focus on energy®

Partnering with Wisconsin utilities

2019

BUSINESS PROGRAMS

HVAC/PLUMBING

REDUCING ENERGY WASTE ACROSS WISCONSIN

For more information,
call 800.762.7077
or visit focusonenergy.com

FOCUS ON ENERGY®, Wisconsin utilities' statewide program for energy efficiency and renewable energy, helps eligible residents and businesses save energy and money while protecting the environment. Focus on Energy information, resources and financial incentives help to implement energy efficiency and renewable energy projects that otherwise would not be completed.

TABLE OF CONTENTS

NEED HELP?

CALL

800.762.7077

HOW TO APPLY

FOCUS ON ENERGY® makes saving energy and money easy for Wisconsin businesses. Use the information below to help guide your way to savings. For electronic copies of the forms visit focusonenergy.com/applications.

STEP 1 BEFORE YOU APPLY:

Verify customer and product eligibility:

- ❍ Confirm your gas and/or electric utilities participate in Focus on Energy at focusonenergy.com/utilities.
- ❍ Read product requirements, both general and technology-specific, in your equipment's corresponding incentive catalog.
- ❍ Review the Participation Requirements page.
- ❍ Review the Terms and Conditions at focusonenergy.com/terms.
- ❍ View the qualified product lists at focusonenergy.com/business/qpls.
- ❍ Applications for the Multifamily Programs exceeding $10,000, SBP exceeding $15,000 and all other Business Programs exceeding $25,000 not receiving pre-approval **may not receive payment** if program funds have been exhausted.

Qualifying products must be installed by December 31, 2019.

STEP 2 WHAT YOU'LL NEED:

- ❍ Incentive Application & Equipment Incentive Catalog(s)
- ❍ Gas & Electric Utility Account Numbers
- ❍ Tax ID Number
- ❍ FOR SBP CUSTOMERS: A copy of utility bills showing energy consumed in July and August of the most recent year will be required to verify eligibility.
- ❍ Invoice showing **proof of purchase(s)/installation MUST include:**
  - ❍ Trade Ally name, address and phone number
  - ❍ Itemized list of each product along with manufacturer name, model number, and quantity
  - ❍ Itemized purchase price of product/installation
  - ❍ Job Site Address

  Reminder: Incentives are capped at 100% of project cost unless otherwise noted.
- ❍ Manufacturer specifications (when required) – **MUST include:**
  - ❍ Full model number
  - ❍ Energy performance information
- ❍ Additional documentation (when required)

STEP 3 COMPLETE THIS APPLICATION:

- ❍ All fields on application are required. Incomplete application(s) cannot be processed.
- ❍ Complete SECTION 7 with all product/equipment information. Use the Incentive Product Information Sheet found at focusonenergy.com/applications if you need additional lines. Make sure you use the incentive code that's right for your facility. **Business incentive (AgSG, BIP and LEU) codes are found in dark blue. SBP incentive codes are found in yellow-green. Multifamily incentive codes are found in green.**
- ❍ Include installation date (date of the last technology installed). If project is new construction, use the occupancy date.
- ❍ Complete the catalog-specific Supplemental Data Sheet for applicable measures. An asterisk (*) next to the code indicates when this is needed. Read the measure requirements in your catalog for directions.
- ❍ Include the reservation code(s) in SECTION 7 when applicable.
- ❍ **The customer** must sign and date SECTION 8.
- ❍ Ensure supporting documents are attached, including itemized invoice(s) and manufacturer specification sheets.
- ❍ FOR SMALL BUSINESS PROGRAM CUSTOMERS: A copy of utility bills showing energy consumed in July and August of the most recent year will be required to verify eligibility.
- ❍ Make a copy of the application and supporting documents for your records.

STEP 4 SUBMIT YOUR APPLICATION:

Mail, fax, or email your application and all supporting documentation. **Applications must be submitted within 60 calendar days of completed project installation,** unless otherwise noted.

AGRICULTURE, SCHOOLS AND GOVERNMENT (AgSG) PROGRAM

MAIL: Focus on Energy AgSG
725 W. Park Avenue
Chippewa Falls, WI 54729

FAX: 608.663.0267

E-MAIL: AgSGapps@focusonenergy.com

BUSINESS INCENTIVE PROGRAM (BIP)

MAIL: Focus on Energy BIP
12075 Corporate Parkway, Suite 100
Mequon, WI 53092

FAX: 262.240.0825

E-MAIL: BIPapps@focusonenergy.com

LARGE ENERGY USERS (LEU) PROGRAM

MAIL: Focus on Energy LEU
440 Science Drive, Suite 203
Madison, WI 53711

FAX: 608.819.9051

E-MAIL: LEUapps@focusonenergy.com

SMALL BUSINESS PROGRAM (SBP)

MAIL: Focus on Energy SBP
12075 Corporate Parkway, Suite 100
Mequon, WI 53092

FAX: 262.240.0825

E-MAIL: SBPapps@focusonenergy.com

MULTIFAMILY ENERGY SAVINGS PROGRAM (MESP)

MAIL: Focus on Energy MESP
12075 Corporate Parkway, Suite 100
Mequon, WI 53092

FAX: 262.240.0825

E-MAIL: MESPapps@focusonenergy.com

PROGRAM DESCRIPTIONS

Use the detailed descriptions below to help find the program that's right for you. You can also visit **focusonenergy.com** to find savings opportunities specific to your business.

