualify for a CNGC incentive.)

Square footage # of Floors Electric utility

CNGC account # Rate schedule

Eligible Rate Schedules: 504, 505, 511, 570, 577

### Project name County

Site address



Updated 09/16



**Building Use Type**

### Education Lodging Restaurant Warehouse Grocery Manufacturing

Retail Agriculture Healthcare Office Service Other

**Hours of Operation**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mon | Tue | Wed | Thu | Fri | Sat | Sun | Total Weekly Hours | Total Annual Hours |
|  |  |  |  |  |  |  |  |  |

How did you hear about the program?

|  |  |  |
| --- | --- | --- |
| Contractor/installer Event | Letter or mail | Newspaper |
| Electric utility Website | Trade association | Other |

Contractor name Contractor company

Please fill in the incentive(s) you are applying for.

EQUIPMENT

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Equipment Type | Model | Serial No. | Size | New, Retrofit or  Replacement? | Incentive | Quantity | Incentive  Amount |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Existing equipment being replaced

Model #

Estimated efficiency

New equipment install date

Total equipment incentive

**\*Existing equipment being replaced cannot already be high-efficiency**

DEMAND CONTROL VENTILATION

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| HVAC Unit # | HVAC Unit Manufac-  turer | Model # | Age | Cooling Capacity (tons) | DCV Unit  Controller  (Make/Model #) | Incentive  @$12/ton |
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INSULATION

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Insulation Type  (bats/rolls, foam, rigid, loose fi | Area Insulated  (wall, attic, roof) | Roof Type  (pitched, flat or both) | R-Value | Size of Area  (sq ft) | Incentive ($/sq ft) | Incentive  Amount |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Updated 09/16

## Insulation Project Requirements

* Insulation projects in spaces with existing, functional insulation do not quality for incentives. Call 1.866.450.0005 for

details.

* If existing insulation is damaged to the point of ineffectiveness or applied in spotty coverage, the insulation must be removed and the condition leading to its damage/ineffectiveness corrected before an incentive will be considered.
* Insulation R value must meet specifications of current CNGC tariff.
* The building or space within which the insulation is installed must be heated by natural gas purchased from CNGC.

I understand the above requirements for insulation projects (initial)

Insulation Install Date Total Insulation Incentive

Application Checklist

To ensure prompt payment, be sure you have completed the application checklist below: Completed Standard Incentive Application

W-9 form

Installer invoice (must include model number and unit price) Manufacturer’s spec sheet (verification of equipment efficiency)

Terms and Conditions

Application: This Standard Incentive Request and any additional required documentation must be fi out completely, truthfully and accurately. Only Washington customers of Cascade Natural Gas Corporation (“CNGC”) served on rate schedule 504,505, 511, 570 and 577 are eligible for this program. Customers are advised to retain a copy of this application and any other documentation submitted to CNGC under this program. CNGC will not be responsible for lost documentation pertaining to the rebate request. Work must be installed no later than December 31st of the current calendar year to receive program incentives. All completed incentive requests must be post-marked within the current calendar year to be processed. Please allow six weeks for incentive processing.

Pre-Approval and Verifi Equipment installations may be selected for a post-installation inspection or verifi Should a customer’s equipment be chosen for a post-installation inspection, satisfactory completion of that inspection must occur before payment is issued. This inspection is for the purpose of incentive payment only. No warranty is implied.

Tax Liability: CNGC is not responsible for any tax liability which may be imposed on the customer as a result of payment of any incentives. CNGC is not providing any tax advice, and any communication by CNGC is not intended or written to be used, and cannot be used, for the purpose of avoiding penalties under the Internal Revenue Code (W9).

No Endorsement: CNGC does not endorse any particular manufacturer, contractor or product in promoting the Program. The fact that the names of particular manufacturers, contractors, products or systems may appear on this application does not constitute an endorsement. Manufacturers, contractors, products or systems not mentioned are not implied to be unsuitable or defective in any way.

Safety and Building Codes: Customer is responsible for insuring that all equipment installed and work performed complies with all federal, state, and local safety, building and environmental codes, and any manufacturer instructions.

Property Rights: Customer represents that it has the right to install the energy saving equipment on the property on which the equipment is installed and that any necessary consents have been obtained.

Disclaimer/No Liability: Customer understands that, while CNGC may have provided funding for approved equipment, CNGC is not supervising work performed for Customer, nor is CNGC responsible in any way for proper completion of that work or proper performance of any equipment purchased. Customer assumes the risk of any loss or damage(s) that Customer may suffer in connection with the installation of the Equipment. CNGC does not guarantee any particular energy savings results by its approval of this application, or by any other of its actions.

Eligible Products: Incentives are available to approved customers who reside within CNGC service territory and are commercial or industrial customers. Equipment must meet CNGC energy specifi . These specifi may be found on the web at [www.cngc.com](http://www.cngc.com/) and are subject to change. If you, or your contractor, are not sure of the specifi , please feel free to contact CNGC’s Conservation Department before proceeding.

Proof of Purchase: The invoice documentation accompanying the application must itemize the products purchased and/or work performed. This proof of purchase must show (a) the date of purchase and an itemized price paid per item, (b) the size, type, make, model or part number for the products, (c) a description of any installation or other labor charges.

Payment: Incentive will be paid after: (a) installation of the energy saving equipment, verifi of the installation of the Equipment, and (b) submission of all required documentation of equipment within the current calendar year.

Incentive Amount: Incentives for energy saving equipment installed as set forth in documentation accompanying this application are limited to

the amounts provided on CNGC tariff 302. Such amounts are subject to change. Current incentive amounts are identifi on CNGC’s website at [www.cngc.com.](http://www.cngc.com/) Please contact CNGC with any questions.

Facsimile/Scanned Signatures: Facsimile transmission of an original document, or a scanned original document transmitted to CNGC as an attachment via electronic mail, shall be the same as delivery of the original signed document. At the request of CNGC, customer shall confi m documents with a facsimile transmitted signature or a scanned signature by providing an original document.

Updated 09/16

## Important note on steam traps – Please read and initial your agreement:

### CNGC provides incentives on steam traps based on customer’s agreement to conduct regular maintenance on the steam system, and to replace steam traps every seven (7) years or as recommended by a trained professional.

Please initial your agreement to this requirement

**Payment information – A completed W-9 form is required**

Checks will be made payable to the Legal Business Entity Name or DBA name listed on the W-9. Payee may be responsible for any tax liabilities that may be associated with the incentive/rebate.

Customer Signature

By signing below, Customer agrees to the above terms and conditions. Customer represents to Cascade Natural Gas Corporation that all equipment has been installed satisfactorily. Customer certifies that natural gas is the primary heating fuel and authorizes access to energy usage data for the project’s specified accounts at the site address of the project as listed for purposes of energy saving calculations.

**Consent to Release of Customer Information: Customer consents to the release of its customer information (including name, service and mailing addresses, phone number, and account number) by CNGC for purposes of regulatory reporting and to its designated internal or third-party representatives for the purposes of (1) issuing applicable conservation, effi , and/or low-income rebates; (2) verifying completion and/or installation of qualifi energy savings equipment.**

**CNGC and/or its representatives may request access to the property on which energy saving equipment has been installed and may review and evaluate the project during and after completion. Customer agrees to provide access to the property for the described purpose herein.**

**To be eligible for an incentive I understand that I must be a customer of Cascade Natural Gas (CNG) with an active meter serviced by CNG. I understand that if I am installing products at more than one facility, I must identify each individual address and Account number on the application form. All uses herein of the words “install,” “installation,” or similar phrases shall mean complete installation such that the subject products are fully functional and operational.**

**As a business customer, I agree to remain on a qualifi rate schedule for the rated life of the product(s) for which I have received an incentive. I agree that if I cease to be a core customer of CNG on rate schedules 504, 505, 511, 570 or 577 during the duration of the measure, I shall refund a prorated amount of incentive dollars based on the time installed for the rated life of the product(s) from receipt of the incentive.**

Participant Signature Date

Submit incentive application and all necessary paperwork by mail or fax to:

Mail: Cascade Natural Gas Corporation, c/o Lockheed Martin Energy and Environmental Services 22121 20th Avenue SE, Bothell, WA 98021

Fax: 1.877.671.2998

For questions or more infor[mation, please visit us online at www.cngc.com/conservation](http://www.cngc.com/conservation) or call 1.866.450.0005

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Updated 09/16

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| --- | --- | --- | --- |
| **Residential Forecasts** | | | |
| **Year** | Tech | Econ | Achievable |
| 2017 | 1,153,065 | 960,841 | 323,878 |
| 2018 | 1,169,903 | 973,256 | 331,357 |
| 2019 | 1,184,300 | 985,292 | 340,468 |
| 2020 | 1,204,222 | 1,001,899 | 352,843 |
| 2021 | 1,213,571 | 1,009,714 | 363,984 |
| 2022 | 1,228,391 | 1,022,078 | 378,657 |
| 2023 | 1,243,366 | 1,034,568 | 395,111 |
| 2024 | 1,263,873 | 1,051,638 | 414,680 |
| 2025 | 1,273,121 | 1,059,334 | 431,139 |
| 2026 | 1,288,080 | 1,071,785 | 449,272 |
| 2027 | 1,302,901 | 1,084,093 | 466,452 |
| 2028 | 1,323,802 | 1,101,481 | 484,478 |
| 2029 | 1,332,855 | 1,108,992 | 496,550 |
| 2030 | 1,346,751 | 1,120,426 | 508,657 |
| 2031 | 1,360,395 | 1,131,650 | 519,158 |
| 2032 | 1,380,170 | 1,147,991 | 530,765 |
| 2033 | 1,387,405 | 1,153,884 | 536,512 |
| 2034 | 1,400,722 | 1,164,845 | 545,271 |
| 2035 | 1,414,005 | 1,175,781 | 552,472 |
| 2036 | 1,435,386 | 1,193,634 | 561,700 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Commercial/Industrial Forecasts** | | | |
| **Year** | Tech | Econ | Achievable |
| 2017 | 3,399,034 | 1,854,613 | 515,998 |
| 2018 | 3,452,896 | 1,885,068 | 545,217 |
| 2019 | 3,502,105 | 1,911,548 | 580,973 |
| 2020 | 3,565,442 | 1,946,157 | 626,755 |
| 2021 | 3,604,272 | 1,967,465 | 675,894 |
| 2022 | 3,657,915 | 1,996,713 | 735,221 |
| 2023 | 3,710,809 | 2,025,969 | 800,558 |
| 2024 | 3,780,448 | 2,064,006 | 872,792 |
| 2025 | 3,819,939 | 2,085,799 | 938,231 |
| 2026 | 3,875,030 | 2,116,061 | 1,004,324 |
| 2027 | 3,928,224 | 2,145,386 | 1,064,697 |
| 2028 | 3,999,479 | 2,184,484 | 1,123,630 |
| 2029 | 4,036,383 | 2,204,858 | 1,166,051 |
| 2030 | 4,090,945 | 2,234,827 | 1,207,197 |
| 2031 | 4,143,535 | 2,263,714 | 1,242,185 |
| 2032 | 4,211,920 | 2,301,211 | 1,277,411 |
| 2033 | 4,247,266 | 2,320,633 | 1,299,065 |
| 2034 | 4,300,942 | 2,350,312 | 1,325,558 |
| 2035 | 4,351,743 | 2,378,098 | 1,350,379 |
| 2036 | 4,428,426 | 2,420,644 | 1,379,572 |

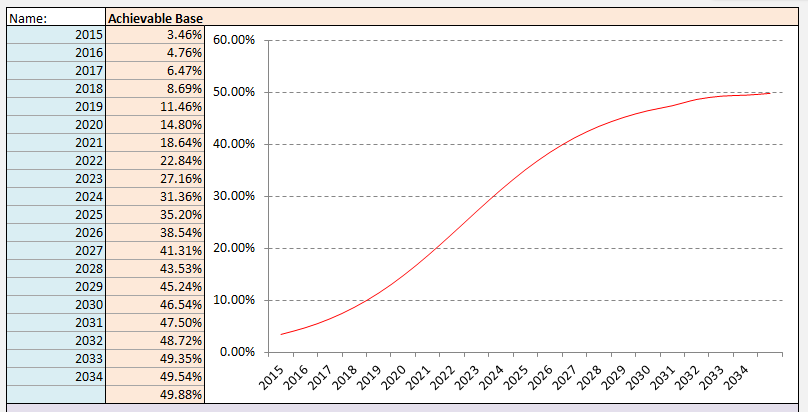
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| --- | --- | --- | --- |
| **Total Conservation Forecasts** | | | |
| **Year** | Technical | Economic | **Achievable** |
| 2017 | 4,552,099 | 2,815,454 | 839,876 |
| 2018 | 4,622,799 | 2,858,324 | 876,574 |
| 2019 | 4,686,406 | 2,896,840 | 921,441 |
| 2020 | 4,769,664 | 2,948,056 | 979,599 |
| 2021 | 4,817,844 | 2,977,179 | 1,039,878 |
| 2022 | 4,886,307 | 3,018,791 | 1,113,877 |
| 2023 | 4,954,176 | 3,060,537 | 1,195,669 |
| 2024 | 5,044,322 | 3,115,644 | 1,287,472 |
| 2025 | 5,093,061 | 3,145,133 | 1,369,370 |
| 2026 | 5,163,110 | 3,187,846 | 1,453,596 |
| 2027 | 5,231,124 | 3,229,479 | 1,531,149 |
| 2028 | 5,323,281 | 3,285,965 | 1,608,109 |
| 2029 | 5,369,238 | 3,313,850 | 1,662,601 |
| 2030 | 5,437,697 | 3,355,253 | 1,715,853 |
| 2031 | 5,503,930 | 3,395,364 | 1,761,343 |
| 2032 | 5,592,090 | 3,449,201 | 1,808,177 |
| 2033 | 5,634,670 | 3,474,518 | 1,835,577 |
| 2034 | 5,701,664 | 3,515,157 | 1,870,829 |
| 2035 | 5,765,748 | 3,553,879 | 1,902,851 |
| 2036 | 5,863,812 | 3,614,278 | 1,941,272 |

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| --- | --- | --- | --- |
| **Commercial Forecasts** | | | |
| **Year** | Tech | Econ | Achievable |
| 2017 | 3,178,361 | 1,726,527 | 468,479 |
| 2018 | 3,228,640 | 1,755,071 | 496,521 |
| 2019 | 3,275,345 | 1,780,082 | 530,929 |
| 2020 | 3,335,788 | 1,812,997 | 575,035 |
| 2021 | 3,372,961 | 1,833,333 | 622,516 |
| 2022 | 3,424,468 | 1,861,331 | 679,805 |
| 2023 | 3,475,362 | 1,889,417 | 742,897 |
| 2024 | 3,542,475 | 1,925,981 | 812,585 |
| 2025 | 3,580,683 | 1,947,024 | 875,725 |
| 2026 | 3,633,982 | 1,976,240 | 939,436 |
| 2027 | 3,685,422 | 2,004,543 | 997,584 |
| 2028 | 3,754,384 | 2,042,306 | 1,054,356 |
| 2029 | 3,790,238 | 2,062,067 | 1,095,213 |
| 2030 | 3,843,214 | 2,091,112 | 1,134,886 |
| 2031 | 3,894,232 | 2,119,085 | 1,168,627 |
| 2032 | 3,960,462 | 2,155,328 | 1,202,616 |
| 2033 | 3,994,967 | 2,174,260 | 1,223,571 |
| 2034 | 4,047,168 | 2,203,081 | 1,249,084 |
| 2035 | 4,096,585 | 2,230,060 | 1,273,176 |
| 2036 | 4,171,528 | 2,271,522 | 1,301,660 |

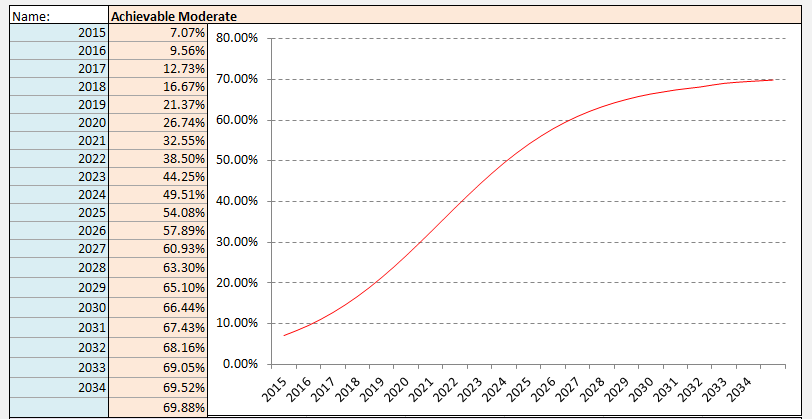
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| --- | --- | --- | --- |
| **Industrial Forecasts** | | | |
| **Year** | Tech | Econ | **Achievable** |
| 2017 | 220,673 | 128,086 | 47,520 |
| 2018 | 224,256 | 129,997 | 48,695 |
| 2019 | 226,760 | 131,466 | 50,045 |
| 2020 | 229,654 | 133,160 | 51,720 |
| 2021 | 231,311 | 134,131 | 53,378 |
| 2022 | 233,448 | 135,382 | 55,416 |
| 2023 | 235,447 | 136,552 | 57,661 |
| 2024 | 237,973 | 138,025 | 60,207 |
| 2025 | 239,256 | 138,776 | 62,506 |
| 2026 | 241,048 | 139,821 | 64,888 |
| 2027 | 242,802 | 140,844 | 67,113 |
| 2028 | 245,094 | 142,178 | 69,274 |
| 2029 | 246,146 | 142,791 | 70,838 |
| 2030 | 247,731 | 143,715 | 72,311 |
| 2031 | 249,302 | 144,629 | 73,558 |
| 2032 | 251,458 | 145,883 | 74,796 |
| 2033 | 252,299 | 146,374 | 75,494 |
| 2034 | 253,774 | 147,231 | 76,474 |
| 2035 | 255,158 | 148,038 | 77,203 |
| 2036 | 256,898 | 149,123 | 77,911 |

**Adoption Curve for Each Achievable Scenario and Incentive Level**

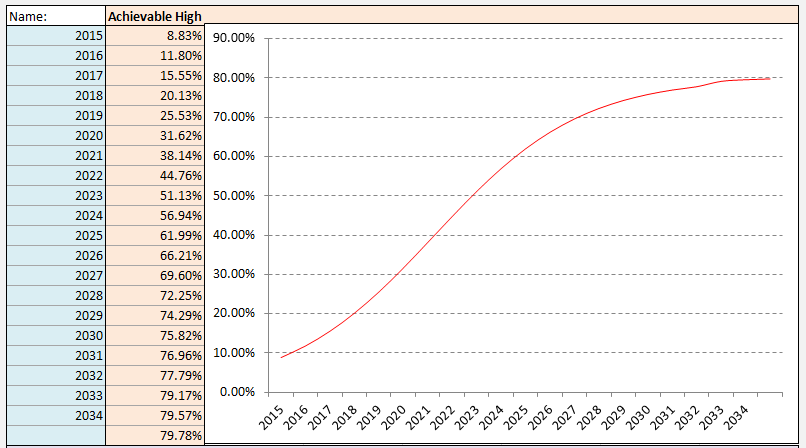
**Achievable 1 - Adoption Curve for 30% of Incremental Costs Incentive Level**



**Achievable 2 - Adoption Curve for 50% of Incremental Costs Incentive Level**



**Achievable 3 - Adoption Curve for 75% of Incremental Costs Incentive Level**



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Early Retirement | Mfg\_CZ1 | 1 | 0.8208 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Early Retirement | Mfg\_CZ2 | 2 | 0.8208 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Early Retirement | Mfg\_CZ3 | 3 | 0.8208 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Early Retirement | Multi\_CZ1 | 1 | 0.6785 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Early Retirement | Multi\_CZ2 | 2 | 0.6785 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Early Retirement | Multi\_CZ3 | 3 | 0.6785 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Early Retirement | Single\_CZ1 | 1 | 0.8158 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Early Retirement | Single\_CZ2 | 2 | 0.8158 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Early Retirement | Single\_CZ3 | 3 | 0.8158 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | New | Mfg\_CZ1 | 1 | 1.1811 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | New | Mfg\_CZ2 | 2 | 1.1811 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | New | Mfg\_CZ3 | 3 | 1.1811 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | New | Multi\_CZ1 | 1 | 1.0145 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | New | Multi\_CZ2 | 2 | 1.0145 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | New | Multi\_CZ3 | 3 | 1.0145 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | New | Single\_CZ1 | 1 | 1.1769 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | New | Single\_CZ2 | 2 | 1.1769 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | New | Single\_CZ3 | 3 | 1.1769 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Turnover | Mfg\_CZ1 | 1 | 1.1811 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Turnover | Mfg\_CZ2 | 2 | 1.1811 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Turnover | Mfg\_CZ3 | 3 | 1.1811 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Turnover | Multi\_CZ1 | 1 | 1.0145 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Turnover | Multi\_CZ2 | 2 | 1.0145 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Turnover | Multi\_CZ3 | 3 | 1.0145 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Turnover | Single\_CZ1 | 1 | 1.1769 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Turnover | Single\_CZ2 | 2 | 1.1769 |
| 40 Gallon High Efficiency Natural Gas Water Heater (0.67 EF) | Turnover | Single\_CZ3 | 3 | 1.1769 |
| Condensing boiler with 96% estimated seasonal efficiency | Early Retirement | Mfg\_CZ1 | 1 | 0.7894 |
| Condensing boiler with 96% estimated seasonal efficiency | Early Retirement | Mfg\_CZ2 | 2 | 0.7719 |
| Condensing boiler with 96% estimated seasonal efficiency | Early Retirement | Mfg\_CZ3 | 3 | 0.7918 |
| Condensing boiler with 96% estimated seasonal efficiency | Early Retirement | Multi\_CZ1 | 1 | 0.7220 |
| Condensing boiler with 96% estimated seasonal efficiency | Early Retirement | Multi\_CZ2 | 2 | 0.7059 |
| Condensing boiler with 96% estimated seasonal efficiency | Early Retirement | Multi\_CZ3 | 3 | 0.7245 |
| Condensing boiler with 96% estimated seasonal efficiency | Early Retirement | Single\_CZ1 | 1 | 0.9702 |
| Condensing boiler with 96% estimated seasonal efficiency | Early Retirement | Single\_CZ2 | 2 | 0.9504 |
| Condensing boiler with 96% estimated seasonal efficiency | Early Retirement | Single\_CZ3 | 3 | 0.9730 |
| Condensing boiler with 96% estimated seasonal efficiency | New | Mfg\_CZ1 | 1 | 1.0154 |
| Condensing boiler with 96% estimated seasonal efficiency | New | Mfg\_CZ2 | 2 | 0.9958 |
| Condensing boiler with 96% estimated seasonal efficiency | New | Mfg\_CZ3 | 3 | 1.0190 |
| Condensing boiler with 96% estimated seasonal efficiency | New | Multi\_CZ1 | 1 | 0.9369 |
| Condensing boiler with 96% estimated seasonal efficiency | New | Multi\_CZ2 | 2 | 0.9174 |
| Condensing boiler with 96% estimated seasonal efficiency | New | Multi\_CZ3 | 3 | 0.9400 |
| Condensing boiler with 96% estimated seasonal efficiency | New | Single\_CZ1 | 1 | 1.2205 |
| Condensing boiler with 96% estimated seasonal efficiency | New | Single\_CZ2 | 2 | 1.1992 |
| Condensing boiler with 96% estimated seasonal efficiency | New | Single\_CZ3 | 3 | 1.2240 |
| Condensing boiler with 96% estimated seasonal efficiency | Turnover | Mfg\_CZ1 | 1 | 1.0154 |
| Condensing boiler with 96% estimated seasonal efficiency | Turnover | Mfg\_CZ2 | 2 | 0.9958 |
| Condensing boiler with 96% estimated seasonal efficiency | Turnover | Mfg\_CZ3 | 3 | 1.0190 |
| Condensing boiler with 96% estimated seasonal efficiency | Turnover | Multi\_CZ1 | 1 | 0.9369 |
| Condensing boiler with 96% estimated seasonal efficiency | Turnover | Multi\_CZ2 | 2 | 0.9174 |
| Condensing boiler with 96% estimated seasonal efficiency | Turnover | Multi\_CZ3 | 3 | 0.9400 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Condensing boiler with 96% estimated seasonal efficiency | Turnover | Single\_CZ1 | 1 | 1.2205 |
| Condensing boiler with 96% estimated seasonal efficiency | Turnover | Single\_CZ2 | 2 | 1.1992 |
| Condensing boiler with 96% estimated seasonal efficiency | Turnover | Single\_CZ3 | 3 | 1.2240 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Early Retirement | Mfg\_CZ1 | 1 | 0.8121 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Early Retirement | Mfg\_CZ2 | 2 | 0.8121 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Early Retirement | Mfg\_CZ3 | 3 | 0.8121 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Early Retirement | Multi\_CZ1 | 1 | 0.6648 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Early Retirement | Multi\_CZ2 | 2 | 0.6648 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Early Retirement | Multi\_CZ3 | 3 | 0.6648 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Early Retirement | Single\_CZ1 | 1 | 0.8072 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Early Retirement | Single\_CZ2 | 2 | 0.8072 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Early Retirement | Single\_CZ3 | 3 | 0.8072 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | New | Mfg\_CZ1 | 1 | 0.7929 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | New | Mfg\_CZ2 | 2 | 0.7929 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | New | Mfg\_CZ3 | 3 | 0.7929 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | New | Multi\_CZ1 | 1 | 0.6478 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | New | Multi\_CZ2 | 2 | 0.6478 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | New | Multi\_CZ3 | 3 | 0.6478 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | New | Single\_CZ1 | 1 | 0.7887 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | New | Single\_CZ2 | 2 | 0.7887 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | New | Single\_CZ3 | 3 | 0.7887 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Turnover | Mfg\_CZ1 | 1 | 0.7929 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Turnover | Mfg\_CZ2 | 2 | 0.7929 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Turnover | Mfg\_CZ3 | 3 | 0.7929 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Turnover | Multi\_CZ1 | 1 | 0.6478 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Turnover | Multi\_CZ2 | 2 | 0.6478 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Turnover | Multi\_CZ3 | 3 | 0.6478 |