NEW CONSTRUCTION ELIGIBLE: Working on a new construction project? Look for YES in the NC column of each table to find which incentives are available for new construction.

NEED HELP?
CALL
800.762.7077

INCENTIVES FOR BUSINESSES

AGRICULTURE, SCHOOLS AND GOVERNMENT (AgSG) PROGRAM

Qualifying customers are agriculture producers, school facilities and governments. Typical facility types include:

- Agriculture producers - e.g. dairy farms, livestock, greenhouses, crop farming, aquacare
- School facilities - e.g. public and private K-12, churches if associated with a school, technical colleges, small colleges and universities
- Government - e.g. federal/state, municipal/county, small wastewater treatment, tribes

BUSINESS INCENTIVE PROGRAM (BIP)

Qualifying customers are commercial and industrial businesses that do not fall under AgSG or LEU programs. SBP eligible customers may apply for BIP incentives if no SBP specific measure is available. Typical facility types include:

- Commercial facilities - e.g. banks, hotels, offices
- Midsize industrial facilities - e.g. manufacturing, breweries, processors of raw agricultural products into intermediary or final products
- Midsize healthcare facilities - e.g. nursing homes/skilled nursing, community-based residential facilities (CBRF), community hospitals
- Retail and grocery stores
- Restaurants

LARGE ENERGY USERS (LEU) PROGRAM

Qualifying customers have incurred monthly energy demand of at least 1,000 kW of electricity or 100,000 Therms of natural gas at least once in the last 12 months and were billed at least $60,000 by their energy utility. Typical facility types include:

- Large industrial facilities – e.g. paper mills, food processors, foundries
- Large healthcare – e.g. large hospitals, large healthcare systems including VA hospitals
- School and government facilities - e.g. UW universities, large private universities, Fort McCoy
- Large publicly-owned wastewater treatment plants – e.g. Milwaukee Metropolitan Sewerage District

INCENTIVES FOR SMALL BUSINESSES

SMALL BUSINESS PROGRAM (SBP)

Qualifying customers have an average consumption of 40,000 kWh or less during the months of July and August of the most recent year. Where multiple buildings, utility meters or utility accounts exist on a site, the entire campus shall collectively adhere to this requirement. Eligible customer types include commercial and industrial businesses who operate 9 or fewer locations. AgSG, LEU and MESP customers do not qualify. Typical facility types include:

- Churches not associated with a school
- Small hotels/motels
- Restaurants
- Laundromats
- Small offices
- Storage facilities
- Convenience stores/gas stations

INCENTIVES FOR MULTIFAMILY PROPERTIES

MULTIFAMILY ENERGY SAVINGS PROGRAM (MESP)

Qualifying customers include residential properties with four or more dwelling units under one roof. Typical facilities include:

- Apartments/condominiums buildings
- Senior living facilities including assisted living and residential care apartment complexes (RCAC)
- Student housing
- Rooming houses containing 4+ bedrooms
- Housing authorities

MIXED USE FACILITIES

Qualifying mixed use facilities are buildings which qualify for more than one program in the same building. These buildings should work with the programs listed above based on the individual space type being upgraded. For example, an apartment building which contains retail space below the residential units is considered mixed use. The retail space may work with SBP or BIP based on the qualifications of that space, while the residential area should work with MESP. Call 800.762.7077 if you are unsure which program(s) is right for you.

INCENTIVE APPLICATION

PLEASE COMPLETE ALL SECTIONS. INCOMPLETE APPLICATIONS CANNOT BE PROCESSED AND WILL DELAY PAYMENT OF INCENTIVES. APPLICATIONS MUST BE SUBMITTED WITHIN 60 DAYS OF COMPLETED PROJECT INSTALLATION. FOR AN ELECTRONIC COPY OF THIS FORM, VISIT FOCUSONENERGY.COM/APPLICATIONS.

FOR PROJECTS COMPLETED BY 12/31/19

SECTION 1 ACCOUNT AND CUSTOMER INFORMATION

TAX IDENTIFICATION NUMBER (Check one.)

❍ FEIN **or** ❍ SSN _____
FEIN OR SOCIAL SECURITY NUMBER

BUSINESS CLASSIFICATION OF CUSTOMER

(Check one. Required for all businesses, including non-profits.)