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| --- | --- | --- | --- | --- |
| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Turnover | Single\_CZ1 | 1 | 0.7887 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Turnover | Single\_CZ2 | 2 | 0.7887 |
| Condensing High Efficiency Natural Gas Tankless Water Heater (0.91 EF) | Turnover | Single\_CZ3 | 3 | 0.7887 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Early Retirement | Mfg\_CZ1 | 1 | 0.7068 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Early Retirement | Mfg\_CZ2 | 2 | 0.7068 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Early Retirement | Mfg\_CZ3 | 3 | 0.7068 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Early Retirement | Multi\_CZ1 | 1 | 0.5799 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Early Retirement | Multi\_CZ2 | 2 | 0.5799 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Early Retirement | Multi\_CZ3 | 3 | 0.5799 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Early Retirement | Single\_CZ1 | 1 | 0.7024 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Early Retirement | Single\_CZ2 | 2 | 0.7024 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Early Retirement | Single\_CZ3 | 3 | 0.7024 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | New | Mfg\_CZ1 | 1 | 0.8017 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | New | Mfg\_CZ2 | 2 | 0.8017 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | New | Mfg\_CZ3 | 3 | 0.8017 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | New | Multi\_CZ1 | 1 | 0.6645 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | New | Multi\_CZ2 | 2 | 0.6645 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | New | Multi\_CZ3 | 3 | 0.6645 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | New | Single\_CZ1 | 1 | 0.7972 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | New | Single\_CZ2 | 2 | 0.7972 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | New | Single\_CZ3 | 3 | 0.7972 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Turnover | Mfg\_CZ1 | 1 | 0.8017 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Turnover | Mfg\_CZ2 | 2 | 0.8017 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Turnover | Mfg\_CZ3 | 3 | 0.8017 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Turnover | Multi\_CZ1 | 1 | 0.6645 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Turnover | Multi\_CZ2 | 2 | 0.6645 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Turnover | Multi\_CZ3 | 3 | 0.6645 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Turnover | Single\_CZ1 | 1 | 0.7972 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Turnover | Single\_CZ2 | 2 | 0.7972 |
| Condensing Natural Gas Water Heater (0.90 EF), 40 gallon | Turnover | Single\_CZ3 | 3 | 0.7972 |
| High Efficiency Boiler, 90% AFUE or greater. | Early Retirement | Mfg\_CZ1 | 1 | 0.9800 |
| High Efficiency Boiler, 90% AFUE or greater. | Early Retirement | Mfg\_CZ2 | 2 | 0.9600 |
| High Efficiency Boiler, 90% AFUE or greater. | Early Retirement | Mfg\_CZ3 | 3 | 0.9828 |
| High Efficiency Boiler, 90% AFUE or greater. | Early Retirement | Multi\_CZ1 | 1 | 0.9038 |
| High Efficiency Boiler, 90% AFUE or greater. | Early Retirement | Multi\_CZ2 | 2 | 0.8854 |
| High Efficiency Boiler, 90% AFUE or greater. | Early Retirement | Multi\_CZ3 | 3 | 0.9068 |
| High Efficiency Boiler, 90% AFUE or greater. | Early Retirement | Single\_CZ1 | 1 | 1.1770 |
| High Efficiency Boiler, 90% AFUE or greater. | Early Retirement | Single\_CZ2 | 2 | 1.1562 |
| High Efficiency Boiler, 90% AFUE or greater. | Early Retirement | Single\_CZ3 | 3 | 1.1805 |
| High Efficiency Boiler, 90% AFUE or greater. | New | Mfg\_CZ1 | 1 | 1.4110 |
| High Efficiency Boiler, 90% AFUE or greater. | New | Mfg\_CZ2 | 2 | 1.3896 |
| High Efficiency Boiler, 90% AFUE or greater. | New | Mfg\_CZ3 | 3 | 1.4146 |
| High Efficiency Boiler, 90% AFUE or greater. | New | Multi\_CZ1 | 1 | 1.3243 |
| High Efficiency Boiler, 90% AFUE or greater. | New | Multi\_CZ2 | 2 | 1.3031 |
| High Efficiency Boiler, 90% AFUE or greater. | New | Multi\_CZ3 | 3 | 1.3269 |
| High Efficiency Boiler, 90% AFUE or greater. | New | Single\_CZ1 | 1 | 1.6250 |
| High Efficiency Boiler, 90% AFUE or greater. | New | Single\_CZ2 | 2 | 1.6027 |
| High Efficiency Boiler, 90% AFUE or greater. | New | Single\_CZ3 | 3 | 1.6285 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Mfg\_CZ1 | 1 | 1.4110 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Mfg\_CZ2 | 2 | 1.3896 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Mfg\_CZ3 | 3 | 1.4146 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Multi\_CZ1 | 1 | 1.3243 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Multi\_CZ2 | 2 | 1.3031 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Multi\_CZ3 | 3 | 1.3269 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Single\_CZ1 | 1 | 1.6250 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Single\_CZ1 | 1 | 2.6094 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Single\_CZ2 | 2 | 1.6027 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Single\_CZ2 | 2 | 2.6577 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Single\_CZ3 | 3 | 2.6471 |
| High Efficiency Boiler, 90% AFUE or greater. | Turnover | Single\_CZ3 | 3 | 1.6285 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Early Retirement | Mfg\_CZ1 | 1 | 1.5844 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Early Retirement | Mfg\_CZ2 | 2 | 1.5626 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Early Retirement | Mfg\_CZ3 | 3 | 1.5883 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Early Retirement | Multi\_CZ1 | 1 | 1.5844 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Early Retirement | Multi\_CZ2 | 2 | 1.5626 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Early Retirement | Multi\_CZ3 | 3 | 1.5883 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Early Retirement | Single\_CZ1 | 1 | 1.5844 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Early Retirement | Single\_CZ2 | 2 | 1.5626 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Early Retirement | Single\_CZ3 | 3 | 1.5883 |
| High efficiency natural gas fireplace hearth; AFUE 80% | New | Mfg\_CZ1 | 1 | 1.5844 |
| High efficiency natural gas fireplace hearth; AFUE 80% | New | Mfg\_CZ2 | 2 | 1.5626 |
| High efficiency natural gas fireplace hearth; AFUE 80% | New | Mfg\_CZ3 | 3 | 1.5883 |
| High efficiency natural gas fireplace hearth; AFUE 80% | New | Multi\_CZ1 | 1 | 1.5844 |
| High efficiency natural gas fireplace hearth; AFUE 80% | New | Multi\_CZ2 | 2 | 1.5626 |
| High efficiency natural gas fireplace hearth; AFUE 80% | New | Multi\_CZ3 | 3 | 1.5883 |
| High efficiency natural gas fireplace hearth; AFUE 80% | New | Single\_CZ1 | 1 | 1.5844 |
| High efficiency natural gas fireplace hearth; AFUE 80% | New | Single\_CZ2 | 2 | 1.5626 |
| High efficiency natural gas fireplace hearth; AFUE 80% | New | Single\_CZ3 | 3 | 1.5883 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Turnover | Mfg\_CZ1 | 1 | 1.5844 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Turnover | Mfg\_CZ2 | 2 | 1.5626 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Turnover | Mfg\_CZ3 | 3 | 1.5883 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Turnover | Multi\_CZ1 | 1 | 1.5844 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Turnover | Multi\_CZ2 | 2 | 1.5626 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Turnover | Multi\_CZ3 | 3 | 1.5883 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Turnover | Single\_CZ1 | 1 | 1.5844 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Turnover | Single\_CZ2 | 2 | 1.5626 |
| High efficiency natural gas fireplace hearth; AFUE 80% | Turnover | Single\_CZ3 | 3 | 1.5883 |
| High-efficiency (condensing) furnace = AFUE 95 | Early Retirement | Mfg\_CZ1 | 1 | 0.9929 |
| High-efficiency (condensing) furnace = AFUE 95 | Early Retirement | Mfg\_CZ2 | 2 | 0.9887 |
| High-efficiency (condensing) furnace = AFUE 95 | Early Retirement | Mfg\_CZ3 | 3 | 0.9934 |
| High-efficiency (condensing) furnace = AFUE 95 | Early Retirement | Multi\_CZ1 | 1 | 1.0100 |
| High-efficiency (condensing) furnace = AFUE 95 | Early Retirement | Multi\_CZ2 | 2 | 1.0059 |
| High-efficiency (condensing) furnace = AFUE 95 | Early Retirement | Multi\_CZ3 | 3 | 1.0111 |
| High-efficiency (condensing) furnace = AFUE 95 | Early Retirement | Single\_CZ1 | 1 | 1.0600 |
| High-efficiency (condensing) furnace = AFUE 95 | Early Retirement | Single\_CZ2 | 2 | 1.0546 |
| High-efficiency (condensing) furnace = AFUE 95 | Early Retirement | Single\_CZ3 | 3 | 1.0609 |
| High-efficiency (condensing) furnace = AFUE 95 | New | Mfg\_CZ1 | 1 | 1.2767 |
| High-efficiency (condensing) furnace = AFUE 95 | New | Mfg\_CZ2 | 2 | 1.2726 |
| High-efficiency (condensing) furnace = AFUE 95 | New | Mfg\_CZ3 | 3 | 1.2773 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| High-efficiency (condensing) furnace = AFUE 95 | New | Multi\_CZ1 | 1 | 1.2932 |
| High-efficiency (condensing) furnace = AFUE 95 | New | Multi\_CZ2 | 2 | 1.2886 |
| High-efficiency (condensing) furnace = AFUE 95 | New | Multi\_CZ3 | 3 | 1.2939 |
| High-efficiency (condensing) furnace = AFUE 95 | New | Single\_CZ1 | 1 | 1.3401 |
| High-efficiency (condensing) furnace = AFUE 95 | New | Single\_CZ2 | 2 | 1.3352 |
| High-efficiency (condensing) furnace = AFUE 95 | New | Single\_CZ3 | 3 | 1.3413 |
| High-efficiency (condensing) furnace = AFUE 95 | Turnover | Mfg\_CZ1 | 1 | 1.2767 |
| High-efficiency (condensing) furnace = AFUE 95 | Turnover | Mfg\_CZ2 | 2 | 1.2726 |
| High-efficiency (condensing) furnace = AFUE 95 | Turnover | Mfg\_CZ3 | 3 | 1.2773 |
| High-efficiency (condensing) furnace = AFUE 95 | Turnover | Multi\_CZ1 | 1 | 1.2932 |
| High-efficiency (condensing) furnace = AFUE 95 | Turnover | Multi\_CZ2 | 2 | 1.2886 |
| High-efficiency (condensing) furnace = AFUE 95 | Turnover | Multi\_CZ3 | 3 | 1.2939 |
| High-efficiency (condensing) furnace = AFUE 95 | Turnover | Single\_CZ1 | 1 | 1.3401 |
| High-efficiency (condensing) furnace = AFUE 95 | Turnover | Single\_CZ2 | 2 | 1.3352 |
| High-efficiency (condensing) furnace = AFUE 95 | Turnover | Single\_CZ3 | 3 | 1.3413 |
| New High Efficiency Condensing Boiler for Water and Space Heating applied to MF buildings | Early Retirement | Multi\_CZ3 | 3 | 1.9605 |
| New High Efficiency Condensing Boiler for Water and Space Heating applied to MF buildings | New | Multi\_CZ1 | 1 | 1.9605 |
| New High Efficiency Condensing Boiler for Water and Space Heating applied to MF buildings | Turnover | Multi\_CZ2 | 2 | 1.9605 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Early Retirement | Mfg\_CZ1 | 1 | 0.8326 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Early Retirement | Mfg\_CZ2 | 2 | 0.8229 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Early Retirement | Mfg\_CZ3 | 3 | 0.8341 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Early Retirement | Multi\_CZ1 | 1 | 0.6756 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Early Retirement | Multi\_CZ2 | 2 | 0.6662 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Early Retirement | Multi\_CZ3 | 3 | 0.6771 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Early Retirement | Single\_CZ1 | 1 | 0.4675 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Early Retirement | Single\_CZ2 | 2 | 0.4613 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Early Retirement | Single\_CZ3 | 3 | 0.4684 |
| Tankless water heater with mean capacity of 108 MBTU/hr | New | Mfg\_CZ1 | 1 | 2.4795 |
| Tankless water heater with mean capacity of 108 MBTU/hr | New | Mfg\_CZ2 | 2 | 2.4717 |
| Tankless water heater with mean capacity of 108 MBTU/hr | New | Mfg\_CZ3 | 3 | 2.4806 |
| Tankless water heater with mean capacity of 108 MBTU/hr | New | Multi\_CZ1 | 1 | 2.4180 |
| Tankless water heater with mean capacity of 108 MBTU/hr | New | Multi\_CZ2 | 2 | 2.4086 |
| Tankless water heater with mean capacity of 108 MBTU/hr | New | Multi\_CZ3 | 3 | 2.4194 |
| Tankless water heater with mean capacity of 108 MBTU/hr | New | Single\_CZ1 | 1 | 2.2099 |
| Tankless water heater with mean capacity of 108 MBTU/hr | New | Single\_CZ2 | 2 | 2.2002 |
| Tankless water heater with mean capacity of 108 MBTU/hr | New | Single\_CZ3 | 3 | 2.2114 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Turnover | Mfg\_CZ1 | 1 | 0.8400 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Turnover | Mfg\_CZ2 | 2 | 0.8305 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Turnover | Mfg\_CZ3 | 3 | 0.8414 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Turnover | Multi\_CZ1 | 1 | 0.6685 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Turnover | Multi\_CZ2 | 2 | 0.6594 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Turnover | Multi\_CZ3 | 3 | 0.6699 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Turnover | Single\_CZ1 | 1 | 0.4421 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Turnover | Single\_CZ2 | 2 | 0.4363 |
| Tankless water heater with mean capacity of 108 MBTU/hr | Turnover | Single\_CZ3 | 3 | 0.4430 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Attic / Ceiling Insulation > R-38 | Existing | Mfg\_CZ1 | 1 | 1.5437 |
| Attic / Ceiling Insulation > R-38 | Existing | Mfg\_CZ1 | 1 | 1.2698 |
| Attic / Ceiling Insulation > R-38 | Existing | Mfg\_CZ2 | 2 | 1.4993 |
| Attic / Ceiling Insulation > R-38 | Existing | Mfg\_CZ2 | 2 | 1.2329 |
| Attic / Ceiling Insulation > R-38 | Existing | Mfg\_CZ3 | 3 | 1.6560 |
| Attic / Ceiling Insulation > R-38 | Existing | Mfg\_CZ3 | 3 | 1.3745 |
| Attic / Ceiling Insulation > R-38 | Existing | Multi\_CZ1 | 1 | 1.5437 |
| Attic / Ceiling Insulation > R-38 | Existing | Multi\_CZ1 | 1 | 1.2698 |
| Attic / Ceiling Insulation > R-38 | Existing | Multi\_CZ2 | 2 | 1.4993 |
| Attic / Ceiling Insulation > R-38 | Existing | Multi\_CZ2 | 2 | 1.2329 |
| Attic / Ceiling Insulation > R-38 | Existing | Multi\_CZ3 | 3 | 1.6560 |
| Attic / Ceiling Insulation > R-38 | Existing | Multi\_CZ3 | 3 | 1.3745 |
| Attic / Ceiling Insulation > R-38 | Existing | Single\_CZ1 | 1 | 1.5449 |
| Attic / Ceiling Insulation > R-38 | Existing | Single\_CZ1 | 1 | 1.2709 |
| Attic / Ceiling Insulation > R-38 | Existing | Single\_CZ2 | 2 | 1.5032 |
| Attic / Ceiling Insulation > R-38 | Existing | Single\_CZ2 | 2 | 1.2329 |
| Attic / Ceiling Insulation > R-38 | Existing | Single\_CZ3 | 3 | 1.6548 |
| Attic / Ceiling Insulation > R-38 | Existing | Single\_CZ3 | 3 | 1.3726 |
| Attic / Ceiling Insulation > R-38 | New | Mfg\_CZ1 | 1 | 1.4993 |
| Attic / Ceiling Insulation > R-38 | New | Mfg\_CZ2 | 2 | 1.4532 |
| Attic / Ceiling Insulation > R-38 | New | Mfg\_CZ3 | 3 | 1.6042 |
| Attic / Ceiling Insulation > R-38 | New | Multi\_CZ1 | 1 | 1.4993 |
| Attic / Ceiling Insulation > R-38 | New | Multi\_CZ2 | 2 | 1.4532 |
| Attic / Ceiling Insulation > R-38 | New | Multi\_CZ3 | 3 | 1.6042 |
| Attic / Ceiling Insulation > R-38 | New | Single\_CZ1 | 1 | 1.4954 |
| Attic / Ceiling Insulation > R-38 | New | Single\_CZ2 | 2 | 1.4559 |
| Attic / Ceiling Insulation > R-38 | New | Single\_CZ3 | 3 | 1.6065 |
| Attic / Ceiling Insulation > R-49 | Existing | Mfg\_CZ1 | 1 | 2.6501 |
| Attic / Ceiling Insulation > R-49 | Existing | Mfg\_CZ1 | 1 | 1.7673 |
| Attic / Ceiling Insulation > R-49 | Existing | Mfg\_CZ2 | 2 | 2.6134 |
| Attic / Ceiling Insulation > R-49 | Existing | Mfg\_CZ2 | 2 | 1.7238 |
| Attic / Ceiling Insulation > R-49 | Existing | Mfg\_CZ3 | 3 | 2.7445 |
| Attic / Ceiling Insulation > R-49 | Existing | Mfg\_CZ3 | 3 | 1.8804 |
| Attic / Ceiling Insulation > R-49 | Existing | Multi\_CZ1 | 1 | 2.6501 |
| Attic / Ceiling Insulation > R-49 | Existing | Multi\_CZ1 | 1 | 1.7673 |
| Attic / Ceiling Insulation > R-49 | Existing | Multi\_CZ2 | 2 | 2.6134 |
| Attic / Ceiling Insulation > R-49 | Existing | Multi\_CZ2 | 2 | 1.7238 |
| Attic / Ceiling Insulation > R-49 | Existing | Multi\_CZ3 | 3 | 2.7445 |
| Attic / Ceiling Insulation > R-49 | Existing | Multi\_CZ3 | 3 | 1.8804 |
| Attic / Ceiling Insulation > R-49 | Existing | Single\_CZ1 | 1 | 2.6498 |
| Attic / Ceiling Insulation > R-49 | Existing | Single\_CZ1 | 1 | 1.7673 |
| Attic / Ceiling Insulation > R-49 | Existing | Single\_CZ2 | 2 | 2.6135 |
| Attic / Ceiling Insulation > R-49 | Existing | Single\_CZ2 | 2 | 1.7249 |
| Attic / Ceiling Insulation > R-49 | Existing | Single\_CZ3 | 3 | 2.7446 |
| Attic / Ceiling Insulation > R-49 | Existing | Single\_CZ3 | 3 | 1.8804 |
| Attic / Ceiling Insulation > R-49 | New | Mfg\_CZ1 | 1 | 2.6082 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Attic / Ceiling Insulation > R-49 | New | Mfg\_CZ1 | 1 | 1.7183 |
| Attic / Ceiling Insulation > R-49 | New | Mfg\_CZ1 | 1 | 1.2275 |
| Attic / Ceiling Insulation > R-49 | New | Mfg\_CZ2 | 2 | 2.5703 |
| Attic / Ceiling Insulation > R-49 | New | Mfg\_CZ2 | 2 | 1.6756 |
| Attic / Ceiling Insulation > R-49 | New | Mfg\_CZ2 | 2 | 1.3307 |
| Attic / Ceiling Insulation > R-49 | New | Mfg\_CZ3 | 3 | 2.7041 |
| Attic / Ceiling Insulation > R-49 | New | Mfg\_CZ3 | 3 | 1.8317 |
| Attic / Ceiling Insulation > R-49 | New | Mfg\_CZ3 | 3 | 1.3307 |
| Attic / Ceiling Insulation > R-49 | New | Multi\_CZ1 | 1 | 2.6082 |
| Attic / Ceiling Insulation > R-49 | New | Multi\_CZ1 | 1 | 1.7183 |
| Attic / Ceiling Insulation > R-49 | New | Multi\_CZ1 | 1 | 1.2275 |
| Attic / Ceiling Insulation > R-49 | New | Multi\_CZ2 | 2 | 2.5703 |
| Attic / Ceiling Insulation > R-49 | New | Multi\_CZ2 | 2 | 1.6756 |
| Attic / Ceiling Insulation > R-49 | New | Multi\_CZ2 | 2 | 1.3307 |
| Attic / Ceiling Insulation > R-49 | New | Multi\_CZ3 | 3 | 2.7041 |
| Attic / Ceiling Insulation > R-49 | New | Multi\_CZ3 | 3 | 1.8317 |
| Attic / Ceiling Insulation > R-49 | New | Multi\_CZ3 | 3 | 1.3307 |
| Attic / Ceiling Insulation > R-49 | New | Single\_CZ1 | 1 | 2.6077 |
| Attic / Ceiling Insulation > R-49 | New | Single\_CZ1 | 1 | 1.7182 |
| Attic / Ceiling Insulation > R-49 | New | Single\_CZ1 | 1 | 1.2265 |
| Attic / Ceiling Insulation > R-49 | New | Single\_CZ2 | 2 | 2.5706 |
| Attic / Ceiling Insulation > R-49 | New | Single\_CZ2 | 2 | 1.6756 |
| Attic / Ceiling Insulation > R-49 | New | Single\_CZ2 | 2 | 1.3288 |
| Attic / Ceiling Insulation > R-49 | New | Single\_CZ3 | 3 | 2.7042 |
| Attic / Ceiling Insulation > R-49 | New | Single\_CZ3 | 3 | 1.8307 |
| Attic / Ceiling Insulation > R-49 | New | Single\_CZ3 | 3 | 1.3288 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | Existing | Mfg\_CZ1 | 1 | 1.4492 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | Existing | Mfg\_CZ2 | 2 | 1.4277 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | Existing | Mfg\_CZ3 | 3 | 1.4527 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | Existing | Multi\_CZ1 | 1 | 1.3621 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | Existing | Multi\_CZ2 | 2 | 1.3408 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | Existing | Multi\_CZ3 | 3 | 1.3660 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | Existing | Single\_CZ1 | 1 | 1.6627 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | Existing | Single\_CZ2 | 2 | 1.6415 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | Existing | Single\_CZ3 | 3 | 1.6662 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | New | Mfg\_CZ1 | 1 | 1.4118 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | New | Mfg\_CZ2 | 2 | 1.3892 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | New | Mfg\_CZ3 | 3 | 1.4155 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | New | Multi\_CZ1 | 1 | 1.3244 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | New | Multi\_CZ2 | 2 | 1.3021 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | New | Multi\_CZ3 | 3 | 1.3272 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | New | Single\_CZ1 | 1 | 1.6251 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | New | Single\_CZ2 | 2 | 1.6036 |
| Boiler reset controls capable of resetting boiler supply water temp in an inverse linear fasion w/outdoor air temp | New | Single\_CZ3 | 3 | 1.6288 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | Existing | Mfg\_CZ1 | 1 | 0.9585 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | Existing | Mfg\_CZ2 | 2 | 0.9363 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | Existing | Mfg\_CZ3 | 3 | 1.0188 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | Existing | Multi\_CZ1 | 1 | 0.9585 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | Existing | Multi\_CZ2 | 2 | 0.9363 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | Existing | Multi\_CZ3 | 3 | 1.0188 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | Existing | Single\_CZ1 | 1 | 0.9585 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | Existing | Single\_CZ2 | 2 | 0.9363 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | Existing | Single\_CZ3 | 3 | 1.0188 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | New | Mfg\_CZ1 | 1 | 0.0818 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | New | Mfg\_CZ2 | 2 | 0.0795 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | New | Mfg\_CZ3 | 3 | 0.0929 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | New | Multi\_CZ1 | 1 | 0.0818 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | New | Multi\_CZ2 | 2 | 0.0795 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | New | Multi\_CZ3 | 3 | 0.0929 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | New | Single\_CZ1 | 1 | 0.0818 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | New | Single\_CZ2 | 2 | 0.0795 |
| Comprehensive shell air sealing / infiltration control: to achieve CFM of 1250 | New | Single\_CZ3 | 3 | 0.0929 |
| Door U-Factor <0.21, Energy Star Door | Existing | Mfg\_CZ1 | 1 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | Existing | Mfg\_CZ2 | 2 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | Existing | Mfg\_CZ3 | 3 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | Existing | Multi\_CZ1 | 1 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | Existing | Multi\_CZ2 | 2 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | Existing | Multi\_CZ3 | 3 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | Existing | Single\_CZ1 | 1 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | Existing | Single\_CZ2 | 2 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | Existing | Single\_CZ3 | 3 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | New | Mfg\_CZ1 | 1 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | New | Mfg\_CZ2 | 2 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | New | Mfg\_CZ3 | 3 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | New | Multi\_CZ1 | 1 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | New | Multi\_CZ2 | 2 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | New | Multi\_CZ3 | 3 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | New | Single\_CZ1 | 1 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | New | Single\_CZ2 | 2 | 1.3109 |
| Door U-Factor <0.21, Energy Star Door | New | Single\_CZ3 | 3 | 1.3109 |
| Drain Water Heat Recovery Unit, 60% efficiency | Existing | Mfg\_CZ1 | 1 | 1.2044 |
| Drain Water Heat Recovery Unit, 60% efficiency | Existing | Mfg\_CZ2 | 2 | 1.2044 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Drain Water Heat Recovery Unit, 60% efficiency | Existing | Mfg\_CZ3 | 3 | 1.2044 |
| Drain Water Heat Recovery Unit, 60% efficiency | Existing | Multi\_CZ1 | 1 | 0.7145 |
| Drain Water Heat Recovery Unit, 60% efficiency | Existing | Multi\_CZ2 | 2 | 0.7145 |
| Drain Water Heat Recovery Unit, 60% efficiency | Existing | Multi\_CZ3 | 3 | 0.7145 |
| Drain Water Heat Recovery Unit, 60% efficiency | Existing | Single\_CZ1 | 1 | 1.2044 |
| Drain Water Heat Recovery Unit, 60% efficiency | Existing | Single\_CZ2 | 2 | 1.2044 |