❍ Sole Proprietorship ❍ Individual ❍ Single-Member LLC
❍ C Corporation ❍ S Corporation ❍ Partnership
❍ Limited Liability Corporation Classification C, S, P _____
(C = C corporation, S = S corporation, P = partnership)
❍ Other _____

_____
OWNER NAME (REQUIRED IF SSN IS USED AS TAX IDENTIFICATION NUMBER)

_____
COMPANY NAME

_____
LEGAL ADDRESS (AS SHOWN ON COMPANY W-9)

_____
CITY STATE ZIP

How did you hear about us? (Check all that apply.)

❍ Utility ❍ Trade Ally ❍ Energy Advisor ❍ Internet ❍ E-mail
❍ Trade Show/Event ❍ Direct Mail ❍ Other: _____

_____
WHO DID YOU WORK WITH FROM FOCUS ON ENERGY ON THIS PROJECT? (CONTACT NAME)

SECTION 2 JOB SITE INFORMATION

(Refer to your utility bills for account numbers below.)

_____
JOB SITE BUSINESS NAME

_____
ELECTRIC UTILITY AT JOB SITE ELECTRIC ACCOUNT #

_____
GAS UTILITY AT JOB SITE GAS ACCOUNT #

❍ Job Site Address is same as Legal Address
❍ Job Site Address is different (complete below.)

_____
JOB SITE ADDRESS

_____
CITY STATE ZIP

SECTION 3 CUSTOMER CONTACT INFORMATION

_____
JOB SITE CUSTOMER CONTACT NAME

_____
PRIMARY PHONE # E-MAIL ADDRESS

If Focus on Energy has a question about this application, we should contact:

❍ Customer ❍ Trade Ally ❍ Other

SECTION 4 TRADE ALLY INFORMATION

_____
TRADE ALLY CONTACT NAME

_____
PRIMARY PHONE # E-MAIL ADDRESS

_____
TRADE ALLY COMPANY NAME

_____
ADDRESS

_____
CITY STATE ZIP

SECTION 5 BUSINESS PAYMENT INFORMATION

Make incentive check payable to:

❍ Customer ❍ Trade Ally ❍ Other Payee

For Other Payee, specify relationship to utility account holder:

❍ Tenant ❍ Building Owner ❍ Other (specify) _____

If a Trade Ally or Other Payee is receiving the incentive payment, provide the Tax Identification Number. To receive payment, a Trade Ally must be registered. Payee is responsible for any associated tax consequences.

TAX IDENTIFICATION NUMBER (Check one.)

❍ FEIN **or** ❍ SSN _____
FEIN OR SOCIAL SECURITY NUMBER

BUSINESS CLASSIFICATION OF OTHER PAYEE

(Check one. Required for all businesses, including non-profits.)

❍ Sole Proprietorship ❍ Individual ❍ Single-Member LLC
❍ C Corporation ❍ S Corporation ❍ Partnership
❍ Limited Liability Corporation Classification C, S, P _____
(C = C corporation, S = S corporation, P = partnership)
❍ Other _____

Mail check to:

❍ Customer Address ❍ Job Site Address ❍ Trade Ally Address
❍ Other Payee or Alternate Address (complete below.)

_____
COMPANY NAME

_____
ADDRESS

_____
CITY STATE ZIP

_____
ATTENTION TO (OPTIONAL)

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SECTION 6 BUSINESS PROPERTY TYPE

❍ Existing Building ❍ New Construction

(Select one only. If applying for both existing and new construction equipment incentives please complete two separate applications).

Select one (1) property type that best describes your business:

- ❍ Agriculture Producer
  - ❍ Dairy
  - ❍ Other: _____
- ❍ Education
- ❍ Grocery/Convenience Store
- ❍ Financial Institution
- ❍ Food Service
- ❍ Government
  - ❍ County
  - ❍ Federal/State
  - ❍ Municipal
  - ❍ Native American
- ❍ Healthcare
  - ❍ Clinic
  - ❍ Hospital
  - ❍ Skilled Nursing
  - ❍ Other: _____
- ❍ Hotels & Lodging
- ❍ Manufacturing (product): _____
- ❍ Multifamily
  - ❍ Apartment
  - ❍ Condominium
  - ❍ Mixed Use

  Number of Units: _____

  Number of Buildings: _____
- ❍ Office
- ❍ Religious Worship
  - ❍ With K+ Daily Education
  - ❍ No K+ Daily Education
- ❍ Retail
- ❍ Vehicles Sales/Service
- ❍ Water/Wastewater
- ❍ Other: _____

SECTION 7 INCENTIVE PRODUCT INFORMATION

Refer to:

- **Applicable incentive catalog at focusonenergy.com/applications** for incentive codes, incentive per unit and product eligibility requirements.
- **focusonenergy.com/business/qpls** for qualified products lists.
- **Invoice showing proof of purchase** for Manufacturer and Model Number.
- **Incentive Product Information Sheet at focusonenergy.com/applications** if additional lines are needed.