| Drain Water Heat Recovery Unit, 60% efficiency | Existing | Single\_CZ3 | 3 | 1.2044 |
| Drain Water Heat Recovery Unit, 60% efficiency | New | Mfg\_CZ1 | 1 | 0.9739 |
| Drain Water Heat Recovery Unit, 60% efficiency | New | Mfg\_CZ2 | 2 | 0.9739 |
| Drain Water Heat Recovery Unit, 60% efficiency | New | Mfg\_CZ3 | 3 | 0.9739 |
| Drain Water Heat Recovery Unit, 60% efficiency | New | Multi\_CZ1 | 1 | 0.5531 |
| Drain Water Heat Recovery Unit, 60% efficiency | New | Multi\_CZ2 | 2 | 0.5531 |
| Drain Water Heat Recovery Unit, 60% efficiency | New | Multi\_CZ3 | 3 | 0.5531 |
| Drain Water Heat Recovery Unit, 60% efficiency | New | Single\_CZ1 | 1 | 0.9739 |
| Drain Water Heat Recovery Unit, 60% efficiency | New | Single\_CZ2 | 2 | 0.9739 |
| Drain Water Heat Recovery Unit, 60% efficiency | New | Single\_CZ3 | 3 | 0.9739 |
| Exterior Wall Insulation > R11 | Existing | Mfg\_CZ1 | 1 | 2.6064 |
| Exterior Wall Insulation > R11 | Existing | Mfg\_CZ2 | 2 | 2.5697 |
| Exterior Wall Insulation > R11 | Existing | Mfg\_CZ3 | 3 | 2.7035 |
| Exterior Wall Insulation > R11 | Existing | Multi\_CZ1 | 1 | 2.6064 |
| Exterior Wall Insulation > R11 | Existing | Multi\_CZ2 | 2 | 2.5697 |
| Exterior Wall Insulation > R11 | Existing | Multi\_CZ3 | 3 | 2.7035 |
| Exterior Wall Insulation > R11 | Existing | Single\_CZ1 | 1 | 2.6066 |
| Exterior Wall Insulation > R11 | Existing | Single\_CZ2 | 2 | 2.5697 |
| Exterior Wall Insulation > R11 | Existing | Single\_CZ3 | 3 | 2.7033 |
| Exterior Wall Insulation > R11 | New | Mfg\_CZ1 | 1 | 2.5643 |
| Exterior Wall Insulation > R11 | New | Mfg\_CZ2 | 2 | 2.5257 |
| Exterior Wall Insulation > R11 | New | Mfg\_CZ3 | 3 | 2.6626 |
| Exterior Wall Insulation > R11 | New | Multi\_CZ1 | 1 | 2.5643 |
| Exterior Wall Insulation > R11 | New | Multi\_CZ2 | 2 | 2.5257 |
| Exterior Wall Insulation > R11 | New | Multi\_CZ3 | 3 | 2.6626 |
| Exterior Wall Insulation > R11 | New | Single\_CZ1 | 1 | 2.5641 |
| Exterior Wall Insulation > R11 | New | Single\_CZ2 | 2 | 2.5261 |
| Exterior Wall Insulation > R11 | New | Single\_CZ3 | 3 | 2.6623 |
| HERS 75 | New | Single\_CZ1 | 1 | 0.7706 |
| HERS 75 | New | Single\_CZ2 | 2 | 0.7619 |
| HERS 75 | New | Single\_CZ3 | 3 | 0.7721 |
| Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3) | Existing | Mfg\_CZ1 | 1 | 1.3176 |
| Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3) | Existing | Mfg\_CZ2 | 2 | 1.3176 |
| Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3) | Existing | Mfg\_CZ3 | 3 | 1.3176 |
| Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3) | Existing | Multi\_CZ1 | 1 | 1.2449 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3) | Existing | Multi\_CZ2 | 2 | 1.2449 |
| Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3) | Existing | Multi\_CZ3 | 3 | 1.2449 |
| Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3) | Existing | Single\_CZ1 | 1 | 1.3137 |
| Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3) | Existing | Single\_CZ2 | 2 | 1.3137 |
| Insulated hot water pipe for conventional gas storage tank-type hot water heater (R>5.3) | Existing | Single\_CZ3 | 3 | 1.3137 |
| Low Flow Showerhead (1.5 GPM max) | Existing | Mfg\_CZ1 | 1 | 1.4845 |
| Low Flow Showerhead (1.5 GPM max) | Existing | Mfg\_CZ2 | 2 | 1.4845 |
| Low Flow Showerhead (1.5 GPM max) | Existing | Mfg\_CZ3 | 3 | 1.4845 |
| Low Flow Showerhead (1.5 GPM max) | Existing | Multi\_CZ1 | 1 | 1.4709 |
| Low Flow Showerhead (1.5 GPM max) | Existing | Multi\_CZ2 | 2 | 1.4709 |
| Low Flow Showerhead (1.5 GPM max) | Existing | Multi\_CZ3 | 3 | 1.4709 |
| Low Flow Showerhead (1.5 GPM max) | Existing | Single\_CZ1 | 1 | 1.4507 |
| Low Flow Showerhead (1.5 GPM max) | Existing | Single\_CZ2 | 2 | 1.4507 |
| Low Flow Showerhead (1.5 GPM max) | Existing | Single\_CZ3 | 3 | 1.4507 |
| Low Flow Showerhead (1.5 GPM max) | New | Mfg\_CZ1 | 1 | 1.3357 |
| Low Flow Showerhead (1.5 GPM max) | New | Mfg\_CZ2 | 2 | 1.3357 |
| Low Flow Showerhead (1.5 GPM max) | New | Mfg\_CZ3 | 3 | 1.3357 |
| Low Flow Showerhead (1.5 GPM max) | New | Multi\_CZ1 | 1 | 1.3094 |
| Low Flow Showerhead (1.5 GPM max) | New | Multi\_CZ2 | 2 | 1.3094 |
| Low Flow Showerhead (1.5 GPM max) | New | Multi\_CZ3 | 3 | 1.3094 |
| Low Flow Showerhead (1.5 GPM max) | New | Single\_CZ1 | 1 | 1.2717 |
| Low Flow Showerhead (1.5 GPM max) | New | Single\_CZ2 | 2 | 1.2717 |
| Low Flow Showerhead (1.5 GPM max) | New | Single\_CZ3 | 3 | 1.2717 |
| Low Flow Showerhead (2.0 GPM max) | Existing | Mfg\_CZ1 | 1 | 1.4447 |
| Low Flow Showerhead (2.0 GPM max) | Existing | Mfg\_CZ2 | 2 | 1.4447 |
| Low Flow Showerhead (2.0 GPM max) | Existing | Mfg\_CZ3 | 3 | 1.4447 |
| Low Flow Showerhead (2.0 GPM max) | Existing | Multi\_CZ1 | 1 | 1.4270 |
| Low Flow Showerhead (2.0 GPM max) | Existing | Multi\_CZ2 | 2 | 1.4270 |
| Low Flow Showerhead (2.0 GPM max) | Existing | Multi\_CZ3 | 3 | 1.4270 |
| Low Flow Showerhead (2.0 GPM max) | Existing | Single\_CZ1 | 1 | 1.4018 |
| Low Flow Showerhead (2.0 GPM max) | Existing | Single\_CZ2 | 2 | 1.4018 |
| Low Flow Showerhead (2.0 GPM max) | Existing | Single\_CZ3 | 3 | 1.4018 |
| Low Flow Showerhead (2.0 GPM max) | New | Mfg\_CZ1 | 1 | 0.8330 |
| Low Flow Showerhead (2.0 GPM max) | New | Mfg\_CZ2 | 2 | 0.8330 |
| Low Flow Showerhead (2.0 GPM max) | New | Mfg\_CZ3 | 3 | 0.8330 |
| Low Flow Showerhead (2.0 GPM max) | New | Multi\_CZ1 | 1 | 0.7893 |
| Low Flow Showerhead (2.0 GPM max) | New | Multi\_CZ2 | 2 | 0.7893 |
| Low Flow Showerhead (2.0 GPM max) | New | Multi\_CZ3 | 3 | 0.7893 |
| Low Flow Showerhead (2.0 GPM max) | New | Single\_CZ1 | 1 | 0.7327 |
| Low Flow Showerhead (2.0 GPM max) | New | Single\_CZ2 | 2 | 0.7327 |
| Low Flow Showerhead (2.0 GPM max) | New | Single\_CZ3 | 3 | 0.7327 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | Existing | Mfg\_CZ1 | 1 | 1.3208 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | Existing | Mfg\_CZ2 | 2 | 1.3208 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | Existing | Mfg\_CZ3 | 3 | 1.3208 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | Existing | Multi\_CZ1 | 1 | 1.2493 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | Existing | Multi\_CZ2 | 2 | 1.2493 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | Existing | Multi\_CZ3 | 3 | 1.2493 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | Existing | Single\_CZ1 | 1 | 1.1627 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | Existing | Single\_CZ2 | 2 | 1.1627 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | Existing | Single\_CZ3 | 3 | 1.1627 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | New | Mfg\_CZ1 | 1 | 1.0194 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | New | Mfg\_CZ2 | 2 | 1.0194 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | New | Mfg\_CZ3 | 3 | 1.0194 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | New | Multi\_CZ1 | 1 | 0.9283 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | New | Multi\_CZ2 | 2 | 0.9283 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | New | Multi\_CZ3 | 3 | 0.9283 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | New | Single\_CZ1 | 1 | 0.7988 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | New | Single\_CZ2 | 2 | 0.7988 |
| One kitchen aerator at 1.5 gpm, and two additional aerators at 1.0 gpm = 1.17 gpm weighted average. | New | Single\_CZ3 | 3 | 0.7988 |
| Programmable Thermostat | Existing | Mfg\_CZ1 | 1 | 1.1257 |
| Programmable Thermostat | Existing | Mfg\_CZ2 | 2 | 1.1055 |
| Programmable Thermostat | Existing | Mfg\_CZ3 | 3 | 1.1728 |
| Programmable Thermostat | Existing | Multi\_CZ1 | 1 | 1.1257 |
| Programmable Thermostat | Existing | Multi\_CZ2 | 2 | 1.1055 |
| Programmable Thermostat | Existing | Multi\_CZ3 | 3 | 1.1728 |
| Programmable Thermostat | Existing | Single\_CZ1 | 1 | 1.5350 |
| Programmable Thermostat | Existing | Single\_CZ2 | 2 | 1.5261 |
| Programmable Thermostat | Existing | Single\_CZ3 | 3 | 1.5570 |
| Programmable Thermostat | New | Mfg\_CZ1 | 1 | 1.3285 |
| Programmable Thermostat | New | Mfg\_CZ2 | 2 | 1.3155 |
| Programmable Thermostat | New | Mfg\_CZ3 | 3 | 1.3666 |
| Programmable Thermostat | New | Multi\_CZ1 | 1 | 1.3285 |
| Programmable Thermostat | New | Multi\_CZ2 | 2 | 1.3155 |
| Programmable Thermostat | New | Multi\_CZ3 | 3 | 1.3666 |
| Programmable Thermostat | New | Single\_CZ1 | 1 | 1.6217 |
| Programmable Thermostat | New | Single\_CZ2 | 2 | 1.6162 |
| Programmable Thermostat | New | Single\_CZ3 | 3 | 1.6359 |
| R-13 Basement Insulation added to a basement or crawl space | Existing | Mfg\_CZ1 | 1 | 3.4134 |
| R-13 Basement Insulation added to a basement or crawl space | Existing | Mfg\_CZ2 | 2 | 3.3967 |
| R-13 Basement Insulation added to a basement or crawl space | Existing | Mfg\_CZ3 | 3 | 3.4547 |
| R-13 Basement Insulation added to a basement or crawl space | Existing | Multi\_CZ1 | 1 | 3.4134 |
| R-13 Basement Insulation added to a basement or crawl space | Existing | Multi\_CZ2 | 2 | 3.3967 |
| R-13 Basement Insulation added to a basement or crawl space | Existing | Multi\_CZ3 | 3 | 3.4547 |
| R-13 Basement Insulation added to a basement or crawl space | Existing | Single\_CZ1 | 1 | 3.4134 |
| R-13 Basement Insulation added to a basement or crawl space | Existing | Single\_CZ2 | 2 | 3.3967 |
| R-13 Basement Insulation added to a basement or crawl space | Existing | Single\_CZ3 | 3 | 3.4547 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| R-13 Basement Insulation added to a basement or crawl space | New | Mfg\_CZ1 | 1 | 3.3943 |
| R-13 Basement Insulation added to a basement or crawl space | New | Mfg\_CZ2 | 2 | 3.3775 |
| R-13 Basement Insulation added to a basement or crawl space | New | Mfg\_CZ3 | 3 | 3.4373 |
| R-13 Basement Insulation added to a basement or crawl space | New | Multi\_CZ1 | 1 | 3.3943 |
| R-13 Basement Insulation added to a basement or crawl space | New | Multi\_CZ2 | 2 | 3.3775 |
| R-13 Basement Insulation added to a basement or crawl space | New | Multi\_CZ3 | 3 | 3.4373 |
| R-13 Basement Insulation added to a basement or crawl space | New | Single\_CZ1 | 1 | 3.3943 |
| R-13 Basement Insulation added to a basement or crawl space | New | Single\_CZ2 | 2 | 3.3775 |
| R-13 Basement Insulation added to a basement or crawl space | New | Single\_CZ3 | 3 | 3.4373 |
| R-30 insulation added to basement or crawl space floor | Existing | Mfg\_CZ1 | 1 | 1.1602 |
| R-30 insulation added to basement or crawl space floor | Existing | Mfg\_CZ2 | 2 | 1.1256 |
| R-30 insulation added to basement or crawl space floor | Existing | Mfg\_CZ3 | 3 | 1.2550 |
| R-30 insulation added to basement or crawl space floor | Existing | Multi\_CZ1 | 1 | 1.1603 |
| R-30 insulation added to basement or crawl space floor | Existing | Multi\_CZ2 | 2 | 1.1252 |
| R-30 insulation added to basement or crawl space floor | Existing | Multi\_CZ3 | 3 | 1.2548 |
| R-30 insulation added to basement or crawl space floor | Existing | Single\_CZ1 | 1 | 1.1598 |
| R-30 insulation added to basement or crawl space floor | Existing | Single\_CZ2 | 2 | 1.1253 |
| R-30 insulation added to basement or crawl space floor | Existing | Single\_CZ3 | 3 | 1.2548 |
| R-30 insulation added to basement or crawl space floor | New | Mfg\_CZ1 | 1 | 1.2002 |
| R-30 insulation added to basement or crawl space floor | New | Mfg\_CZ2 | 2 | 1.1653 |
| R-30 insulation added to basement or crawl space floor | New | Mfg\_CZ3 | 3 | 1.2971 |
| R-30 insulation added to basement or crawl space floor | New | Multi\_CZ1 | 1 | 1.2002 |
| R-30 insulation added to basement or crawl space floor | New | Multi\_CZ2 | 2 | 1.1655 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| R-30 insulation added to basement or crawl space floor | New | Multi\_CZ3 | 3 | 1.2970 |
| R-30 insulation added to basement or crawl space floor | New | Single\_CZ1 | 1 | 1.2005 |
| R-30 insulation added to basement or crawl space floor | New | Single\_CZ2 | 2 | 1.1652 |
| R-30 insulation added to basement or crawl space floor | New | Single\_CZ3 | 3 | 1.2971 |
| R-5 Slab Insulation (4ft) | Existing | Mfg\_CZ1 | 1 | 1.5041 |
| R-5 Slab Insulation (4ft) | Existing | Mfg\_CZ2 | 2 | 1.4642 |
| R-5 Slab Insulation (4ft) | Existing | Mfg\_CZ3 | 3 | 1.6205 |
| R-5 Slab Insulation (4ft) | Existing | Multi\_CZ1 | 1 | 1.5969 |
| R-5 Slab Insulation (4ft) | Existing | Multi\_CZ2 | 2 | 1.5560 |
| R-5 Slab Insulation (4ft) | Existing | Multi\_CZ3 | 3 | 1.7157 |
| R-5 Slab Insulation (4ft) | Existing | Single\_CZ1 | 1 | 1.2912 |
| R-5 Slab Insulation (4ft) | Existing | Single\_CZ2 | 2 | 1.2520 |
| R-5 Slab Insulation (4ft) | Existing | Single\_CZ3 | 3 | 1.3987 |
| R-5 Slab Insulation (4ft) | New | Mfg\_CZ1 | 1 | 1.8482 |
| R-5 Slab Insulation (4ft) | New | Mfg\_CZ2 | 2 | 1.8056 |
| R-5 Slab Insulation (4ft) | New | Mfg\_CZ3 | 3 | 1.9708 |
| R-5 Slab Insulation (4ft) | New | Multi\_CZ1 | 1 | 1.7319 |
| R-5 Slab Insulation (4ft) | New | Multi\_CZ2 | 2 | 1.6899 |
| R-5 Slab Insulation (4ft) | New | Multi\_CZ3 | 3 | 1.8532 |
| R-5 Slab Insulation (4ft) | New | Single\_CZ1 | 1 | 1.4800 |
| R-5 Slab Insulation (4ft) | New | Single\_CZ2 | 2 | 1.4380 |
| R-5 Slab Insulation (4ft) | New | Single\_CZ3 | 3 | 1.5942 |
| Residential Energy Star Home [HERS Score: 75: base Home (as described in assumptions below) with the following alternates: R-44 Ceiling Insulation, 92AFUE furnace, 0.62 EF water heater, 0.46 ACH] plus the following additional savings: efficient dishwasher, clothes washer, duct insulation, and water faucets. | New | Single\_CZ1 | 1 | 0.7753 |
| Residential Energy Star Home [HERS Score: 75: base Home (as described in assumptions below) with the following alternates: R-44 Ceiling Insulation, 92AFUE furnace, 0.62 EF water heater, 0.46 ACH] plus the following additional savings: efficient dishwasher, clothes washer, duct insulation, and water faucets. | New | Single\_CZ2 | 2 | 0.7666 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Residential Energy Star Home [HERS Score: 75: base Home (as described in assumptions below) with the following alternates: R-44 Ceiling Insulation, 92AFUE furnace, 0.62 EF water heater, 0.46 ACH] plus the following additional savings: efficient dishwasher, clothes washer, duct insulation, and water faucets. | New | Single\_CZ3 | 3 | 0.7766 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | Existing | Mfg\_CZ1 | 1 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | Existing | Mfg\_CZ2 | 2 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | Existing | Mfg\_CZ3 | 3 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | Existing | Multi\_CZ1 | 1 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | Existing | Multi\_CZ2 | 2 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | Existing | Multi\_CZ3 | 3 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | Existing | Single\_CZ1 | 1 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | Existing | Single\_CZ2 | 2 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | Existing | Single\_CZ3 | 3 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | New | Mfg\_CZ1 | 1 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | New | Mfg\_CZ2 | 2 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | New | Mfg\_CZ3 | 3 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | New | Multi\_CZ1 | 1 | 1.8163 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | New | Multi\_CZ2 | 2 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | New | Multi\_CZ3 | 3 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | New | Single\_CZ1 | 1 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | New | Single\_CZ2 | 2 | 1.8163 |
| Ventilation system meeting ASHRAE 62.2-2007 requirements using an Energy Star qualified air-to- air heat recovery ventilator | New | Single\_CZ3 | 3 | 1.8163 |
| Wall Insulation, R-13 | Existing | Mfg\_CZ1 | 1 | 2.6757 |
| Wall Insulation, R-13 | Existing | Mfg\_CZ2 | 2 | 2.6397 |
| Wall Insulation, R-13 | Existing | Mfg\_CZ3 | 3 | 2.7684 |
| Wall Insulation, R-13 | Existing | Multi\_CZ1 | 1 | 2.6757 |
| Wall Insulation, R-13 | Existing | Multi\_CZ2 | 2 | 2.1889 |
| Wall Insulation, R-13 | Existing | Multi\_CZ3 | 3 | 2.7684 |
| Wall Insulation, R-13 | Existing | Single\_CZ1 | 1 | 2.6753 |
| Wall Insulation, R-13 | Existing | Single\_CZ2 | 2 | 3.0115 |
| Wall Insulation, R-13 | Existing | Single\_CZ3 | 3 | 2.7687 |
| Wall Insulation, R-13 | New | Mfg\_CZ1 | 1 | 2.6341 |
| Wall Insulation, R-13 | New | Mfg\_CZ2 | 2 | 2.5969 |
| Wall Insulation, R-13 | New | Mfg\_CZ3 | 3 | 2.7293 |
| Wall Insulation, R-13 | New | Multi\_CZ1 | 1 | 2.6341 |
| Wall Insulation, R-13 | New | Multi\_CZ2 | 2 | 2.1402 |
| Wall Insulation, R-13 | New | Multi\_CZ3 | 3 | 2.7293 |
| Wall Insulation, R-13 | New | Single\_CZ1 | 1 | 2.6339 |
| Wall Insulation, R-13 | New | Single\_CZ2 | 2 | 2.9782 |
| Wall Insulation, R-13 | New | Single\_CZ3 | 3 | 2.7293 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Early Retirement | Education | All | 1.3363 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Early Retirement | Grocery | All | 0.1795 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Early Retirement | Healthcare | All | 0.8592 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Early Retirement | Lodging | All | 2.4627 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Early Retirement | Misc. | All | 0.0189 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Early Retirement | Office | All | 0.0700 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Early Retirement | Restaurant | All | 0.6449 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Early Retirement | Retail | All | 0.0427 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Early Retirement | Warehouse | All | 0.0331 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | New | Education | All | 1.3363 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | New | Grocery | All | 0.1795 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | New | Healthcare | All | 0.8592 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | New | Lodging | All | 2.4627 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | New | Misc. | All | 0.0189 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | New | Office | All | 0.0700 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | New | Restaurant | All | 0.6449 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | New | Retail | All | 0.0427 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | New | Warehouse | All | 0.0331 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Turnover | Education | All | 1.3363 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Turnover | Grocery | All | 0.1795 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Turnover | Healthcare | All | 0.8592 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Turnover | Lodging | All | 2.4627 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Turnover | Misc. | All | 0.0189 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Turnover | Office | All | 0.0700 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Turnover | Restaurant | All | 0.6449 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Turnover | Retail | All | 0.0427 |
| 1 32SF Solar Collector, Glazed. Thermodynamics G32 (<2012) | Turnover | Warehouse | All | 0.0331 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Early Retirement | Education | All | 0.0399 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Early Retirement | Grocery | All | 0.2307 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Early Retirement | Healthcare | All | 0.0339 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Early Retirement | Lodging | All | 0.0385 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Early Retirement | Misc. | All | 0.0087 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Early Retirement | Office | All | 0.0035 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Early Retirement | Restaurant | All | 0.1296 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Early Retirement | Retail | All | 0.0127 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Early Retirement | Warehouse | All | 0.0000 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | New | Education | All | 0.2157 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | New | Grocery | All | 1.1203 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | New | Healthcare | All | 0.1842 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | New | Lodging | All | 0.2085 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | New | Misc. | All | 0.0481 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | New | Office | All | 0.0191 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | New | Restaurant | All | 0.6655 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | New | Retail | All | 0.0696 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | New | Warehouse | All | 0.0000 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Turnover | Education | All | 0.2157 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Turnover | Grocery | All | 1.1203 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Turnover | Healthcare | All | 0.1842 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Turnover | Lodging | All | 0.2085 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Turnover | Misc. | All | 0.0481 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Turnover | Office | All | 0.0191 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Turnover | Restaurant | All | 0.6655 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Turnover | Retail | All | 0.0696 |
| Combination convection with steam oven cooking efficiency ≥ 38% and convection mode cooking efficiency ≥ 44% | Turnover | Warehouse | All | 0.0000 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Early Retirement | Education | All | 0.4139 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Early Retirement | Grocery | All | 1.9275 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Early Retirement | Healthcare | All | 0.3548 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Early Retirement | Lodging | All | 0.4004 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Early Retirement | Misc. | All | 0.0944 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Early Retirement | Office | All | 0.0377 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Early Retirement | Restaurant | All | 1.2077 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Early Retirement | Retail | All | 0.1361 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Early Retirement | Warehouse | All | 0.0000 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | New | Education | All | 5.4951 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | New | Grocery | All | 7.0122 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | New | Healthcare | All | 5.2542 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | New | Lodging | All | 5.4448 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | New | Misc. | All | 2.8436 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | New | Office | All | 1.4653 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | New | Restaurant | All | 6.7103 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | New | Retail | All | 3.5180 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | New | Warehouse | All | 0.0010 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Turnover | Education | All | 5.4951 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Turnover | Grocery | All | 7.0122 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Turnover | Healthcare | All | 5.2542 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Turnover | Lodging | All | 5.4448 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Turnover | Misc. | All | 2.8436 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Turnover | Office | All | 1.4653 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Turnover | Restaurant | All | 6.7103 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Turnover | Retail | All | 3.5180 |
| Energy Star Convection Oven with cooking efficiency ≥ 44% | Turnover | Warehouse | All | 0.0010 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Early Retirement | Education | All | 0.5035 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Early Retirement | Grocery | All | 1.1822 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Early Retirement | Healthcare | All | 0.2633 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Early Retirement | Lodging | All | 0.7514 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Early Retirement | Misc. | All | 0.0864 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Early Retirement | Office | All | 0.0288 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Early Retirement | Restaurant | All | 1.8599 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Early Retirement | Retail | All | 0.0742 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Early Retirement | Warehouse | All | 0.0000 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | New | Education | All | 2.9913 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | New | Grocery | All | 4.7318 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | New | Healthcare | All | 1.8878 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | New | Lodging | All | 3.7931 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | New | Misc. | All | 0.7310 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | New | Office | All | 0.2583 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | New | Restaurant | All | 5.6149 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | New | Retail | All | 0.6353 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | New | Warehouse | All | 0.0001 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Turnover | Education | All | 2.9913 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Turnover | Grocery | All | 4.7318 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Turnover | Healthcare | All | 1.8878 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Turnover | Lodging | All | 3.7931 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Turnover | Misc. | All | 0.7310 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Turnover | Office | All | 0.2583 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Turnover | Restaurant | All | 5.6149 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Turnover | Retail | All | 0.6353 |
| ENERGY STAR® qualified with 38% minimum cooking energy efficiency at heavy load (potato) cooking capacity for gas steam cookers. | Turnover | Warehouse | All | 0.0001 |
| Heat Pump Water Heater, 1.55 COP | Early Retirement | Education | All | 0.8635 |
| Heat Pump Water Heater, 1.55 COP | Early Retirement | Grocery | All | 0.2106 |
| Heat Pump Water Heater, 1.55 COP | Early Retirement | Healthcare | All | 0.7647 |
| Heat Pump Water Heater, 1.55 COP | Early Retirement | Lodging | All | 1.8487 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Heat Pump Water Heater, 1.55 COP | Early Retirement | Misc. | All | 0.0472 |
| Heat Pump Water Heater, 1.55 COP | Early Retirement | Office | All | 0.0800 |
| Heat Pump Water Heater, 1.55 COP | Early Retirement | Restaurant | All | 2.0567 |
| Heat Pump Water Heater, 1.55 COP | Early Retirement | Retail | All | 0.0598 |
| Heat Pump Water Heater, 1.55 COP | Early Retirement | Warehouse | All | 0.0316 |
| Heat Pump Water Heater, 1.55 COP | New | Education | All | 0.9285 |
| Heat Pump Water Heater, 1.55 COP | New | Grocery | All | 0.2281 |
| Heat Pump Water Heater, 1.55 COP | New | Healthcare | All | 0.8232 |
| Heat Pump Water Heater, 1.55 COP | New | Lodging | All | 1.9666 |
| Heat Pump Water Heater, 1.55 COP | New | Misc. | All | 0.0513 |
| Heat Pump Water Heater, 1.55 COP | New | Office | All | 0.0868 |
| Heat Pump Water Heater, 1.55 COP | New | Restaurant | All | 2.1830 |
| Heat Pump Water Heater, 1.55 COP | New | Retail | All | 0.0648 |
| Heat Pump Water Heater, 1.55 COP | New | Warehouse | All | 0.0343 |
| Heat Pump Water Heater, 1.55 COP | Turnover | Education | All | 0.9285 |
| Heat Pump Water Heater, 1.55 COP | Turnover | Grocery | All | 0.2281 |
| Heat Pump Water Heater, 1.55 COP | Turnover | Healthcare | All | 0.8232 |
| Heat Pump Water Heater, 1.55 COP | Turnover | Lodging | All | 1.9666 |
| Heat Pump Water Heater, 1.55 COP | Turnover | Misc. | All | 0.0513 |
| Heat Pump Water Heater, 1.55 COP | Turnover | Office | All | 0.0868 |
| Heat Pump Water Heater, 1.55 COP | Turnover | Restaurant | All | 2.1830 |
| Heat Pump Water Heater, 1.55 COP | Turnover | Retail | All | 0.0648 |
| Heat Pump Water Heater, 1.55 COP | Turnover | Warehouse | All | 0.0343 |
| Low Intensity Gas Fired Radiant Heater | Early Retirement | Education | All | 5.6123 |
| Low Intensity Gas Fired Radiant Heater | Early Retirement | Grocery | All | 4.6467 |
| Low Intensity Gas Fired Radiant Heater | Early Retirement | Healthcare | All | 4.2724 |
| Low Intensity Gas Fired Radiant Heater | Early Retirement | Lodging | All | 4.2630 |
| Low Intensity Gas Fired Radiant Heater | Early Retirement | Misc. | All | 2.2212 |
| Low Intensity Gas Fired Radiant Heater | Early Retirement | Office | All | 3.3720 |
| Low Intensity Gas Fired Radiant Heater | Early Retirement | Restaurant | All | 2.2273 |
| Low Intensity Gas Fired Radiant Heater | Early Retirement | Retail | All | 3.4082 |
| Low Intensity Gas Fired Radiant Heater | Early Retirement | Warehouse | All | 2.9874 |
| Low Intensity Gas Fired Radiant Heater | New | Education | All | 8.0360 |
| Low Intensity Gas Fired Radiant Heater | New | Grocery | All | 7.3361 |
| Low Intensity Gas Fired Radiant Heater | New | Healthcare | All | 7.0246 |
| Low Intensity Gas Fired Radiant Heater | New | Lodging | All | 7.0164 |
| Low Intensity Gas Fired Radiant Heater | New | Misc. | All | 4.7245 |
| Low Intensity Gas Fired Radiant Heater | New | Office | All | 6.1577 |
| Low Intensity Gas Fired Radiant Heater | New | Restaurant | All | 4.7334 |
| Low Intensity Gas Fired Radiant Heater | New | Retail | All | 6.1963 |
| Low Intensity Gas Fired Radiant Heater | New | Warehouse | All | 5.7261 |
| Low Intensity Gas Fired Radiant Heater | Turnover | Education | All | 8.0360 |
| Low Intensity Gas Fired Radiant Heater | Turnover | Grocery | All | 7.3361 |
| Low Intensity Gas Fired Radiant Heater | Turnover | Healthcare | All | 7.0246 |
| Low Intensity Gas Fired Radiant Heater | Turnover | Lodging | All | 7.0164 |
| Low Intensity Gas Fired Radiant Heater | Turnover | Misc. | All | 4.7245 |
| Low Intensity Gas Fired Radiant Heater | Turnover | Office | All | 6.1577 |
| Low Intensity Gas Fired Radiant Heater | Turnover | Restaurant | All | 4.7334 |
| Low Intensity Gas Fired Radiant Heater | Turnover | Retail | All | 6.1963 |
| Low Intensity Gas Fired Radiant Heater | Turnover | Warehouse | All | 5.7261 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Early Retirement | Education | All | 0.0207 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Early Retirement | Grocery | All | 0.1217 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Early Retirement | Healthcare | All | 0.0176 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Early Retirement | Lodging | All | 0.0200 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Early Retirement | Misc. | All | 0.0045 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Early Retirement | Office | All | 0.0018 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Early Retirement | Restaurant | All | 0.0678 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Early Retirement | Retail | All | 0.0066 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Early Retirement | Warehouse | All | 0.0000 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | New | Education | All | 0.2772 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | New | Grocery | All | 1.4402 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | New | Healthcare | All | 0.2367 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | New | Lodging | All | 0.2680 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | New | Misc. | All | 0.0619 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | New | Office | All | 0.0246 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | New | Restaurant | All | 0.8555 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | New | Retail | All | 0.0895 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | New | Warehouse | All | 0.0000 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Turnover | Education | All | 0.2772 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Turnover | Grocery | All | 1.4402 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Turnover | Healthcare | All | 0.2367 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Turnover | Lodging | All | 0.2680 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Turnover | Misc. | All | 0.0619 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Turnover | Office | All | 0.0246 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Turnover | Restaurant | All | 0.8555 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Turnover | Retail | All | 0.0895 |
| Natural gas conveyor oven with a tested baking energy efficiency > 42% | Turnover | Warehouse | All | 0.0000 |
| Natural gas fired ENERGY STAR fryer | Early Retirement | Education | All | 1.9924 |
| Natural gas fired ENERGY STAR fryer | Early Retirement | Grocery | All | 3.6269 |
| Natural gas fired ENERGY STAR fryer | Early Retirement | Healthcare | All | 1.1610 |
| Natural gas fired ENERGY STAR fryer | Early Retirement | Lodging | All | 2.6888 |
| Natural gas fired ENERGY STAR fryer | Early Retirement | Misc. | All | 0.4161 |
| Natural gas fired ENERGY STAR fryer | Early Retirement | Office | All | 0.1427 |
| Natural gas fired ENERGY STAR fryer | Early Retirement | Restaurant | All | 2.8587 |
| Natural gas fired ENERGY STAR fryer | Early Retirement | Retail | All | 0.3594 |
| Natural gas fired ENERGY STAR fryer | Early Retirement | Warehouse | All | 0.0001 |
| Natural gas fired ENERGY STAR fryer | New | Education | All | 2.8175 |
| Natural gas fired ENERGY STAR fryer | New | Grocery | All | 4.5609 |
| Natural gas fired ENERGY STAR fryer | New | Healthcare | All | 1.7528 |
| Natural gas fired ENERGY STAR fryer | New | Lodging | All | 3.6107 |
| Natural gas fired ENERGY STAR fryer | New | Misc. | All | 0.6687 |
| Natural gas fired ENERGY STAR fryer | New | Office | All | 0.2349 |
| Natural gas fired ENERGY STAR fryer | New | Restaurant | All | 3.7923 |
| Natural gas fired ENERGY STAR fryer | New | Retail | All | 0.5805 |
| Natural gas fired ENERGY STAR fryer | New | Warehouse | All | 0.0001 |
| Natural gas fired ENERGY STAR fryer | Turnover | Education | All | 2.8175 |
| Natural gas fired ENERGY STAR fryer | Turnover | Grocery | All | 4.5609 |
| Natural gas fired ENERGY STAR fryer | Turnover | Healthcare | All | 1.7528 |
| Natural gas fired ENERGY STAR fryer | Turnover | Lodging | All | 3.6107 |
| Natural gas fired ENERGY STAR fryer | Turnover | Misc. | All | 0.6687 |
| Natural gas fired ENERGY STAR fryer | Turnover | Office | All | 0.2349 |
| Natural gas fired ENERGY STAR fryer | Turnover | Restaurant | All | 3.7923 |
| Natural gas fired ENERGY STAR fryer | Turnover | Retail | All | 0.5805 |
| Natural gas fired ENERGY STAR fryer | Turnover | Warehouse | All | 0.0001 |
| Natural gas fired ENERGY STAR griddle | Early Retirement | Education | All | 0.2321 |
| Natural gas fired ENERGY STAR griddle | Early Retirement | Grocery | All | 0.5754 |
| Natural gas fired ENERGY STAR griddle | Early Retirement | Healthcare | All | 0.1191 |
| Natural gas fired ENERGY STAR griddle | Early Retirement | Lodging | All | 0.3532 |
| Natural gas fired ENERGY STAR griddle | Early Retirement | Misc. | All | 0.0386 |
| Natural gas fired ENERGY STAR griddle | Early Retirement | Office | All | 0.0128 |
| Natural gas fired ENERGY STAR griddle | Early Retirement | Restaurant | All | 0.3302 |
| Natural gas fired ENERGY STAR griddle | Early Retirement | Retail | All | 0.0331 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Natural gas fired ENERGY STAR griddle | Early Retirement | Warehouse | All | 0.0000 |
| Natural gas fired ENERGY STAR griddle | New | Education | All | 2.0435 |
| Natural gas fired ENERGY STAR griddle | New | Grocery | All | 3.6914 |
| Natural gas fired ENERGY STAR griddle | New | Healthcare | All | 1.1954 |
| Natural gas fired ENERGY STAR griddle | New | Lodging | All | 2.7486 |
| Natural gas fired ENERGY STAR griddle | New | Misc. | All | 0.4299 |
| Natural gas fired ENERGY STAR griddle | New | Office | All | 0.1477 |
| Natural gas fired ENERGY STAR griddle | New | Restaurant | All | 2.6277 |
| Natural gas fired ENERGY STAR griddle | New | Retail | All | 0.3715 |
| Natural gas fired ENERGY STAR griddle | New | Warehouse | All | 0.0001 |
| Natural gas fired ENERGY STAR griddle | Turnover | Education | All | 2.0435 |
| Natural gas fired ENERGY STAR griddle | Turnover | Grocery | All | 3.6914 |
| Natural gas fired ENERGY STAR griddle | Turnover | Healthcare | All | 1.1954 |
| Natural gas fired ENERGY STAR griddle | Turnover | Lodging | All | 2.7486 |
| Natural gas fired ENERGY STAR griddle | Turnover | Misc. | All | 0.4299 |
| Natural gas fired ENERGY STAR griddle | Turnover | Office | All | 0.1477 |
| Natural gas fired ENERGY STAR griddle | Turnover | Restaurant | All | 2.6277 |
| Natural gas fired ENERGY STAR griddle | Turnover | Retail | All | 0.3715 |
| Natural gas fired ENERGY STAR griddle | Turnover | Warehouse | All | 0.0001 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Early Retirement | Education | All | 0.4761 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Early Retirement | Grocery | All | 0.6391 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Early Retirement | Healthcare | All | 0.1907 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Early Retirement | Lodging | All | 0.2827 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Early Retirement | Misc. | All | 0.2194 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Early Retirement | Office | All | 0.1955 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Early Retirement | Restaurant | All | 0.2202 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Early Retirement | Retail | All | 0.3905 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Early Retirement | Warehouse | All | 0.3239 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | New | Education | All | 0.6247 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | New | Grocery | All | 0.8348 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | New | Healthcare | All | 0.2523 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | New | Lodging | All | 0.3730 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | New | Misc. | All | 0.2900 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | New | Office | All | 0.2585 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | New | Restaurant | All | 0.2910 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | New | Retail | All | 0.5137 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | New | Warehouse | All | 0.4269 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Turnover | Education | All | 0.6247 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Turnover | Grocery | All | 0.8348 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Turnover | Healthcare | All | 0.2523 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Turnover | Lodging | All | 0.3730 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Turnover | Misc. | All | 0.2900 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Turnover | Office | All | 0.2585 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Turnover | Restaurant | All | 0.2910 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Turnover | Retail | All | 0.5137 |
| Natural Gas Heat Pump, 1.2 mimimum seasonal performance factor | Turnover | Warehouse | All | 0.4269 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Education | All | 0.2961 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Education | All | 0.1058 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Grocery | All | 0.3997 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Grocery | All | 0.0175 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Healthcare | All | 0.1175 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Healthcare | All | 0.0683 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Lodging | All | 0.1747 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Lodging | All | 0.1935 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Misc. | All | 0.1353 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Misc. | All | 0.0038 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Office | All | 0.1204 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Office | All | 0.0065 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Restaurant | All | 0.1358 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Restaurant | All | 0.1402 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Retail | All | 0.1358 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Retail | All | 0.0049 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Warehouse | All | 0.2005 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Early Retirement | Warehouse | All | 0.0068 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Education | All | 0.3678 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Education | All | 0.1323 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Grocery | All | 0.4954 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Grocery | All | 0.0219 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Healthcare | All | 0.1465 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Healthcare | All | 0.0854 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Lodging | All | 0.2176 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Lodging | All | 0.2415 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Misc. | All | 0.1672 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Misc. | All | 0.0048 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Office | All | 0.1502 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Office | All | 0.0082 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Restaurant | All | 0.1678 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Restaurant | All | 0.1751 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Retail | All | 0.3012 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Retail | All | 0.0061 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Warehouse | All | 0.2473 |
| New High Efficiency Condensing Boiler for Water and Space Heating | New | Warehouse | All | 0.0085 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Education | All | 0.3678 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Education | All | 0.1323 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Grocery | All | 0.4954 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Grocery | All | 0.0219 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Healthcare | All | 0.1465 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Healthcare | All | 0.0854 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Lodging | All | 0.2176 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Lodging | All | 0.2415 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Misc. | All | 0.1672 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Misc. | All | 0.0048 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Office | All | 0.1502 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Office | All | 0.0082 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Restaurant | All | 0.1678 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Restaurant | All | 0.1751 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Retail | All | 0.3012 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Retail | All | 0.0061 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Warehouse | All | 0.2473 |
| New High Efficiency Condensing Boiler for Water and Space Heating | Turnover | Warehouse | All | 0.0085 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Early Retirement | Education | All | 0.2979 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Early Retirement | Grocery | All | 0.4020 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Early Retirement | Healthcare | All | 0.1182 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Early Retirement | Lodging | All | 0.1758 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Early Retirement | Misc. | All | 0.1361 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Early Retirement | Office | All | 0.1212 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Early Retirement | Restaurant | All | 0.1366 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Early Retirement | Retail | All | 0.2436 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Early Retirement | Warehouse | All | 0.2017 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | New | Education | All | 0.3709 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | New | Grocery | All | 0.4996 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | New | Healthcare | All | 0.1478 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | New | Lodging | All | 0.2194 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | New | Misc. | All | 0.1701 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | New | Office | All | 0.1515 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | New | Restaurant | All | 0.1707 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | New | Retail | All | 0.3038 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | New | Warehouse | All | 0.2517 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Turnover | Education | All | 0.3709 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Turnover | Grocery | All | 0.4996 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Turnover | Healthcare | All | 0.1478 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Turnover | Lodging | All | 0.2194 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Turnover | Misc. | All | 0.1701 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Turnover | Office | All | 0.1515 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Turnover | Restaurant | All | 0.1707 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Turnover | Retail | All | 0.3038 |
| New High Efficiency Condensing Boiler Input Capacity >300 kBtuh and Thermal Efficiency >=90% | Turnover | Warehouse | All | 0.2517 |
| New High Efficiency Condensing Furnace 91 AFUE | Early Retirement | Education | All | 1.1277 |
| New High Efficiency Condensing Furnace 91 AFUE | Early Retirement | Grocery | All | 1.4171 |
| New High Efficiency Condensing Furnace 91 AFUE | Early Retirement | Healthcare | All | 0.9697 |
| New High Efficiency Condensing Furnace 91 AFUE | Early Retirement | Lodging | All | 0.7914 |
| New High Efficiency Condensing Furnace 91 AFUE | Early Retirement | Misc. | All | 1.0373 |
| New High Efficiency Condensing Furnace 91 AFUE | Early Retirement | Office | All | 0.8597 |
| New High Efficiency Condensing Furnace 91 AFUE | Early Retirement | Restaurant | All | 1.7281 |
| New High Efficiency Condensing Furnace 91 AFUE | Early Retirement | Retail | All | 1.0484 |