INCENTIVE CODE	MANUFACTURER NAME	MODEL #	UNIT MEASURE	# OF UNITS (A)	INCENTIVE PER UNIT (B)	TOTAL INCENTIVE (A X B)
L3111 (example)	*STARK LIGHTING*	*LED5VZP*	*Fixture*	*10*	$ *25.00*	$ *250.00*
					$	$
					$	$
					$	$
					$	$
					$	$

Manufacturer Specifications Attached (if applicable):	Yes ❍	**RESERVATION CODE(S)** (if applicable):		Subtotal from Incentive Product Information Sheet (if applicable)	$
Itemized Invoice(s) Attached:	Yes ❍	**INSTALLATION DATE:**	/ /	**INCENTIVE TOTAL***	$

SECTION 8 CUSTOMER SIGNATURE

Certification: The following certifications are required in order for this form to substitute for the IRS form W-9. Under penalty of perjury, I certify that:

- The number shown on this form is the correct taxpayer identification number.
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the IRS that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding.
- I am a U.S. citizen (includes a U.S. resident alien).

I agree that the stated energy-efficient measure(s) was (were) installed at the job site address listed above as part of the FOCUS ON ENERGY® Program. I have read and agree to the provisions set forth herein and to the Terms and Conditions posted at focusonenergy.com/terms. I understand that Focus on Energy may revise these Terms and Conditions at any time and I will not be notified in the event changes are made. To the best of my knowledge, the statements made on this application are complete, true and correct, and I have submitted the appropriate supporting documentation to receive an incentive. The Internal Revenue Service does not require my consent to any provision of this document other than the certifications required to avoid backup withholding.

If Other Payee is indicated in Section 5, I, the Customer, attest I am the ratepayer (utility account holder) for the site(s) listed in Section 2 and I assign the right to participate in and receive incentives from the Focus on Energy Program to the Other Payee identified in Section 5.

SIGN HERE

CUSTOMER SIGNATURE _____ NAME (PRINT) _____ DATE _____

NEED HELP? CALL 800.762.7077

Select the program for which you are applying (check one):

- ❍ Agriculture, Schools and Government Program AgSGapps@focusonenergy.com
- ❍ Business Incentive Program BIPapps@focusonenergy.com
- ❍ Large Energy Users Program LEUapps@focusonenergy.com
- ❍ Multifamily Energy Savings Program MESPapps@focusonenergy.com
- ❍ Small Business Program SBPapps@focusonenergy.com

See the How to Apply page for mailing addresses and fax numbers.

*Incentive total may be adjusted based on project caps. See measure requirements and Terms and Conditions for more information.

2019 HVAC/PLUMBING INCENTIVE CATALOG SUPPLEMENTAL DATA SHEET

THIS FORM MUST BE ATTACHED TO COMPLETED INCENTIVE APPLICATION AND SUBMITTED TOGETHER. NEED HELP? CALL 800.762.7077.

HOW TO FILL OUT THIS FORM

Please refer to:

- The **HVAC/Plumbing Incentive Catalog** for measure requirements and information.
- Complete the table corresponding to the measure in the catalog.

Attach this form to a completed **Incentive Application** and submit together.

CUSTOMER INFORMATION

JOB SITE BUSINESS NAME

JOB SITE ADDRESS

TRADE ALLY NAME

A1 AIR CONDITIONING SPLIT AND PACKAGED SYSTEMS (> 5.42 TONS) — PAGE 34

INCENTIVE CODE: H4368, H4369, H4370, H4371, M-H4368, M-H4369, M-H4370, M-H4371, S-H4368, S-H4369, S-H4370, S-H4371

EQUIP #	(A) AHRI RATED CAPACITY (tons, 2 decimals)	(B) AHRI RATED PART LOAD EFFICIENCY (IEER, 2 decimals)	(C) PART LOAD EFF TO QUALIFY (IEER) (from Measure Description pg 34)	(D) DELTA EFFICIENCY (B - C)	(E) ADDITIONAL INCENTIVE (D x $5)	(F) BASE INCENTIVE ($/ton)	(G) INCENTIVE RATE ($/ton) (E + F)	TOTAL INCENTIVE* (A x G)
Example	*15.00*	*13.60*	*13.00*	*0.60*	*$3*	*$30*	*$33*	*$495*

A2 SPLIT SYSTEM AIR CONDITIONING - CONDENSING UNIT ONLY — PAGE 35

INCENTIVE CODE: H3909, M-H3909, S-H3903

EQUIP #	(A) AHRI RATED CAPACITY (tons, 2 decimals)	(B) AHRI RATED PART LOAD EFFICIENCY (EER, 2 decimals)	(C) PART LOAD EFF TO QUALIFY (EER) (from Measure Description pg 35)	(D) DELTA EFFICIENCY (B - C)	(E) ADDITIONAL INCENTIVE (D x $5)	(F) BASE INCENTIVE ($/ton)	(G) INCENTIVE RATE ($/ton) (E + F)	TOTAL INCENTIVE* (A x G)
Example	*15.00*	*11.60*	*11.10*	*0.50*	*$2.50*	*$25*	*$27.50*	*$412.50*

B1 CHILLERS (BUILDING COOLING LOAD) — PAGE 36-38

INCENTIVE CODE: H4712, H4713, H4714, H4715, H4716, H4717, H4718, H4719, H4720, H4721, H4722, H4723, H4724, H4725, H4726, H4727, H4729, H4730, H4731, H4732, H4733, H4734, H4735, S-H4712, S-H4714, S-H4716, S-H4717, S-H4721, S-H4722, S-H4726, S-H4731, M-H4712, M-H4713, M-H4714, M-H4715, M-H4716, M-H4717, M-H4718, M-H4719, M-H4720, M-H4721, M-H4722, M-H4723, M-H4724, M-H4725, M-H4726, M-H4727, M-H4728, M-H4729, M-H4730, M-H4731, M-H4732, M-H4733, M-H4734, M-H4735

EQUIP #	ANNUAL HOURS OF CHILLER OPERATION (hours chiller enabled to provide some cooling to building)	BUILDING/SPACE DESIGN COOLING LOAD (tons)	BASE OR TRIM CHILLER?	CHILLER LOCKOUT TEMPERATURE (°F)	CODE COMPLIANCE PATH: A OR B
Example	*4,000*	*90.00*	*Base*	*53 °F*	*Path A*

B2 CHILLERS (EQUIPMENT PERFORMANCE) — PAGE 36-38

INCENTIVE CODE: H4712, H4713, H4714, H4715, H4716, H4717, H4718, H4719, H4720, H4721, H4722, H4723, H4724, H4725, H4726, H4727, H4729, H4730, H4731, H4732, H4733, H4734, H4735, S-H4712, S-H4714, S-H4716, S-H4717, S-H4721, S-H4722, S-H4726, S-H4731, M-H4712, M-H4713, M-H4714, M-H4715, M-H4716, M-H4717, M-H4718, M-H4719, M-H4720, M-H4721, M-H4722, M-H4723, M-H4724, M-H4725, M-H4726, M-H4727, M-H4728, M-H4729, M-H4730, M-H4731, M-H4732, M-H4733, M-H4734, M-H4735

EQUIP #	(A) AHRI RATED CAPACITY (tons, 3 decimals)	(B) MAX FULL LOAD (kW/ton) (from Measure Description pg 36-38)	(C) AHRI RATED FULL LOAD EFFICIENCY (kW/ton, 3 decimals)	(D) MAX PART LOAD (IPLV) (kW/ton) (from Measure Description pg 36-38)	(E) AHRI RATED PART LOAD EFFICIENCY (IPLV) (kW/ton, 3 decimals)	(F) DELTA EFFICIENCY: ((B - C) + (D - E))	(G) ADDITIONAL INCENTIVE ($/ton) (F x $150)	(H) BASE INCENTIVE ($/ton)	(I) INCENTIVE RATE ($/ton) (G + H)	TOTAL INCENTIVE* (A x I)
Example (air cooled)	*95.000*	*1.160*	*1.120*	*0.880*	*0.840*	*0.080*	*$12*	*$8*	*$20*	*$1,900*

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C ENERGY RECOVERY VENTILATOR (ERV) — INCENTIVE CODE: H2314, S-H2314, M-H2314 PAGE 42

EQUIP #	HOURS OF OPERATION (hrs/wk)	SUPPLY AIRFLOW (AHRI listed CFM)	AHRI WINTER EFFECTIVENESS %	AHRI SUMMER EFFECTIVENESS %	HEATING SYSTEM EFFICIENCY (%)	COOLING SYSTEM EFFICIENCY (kW/ton or EER, 2 decimals)
Example	*60 hrs/wk*	*2,000*	*81%*	*77%*	*80%*	*1.20 kW/ton*

D ECONOMIZERS — INCENTIVE CODE: H3066, S-H3066 PAGE 43

EQUIP #	RTU RATED CAPACITY (tons)	RTU COOLING EFFICIENCY (EER, IF KNOWN)	ECONOMIZER CHANGEOVER TEMP (°F)	AHU CONTROLS (no setback or EMS/t-stat)
Example	*10.00*	*10.30*	*60 °F*	*T-stat*

E ADVANCED ROOFTOP UNIT CONTROLLERS – INCENTIVE CODE: H3964, S-H3964, M-H3964 PAGE 44

EQUIP #	NOMINAL COOLING CAPACITY (tons)	FAN HP	ECONOMIZER OPERATIONAL (YES / NO)?	WEEKDAY OPEN / CLOSE TIMES	SATURDAY OPEN / CLOSE TIMES	SUNDAY OPEN / CLOSE TIMES
Example	*15.00*	*5*	*Yes*	*7 AM / 9 PM*	*8 AM / 10 PM*	*11 AM / 7 PM*
				/	/	/
				/	/	/

F DEMAND CONTROLLED VENTILATION (DCV) — INCENTIVE CODE: H3266, S-H3266 (SINGLE ZONE RTU); H2853, S-H2853 (DCV FOR AHU) PAGE 45