| New High Efficiency Condensing Furnace 91 AFUE | Early Retirement | Warehouse | All | 0.6158 |
| New High Efficiency Condensing Furnace 91 AFUE | New | Education | All | 2.6949 |
| New High Efficiency Condensing Furnace 91 AFUE | New | Grocery | All | 3.2410 |
| New High Efficiency Condensing Furnace 91 AFUE | New | Healthcare | All | 2.3755 |
| New High Efficiency Condensing Furnace 91 AFUE | New | Lodging | All | 1.9953 |
| New High Efficiency Condensing Furnace 91 AFUE | New | Misc. | All | 2.5142 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| New High Efficiency Condensing Furnace 91 AFUE | New | Office | All | 2.1436 |
| New High Efficiency Condensing Furnace 91 AFUE | New | Restaurant | All | 3.7782 |
| New High Efficiency Condensing Furnace 91 AFUE | New | Retail | All | 2.5367 |
| New High Efficiency Condensing Furnace 91 AFUE | New | Warehouse | All | 1.5985 |
| New High Efficiency Condensing Furnace 91 AFUE | Turnover | Education | All | 2.6949 |
| New High Efficiency Condensing Furnace 91 AFUE | Turnover | Grocery | All | 3.2410 |
| New High Efficiency Condensing Furnace 91 AFUE | Turnover | Healthcare | All | 2.3755 |
| New High Efficiency Condensing Furnace 91 AFUE | Turnover | Lodging | All | 1.9953 |
| New High Efficiency Condensing Furnace 91 AFUE | Turnover | Misc. | All | 2.5142 |
| New High Efficiency Condensing Furnace 91 AFUE | Turnover | Office | All | 2.1436 |
| New High Efficiency Condensing Furnace 91 AFUE | Turnover | Restaurant | All | 3.7782 |
| New High Efficiency Condensing Furnace 91 AFUE | Turnover | Retail | All | 2.5367 |
| New High Efficiency Condensing Furnace 91 AFUE | Turnover | Warehouse | All | 1.5985 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Early Retirement | Education | All | 1.4018 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Early Retirement | Grocery | All | 1.7513 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Early Retirement | Healthcare | All | 1.2092 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Early Retirement | Lodging | All | 0.9905 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Early Retirement | Misc. | All | 1.2918 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Early Retirement | Office | All | 1.0745 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Early Retirement | Restaurant | All | 1.8803 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Early Retirement | Retail | All | 1.3053 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Early Retirement | Warehouse | All | 0.7734 |
| New High Efficiency Condensing Unit Heater 92 AFUE | New | Education | All | 1.3166 |
| New High Efficiency Condensing Unit Heater 92 AFUE | New | Grocery | All | 1.6487 |
| New High Efficiency Condensing Unit Heater 92 AFUE | New | Healthcare | All | 1.1343 |
| New High Efficiency Condensing Unit Heater 92 AFUE | New | Lodging | All | 0.9278 |
| New High Efficiency Condensing Unit Heater 92 AFUE | New | Misc. | All | 1.2124 |
| New High Efficiency Condensing Unit Heater 92 AFUE | New | Office | All | 1.0070 |
| New High Efficiency Condensing Unit Heater 92 AFUE | New | Restaurant | All | 1.7716 |
| New High Efficiency Condensing Unit Heater 92 AFUE | New | Retail | All | 1.2252 |
| New High Efficiency Condensing Unit Heater 92 AFUE | New | Warehouse | All | 0.7234 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Turnover | Education | All | 1.3166 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Turnover | Grocery | All | 1.6487 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Turnover | Healthcare | All | 1.1343 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Turnover | Lodging | All | 0.9278 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Turnover | Misc. | All | 1.2124 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Turnover | Office | All | 1.0070 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Turnover | Restaurant | All | 1.7716 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Turnover | Retail | All | 1.2252 |
| New High Efficiency Condensing Unit Heater 92 AFUE | Turnover | Warehouse | All | 0.7234 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Early Retirement | Education | All | 1.1584 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Early Retirement | Grocery | All | 1.4569 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Early Retirement | Healthcare | All | 0.9957 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Early Retirement | Lodging | All | 0.8122 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Early Retirement | Misc. | All | 1.0654 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Early Retirement | Office | All | 0.8825 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Early Retirement | Restaurant | All | 1.5680 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Early Retirement | Retail | All | 1.0768 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Early Retirement | Warehouse | All | 0.6317 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | New | Education | All | 0.8036 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | New | Grocery | All | 1.0205 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | New | Healthcare | All | 0.6871 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | New | Lodging | All | 0.5572 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | New | Misc. | All | 0.7368 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | New | Office | All | 0.6068 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | New | Restaurant | All | 1.1023 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | New | Retail | All | 0.7450 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | New | Warehouse | All | 0.4309 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Turnover | Education | All | 0.8036 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Turnover | Grocery | All | 1.0205 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Turnover | Healthcare | All | 0.6871 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Turnover | Lodging | All | 0.5572 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Turnover | Misc. | All | 0.7368 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Turnover | Office | All | 0.6068 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Turnover | Restaurant | All | 1.1023 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Turnover | Retail | All | 0.7450 |
| New High Efficiency Non-Condensing Unit Heater 86 AFUE | Turnover | Warehouse | All | 0.4309 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Early Retirement | Education | All | 0.6017 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Early Retirement | Grocery | All | 0.1425 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Early Retirement | Healthcare | All | 0.5305 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Early Retirement | Lodging | All | 1.3487 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Early Retirement | Misc. | All | 0.0317 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Early Retirement | Office | All | 0.0538 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Early Retirement | Restaurant | All | 1.5155 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Early Retirement | Retail | All | 0.0402 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Early Retirement | Warehouse | All | 0.0212 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | New | Education | All | 1.3685 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | New | Grocery | All | 0.3529 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | New | Healthcare | All | 1.2219 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | New | Lodging | All | 2.7083 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | New | Misc. | All | 0.0803 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | New | Office | All | 0.1356 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | New | Restaurant | All | 2.9658 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | New | Retail | All | 0.1015 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | New | Warehouse | All | 0.0538 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Turnover | Education | All | 1.3685 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Turnover | Grocery | All | 0.3529 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Turnover | Healthcare | All | 1.2219 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Turnover | Lodging | All | 2.7083 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Turnover | Misc. | All | 0.0803 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Turnover | Office | All | 0.1356 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Turnover | Restaurant | All | 2.9658 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Turnover | Retail | All | 0.1015 |
| New High Efficiency Tank Condensing Water Heater, >75,000 kBtuh | Turnover | Warehouse | All | 0.0538 |
| New High Efficiency Tank Water Heater | Early Retirement | Education | All | 0.8567 |
| New High Efficiency Tank Water Heater | Early Retirement | Grocery | All | 0.2088 |
| New High Efficiency Tank Water Heater | Early Retirement | Healthcare | All | 0.7587 |
| New High Efficiency Tank Water Heater | Early Retirement | Lodging | All | 1.8363 |
| New High Efficiency Tank Water Heater | Early Retirement | Misc. | All | 0.0468 |
| New High Efficiency Tank Water Heater | Early Retirement | Office | All | 0.0793 |
| New High Efficiency Tank Water Heater | Early Retirement | Restaurant | All | 2.0435 |
| New High Efficiency Tank Water Heater | Early Retirement | Retail | All | 0.0592 |
| New High Efficiency Tank Water Heater | Early Retirement | Warehouse | All | 0.0313 |
| New High Efficiency Tank Water Heater | New | Education | All | 0.9549 |
| New High Efficiency Tank Water Heater | New | Grocery | All | 0.2353 |
| New High Efficiency Tank Water Heater | New | Healthcare | All | 0.8469 |
| New High Efficiency Tank Water Heater | New | Lodging | All | 2.0136 |
| New High Efficiency Tank Water Heater | New | Misc. | All | 0.0529 |
| New High Efficiency Tank Water Heater | New | Office | All | 0.0895 |
| New High Efficiency Tank Water Heater | New | Restaurant | All | 2.2332 |
| New High Efficiency Tank Water Heater | New | Retail | All | 0.0669 |
| New High Efficiency Tank Water Heater | New | Warehouse | All | 0.0354 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| New High Efficiency Tank Water Heater, EF=.10 | Turnover | Office | All | 0.0895 |
| New High Efficiency Tank Water Heater, EF=.11 | Turnover | Lodging | All | 2.0136 |
| New High Efficiency Tank Water Heater, EF=.12 | Turnover | Misc. | All | 0.0529 |
| New High Efficiency Tank Water Heater, EF=.13 | Turnover | Restaurant | All | 2.2332 |
| New High Efficiency Tank Water Heater, EF=.14 | Turnover | Retail | All | 0.0669 |
| New High Efficiency Tank Water Heater, EF=.15 | Turnover | Warehouse | All | 0.0354 |
| New High Efficiency Tank Water Heater, EF=.7 | Turnover | Education | All | 0.9549 |
| New High Efficiency Tank Water Heater, EF=.8 | Turnover | Grocery | All | 0.2353 |
| New High Efficiency Tank Water Heater, EF=.9 | Turnover | Healthcare | All | 0.8469 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Early Retirement | Education | All | 1.6134 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Early Retirement | Grocery | All | 0.4025 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Early Retirement | Healthcare | All | 1.4337 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Early Retirement | Lodging | All | 3.3417 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Early Retirement | Misc. | All | 0.0908 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Early Retirement | Office | All | 0.1535 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Early Retirement | Restaurant | All | 3.6924 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Early Retirement | Retail | All | 0.1148 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Early Retirement | Warehouse | All | 0.0607 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | New | Education | All | 1.6134 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | New | Grocery | All | 0.4025 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | New | Healthcare | All | 1.4337 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | New | Lodging | All | 3.3417 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | New | Misc. | All | 0.0908 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | New | Office | All | 0.1535 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | New | Restaurant | All | 3.6924 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | New | Retail | All | 0.1148 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | New | Warehouse | All | 0.0607 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Turnover | Education | All | 1.4224 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Turnover | Grocery | All | 0.3499 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Turnover | Healthcare | All | 1.2613 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Turnover | Lodging | All | 3.0074 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Turnover | Misc. | All | 0.0786 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Turnover | Office | All | 0.1331 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Turnover | Restaurant | All | 3.3372 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Turnover | Retail | All | 0.0995 |
| New High Efficiency Tankless Water Heater <200,000 Mbtuh, .82 EF | Turnover | Warehouse | All | 0.0526 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Boiler Pipe Insulation | Existing | Education | All | 3.3577 |
| Boiler Pipe Insulation | Existing | Grocery | All | 4.1418 |
| Boiler Pipe Insulation | Existing | Healthcare | All | 1.5912 |
| Boiler Pipe Insulation | Existing | Lodging | All | 2.2273 |
| Boiler Pipe Insulation | Existing | Misc. | All | 1.7974 |
| Boiler Pipe Insulation | Existing | Office | All | 1.6258 |
| Boiler Pipe Insulation | Existing | Restaurant | All | 1.8028 |
| Boiler Pipe Insulation | Existing | Retail | All | 2.8882 |
| Boiler Pipe Insulation | Existing | Warehouse | All | 2.4900 |
| Boiler Pipe Insulation | New | Education | All | 3.3577 |
| Boiler Pipe Insulation | New | Grocery | All | 4.1418 |
| Boiler Pipe Insulation | New | Healthcare | All | 1.5912 |
| Boiler Pipe Insulation | New | Lodging | All | 2.2273 |
| Boiler Pipe Insulation | New | Misc. | All | 1.7974 |
| Boiler Pipe Insulation | New | Office | All | 1.6258 |
| Boiler Pipe Insulation | New | Restaurant | All | 1.8028 |
| Boiler Pipe Insulation | New | Retail | All | 2.8882 |
| Boiler Pipe Insulation | New | Warehouse | All | 2.4900 |
| Boiler Power Burner | Existing | Education | All | 0.4955 |
| Boiler Power Burner | Existing | Grocery | All | 0.6283 |
| Boiler Power Burner | Existing | Healthcare | All | 0.2213 |
| Boiler Power Burner | Existing | Lodging | All | 0.3163 |
| Boiler Power Burner | Existing | Misc. | All | 0.2517 |
| Boiler Power Burner | Existing | Office | All | 0.2264 |
| Boiler Power Burner | Existing | Restaurant | All | 0.2525 |
| Boiler Power Burner | Existing | Retail | All | 0.4194 |
| Boiler Power Burner | Existing | Warehouse | All | 0.3568 |
| Boiler Power Burner | New | Education | All | 0.4955 |
| Boiler Power Burner | New | Grocery | All | 0.6283 |
| Boiler Power Burner | New | Healthcare | All | 0.2213 |
| Boiler Power Burner | New | Lodging | All | 0.3163 |
| Boiler Power Burner | New | Misc. | All | 0.2517 |
| Boiler Power Burner | New | Office | All | 0.2264 |
| Boiler Power Burner | New | Restaurant | All | 0.2525 |
| Boiler Power Burner | New | Retail | All | 0.4194 |
| Boiler Power Burner | New | Warehouse | All | 0.3568 |
| Boiler Repair/Maintenance | Existing | Education | All | 0.1381 |
| Boiler Repair/Maintenance | Existing | Grocery | All | 0.1818 |
| Boiler Repair/Maintenance | Existing | Healthcare | All | 0.0573 |
| Boiler Repair/Maintenance | Existing | Lodging | All | 0.0840 |
| Boiler Repair/Maintenance | Existing | Misc. | All | 0.0657 |
| Boiler Repair/Maintenance | Existing | Office | All | 0.0587 |
| Boiler Repair/Maintenance | Existing | Restaurant | All | 0.0660 |
| Boiler Repair/Maintenance | Existing | Retail | All | 0.1145 |
| Boiler Repair/Maintenance | Existing | Warehouse | All | 0.0958 |
| Boiler Repair/Maintenance | New | Education | All | 0.1381 |
| Boiler Repair/Maintenance | New | Grocery | All | 0.1818 |
| Boiler Repair/Maintenance | New | Healthcare | All | 0.0573 |
| Boiler Repair/Maintenance | New | Lodging | All | 0.0840 |
| Boiler Repair/Maintenance | New | Misc. | All | 0.0657 |
| Boiler Repair/Maintenance | New | Office | All | 0.0587 |
| Boiler Repair/Maintenance | New | Restaurant | All | 0.0660 |
| Boiler Repair/Maintenance | New | Retail | All | 0.1145 |
| Boiler Repair/Maintenance | New | Warehouse | All | 0.0958 |
| Boiler Stack Economizer | Existing | Education | All | 0.6153 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Boiler Stack Economizer | Existing | Grocery | All | 0.8224 |
| Boiler Stack Economizer | Existing | Healthcare | All | 0.2484 |
| Boiler Stack Economizer | Existing | Lodging | All | 0.3672 |
| Boiler Stack Economizer | Existing | Misc. | All | 0.2855 |
| Boiler Stack Economizer | Existing | Office | All | 0.2545 |
| Boiler Stack Economizer | Existing | Restaurant | All | 0.2865 |
| Boiler Stack Economizer | Existing | Retail | All | 0.5058 |
| Boiler Stack Economizer | Existing | Warehouse | All | 0.4203 |
| Boiler Stack Economizer | New | Education | All | 0.5468 |
| Boiler Stack Economizer | New | Grocery | All | 0.7324 |
| Boiler Stack Economizer | New | Healthcare | All | 0.2199 |
| Boiler Stack Economizer | New | Lodging | All | 0.3256 |
| Boiler Stack Economizer | New | Misc. | All | 0.2529 |
| Boiler Stack Economizer | New | Office | All | 0.2254 |
| Boiler Stack Economizer | New | Restaurant | All | 0.2538 |
| Boiler Stack Economizer | New | Retail | All | 0.4491 |
| Boiler Stack Economizer | New | Warehouse | All | 0.3728 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Education | All | 2.1762 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Grocery | All | 2.4755 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Healthcare | All | 1.2733 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Lodging | All | 1.6435 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Misc. | All | 0.8489 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Office | All | 1.9555 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Restaurant | All | 1.4032 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Retail | All | 1.9715 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Warehouse | All | 1.7800 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | New | Education | All | 2.0789 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | New | Grocery | All | 2.3824 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | New | Healthcare | All | 1.1899 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | New | Lodging | All | 1.5497 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | New | Misc. | All | 0.7853 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | New | Office | All | 1.8579 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | New | Restaurant | All | 1.3154 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | New | Retail | All | 1.8739 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | New | Warehouse | All | 1.6840 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Education | All | 0.5710 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Grocery | All | 0.7568 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Healthcare | All | 0.2341 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Lodging | All | 0.3444 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Misc. | All | 0.2686 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Office | All | 0.2398 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Restaurant | All | 0.2695 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Retail | All | 0.4716 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Warehouse | All | 0.3933 |
| Boiler vent damper - min. 1000 kBtu input | New | Education | All | 0.5710 |
| Boiler vent damper - min. 1000 kBtu input | New | Grocery | All | 0.7568 |
| Boiler vent damper - min. 1000 kBtu input | New | Healthcare | All | 0.2341 |
| Boiler vent damper - min. 1000 kBtu input | New | Lodging | All | 0.3444 |
| Boiler vent damper - min. 1000 kBtu input | New | Misc. | All | 0.2686 |
| Boiler vent damper - min. 1000 kBtu input | New | Office | All | 0.2398 |
| Boiler vent damper - min. 1000 kBtu input | New | Restaurant | All | 0.2695 |
| Boiler vent damper - min. 1000 kBtu input | New | Retail | All | 0.4716 |
| Boiler vent damper - min. 1000 kBtu input | New | Warehouse | All | 0.3933 |
| Boiler Waste Water Heat Exchanger | Existing | Education | All | 0.0867 |
| Boiler Waste Water Heat Exchanger | Existing | Grocery | All | 0.0592 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Boiler Waste Water Heat Exchanger | Existing | Healthcare | All | 0.0510 |
| Boiler Waste Water Heat Exchanger | Existing | Lodging | All | 0.0508 |
| Boiler Waste Water Heat Exchanger | Existing | Misc. | All | 0.0196 |
| Boiler Waste Water Heat Exchanger | Existing | Office | All | 0.0349 |
| Boiler Waste Water Heat Exchanger | Existing | Restaurant | All | 0.0197 |
| Boiler Waste Water Heat Exchanger | Existing | Retail | All | 0.0354 |
| Boiler Waste Water Heat Exchanger | Existing | Warehouse | All | 0.0292 |
| Boiler Waste Water Heat Exchanger | New | Education | All | 0.0867 |
| Boiler Waste Water Heat Exchanger | New | Grocery | All | 0.0592 |
| Boiler Waste Water Heat Exchanger | New | Healthcare | All | 0.0510 |
| Boiler Waste Water Heat Exchanger | New | Lodging | All | 0.0508 |
| Boiler Waste Water Heat Exchanger | New | Misc. | All | 0.0196 |
| Boiler Waste Water Heat Exchanger | New | Office | All | 0.0349 |
| Boiler Waste Water Heat Exchanger | New | Restaurant | All | 0.0197 |
| Boiler Waste Water Heat Exchanger | New | Retail | All | 0.0354 |
| Boiler Waste Water Heat Exchanger | New | Warehouse | All | 0.0292 |
| Demand Controlled Ventilation | Existing | Education | All | 4.2406 |
| Demand Controlled Ventilation | Existing | Grocery | All | 3.5314 |
| Demand Controlled Ventilation | Existing | Healthcare | All | 3.2543 |
| Demand Controlled Ventilation | Existing | Lodging | All | 3.2472 |
| Demand Controlled Ventilation | Existing | Misc. | All | 1.7130 |
| Demand Controlled Ventilation | Existing | Office | All | 2.5824 |
| Demand Controlled Ventilation | Existing | Restaurant | All | 1.7177 |
| Demand Controlled Ventilation | Existing | Retail | All | 2.6096 |
| Demand Controlled Ventilation | Existing | Warehouse | All | 2.2933 |
| Demand Controlled Ventilation | New | Education | All | 4.0141 |
| Demand Controlled Ventilation | New | Grocery | All | 3.3034 |
| Demand Controlled Ventilation | New | Healthcare | All | 3.0303 |
| Demand Controlled Ventilation | New | Lodging | All | 3.0234 |
| Demand Controlled Ventilation | New | Misc. | All | 1.5556 |
| Demand Controlled Ventilation | New | Office | All | 2.3783 |
| Demand Controlled Ventilation | New | Restaurant | All | 1.5600 |
| Demand Controlled Ventilation | New | Retail | All | 2.4044 |
| Demand Controlled Ventilation | New | Warehouse | All | 2.1021 |
| Drainwater Heat Recovery | Existing | Education | All | 4.1589 |
| Drainwater Heat Recovery | Existing | Grocery | All | 1.0931 |
| Drainwater Heat Recovery | Existing | Healthcare | All | 3.2094 |
| Drainwater Heat Recovery | Existing | Lodging | All | 6.5427 |
| Drainwater Heat Recovery | Existing | Misc. | All | 0.2782 |
| Drainwater Heat Recovery | Existing | Office | All | 0.4303 |
| Drainwater Heat Recovery | Existing | Restaurant | All | 5.7961 |
| Drainwater Heat Recovery | Existing | Retail | All | 0.3503 |
| Drainwater Heat Recovery | Existing | Warehouse | All | 0.5268 |
| Drainwater Heat Recovery | New | Education | All | 4.4612 |
| Drainwater Heat Recovery | New | Grocery | All | 1.2085 |
| Drainwater Heat Recovery | New | Healthcare | All | 3.4747 |
| Drainwater Heat Recovery | New | Lodging | All | 6.8597 |
| Drainwater Heat Recovery | New | Misc. | All | 0.3101 |
| Drainwater Heat Recovery | New | Office | All | 0.4789 |
| Drainwater Heat Recovery | New | Restaurant | All | 6.1202 |
| Drainwater Heat Recovery | New | Retail | All | 0.3902 |
| Drainwater Heat Recovery | New | Warehouse | All | 0.5857 |
| Duct Sealing and Insulation | Existing | Education | All | 0.6780 |
| Duct Sealing and Insulation | Existing | Grocery | All | 0.8647 |
| Duct Sealing and Insulation | Existing | Healthcare | All | 0.5784 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Duct Sealing and Insulation | Existing | Lodging | All | 0.4678 |
| Duct Sealing and Insulation | Existing | Misc. | All | 0.6208 |
| Duct Sealing and Insulation | Existing | Office | All | 0.5099 |
| Duct Sealing and Insulation | Existing | Restaurant | All | 1.0718 |
| Duct Sealing and Insulation | Existing | Retail | All | 0.6278 |
| Duct Sealing and Insulation | Existing | Warehouse | All | 0.3608 |
| Duct Sealing and Insulation | New | Education | All | 0.6780 |
| Duct Sealing and Insulation | New | Grocery | All | 0.8647 |
| Duct Sealing and Insulation | New | Healthcare | All | 0.5784 |
| Duct Sealing and Insulation | New | Lodging | All | 0.4678 |
| Duct Sealing and Insulation | New | Misc. | All | 0.6208 |
| Duct Sealing and Insulation | New | Office | All | 0.5099 |
| Duct Sealing and Insulation | New | Restaurant | All | 1.0718 |
| Duct Sealing and Insulation | New | Retail | All | 0.6278 |
| Duct Sealing and Insulation | New | Warehouse | All | 0.3608 |
| Faucet Aerator 2.0 gpm | Existing | Education | All | 4.9455 |
| Faucet Aerator 2.0 gpm | Existing | Grocery | All | 4.8493 |
| Faucet Aerator 2.0 gpm | Existing | Healthcare | All | 4.8764 |
| Faucet Aerator 2.0 gpm | Existing | Lodging | All | 5.4110 |
| Faucet Aerator 2.0 gpm | Existing | Misc. | All | 3.0291 |
| Faucet Aerator 2.0 gpm | Existing | Office | All | 2.6048 |
| Faucet Aerator 2.0 gpm | Existing | Restaurant | All | 5.6136 |
| Faucet Aerator 2.0 gpm | Existing | Retail | All | 4.1164 |
| Faucet Aerator 2.0 gpm | Existing | Warehouse | All | 3.8018 |
| Faucet Aerator 2.0 gpm | New | Education | All | 4.4054 |
| Faucet Aerator 2.0 gpm | New | Grocery | All | 4.2641 |
| Faucet Aerator 2.0 gpm | New | Healthcare | All | 4.3036 |
| Faucet Aerator 2.0 gpm | New | Lodging | All | 5.1447 |
| Faucet Aerator 2.0 gpm | New | Misc. | All | 2.1420 |
| Faucet Aerator 2.0 gpm | New | Office | All | 1.7615 |
| Faucet Aerator 2.0 gpm | New | Restaurant | All | 5.4984 |
| Faucet Aerator 2.0 gpm | New | Retail | All | 3.2964 |
| Faucet Aerator 2.0 gpm | New | Warehouse | All | 2.9321 |
| Floor Insulation, R-30 insulation added to floor | Existing | Education | All | 0.1773 |
| Floor Insulation, R-30 insulation added to floor | Existing | Grocery | All | 0.1790 |
| Floor Insulation, R-30 insulation added to floor | Existing | Healthcare | All | 0.1501 |
| Floor Insulation, R-30 insulation added to floor | Existing | Lodging | All | 0.1138 |
| Floor Insulation, R-30 insulation added to floor | Existing | Misc. | All | 0.1527 |
| Floor Insulation, R-30 insulation added to floor | Existing | Office | All | 0.1316 |
| Floor Insulation, R-30 insulation added to floor | Existing | Restaurant | All | 0.2573 |
| Floor Insulation, R-30 insulation added to floor | Existing | Retail | All | 0.1275 |
| Floor Insulation, R-30 insulation added to floor | Existing | Warehouse | All | 0.0565 |
| Floor Insulation, R-30 insulation added to floor | New | Education | All | 0.1773 |
| Floor Insulation, R-30 insulation added to floor | New | Grocery | All | 0.1790 |
| Floor Insulation, R-30 insulation added to floor | New | Healthcare | All | 0.1501 |
| Floor Insulation, R-30 insulation added to floor | New | Lodging | All | 0.1138 |
| Floor Insulation, R-30 insulation added to floor | New | Misc. | All | 0.1527 |
| Floor Insulation, R-30 insulation added to floor | New | Office | All | 0.1316 |
| Floor Insulation, R-30 insulation added to floor | New | Restaurant | All | 0.2573 |
| Floor Insulation, R-30 insulation added to floor | New | Retail | All | 0.1275 |
| Floor Insulation, R-30 insulation added to floor | New | Warehouse | All | 0.0565 |
| Heat Recovery | Existing | Education | All | 0.3047 |
| Heat Recovery | Existing | Grocery | All | 0.3917 |
| Heat Recovery | Existing | Healthcare | All | 0.2588 |
| Heat Recovery | Existing | Lodging | All | 0.2084 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Heat Recovery | Existing | Misc. | All | 0.2783 |
| Heat Recovery | Existing | Office | All | 0.2275 |
| Heat Recovery | Existing | Restaurant | All | 0.4898 |
| Heat Recovery | Existing | Retail | All | 0.2815 |
| Heat Recovery | Existing | Warehouse | All | 0.1600 |
| Heat Recovery | New | Education | All | 0.3047 |
| Heat Recovery | New | Grocery | All | 0.3917 |
| Heat Recovery | New | Healthcare | All | 0.2588 |
| Heat Recovery | New | Lodging | All | 0.2084 |
| Heat Recovery | New | Misc. | All | 0.2783 |
| Heat Recovery | New | Office | All | 0.2275 |
| Heat Recovery | New | Restaurant | All | 0.4898 |
| Heat Recovery | New | Retail | All | 0.2815 |
| Heat Recovery | New | Warehouse | All | 0.1600 |
| High Efficiency Commercial Gas Clothes Washer | Existing | Education | All | 2.6043 |
| High Efficiency Commercial Gas Clothes Washer | Existing | Grocery | All | 0.6103 |
| High Efficiency Commercial Gas Clothes Washer | Existing | Healthcare | All | 2.0322 |
| High Efficiency Commercial Gas Clothes Washer | Existing | Lodging | All | 3.3908 |
| High Efficiency Commercial Gas Clothes Washer | Existing | Misc. | All | 0.0717 |
| High Efficiency Commercial Gas Clothes Washer | Existing | Office | All | 0.2559 |
| High Efficiency Commercial Gas Clothes Washer | Existing | Restaurant | All | 1.6872 |
| High Efficiency Commercial Gas Clothes Washer | Existing | Retail | All | 0.1591 |
| High Efficiency Commercial Gas Clothes Washer | Existing | Warehouse | All | 0.1242 |
| High Efficiency Commercial Gas Clothes Washer | New | Education | All | 4.1620 |
| High Efficiency Commercial Gas Clothes Washer | New | Grocery | All | 2.4508 |
| High Efficiency Commercial Gas Clothes Washer | New | Healthcare | All | 3.9258 |
| High Efficiency Commercial Gas Clothes Washer | New | Lodging | All | 4.3790 |
| High Efficiency Commercial Gas Clothes Washer | New | Misc. | All | 0.4870 |
| High Efficiency Commercial Gas Clothes Washer | New | Office | All | 1.4055 |
| High Efficiency Commercial Gas Clothes Washer | New | Restaurant | All | 3.7288 |
| High Efficiency Commercial Gas Clothes Washer | New | Retail | All | 0.9716 |
| High Efficiency Commercial Gas Clothes Washer | New | Warehouse | All | 0.7903 |
| Hot Water Pipe Insulation | Existing | Education | All | 4.9236 |
| Hot Water Pipe Insulation | Existing | Grocery | All | 5.2665 |
| Hot Water Pipe Insulation | Existing | Healthcare | All | 4.6806 |
| Hot Water Pipe Insulation | Existing | Lodging | All | 4.3363 |
| Hot Water Pipe Insulation | Existing | Misc. | All | 4.7907 |
| Hot Water Pipe Insulation | Existing | Office | All | 4.4787 |
| Hot Water Pipe Insulation | Existing | Restaurant | All | 5.5373 |
| Hot Water Pipe Insulation | Existing | Retail | All | 4.8077 |
| Hot Water Pipe Insulation | Existing | Warehouse | All | 3.8922 |
| Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Sta | New | Education | All | 0.0000 |
| Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Sta | New | Grocery | All | 0.0000 |
| Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Sta | New | Healthcare | All | 0.0000 |
| Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Sta | New | Lodging | All | 0.0000 |
| Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Sta | New | Misc. | All | 0.0000 |
| Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Sta | New | Office | All | 0.0000 |
| Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Sta | New | Restaurant | All | 0.0000 |
| Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Sta | New | Retail | All | 0.0000 |
| Hot Water Pipe Insulation 1.0" of Insulation, assuming R-4 (WA Sta | New | Warehouse | All | 0.0000 |
| Hot Water Temperature Reset | Existing | Education | All | 0.9897 |
| Hot Water Temperature Reset | Existing | Grocery | All | 1.2534 |
| Hot Water Temperature Reset | Existing | Healthcare | All | 0.8475 |
| Hot Water Temperature Reset | Existing | Lodging | All | 0.6884 |
| Hot Water Temperature Reset | Existing | Misc. | All | 0.9082 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Hot Water Temperature Reset | Existing | Office | All | 0.7492 |
| Hot Water Temperature Reset | Existing | Restaurant | All | 1.4021 |
| Hot Water Temperature Reset | Existing | Retail | All | 0.9182 |
| Hot Water Temperature Reset | Existing | Warehouse | All | 0.5332 |
| Hot Water Temperature Reset | New | Education | All | 0.9897 |
| Hot Water Temperature Reset | New | Grocery | All | 1.2534 |
| Hot Water Temperature Reset | New | Healthcare | All | 0.8475 |
| Hot Water Temperature Reset | New | Lodging | All | 0.6884 |
| Hot Water Temperature Reset | New | Misc. | All | 0.9082 |
| Hot Water Temperature Reset | New | Office | All | 0.7492 |
| Hot Water Temperature Reset | New | Restaurant | All | 1.4021 |
| Hot Water Temperature Reset | New | Retail | All | 0.9182 |
| Hot Water Temperature Reset | New | Warehouse | All | 0.5332 |
| Hot Water Temperature Setback | Existing | Education | All | 3.2278 |
| Hot Water Temperature Setback | Existing | Grocery | All | 2.5059 |
| Hot Water Temperature Setback | Existing | Healthcare | All | 3.1496 |
| Hot Water Temperature Setback | Existing | Lodging | All | 3.2952 |
| Hot Water Temperature Setback | Existing | Misc. | All | 0.7847 |
| Hot Water Temperature Setback | Existing | Office | All | 1.7842 |
| Hot Water Temperature Setback | Existing | Restaurant | All | 3.0802 |
| Hot Water Temperature Setback | Existing | Retail | All | 1.3708 |
| Hot Water Temperature Setback | Existing | Warehouse | All | 1.1694 |
| Hot Water Temperature Setback | New | Education | All | 3.2278 |
| Hot Water Temperature Setback | New | Grocery | All | 2.5059 |
| Hot Water Temperature Setback | New | Healthcare | All | 3.1496 |
| Hot Water Temperature Setback | New | Lodging | All | 3.2952 |
| Hot Water Temperature Setback | New | Misc. | All | 0.7847 |
| Hot Water Temperature Setback | New | Office | All | 1.7842 |
| Hot Water Temperature Setback | New | Restaurant | All | 3.0802 |
| Hot Water Temperature Setback | New | Retail | All | 1.3708 |
| Hot Water Temperature Setback | New | Warehouse | All | 1.1694 |
| HVAC Controls | Existing | Education | All | 0.7570 |
| HVAC Controls | Existing | Grocery | All | 0.5344 |
| HVAC Controls | Existing | Healthcare | All | 0.4648 |
| HVAC Controls | Existing | Lodging | All | 0.4632 |
| HVAC Controls | Existing | Misc. | All | 0.1865 |
| HVAC Controls | Existing | Office | All | 0.3247 |
| HVAC Controls | Existing | Restaurant | All | 0.1871 |
| HVAC Controls | Existing | Retail | All | 0.3297 |
| HVAC Controls | Existing | Warehouse | All | 0.2742 |
| HVAC Controls | New | Education | All | 0.7570 |
| HVAC Controls | New | Grocery | All | 0.5344 |
| HVAC Controls | New | Healthcare | All | 0.4648 |
| HVAC Controls | New | Lodging | All | 0.4632 |
| HVAC Controls | New | Misc. | All | 0.1865 |
| HVAC Controls | New | Office | All | 0.3247 |
| HVAC Controls | New | Restaurant | All | 0.1871 |
| HVAC Controls | New | Retail | All | 0.3297 |
| HVAC Controls | New | Warehouse | All | 0.2742 |
| HVAC System Commissioning | Existing | Education | All | 0.2399 |
| HVAC System Commissioning | Existing | Grocery | All | 0.1672 |
| HVAC System Commissioning | Existing | Healthcare | All | 0.1449 |
| HVAC System Commissioning | Existing | Lodging | All | 0.1444 |
| HVAC System Commissioning | Existing | Misc. | All | 0.0572 |
| HVAC System Commissioning | Existing | Office | All | 0.1004 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| HVAC System Commissioning | Existing | Restaurant | All | 0.0574 |
| HVAC System Commissioning | Existing | Retail | All | 0.1020 |
| HVAC System Commissioning | Existing | Warehouse | All | 0.0845 |
| HVAC System Commissioning | New | Education | All | 0.2399 |
| HVAC System Commissioning | New | Grocery | All | 0.1672 |
| HVAC System Commissioning | New | Healthcare | All | 0.1449 |
| HVAC System Commissioning | New | Lodging | All | 0.1444 |
| HVAC System Commissioning | New | Misc. | All | 0.0572 |
| HVAC System Commissioning | New | Office | All | 0.1004 |
| HVAC System Commissioning | New | Restaurant | All | 0.0574 |
| HVAC System Commissioning | New | Retail | All | 0.1020 |
| HVAC System Commissioning | New | Warehouse | All | 0.0845 |
| Low Flow Showerhead, 2.0 gpm | Existing | Education | All | 4.7141 |
| Low Flow Showerhead, 2.0 gpm | Existing | Grocery | All | 4.6315 |
| Low Flow Showerhead, 2.0 gpm | Existing | Healthcare | All | 3.7124 |
| Low Flow Showerhead, 2.0 gpm | Existing | Lodging | All | 4.2341 |
| Low Flow Showerhead, 2.0 gpm | Existing | Misc. | All | 1.3999 |
| Low Flow Showerhead, 2.0 gpm | Existing | Office | All | 3.2485 |
| Low Flow Showerhead, 2.0 gpm | Existing | Restaurant | All | 5.7621 |
| Low Flow Showerhead, 2.0 gpm | Existing | Retail | All | 2.4748 |
| Low Flow Showerhead, 2.0 gpm | Existing | Warehouse | All | 2.1026 |
| Low Flow Showerhead, 2.0 gpm | New | Education | All | 5.3335 |
| Low Flow Showerhead, 2.0 gpm | New | Grocery | All | 5.2759 |
| Low Flow Showerhead, 2.0 gpm | New | Healthcare | All | 4.5768 |
| Low Flow Showerhead, 2.0 gpm | New | Lodging | All | 4.9871 |
| Low Flow Showerhead, 2.0 gpm | New | Misc. | All | 2.1762 |
| Low Flow Showerhead, 2.0 gpm | New | Office | All | 4.1783 |
| Low Flow Showerhead, 2.0 gpm | New | Restaurant | All | 6.0026 |
| Low Flow Showerhead, 2.0 gpm | New | Retail | All | 3.4310 |
| Low Flow Showerhead, 2.0 gpm | New | Warehouse | All | 3.0284 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | Existing | Education | All | 3.1507 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | Existing | Grocery | All | 2.1552 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | Existing | Healthcare | All | 3.0301 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | Existing | Lodging | All | 3.2575 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | Existing | Misc. | All | 0.9092 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | Existing | Office | All | 1.9471 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | Existing | Restaurant | All | 2.9258 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | Existing | Retail | All | 1.5328 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | Existing | Warehouse | All | 1.3235 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | New | Education | All | 3.2513 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | New | Grocery | All | 2.6323 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | New | Healthcare | All | 3.1867 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | New | Lodging | All | 3.3065 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | New | Misc. | All | 1.4417 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | New | Office | All | 2.4730 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | New | Restaurant | All | 3.1289 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | New | Retail | All | 2.1149 |
| Low-flow Pre-Rinse Spray Valve 1.06 gpm | New | Warehouse | All | 1.9093 |
| Low-temp Door-Type Energy Star Dishwasher | Existing | Education | All | 1.7579 |
| Low-temp Door-Type Energy Star Dishwasher | Existing | Grocery | All | 0.2479 |
| Low-temp Door-Type Energy Star Dishwasher | Existing | Healthcare | All | 1.1529 |
| Low-temp Door-Type Energy Star Dishwasher | Existing | Lodging | All | 3.0966 |
| Low-temp Door-Type Energy Star Dishwasher | Existing | Misc. | All | 0.0525 |
| Low-temp Door-Type Energy Star Dishwasher | Existing | Office | All | 0.1921 |
| Low-temp Door-Type Energy Star Dishwasher | Existing | Restaurant | All | 0.8732 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Low-temp Door-Type Energy Star Dishwasher | Existing | Retail | All | 0.1178 |
| Low-temp Door-Type Energy Star Dishwasher | Existing | Warehouse | All | 0.0915 |
| Low-temp Door-Type Energy Star Dishwasher | New | Education | All | 3.8163 |
| Low-temp Door-Type Energy Star Dishwasher | New | Grocery | All | 0.7113 |
| Low-temp Door-Type Energy Star Dishwasher | New | Healthcare | All | 2.7731 |
| Low-temp Door-Type Energy Star Dishwasher | New | Lodging | All | 5.5299 |
| Low-temp Door-Type Energy Star Dishwasher | New | Misc. | All | 0.1570 |
| Low-temp Door-Type Energy Star Dishwasher | New | Office | All | 0.5578 |
| Low-temp Door-Type Energy Star Dishwasher | New | Restaurant | All | 2.2106 |
| Low-temp Door-Type Energy Star Dishwasher | New | Retail | All | 0.3477 |
| Low-temp Door-Type Energy Star Dishwasher | New | Warehouse | All | 0.2717 |
| Motion Faucet Controls | Existing | Education | All | 0.4414 |
| Motion Faucet Controls | Existing | Grocery | All | 0.3931 |
| Motion Faucet Controls | Existing | Healthcare | All | 0.7240 |
| Motion Faucet Controls | Existing | Lodging | All | 2.3839 |
| Motion Faucet Controls | Existing | Misc. | All | 0.0897 |
| Motion Faucet Controls | Existing | Office | All | 0.0672 |
| Motion Faucet Controls | Existing | Restaurant | All | 1.6830 |
| Motion Faucet Controls | Existing | Retail | All | 0.1963 |
| Motion Faucet Controls | Existing | Warehouse | All | 0.1541 |
| Motion Faucet Controls, 12 s flow duration | New | Education | All | 2.3895 |
| Motion Faucet Controls, 12 s flow duration | New | Grocery | All | 2.2958 |
| Motion Faucet Controls, 12 s flow duration | New | Healthcare | All | 2.7446 |
| Motion Faucet Controls, 12 s flow duration | New | Lodging | All | 3.2739 |
| Motion Faucet Controls, 12 s flow duration | New | Misc. | All | 1.0388 |
| Motion Faucet Controls, 12 s flow duration | New | Office | All | 0.8394 |
| Motion Faucet Controls, 12 s flow duration | New | Restaurant | All | 3.1631 |
| Motion Faucet Controls, 12 s flow duration | New | Retail | All | 1.6899 |
| Motion Faucet Controls, 12 s flow duration | New | Warehouse | All | 1.4766 |
| Multi-tank Conveyor Dishwasher - Energy Star | Existing | Education | All | 1.1082 |
| Multi-tank Conveyor Dishwasher - Energy Star | Existing | Grocery | All | 0.1413 |
| Multi-tank Conveyor Dishwasher - Energy Star | Existing | Healthcare | All | 0.6971 |
| Multi-tank Conveyor Dishwasher - Energy Star | Existing | Lodging | All | 2.1551 |
| Multi-tank Conveyor Dishwasher - Energy Star | Existing | Misc. | All | 0.0295 |
| Multi-tank Conveyor Dishwasher - Energy Star | Existing | Office | All | 0.1091 |
| Multi-tank Conveyor Dishwasher - Energy Star | Existing | Restaurant | All | 0.5182 |
| Multi-tank Conveyor Dishwasher - Energy Star | Existing | Retail | All | 0.0666 |
| Multi-tank Conveyor Dishwasher - Energy Star | Existing | Warehouse | All | 0.0517 |
| Multi-tank Conveyor Dishwasher - Energy Star | New | Education | All | 7.4185 |
| Multi-tank Conveyor Dishwasher - Energy Star | New | Grocery | All | 1.9795 |
| Multi-tank Conveyor Dishwasher - Energy Star | New | Healthcare | All | 5.9981 |
| Multi-tank Conveyor Dishwasher - Energy Star | New | Lodging | All | 9.2162 |
| Multi-tank Conveyor Dishwasher - Energy Star | New | Misc. | All | 0.4735 |
| Multi-tank Conveyor Dishwasher - Energy Star | New | Office | All | 1.5860 |
| Multi-tank Conveyor Dishwasher - Energy Star | New | Restaurant | All | 5.0909 |
| Multi-tank Conveyor Dishwasher - Energy Star | New | Retail | All | 1.0191 |
| Multi-tank Conveyor Dishwasher - Energy Star | New | Warehouse | All | 0.8052 |
| Ozone injection laundry systems | Existing | Education | All | 0.3074 |
| Ozone injection laundry systems | Existing | Grocery | All | 0.0375 |
| Ozone injection laundry systems | Existing | Healthcare | All | 0.1898 |
| Ozone injection laundry systems | Existing | Lodging | All | 0.6283 |
| Ozone injection laundry systems | Existing | Misc. | All | 0.0039 |
| Ozone injection laundry systems | Existing | Office | All | 0.0145 |
| Ozone injection laundry systems | Existing | Restaurant | All | 0.1399 |
| Ozone injection laundry systems | Existing | Retail | All | 0.0088 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Ozone injection laundry systems | Existing | Warehouse | All | 0.0068 |
| Ozone injection laundry systems | New | Education | All | 0.3074 |
| Ozone injection laundry systems | New | Grocery | All | 0.0375 |
| Ozone injection laundry systems | New | Healthcare | All | 0.1898 |
| Ozone injection laundry systems | New | Lodging | All | 0.6283 |
| Ozone injection laundry systems | New | Misc. | All | 0.0039 |
| Ozone injection laundry systems | New | Office | All | 0.0145 |
| Ozone injection laundry systems | New | Restaurant | All | 0.1399 |
| Ozone injection laundry systems | New | Retail | All | 0.0088 |
| Ozone injection laundry systems | New | Warehouse | All | 0.0068 |
| Pool Cover | Existing | Education | All | 1.1190 |
| Pool Cover | Existing | Grocery | All | 0.1140 |
| Pool Cover | Existing | Healthcare | All | 0.3196 |
| Pool Cover | Existing | Lodging | All | 0.3565 |
| Pool Cover | Existing | Misc. | All | 0.0776 |
| Pool Cover | Existing | Office | All | 0.1344 |
| Pool Cover | Existing | Restaurant | All | 0.0229 |
| Pool Cover | Existing | Retail | All | 0.0348 |
| Pool Cover | Existing | Warehouse | All | 0.0748 |
| Pool Cover | New | Education | All | 1.1190 |
| Pool Cover | New | Grocery | All | 0.1140 |
| Pool Cover | New | Healthcare | All | 0.3196 |
| Pool Cover | New | Lodging | All | 0.3565 |
| Pool Cover | New | Misc. | All | 0.0776 |
| Pool Cover | New | Office | All | 0.1344 |
| Pool Cover | New | Restaurant | All | 0.0229 |
| Pool Cover | New | Retail | All | 0.0348 |
| Pool Cover | New | Warehouse | All | 0.0748 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | Existing | Education | All | 4.6010 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | Existing | Grocery | All | 0.4738 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | Existing | Healthcare | All | 1.3254 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | Existing | Lodging | All | 1.4778 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | Existing | Misc. | All | 0.3228 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | Existing | Office | All | 0.5582 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | Existing | Restaurant | All | 0.0952 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | Existing | Retail | All | 0.1446 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | Existing | Warehouse | All | 0.3110 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | New | Education | All | 4.6010 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | New | Grocery | All | 0.4738 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | New | Healthcare | All | 1.3254 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | New | Lodging | All | 1.4778 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | New | Misc. | All | 0.3228 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | New | Office | All | 0.5582 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | New | Restaurant | All | 0.0952 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | New | Retail | All | 0.1446 |