EQUIP #	SPACE COOLING TYPE	SPACE HEATING TYPE	AREA SERVED TYPE	AHU COOLING SIZE (TONS)	HOURS OF OPERATION/ WEEK	AREA SERVED (sq ft)	ECONOMIZER (DB, ENTH, none)	AHU CONTROLS (no setback, EMS/T-STAT)	TOTAL SUPPLY AIRFLOW RATE (CFM)	OUTSIDE AIRFLOW RATE (CFM)
Example	*DX*	*Gas*	*Office*	*12.00*	*60*	*10,000*	*DB*	*T-stat*	*12,000*	*3,000*

G GUEST ROOM ENERGY MANAGEMENT CONTROLS — INCENTIVE CODE: H2374, S-H2374 PAGE 46

HVAC SYSTEM TYPE	COOLING EFFICIENCY W/ UNITS	HEATING EFFICIENCY W/ UNITS	"OTHER HEAT OPTION" EXPLANATION	HEATING SYSTEM SOURCE (if WSHP or fan coil)	COOLING SYSTEM SOURCE (if WSHP or fan coil)
Fan Coil Unit	*1.15 kW/ton*	*90%*	*N/A*	*Hot Water Boiler*	*Air-Cooled Chiller*

H PARKING GARAGE VENTILATION CONTROLS — INCENTIVE CODE: H3016, M-H3016, H3493, M-H3493 PAGE 48

LOCATION	EXHAUST FAN SIZE (HP)	PROPOSED FAN OPERATION (hrs/day)	VENTILATION AIRFLOW (CFM)	GARAGE SIZE (sq ft, if heated)	HEATING SYSTEM EFFICIENCY (%)	HEATING SETPOINT (°F)
Garage-1a	*10*	*10*	*6,700*	*10,000*	*80%*	*55 °F*

I SURGERY OCCUPANCY CONTROLS – INCENTIVE CODE: H3632 PAGE 48

LOCATION	AVERAGE AREA (SQ FT) OF SURGERY ROOMS	WHEN ARE SURGERY ROOMS OCCUPIED?	ESTIMATED SURGERY HRS/YRS	RE-HEAT TYPE (electric or gas)	EXISTING AIR CHANGES PER HOUR	ROOM TEMPERATURE SETPOINT, °F	DISCHARGE AIR TEMPERATURE, °F	# OF ROOMS WITH CONTROLS
Example	*400*	*6 AM to 10 PM*	*5,840*	*gas*	*20*	*65 °F*	*50 °F*	*4*

J VARIABLE FREQUENCY DRIVES — PAGE 49-50

INCENTIVE CODE: H2640, HN2640, S-H2640, M-H2640, H2641, HN2641, S-H2641, M-H2641, H2643, HN2643, S-H2643, M-H2643, H2726, HN2726, S-H2726, M-H2726, H2644, HN2644, S-H2644, M-H2644, H2646, HN2646, S-H2646, M-H2646

VFD #	VFD APPLICATION	CONTROLS BEFORE VFD	EQUIPMENT OPERATING HOURS (2,000 hr/yr min)	HP CONTROLLED BY VFD	QUANTITY	SUBTOTAL INCENTIVE (qty X HP X $/HP)*
AHU-1a	*HVAC Fan*	*Inlet Guide Vanes*	*2500*	*10*	*3*	

*Focus on Energy may adjust total incentive based on project caps. Please see measure requirements and Terms and Conditions for more information.

K	HIGH-USE COMMERCIAL WATER HEATERS — INCENTIVE CODE: P3045, S-P3045, P3046, S-P3046, P3047, S-P3047, P3684						PAGE 54
BLDG TYPE	EXISTING SYSTEM FUEL TYPE	EXISTING WATER HEATER TYPE	EXISTING EFFICIENCY (% or EF)	WATER HEATER SUPPLY TEMPERATURE (˚F)	ANNUAL OPERATION (days/year)	ACTUAL USAGE (See page 54 for units of measure)	NEW SYSTEM EFFICIENCY (% or EF)
Example - Cafeteria	*Gas*	*Gas Storage*	*82%*	*125 ˚F*	*350*	*400 meals/day*	*95%*

L	DOMESTIC HOT WATER PLANT — INCENTIVE CODE: M-P2760					PAGE 56
EQUIP #	# OF EXISTING WATER HEATERS	INPUT CAPACITY (MBh)	TANK MFG (Required if indirect)	TANK MODEL NUMBER (Required if indirect)	TANK INPUT CAPACITY (Btu/hr) (Required if indirect)	
Example	*1*	*299*	*N/A*	*N/A*	*N/A*	

M	AIR SEALING — INCENTIVE CODE: M-H4749, M-H4750, M-H4751, M-H4752							PAGE 66
EQUIP #	HEATING TYPE	HEATING EFFICIENCY	COOLING TYPE	COOLING EFFICIENCY	APPROX. BUILDING AGE (Years)	CONDITIONED FLOOR AREA (Sq Ft)	FLOOR TO FLOOR HEIGHT (Ft)	# OF FLOORS
Example	*Gas Furnace*	*80%*	*Split System A/C*	*13 SEER*	*20 years*	*10,450 sq ft*	*10 ft*	*2*

2019 EXPRESS BUILDING TUNE-UP SUPPLEMENTAL DATA SHEET

THIS FORM MUST BE ATTACHED TO COMPLETED INCENTIVE APPLICATION AND SUBMITTED TOGETHER. NEED HELP? CALL 800.762.7077

HOW TO FILL OUT THIS FORM

Please refer to:

- The Express Building Tune-Up (EBTU) Measure Descriptions section starting on Page 70 for measure requirements and information.
- Complete the applicable tables for all implemented measures.

CUSTOMER INFORMATION

SIZE OF FACILITY (FT²)

PERCENTAGE OF BUILDING THAT IS HEATED

PERCENTAGE OF BUILDING THAT IS COOLED

TYPE OF BUILDING SPACE
(OFFICE, LIBRARY, RETAIL, RESTAURANT ETC.)

TYPE OF COOLING SYSTEM
(DX, AIR-COOLED CHILLER, WATER-COOLED CHILLER)

N — CHILLER PLANT SETPOINT ADJUSTMENT – INCENTIVE CODE: 3659, 3660 — PAGE 70

EQUIP #	CHILLER COOLING CAPACITY (Tons, AHRI rating if known)	EXISTING CHILLED SUPPLY WATER SETPOINT TEMP (°F)	PROPOSED CHILLED SUPPLY WATER SETPOINT TEMP (°F)	TOTAL INCENTIVE: $1.50*# TONS* (Proposed Chilled Water Temp - Existing Chilled Water Temp)	EXISTING CONDENSER SUPPLY WATER SETPOINT TEMP (°F)	PROPOSED CONDENSER SUPPLY WATER SETPOINT TEMP (°F)	TOTAL INCENTIVE: $1.50*# TONS* (Existing Condenser Water Temp - Proposed Condenser Water Temp)
Example	*150.000*	*42 °F*	*47 °F*	*$1,125.00*	*85 °F*	*83 °F*	*$450.00*

O — HOT WATER SUPPLY RESET – INCENTIVE CODE: 3662 — PAGE 70

EQUIP #	AVG HEATING WATER SUPPLY LOOP FLOW RATE (Use GPM at delta-T of 20°F if not known)	EXISTING OAT HOT WATER RESET RANGE (°F) (If existing reset/ If no existing reset)	EXISTING CORRESPONDING MAX AND MIN SETPOINTS (°F) (If existing reset/ If no existing reset)	PROPOSED OAT HOT WATER RESET RANGE (°F)	PROPOSED CORRESPONDING MAX AND MIN SETPOINTS (°F)
Example	*20 GPM*	*40-60 °F / Blank*	*180-160 °F / 180 °F*	*20-60 °F*	*170-150 °F*

Instructions: If a prior existing hot water reset strategy will be optimized, enter reset ranges as shown. If existing setup does **NOT** include an existing reset strategy, simply enter the hot water supply temperature setpoint.

P — OUTSIDE AIR INTAKE OPTIMIZATION – INCENTIVE CODE: 3663 — PAGE 70

EQUIP #	EXISTING OA INTAKE CFM	PROPOSED OA INTAKE CFM	SUPPLY FAN SIZE (HP)	ANNUAL HOURS OF SUPPLY FAN OPERATION	FAN MOTOR NAMEPLATE EFFICIENCY	% BUILDING SQ FT SUPPLIED BY OA INTAKE SUPPLY FAN
Example	*1,000*	*900*	*5*	*8,760*	*90%*	*50%*

Q — ECONOMIZER OPTIMIZATION – INCENTIVE CODE: 3661 — PAGE 71

EQUIP #	EXISTING ECONOMIZER IN PLACE IS FULLY OPERATIONAL (Yes/No)	EXISTING ECONOMIZER OAT OPERATING RANGE (°F)	PROPOSED ECONOMIZER OAT OPERATING RANGE (°F)	CURRENT COOLING SYSTEM CAPACITY (tons)	CURRENT COOLING SYSTEM EFFICIENCY (EER, if known)
Example	*Yes*	*55-65 °F*	*55-70 °F*	*25.00*	*10.50*

R1 VFD FAN MOTOR CONTROL RESTORATION – INCENTIVE CODE: 3677 PAGE 71

VFD #	ANNUAL HOURS OF VFD/FAN OPERATION	MOTOR HORSEPOWER CONTROLLED BY VFD	FAN VFD APPLICATION (Cooling Tower Fan, HVAC Fan, Boiler Draft Fan)	EXISTING VFD CONTROL STATE (Auto, Hand-On, Bypass/Off)	MEASURED SPEED AT SETPOINT IF VFD IS STUCK IN 'HAND' MODE (Hz)	FAN MOTOR NAMEPLATE EFFICIENCY (%, if known)	VFD PROGRAMMED FAN LOADING MIN & MAX (%)
Example	*8,760*	*5*	*Cooling Tower Fan*	*Hand*	*50*	*90%*	*50-80%*