| Pool Spa Solar Heat, 79 sf collector area, pool is storage volume | New | Warehouse | All | 0.3110 |
| Recirculation Controls | Existing | Education | All | 2.8919 |
| Recirculation Controls | Existing | Grocery | All | 0.6476 |
| Recirculation Controls | Existing | Healthcare | All | 2.0992 |
| Recirculation Controls | Existing | Lodging | All | 4.1957 |
| Recirculation Controls | Existing | Misc. | All | 0.1505 |
| Recirculation Controls | Existing | Office | All | 0.2530 |
| Recirculation Controls | Existing | Restaurant | All | 3.4759 |
| Recirculation Controls | Existing | Retail | All | 0.1899 |
| Recirculation Controls | Existing | Warehouse | All | 0.2625 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Recirculation Controls | New | Education | All | 5.6808 |
| Recirculation Controls | New | Grocery | All | 1.9656 |
| Recirculation Controls | New | Healthcare | All | 4.7108 |
| Recirculation Controls | New | Lodging | All | 6.8401 |
| Recirculation Controls | New | Misc. | All | 0.5197 |
| Recirculation Controls | New | Office | All | 0.8495 |
| Recirculation Controls | New | Restaurant | All | 6.2540 |
| Recirculation Controls | New | Retail | All | 0.6486 |
| Recirculation Controls | New | Warehouse | All | 0.8791 |
| Refrigeration system superheat recovery DHW | Existing | Education | All | 1.4336 |
| Refrigeration system superheat recovery DHW | Existing | Grocery | All | 0.1947 |
| Refrigeration system superheat recovery DHW | Existing | Healthcare | All | 0.9260 |
| Refrigeration system superheat recovery DHW | Existing | Lodging | All | 2.6142 |
| Refrigeration system superheat recovery DHW | Existing | Misc. | All | 0.0206 |
| Refrigeration system superheat recovery DHW | Existing | Office | All | 0.0760 |
| Refrigeration system superheat recovery DHW | Existing | Restaurant | All | 0.6965 |
| Refrigeration system superheat recovery DHW | Existing | Retail | All | 0.0464 |
| Refrigeration system superheat recovery DHW | Existing | Warehouse | All | 0.0360 |
| Refrigeration system superheat recovery DHW | New | Education | All | 1.4336 |
| Refrigeration system superheat recovery DHW | New | Grocery | All | 0.1947 |
| Refrigeration system superheat recovery DHW | New | Healthcare | All | 0.9260 |
| Refrigeration system superheat recovery DHW | New | Lodging | All | 2.6142 |
| Refrigeration system superheat recovery DHW | New | Misc. | All | 0.0206 |
| Refrigeration system superheat recovery DHW | New | Office | All | 0.0760 |
| Refrigeration system superheat recovery DHW | New | Restaurant | All | 0.6965 |
| Refrigeration system superheat recovery DHW | New | Retail | All | 0.0464 |
| Refrigeration system superheat recovery DHW | New | Warehouse | All | 0.0360 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Education | All | 3.1425 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Grocery | All | 3.1671 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Healthcare | All | 2.7449 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Lodging | All | 2.1725 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Misc. | All | 2.7848 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Office | All | 2.4606 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Restaurant | All | 4.1835 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Retail | All | 2.3950 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Warehouse | All | 1.1588 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | New | Education | All | 3.1425 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | New | Grocery | All | 3.1671 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | New | Healthcare | All | 2.7449 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | New | Lodging | All | 2.1725 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | New | Misc. | All | 2.7848 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | New | Office | All | 2.4606 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | New | Restaurant | All | 4.1835 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | New | Retail | All | 2.3950 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | New | Warehouse | All | 1.1588 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Education | All | 2.2528 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Grocery | All | 2.2718 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Healthcare | All | 1.9492 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Lodging | All | 1.5221 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Misc. | All | 1.9794 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Office | All | 1.7356 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Restaurant | All | 3.0759 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Retail | All | 1.6868 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Warehouse | All | 0.7930 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | New | Education | All | 0.0475 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | New | Grocery | All | 0.0480 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | New | Healthcare | All | 0.0402 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | New | Lodging | All | 0.0304 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | New | Misc. | All | 0.0409 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | New | Office | All | 0.0352 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | New | Restaurant | All | 0.0693 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | New | Retail | All | 0.0341 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | New | Warehouse | All | 0.0150 |
| SolarWall 26ga | Existing | Education | All | 0.7905 |
| SolarWall 26ga | Existing | Grocery | All | 0.7457 |
| SolarWall 26ga | Existing | Healthcare | All | 0.5646 |
| SolarWall 26ga | Existing | Lodging | All | 0.5061 |
| SolarWall 26ga | Existing | Misc. | All | 0.3681 |
| SolarWall 26ga | Existing | Office | All | 0.4404 |
| SolarWall 26ga | Existing | Restaurant | All | 0.4913 |
| SolarWall 26ga | Existing | Retail | All | 0.4937 |
| SolarWall 26ga | Existing | Warehouse | All | 0.3390 |
| SolarWall 26ga | New | Education | All | 0.7905 |
| SolarWall 26ga | New | Grocery | All | 0.7457 |
| SolarWall 26ga | New | Healthcare | All | 0.5646 |
| SolarWall 26ga | New | Lodging | All | 0.5061 |
| SolarWall 26ga | New | Misc. | All | 0.3681 |
| SolarWall 26ga | New | Office | All | 0.4404 |
| SolarWall 26ga | New | Restaurant | All | 0.4913 |
| SolarWall 26ga | New | Retail | All | 0.4937 |
| SolarWall 26ga | New | Warehouse | All | 0.3390 |
| Steam System Efficiency Improvements | Existing | Education | All | 1.0425 |
| Steam System Efficiency Improvements | Existing | Grocery | All | 0.7372 |
| Steam System Efficiency Improvements | Existing | Healthcare | All | 0.6416 |
| Steam System Efficiency Improvements | Existing | Lodging | All | 0.6393 |
| Steam System Efficiency Improvements | Existing | Misc. | All | 0.2579 |
| Steam System Efficiency Improvements | Existing | Office | All | 0.4486 |
| Steam System Efficiency Improvements | Existing | Restaurant | All | 0.2588 |
| Steam System Efficiency Improvements | Existing | Retail | All | 0.4555 |
| Steam System Efficiency Improvements | Existing | Warehouse | All | 0.3790 |
| Steam System Efficiency Improvements | New | Education | All | 1.0425 |
| Steam System Efficiency Improvements | New | Grocery | All | 0.7372 |
| Steam System Efficiency Improvements | New | Healthcare | All | 0.6416 |
| Steam System Efficiency Improvements | New | Lodging | All | 0.6393 |
| Steam System Efficiency Improvements | New | Misc. | All | 0.2579 |
| Steam System Efficiency Improvements | New | Office | All | 0.4486 |
| Steam System Efficiency Improvements | New | Restaurant | All | 0.2588 |
| Steam System Efficiency Improvements | New | Retail | All | 0.4555 |
| Steam System Efficiency Improvements | New | Warehouse | All | 0.3790 |
| Variable Volume Air System | Existing | Education | All | 1.0017 |
| Variable Volume Air System | Existing | Grocery | All | 1.2590 |
| Variable Volume Air System | Existing | Healthcare | All | 0.8612 |
| Variable Volume Air System | Existing | Lodging | All | 0.7028 |
| Variable Volume Air System | Existing | Misc. | All | 0.9214 |
| Variable Volume Air System | Existing | Office | All | 0.7635 |
| Variable Volume Air System | Existing | Restaurant | All | 1.5357 |
| Variable Volume Air System | Existing | Retail | All | 0.9312 |
| Variable Volume Air System | Existing | Warehouse | All | 0.5468 |
| Variable Volume Air System | New | Education | All | 1.0017 |
| Variable Volume Air System | New | Grocery | All | 1.2590 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Variable Volume Air System | New | Healthcare | All | 0.8612 |
| Variable Volume Air System | New | Lodging | All | 0.7028 |
| Variable Volume Air System | New | Misc. | All | 0.9214 |
| Variable Volume Air System | New | Office | All | 0.7635 |
| Variable Volume Air System | New | Restaurant | All | 1.5357 |
| Variable Volume Air System | New | Retail | All | 0.9312 |
| Variable Volume Air System | New | Warehouse | All | 0.5468 |
| Ventilation Hood / Makeup Air | Existing | Education | All | 0.3543 |
| Ventilation Hood / Makeup Air | Existing | Grocery | All | 0.4460 |
| Ventilation Hood / Makeup Air | Existing | Healthcare | All | 0.3044 |
| Ventilation Hood / Makeup Air | Existing | Lodging | All | 0.2482 |
| Ventilation Hood / Makeup Air | Existing | Misc. | All | 0.3258 |
| Ventilation Hood / Makeup Air | Existing | Office | All | 0.2697 |
| Ventilation Hood / Makeup Air | Existing | Restaurant | All | 0.5450 |
| Ventilation Hood / Makeup Air | Existing | Retail | All | 0.3293 |
| Ventilation Hood / Makeup Air | Existing | Warehouse | All | 0.1929 |
| Ventilation Hood / Makeup Air | New | Education | All | 0.3543 |
| Ventilation Hood / Makeup Air | New | Grocery | All | 0.4460 |
| Ventilation Hood / Makeup Air | New | Healthcare | All | 0.3044 |
| Ventilation Hood / Makeup Air | New | Lodging | All | 0.2482 |
| Ventilation Hood / Makeup Air | New | Misc. | All | 0.3258 |
| Ventilation Hood / Makeup Air | New | Office | All | 0.2697 |
| Ventilation Hood / Makeup Air | New | Restaurant | All | 0.5450 |
| Ventilation Hood / Makeup Air | New | Retail | All | 0.3293 |
| Ventilation Hood / Makeup Air | New | Warehouse | All | 0.1929 |
| Wall insulation - Tier 2: Min R-19 | Existing | Education | All | 3.6928 |
| Wall insulation - Tier 2: Min R-19 | Existing | Grocery | All | 3.5248 |
| Wall insulation - Tier 2: Min R-19 | Existing | Healthcare | All | 2.8038 |
| Wall insulation - Tier 2: Min R-19 | Existing | Lodging | All | 2.5551 |
| Wall insulation - Tier 2: Min R-19 | Existing | Misc. | All | 1.9340 |
| Wall insulation - Tier 2: Min R-19 | Existing | Office | All | 2.2657 |
| Wall insulation - Tier 2: Min R-19 | Existing | Restaurant | All | 2.4906 |
| Wall insulation - Tier 2: Min R-19 | Existing | Retail | All | 2.5011 |
| Wall insulation - Tier 2: Min R-19 | Existing | Warehouse | All | 1.7967 |
| Wall insulation - Tier 2: Min R-19 | New | Education | All | 0.4537 |
| Wall insulation - Tier 2: Min R-19 | New | Grocery | All | 0.4274 |
| Wall insulation - Tier 2: Min R-19 | New | Healthcare | All | 0.3221 |
| Wall insulation - Tier 2: Min R-19 | New | Lodging | All | 0.2883 |
| Wall insulation - Tier 2: Min R-19 | New | Misc. | All | 0.2090 |
| Wall insulation - Tier 2: Min R-19 | New | Office | All | 0.2505 |
| Wall insulation - Tier 2: Min R-19 | New | Restaurant | All | 0.2798 |
| Wall insulation - Tier 2: Min R-19 | New | Retail | All | 0.2812 |
| Wall insulation - Tier 2: Min R-19 | New | Warehouse | All | 0.1923 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | Existing | Education | All | 3.4828 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | Existing | Grocery | All | 3.3216 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | Existing | Healthcare | All | 2.6326 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | Existing | Lodging | All | 2.3960 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | Existing | Misc. | All | 1.8080 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | Existing | Office | All | 2.1216 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | Existing | Restaurant | All | 2.3348 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | Existing | Retail | All | 2.3448 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | Existing | Warehouse | All | 1.6785 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | New | Education | All | 3.4828 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | New | Grocery | All | 3.3216 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | New | Healthcare | All | 2.6326 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | New | Lodging | All | 2.3960 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | New | Misc. | All | 1.8080 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | New | Office | All | 2.1216 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | New | Restaurant | All | 2.3348 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | New | Retail | All | 2.3448 |
| Wall insulation (Retrofit Only) - Tier 1: Min R-11 | New | Warehouse | All | 1.6785 |
| Windows - Add Argon to Vinyl Lowe | Existing | Education | All | 3.2207 |
| Windows - Add Argon to Vinyl Lowe | Existing | Grocery | All | 3.8633 |
| Windows - Add Argon to Vinyl Lowe | Existing | Healthcare | All | 2.8433 |
| Windows - Add Argon to Vinyl Lowe | Existing | Lodging | All | 2.3926 |
| Windows - Add Argon to Vinyl Lowe | Existing | Misc. | All | 3.0073 |
| Windows - Add Argon to Vinyl Lowe | Existing | Office | All | 2.5685 |
| Windows - Add Argon to Vinyl Lowe | Existing | Restaurant | All | 4.4921 |
| Windows - Add Argon to Vinyl Lowe | Existing | Retail | All | 3.0338 |
| Windows - Add Argon to Vinyl Lowe | Existing | Warehouse | All | 1.9204 |
| Windows - Add Argon to Vinyl Lowe | New | Education | All | 2.7649 |
| Windows - Add Argon to Vinyl Lowe | New | Grocery | All | 3.3528 |
| Windows - Add Argon to Vinyl Lowe | New | Healthcare | All | 2.4256 |
| Windows - Add Argon to Vinyl Lowe | New | Lodging | All | 2.0259 |
| Windows - Add Argon to Vinyl Lowe | New | Misc. | All | 2.5726 |
| Windows - Add Argon to Vinyl Lowe | New | Office | All | 2.1812 |
| Windows - Add Argon to Vinyl Lowe | New | Restaurant | All | 3.9406 |
| Windows - Add Argon to Vinyl Lowe | New | Retail | All | 2.5964 |
| Windows - Add Argon to Vinyl Lowe | New | Warehouse | All | 1.6135 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Education | All | 10.8030 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Grocery | All | 10.5730 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Healthcare | All | 10.9264 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Lodging | All | 11.0639 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Misc. | All | 10.8738 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Office | All | 11.0114 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Restaurant | All | 10.3198 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Retail | All | 10.8651 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Warehouse | All | 11.1975 |
| Windows - Add Low E and Argon to Vinyl Tint | New | Education | All | 10.8030 |
| Windows - Add Low E and Argon to Vinyl Tint | New | Grocery | All | 10.5730 |
| Windows - Add Low E and Argon to Vinyl Tint | New | Healthcare | All | 10.9264 |
| Windows - Add Low E and Argon to Vinyl Tint | New | Lodging | All | 11.0639 |
| Windows - Add Low E and Argon to Vinyl Tint | New | Misc. | All | 10.8738 |
| Windows - Add Low E and Argon to Vinyl Tint | New | Office | All | 11.0114 |
| Windows - Add Low E and Argon to Vinyl Tint | New | Restaurant | All | 10.3198 |
| Windows - Add Low E and Argon to Vinyl Tint | New | Retail | All | 10.8651 |
| Windows - Add Low E and Argon to Vinyl Tint | New | Warehouse | All | 11.1975 |
| Windows - Add Low E to Vinyl Tint | Existing | Education | All | 4.0321 |
| Windows - Add Low E to Vinyl Tint | Existing | Grocery | All | 4.7455 |
| Windows - Add Low E to Vinyl Tint | Existing | Healthcare | All | 3.6003 |
| Windows - Add Low E to Vinyl Tint | Existing | Lodging | All | 3.0714 |
| Windows - Add Low E to Vinyl Tint | Existing | Misc. | All | 3.7891 |
| Windows - Add Low E to Vinyl Tint | Existing | Office | All | 3.2795 |
| Windows - Add Low E to Vinyl Tint | Existing | Restaurant | All | 5.4180 |
| Windows - Add Low E to Vinyl Tint | Existing | Retail | All | 3.8195 |
| Windows - Add Low E to Vinyl Tint | Existing | Warehouse | All | 2.5014 |
| Windows - Add Low E to Vinyl Tint | New | Education | All | 3.3644 |
| Windows - Add Low E to Vinyl Tint | New | Grocery | All | 4.0220 |
| Windows - Add Low E to Vinyl Tint | New | Healthcare | All | 2.9761 |
| Windows - Add Low E to Vinyl Tint | New | Lodging | All | 2.5103 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Windows - Add Low E to Vinyl Tint | New | Misc. | All | 3.1450 |
| Windows - Add Low E to Vinyl Tint | New | Office | All | 2.6924 |
| Windows - Add Low E to Vinyl Tint | New | Restaurant | All | 4.6612 |
| Windows - Add Low E to Vinyl Tint | New | Retail | All | 3.1723 |
| Windows - Add Low E to Vinyl Tint | New | Warehouse | All | 2.0200 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Education | All | 1.5028 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Grocery | All | 1.8791 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Healthcare | All | 1.2958 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Lodging | All | 1.0609 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Misc. | All | 1.3846 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Office | All | 1.1510 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Restaurant | All | 2.2795 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Retail | All | 1.3991 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Warehouse | All | 0.8280 |
| Windows - Non-Tinted AL Code to Class 36 | New | Education | All | 1.4319 |
| Windows - Non-Tinted AL Code to Class 36 | New | Grocery | All | 1.7935 |
| Windows - Non-Tinted AL Code to Class 36 | New | Healthcare | All | 1.2335 |
| Windows - Non-Tinted AL Code to Class 36 | New | Lodging | All | 1.0087 |
| Windows - Non-Tinted AL Code to Class 36 | New | Misc. | All | 1.3185 |
| Windows - Non-Tinted AL Code to Class 36 | New | Office | All | 1.0949 |
| Windows - Non-Tinted AL Code to Class 36 | New | Restaurant | All | 2.1798 |
| Windows - Non-Tinted AL Code to Class 36 | New | Retail | All | 1.3324 |
| Windows - Non-Tinted AL Code to Class 36 | New | Warehouse | All | 0.7864 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Education | All | 2.2575 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Grocery | All | 2.7712 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Healthcare | All | 1.9667 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Lodging | All | 1.6292 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Misc. | All | 2.0921 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Office | All | 1.7597 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Restaurant | All | 3.2975 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Retail | All | 2.1126 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Warehouse | All | 1.2868 |
| Windows - Non-Tinted AL Code to Class 40 | New | Education | All | 2.1835 |
| Windows - Non-Tinted AL Code to Class 40 | New | Grocery | All | 2.6851 |
| Windows - Non-Tinted AL Code to Class 40 | New | Healthcare | All | 1.9003 |
| Windows - Non-Tinted AL Code to Class 40 | New | Lodging | All | 1.5724 |
| Windows - Non-Tinted AL Code to Class 40 | New | Misc. | All | 2.0224 |
| Windows - Non-Tinted AL Code to Class 40 | New | Office | All | 1.6990 |
| Windows - Non-Tinted AL Code to Class 40 | New | Restaurant | All | 3.2009 |
| Windows - Non-Tinted AL Code to Class 40 | New | Retail | All | 2.0423 |
| Windows - Non-Tinted AL Code to Class 40 | New | Warehouse | All | 1.2404 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Education | All | 1.3676 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Grocery | All | 1.7157 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Healthcare | All | 1.1770 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Lodging | All | 0.9616 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Misc. | All | 1.2586 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Office | All | 1.0442 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Restaurant | All | 2.0887 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Retail | All | 1.2720 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Warehouse | All | 0.7490 |
| Windows - Non-Tinted AL Code to Class 45 | New | Education | All | 1.2970 |
| Windows - Non-Tinted AL Code to Class 45 | New | Grocery | All | 1.6301 |
| Windows - Non-Tinted AL Code to Class 45 | New | Healthcare | All | 1.1153 |
| Windows - Non-Tinted AL Code to Class 45 | New | Lodging | All | 0.9102 |
| Windows - Non-Tinted AL Code to Class 45 | New | Misc. | All | 1.1931 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Windows - Non-Tinted AL Code to Class 45 | New | Office | All | 0.9887 |
| Windows - Non-Tinted AL Code to Class 45 | New | Restaurant | All | 1.9881 |
| Windows - Non-Tinted AL Code to Class 45 | New | Retail | All | 1.2058 |
| Windows - Non-Tinted AL Code to Class 45 | New | Warehouse | All | 0.7082 |
| Windows - Tinted AL Code to Class 36 | Existing | Education | All | 1.3154 |
| Windows - Tinted AL Code to Class 36 | Existing | Grocery | All | 1.6524 |
| Windows - Tinted AL Code to Class 36 | Existing | Healthcare | All | 1.1313 |
| Windows - Tinted AL Code to Class 36 | Existing | Lodging | All | 0.9235 |
| Windows - Tinted AL Code to Class 36 | Existing | Misc. | All | 1.2101 |
| Windows - Tinted AL Code to Class 36 | Existing | Office | All | 1.0031 |
| Windows - Tinted AL Code to Class 36 | Existing | Restaurant | All | 2.0144 |
| Windows - Tinted AL Code to Class 36 | Existing | Retail | All | 1.2231 |
| Windows - Tinted AL Code to Class 36 | Existing | Warehouse | All | 0.7188 |
| Windows - Tinted AL Code to Class 36 | New | Education | All | 1.0823 |
| Windows - Tinted AL Code to Class 36 | New | Grocery | All | 1.3675 |
| Windows - Tinted AL Code to Class 36 | New | Healthcare | All | 0.9279 |
| Windows - Tinted AL Code to Class 36 | New | Lodging | All | 0.7548 |
| Windows - Tinted AL Code to Class 36 | New | Misc. | All | 0.9939 |
| Windows - Tinted AL Code to Class 36 | New | Office | All | 0.8210 |
| Windows - Tinted AL Code to Class 36 | New | Restaurant | All | 1.6776 |
| Windows - Tinted AL Code to Class 36 | New | Retail | All | 1.0048 |
| Windows - Tinted AL Code to Class 36 | New | Warehouse | All | 0.5854 |
| Windows - Tinted AL Code to Class 45 | Existing | Education | All | 0.3124 |
| Windows - Tinted AL Code to Class 45 | Existing | Grocery | All | 0.4024 |
| Windows - Tinted AL Code to Class 45 | Existing | Healthcare | All | 0.2651 |
| Windows - Tinted AL Code to Class 45 | Existing | Lodging | All | 0.2132 |
| Windows - Tinted AL Code to Class 45 | Existing | Misc. | All | 0.2852 |
| Windows - Tinted AL Code to Class 45 | Existing | Office | All | 0.2329 |
| Windows - Tinted AL Code to Class 45 | Existing | Restaurant | All | 0.5044 |
| Windows - Tinted AL Code to Class 45 | Existing | Retail | All | 0.2885 |
| Windows - Tinted AL Code to Class 45 | Existing | Warehouse | All | 0.1635 |
| Windows - Tinted AL Code to Class 45 | New | Education | All | 0.0005 |
| Windows - Tinted AL Code to Class 45 | New | Grocery | All | 0.0007 |
| Windows - Tinted AL Code to Class 45 | New | Healthcare | All | 0.0004 |
| Windows - Tinted AL Code to Class 45 | New | Lodging | All | 0.0003 |
| Windows - Tinted AL Code to Class 45 | New | Misc. | All | 0.0005 |
| Windows - Tinted AL Code to Class 45 | New | Office | All | 0.0004 |
| Windows - Tinted AL Code to Class 45 | New | Restaurant | All | 0.0008 |
| Windows - Tinted AL Code to Class 45 | New | Retail | All | 0.0005 |
| Windows - Tinted AL Code to Class 45 | New | Warehouse | All | 0.0003 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Combination Boiler and Hot Water Heater | Early Retirement | FoodMfg | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | FoodMfg | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | LumberWood | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | LumberWood | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | MetalsFab | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | MetalsFab | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | Other | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | Other | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | PaperMfg | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | PaperMfg | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | StoneClayGlass | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Early Retirement | StoneClayGlass | All | 0.2068 |
| Combination Boiler and Hot Water Heater | Turnover | FoodMfg | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | FoodMfg | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | LumberWood | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | LumberWood | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | MetalsFab | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | MetalsFab | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | Other | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | Other | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | PaperMfg | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | PaperMfg | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | StoneClayGlass | All | 0.2557 |
| Combination Boiler and Hot Water Heater | Turnover | StoneClayGlass | All | 0.2557 |
| Direct Fired Radiant Heater | Early Retirement | FoodMfg | All | 3.6702 |
| Direct Fired Radiant Heater | Early Retirement | LumberWood | All | 3.6702 |
| Direct Fired Radiant Heater | Early Retirement | MetalsFab | All | 3.6702 |
| Direct Fired Radiant Heater | Early Retirement | Other | All | 3.6702 |
| Direct Fired Radiant Heater | Early Retirement | PaperMfg | All | 3.6702 |
| Direct Fired Radiant Heater | Early Retirement | StoneClayGlass | All | 3.6702 |
| Direct Fired Radiant Heater | Turnover | FoodMfg | All | 8.5566 |
| Direct Fired Radiant Heater | Turnover | LumberWood | All | 8.5566 |
| Direct Fired Radiant Heater | Turnover | MetalsFab | All | 8.5566 |
| Direct Fired Radiant Heater | Turnover | Other | All | 8.5566 |
| Direct Fired Radiant Heater | Turnover | PaperMfg | All | 8.5566 |
| Direct Fired Radiant Heater | Turnover | StoneClayGlass | All | 8.5566 |
| High Efficiency Condensing Boiler | Early Retirement | FoodMfg | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | FoodMfg | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | FoodMfg | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | FoodMfg | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | LumberWood | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | LumberWood | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | LumberWood | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | LumberWood | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | MetalsFab | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | MetalsFab | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | MetalsFab | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | MetalsFab | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | Other | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | Other | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | Other | All | 0.2080 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| High Efficiency Condensing Boiler | Early Retirement | Other | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | PaperMfg | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | PaperMfg | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | PaperMfg | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | PaperMfg | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | StoneClayGlass | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | StoneClayGlass | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | StoneClayGlass | All | 0.2080 |
| High Efficiency Condensing Boiler | Early Retirement | StoneClayGlass | All | 0.2080 |
| High Efficiency Condensing Boiler | Turnover | FoodMfg | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | FoodMfg | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | FoodMfg | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | FoodMfg | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | LumberWood | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | LumberWood | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | LumberWood | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | LumberWood | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | MetalsFab | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | MetalsFab | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | MetalsFab | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | MetalsFab | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | Other | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | Other | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | Other | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | Other | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | PaperMfg | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | PaperMfg | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | PaperMfg | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | PaperMfg | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | StoneClayGlass | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | StoneClayGlass | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | StoneClayGlass | All | 0.2602 |
| High Efficiency Condensing Boiler | Turnover | StoneClayGlass | All | 0.2602 |
| High Efficiency Condensing Furnace | Early Retirement | FoodMfg | All | 0.6556 |
| High Efficiency Condensing Furnace | Early Retirement | LumberWood | All | 0.6556 |
| High Efficiency Condensing Furnace | Early Retirement | MetalsFab | All | 0.6556 |
| High Efficiency Condensing Furnace | Early Retirement | Other | All | 0.6556 |
| High Efficiency Condensing Furnace | Early Retirement | PaperMfg | All | 0.6556 |
| High Efficiency Condensing Furnace | Early Retirement | StoneClayGlass | All | 0.6556 |
| High Efficiency Condensing Furnace | Turnover | FoodMfg | All | 1.8014 |
| High Efficiency Condensing Furnace | Turnover | LumberWood | All | 1.8014 |
| High Efficiency Condensing Furnace | Turnover | MetalsFab | All | 1.8014 |
| High Efficiency Condensing Furnace | Turnover | Other | All | 1.8014 |
| High Efficiency Condensing Furnace | Turnover | PaperMfg | All | 1.8014 |
| High Efficiency Condensing Furnace | Turnover | StoneClayGlass | All | 1.8014 |
| High Efficiency Condensing Unit Heater 92% AFUE | Early Retirement | FoodMfg | All | 0.8255 |
| High Efficiency Condensing Unit Heater 92% AFUE | Early Retirement | LumberWood | All | 0.8255 |
| High Efficiency Condensing Unit Heater 92% AFUE | Early Retirement | MetalsFab | All | 0.8255 |
| High Efficiency Condensing Unit Heater 92% AFUE | Early Retirement | Other | All | 0.8255 |
| High Efficiency Condensing Unit Heater 92% AFUE | Early Retirement | PaperMfg | All | 0.8255 |
| High Efficiency Condensing Unit Heater 92% AFUE | Early Retirement | StoneClayGlass | All | 0.8255 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| High Efficiency Condensing Unit Heater 92% AFUE | Turnover | FoodMfg | All | 0.7701 |
| High Efficiency Condensing Unit Heater 92% AFUE | Turnover | LumberWood | All | 0.7701 |
| High Efficiency Condensing Unit Heater 92% AFUE | Turnover | MetalsFab | All | 0.7701 |
| High Efficiency Condensing Unit Heater 92% AFUE | Turnover | Other | All | 0.7701 |
| High Efficiency Condensing Unit Heater 92% AFUE | Turnover | PaperMfg | All | 0.7701 |
| High Efficiency Condensing Unit Heater 92% AFUE | Turnover | StoneClayGlass | All | 0.7701 |
| High Efficiency Non-Condensing Unit Heater | Early Retirement | FoodMfg | All | 0.6691 |
| High Efficiency Non-Condensing Unit Heater | Early Retirement | LumberWood | All | 0.6691 |
| High Efficiency Non-Condensing Unit Heater | Early Retirement | MetalsFab | All | 0.6691 |
| High Efficiency Non-Condensing Unit Heater | Early Retirement | Other | All | 0.6691 |
| High Efficiency Non-Condensing Unit Heater | Early Retirement | PaperMfg | All | 0.6691 |
| High Efficiency Non-Condensing Unit Heater | Early Retirement | StoneClayGlass | All | 0.6691 |
| High Efficiency Non-Condensing Unit Heater | Turnover | FoodMfg | All | 0.4516 |
| High Efficiency Non-Condensing Unit Heater | Turnover | LumberWood | All | 0.4516 |
| High Efficiency Non-Condensing Unit Heater | Turnover | MetalsFab | All | 0.4516 |
| High Efficiency Non-Condensing Unit Heater | Turnover | Other | All | 0.4516 |
| High Efficiency Non-Condensing Unit Heater | Turnover | PaperMfg | All | 0.4516 |
| High Efficiency Non-Condensing Unit Heater | Turnover | StoneClayGlass | All | 0.4516 |
| Process Heating: High Efficiency Furance | Early Retirement | FoodMfg | All | 0.6556 |
| Process Heating: High Efficiency Furance | Early Retirement | LumberWood | All | 0.6556 |
| Process Heating: High Efficiency Furance | Early Retirement | MetalsFab | All | 0.6556 |
| Process Heating: High Efficiency Furance | Early Retirement | Other | All | 0.6556 |
| Process Heating: High Efficiency Furance | Early Retirement | PaperMfg | All | 0.6556 |
| Process Heating: High Efficiency Furance | Early Retirement | StoneClayGlass | All | 0.6556 |
| Process Heating: High Efficiency Furance | Turnover | FoodMfg | All | 1.8014 |
| Process Heating: High Efficiency Furance | Turnover | LumberWood | All | 1.8014 |
| Process Heating: High Efficiency Furance | Turnover | MetalsFab | All | 1.8014 |
| Process Heating: High Efficiency Furance | Turnover | Other | All | 1.8014 |
| Process Heating: High Efficiency Furance | Turnover | PaperMfg | All | 1.8014 |
| Process Heating: High Efficiency Furance | Turnover | StoneClayGlass | All | 1.8014 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Boiler Power Burner | Existing | FoodMfg | All | 0.4056 |
| Boiler Power Burner | Existing | LumberWood | All | 0.4056 |
| Boiler Power Burner | Existing | MetalsFab | All | 0.4056 |
| Boiler Power Burner | Existing | Other | All | 0.4056 |
| Boiler Power Burner | Existing | PaperMfg | All | 0.4056 |
| Boiler Power Burner | Existing | StoneClayGlass | All | 0.4056 |
| Boiler Repair/Maintenance | Existing | FoodMfg | All | 0.1038 |
| Boiler Repair/Maintenance | Existing | LumberWood | All | 0.1038 |
| Boiler Repair/Maintenance | Existing | MetalsFab | All | 0.1038 |
| Boiler Repair/Maintenance | Existing | Other | All | 0.1038 |
| Boiler Repair/Maintenance | Existing | PaperMfg | All | 0.1038 |
| Boiler Repair/Maintenance | Existing | StoneClayGlass | All | 0.1038 |
| Boiler Stack Economizer | Existing | FoodMfg | All | 0.4382 |
| Boiler Stack Economizer | Existing | LumberWood | All | 0.4382 |
| Boiler Stack Economizer | Existing | MetalsFab | All | 0.4382 |
| Boiler Stack Economizer | Existing | Other | All | 0.4382 |
| Boiler Stack Economizer | Existing | PaperMfg | All | 0.4382 |
| Boiler Stack Economizer | Existing | StoneClayGlass | All | 0.4382 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | FoodMfg | All | 0.2948 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | LumberWood | All | 0.2948 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | MetalsFab | All | 0.2948 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | Other | All | 0.2948 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | PaperMfg | All | 0.2948 |
| Boiler Steam Trap - min. 300 kBtu in, pressure of 7 psig or > | Existing | StoneClayGlass | All | 0.2948 |
| Boiler vent damper - min. 1000 kBtu input | Existing | FoodMfg | All | 0.4189 |
| Boiler vent damper - min. 1000 kBtu input | Existing | LumberWood | All | 0.4189 |
| Boiler vent damper - min. 1000 kBtu input | Existing | MetalsFab | All | 0.4189 |
| Boiler vent damper - min. 1000 kBtu input | Existing | Other | All | 0.4189 |
| Boiler vent damper - min. 1000 kBtu input | Existing | PaperMfg | All | 0.4189 |
| Boiler vent damper - min. 1000 kBtu input | Existing | StoneClayGlass | All | 0.4189 |
| Demand Controlled Ventilation | Existing | FoodMfg | All | 2.8553 |
| Demand Controlled Ventilation | Existing | LumberWood | All | 2.8553 |
| Demand Controlled Ventilation | Existing | MetalsFab | All | 2.8553 |
| Demand Controlled Ventilation | Existing | Other | All | 2.8553 |
| Demand Controlled Ventilation | Existing | PaperMfg | All | 2.8553 |
| Demand Controlled Ventilation | Existing | StoneClayGlass | All | 2.8553 |
| Duct Sealing and Insulation | Existing | FoodMfg | All | 0.3753 |
| Duct Sealing and Insulation | Existing | LumberWood | All | 0.3753 |
| Duct Sealing and Insulation | Existing | MetalsFab | All | 0.3753 |
| Duct Sealing and Insulation | Existing | Other | All | 0.3753 |
| Duct Sealing and Insulation | Existing | PaperMfg | All | 0.3753 |
| Duct Sealing and Insulation | Existing | StoneClayGlass | All | 0.3753 |
| HVAC Controls | Existing | FoodMfg | All | 0.2902 |
| HVAC Controls | Existing | LumberWood | All | 0.2902 |
| HVAC Controls | Existing | MetalsFab | All | 0.2902 |
| HVAC Controls | Existing | Other | All | 0.2902 |
| HVAC Controls | Existing | PaperMfg | All | 0.2902 |
| HVAC Controls | Existing | StoneClayGlass | All | 0.2902 |
| HVAC System Commissioning | Existing | FoodMfg | All | 0.8250 |
| HVAC System Commissioning | Existing | LumberWood | All | 0.8250 |
| HVAC System Commissioning | Existing | MetalsFab | All | 0.8250 |
| HVAC System Commissioning | Existing | Other | All | 0.8250 |
| HVAC System Commissioning | Existing | PaperMfg | All | 0.8250 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| HVAC System Commissioning | Existing | StoneClayGlass | All | 0.8250 |
| Improved Process Heating Controls | Existing | FoodMfg | All | 14.1105 |
| Improved Process Heating Controls | Existing | LumberWood | All | 14.1106 |
| Improved Process Heating Controls | Existing | MetalsFab | All | 14.1105 |
| Improved Process Heating Controls | Existing | Other | All | 14.1109 |
| Improved Process Heating Controls | Existing | PaperMfg | All | 14.1104 |
| Improved Process Heating Controls | Existing | StoneClayGlass | All | 14.1103 |
| Optimized Furnace Operations/Improved O&M | Existing | FoodMfg | All | 16.3786 |
| Optimized Furnace Operations/Improved O&M | Existing | LumberWood | All | 16.3789 |
| Optimized Furnace Operations/Improved O&M | Existing | MetalsFab | All | 16.3788 |
| Optimized Furnace Operations/Improved O&M | Existing | Other | All | 16.3771 |
| Optimized Furnace Operations/Improved O&M | Existing | PaperMfg | All | 16.3794 |
| Optimized Furnace Operations/Improved O&M | Existing | StoneClayGlass | All | 16.3778 |
| Refrigeration system superheat recovery | Existing | FoodMfg | All | 0.0372 |
| Refrigeration system superheat recovery | Existing | LumberWood | All | 0.0372 |
| Refrigeration system superheat recovery | Existing | MetalsFab | All | 0.0372 |
| Refrigeration system superheat recovery | Existing | Other | All | 0.0372 |
| Refrigeration system superheat recovery | Existing | PaperMfg | All | 0.0372 |
| Refrigeration system superheat recovery | Existing | StoneClayGlass | All | 0.0372 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | FoodMfg | All | 1.2384 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | LumberWood | All | 1.2384 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | MetalsFab | All | 1.2384 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | Other | All | 1.2384 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | PaperMfg | All | 1.2384 |
| Roof insulation (retrofit only) - Tier 1: Min R-30 | Existing | StoneClayGlass | All | 1.2384 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | FoodMfg | All | 0.8357 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | LumberWood | All | 0.8357 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | MetalsFab | All | 0.8357 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | Other | All | 0.8357 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | PaperMfg | All | 0.8357 |
| Roof insulation (retrofit only) - Tier 2: Min R-45 | Existing | StoneClayGlass | All | 0.8357 |
| Space Heating O&M | Existing | FoodMfg | All | 0.8088 |
| Space Heating O&M | Existing | LumberWood | All | 0.8088 |
| Space Heating O&M | Existing | MetalsFab | All | 0.8088 |
| Space Heating O&M | Existing | Other | All | 0.8088 |
| Space Heating O&M | Existing | PaperMfg | All | 0.8088 |
| Space Heating O&M | Existing | StoneClayGlass | All | 0.8088 |
| Steam System Efficiency Improvements | Existing | FoodMfg | All | 0.4009 |
| Steam System Efficiency Improvements | Existing | LumberWood | All | 0.4009 |
| Steam System Efficiency Improvements | Existing | MetalsFab | All | 0.4009 |
| Steam System Efficiency Improvements | Existing | Other | All | 0.4009 |
| Steam System Efficiency Improvements | Existing | PaperMfg | All | 0.4009 |
| Steam System Efficiency Improvements | Existing | StoneClayGlass | All | 0.4009 |
| Wall insulation (retrofit only) - Tier 1: Min R-11 | Existing | FoodMfg | All | 1.8303 |
| Wall insulation (retrofit only) - Tier 1: Min R-11 | Existing | LumberWood | All | 1.8303 |
| Wall insulation (retrofit only) - Tier 1: Min R-11 | Existing | MetalsFab | All | 1.8303 |
| Wall insulation (retrofit only) - Tier 1: Min R-11 | Existing | Other | All | 1.8303 |
| Wall insulation (retrofit only) - Tier 1: Min R-11 | Existing | PaperMfg | All | 1.8303 |
| Wall insulation (retrofit only) - Tier 1: Min R-11 | Existing | StoneClayGlass | All | 1.8303 |
| Wall insulation (retrofit only) - Tier 2: Min R-19 | Existing | FoodMfg | All | 1.9683 |
| Wall insulation (retrofit only) - Tier 2: Min R-19 | Existing | LumberWood | All | 1.9683 |
| Wall insulation (retrofit only) - Tier 2: Min R-19 | Existing | MetalsFab | All | 1.9683 |
| Wall insulation (retrofit only) - Tier 2: Min R-19 | Existing | Other | All | 1.9683 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Wall insulation (retrofit only) - Tier 2: Min R-19 | Existing | PaperMfg | All | 1.9683 |
| Wall insulation (retrofit only) - Tier 2: Min R-19 | Existing | StoneClayGlass | All | 1.9683 |
| Waste Water Heat Exchanger | Existing | FoodMfg | All | 0.0299 |
| Waste Water Heat Exchanger | Existing | LumberWood | All | 0.0299 |
| Waste Water Heat Exchanger | Existing | MetalsFab | All | 0.0299 |
| Waste Water Heat Exchanger | Existing | Other | All | 0.0299 |
| Waste Water Heat Exchanger | Existing | PaperMfg | All | 0.0299 |
| Waste Water Heat Exchanger | Existing | StoneClayGlass | All | 0.0299 |
| Windows - Add Argon to Vinyl Lowe | Existing | FoodMfg | All | 2.1575 |
| Windows - Add Argon to Vinyl Lowe | Existing | LumberWood | All | 2.1575 |
| Windows - Add Argon to Vinyl Lowe | Existing | MetalsFab | All | 2.1575 |
| Windows - Add Argon to Vinyl Lowe | Existing | Other | All | 2.1575 |
| Windows - Add Argon to Vinyl Lowe | Existing | PaperMfg | All | 2.1575 |
| Windows - Add Argon to Vinyl Lowe | Existing | StoneClayGlass | All | 2.1575 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | FoodMfg | All | 14.3420 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | LumberWood | All | 14.3420 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | MetalsFab | All | 14.3420 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | Other | All | 14.3420 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | PaperMfg | All | 14.3420 |
| Windows - Add Low E and Argon to Vinyl Tint | Existing | StoneClayGlass | All | 14.3420 |
| Windows - Add Low E to Vinyl Tint | Existing | FoodMfg | All | 2.8975 |
| Windows - Add Low E to Vinyl Tint | Existing | LumberWood | All | 2.8975 |
| Windows - Add Low E to Vinyl Tint | Existing | MetalsFab | All | 2.8975 |
| Windows - Add Low E to Vinyl Tint | Existing | Other | All | 2.8975 |
| Windows - Add Low E to Vinyl Tint | Existing | PaperMfg | All | 2.8975 |
| Windows - Add Low E to Vinyl Tint | Existing | StoneClayGlass | All | 2.8975 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | FoodMfg | All | 0.8804 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | LumberWood | All | 0.8804 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | MetalsFab | All | 0.8804 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | Other | All | 0.8804 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | PaperMfg | All | 0.8804 |
| Windows - Non-Tinted AL Code to Class 36 | Existing | StoneClayGlass | All | 0.8804 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | FoodMfg | All | 1.3997 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | LumberWood | All | 1.3997 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | MetalsFab | All | 1.3997 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | Other | All | 1.3997 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | PaperMfg | All | 1.3997 |
| Windows - Non-Tinted AL Code to Class 40 | Existing | StoneClayGlass | All | 1.3997 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | FoodMfg | All | 0.7933 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | LumberWood | All | 0.7933 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | MetalsFab | All | 0.7933 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | Other | All | 0.7933 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | PaperMfg | All | 0.7933 |
| Windows - Non-Tinted AL Code to Class 45 | Existing | StoneClayGlass | All | 0.7933 |
| Windows - Tinted AL Code to Class 36 | Existing | FoodMfg | All | 0.7602 |
| Windows - Tinted AL Code to Class 36 | Existing | LumberWood | All | 0.7602 |
| Windows - Tinted AL Code to Class 36 | Existing | MetalsFab | All | 0.7602 |
| Windows - Tinted AL Code to Class 36 | Existing | Other | All | 0.7602 |
| Windows - Tinted AL Code to Class 36 | Existing | PaperMfg | All | 0.7602 |
| Windows - Tinted AL Code to Class 36 | Existing | StoneClayGlass | All | 0.7602 |
| Windows - Tinted AL Code to Class 45 | Existing | FoodMfg | All | 0.1684 |
| Windows - Tinted AL Code to Class 45 | Existing | LumberWood | All | 0.1684 |
| Windows - Tinted AL Code to Class 45 | Existing | MetalsFab | All | 0.1684 |

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| **Description** | **Vintage** | **Segment** | **Climate Zone** | **B/c Ratio** |
| Windows - Tinted AL Code to Class 45 | Existing | Other | All | 0.1684 |
| Windows - Tinted AL Code to Class 45 | Existing | PaperMfg | All | 0.1684 |
| Windows - Tinted AL Code to Class 45 | Existing | StoneClayGlass | All | 0.1684 |