R2 VFD PUMP MOTOR CONTROL RESTORATION – INCENTIVE CODE: 3678 PAGE 71

VFD #	ANNUAL HOURS OF VFD/PUMP OPERATION	PUMP MOTOR HORSEPOWER CONTROLLED BY VFD (HP)	PUMP VFD APPLICATION (Chilled Water Pump, HVAC Heating Pump)	EXISTING VFD CONTROL STATE (Auto, Hand-On, Bypass/Off)	MEASURED SPEED AT SETPOINT IF VFD IS STUCK IN 'HAND' MODE (Hz)	PUMP MOTOR NAMEPLATE EFFICIENCY (%, if known)	VFD PROGRAMMED PUMP LOADING MIN & MAX (%)
Example	*8,760*	*20*	*Chilled Water Pump*	*Hand*	*50*	*90%*	*50-80%*

S VALVE REPAIR – INCENTIVE CODE: 3675, 3676 PAGE 71

VALVE #	VALVE SYSTEM TYPE (Heating or Chilled water)	CAPACITY OF HEATING/ COOLING COIL SERVED (MBh/Tons)	FAILED VALVE POSITION IN % OPEN (100%=Fully Open)
Example	*Heating*	*100 MBh*	*95%*

T SUPPLY AIR TEMPERATURE (SAT) RESET – INCENTIVE CODE: 3672, 3673 PAGE 72

LOCATION #	OAT RESET RANGE – HEATING (°F)	EXISTING FACILITY SA HEATING TEMP SETPOINT (°F)	PROPOSED SA RESET HEATING TEMP RANGE: MAX-MIN (°F)	% OF BUILDING AFFECTED BY HEATING RESET	OAT RESET RANGE – COOLING (°F)	EXISTING FACILITY SA COOLING TEMP SETPOINT (°F)	PROPOSED SA RESET COOLING TEMP RANGE: MAX-MIN (°F)	# OF BUILDING AFFECTED BY COOLING RESET
Example	*0 - 60 °F*	*90 °F*	*90 - 75 °F*	*50%*	*60 - 90 °F*	*55 °F*	*65-55 °F*	*50%*

U1 SCHEDULE OPTIMIZATION – INCENTIVE CODE: 4407, 4408, 4409, 4410 PAGE 72

LOCATION #	# OF DEGREES OF TEMPERATURE SETBACK COMPARED TO OCCUPIED OPERATION
Example	*8 °F*

*If a second schedule optimization measure is implemented, a second set of existing and proposed schedules must be completed and attached.

U2	SCHEDULE OPTIMIZATION - EXISTING SCHEDULE – INCENTIVE CODE: 4407, 4408, 4409, 4410													PAGE 72
EXISTING - SCHEDULE HOURS (24hr time format)	NORMAL WEEKDAY SCHEDULE										NORMAL WEEKEND SCHEDULE			
	HEATING SCHEDULE					COOLING SCHEDULE					HEATING SCHEDULE		COOLING SCHEDULE	
	Mon	Tues	Wed	Thurs	Fri	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Sat	Sun
Instructions: Leave cell blank if hour is a part of normal HVAC system operating hours. Mark an '**X**' if hour is on a setback schedule.														
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
ADD Xs IN EACH COLUMN	U2.A: DAILY SUBTOTAL					U2.B: DAILY SUBTOTAL					U2.C: DAILY SUBTOTAL		U2.D: DAILY SUBTOTAL	
	U2.E: AVERAGE SETBACK HOURS FROM WEEKDAY HEATING SCHEDULE (SUM U2.A ÷ 5)					U2.F: AVERAGE SETBACK HOURS FROM WEEKDAY COOLING SCHEDULE (SUM U2.B ÷ 5)					U2.G: AVERAGE SETBACK HOURS FROM WEEKEND HEATING SCHEDULE (SUM U2.C ÷ 2)		U2.H: AVERAGE SETBACK HOURS FROM WEEKEND COOLING SCHEDULE (SUM U2.D ÷ 2)	

U3 SCHEDULE OPTIMIZATION - PROPOSED SETBACK SCHEDULE – INCENTIVE CODE: 4407, 4408, 4409, 4410 PAGE 72

PROPOSED SETBACK SCHEDULE HOURS (24hr time format)	NORMAL WEEKDAY SCHEDULE										NORMAL WEEKEND SCHEDULE			
	HEATING SCHEDULE					COOLING SCHEDULE					HEATING SCHEDULE		COOLING SCHEDULE	
	Mon	Tues	Wed	Thurs	Fri	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Sat	Sun
0														
1														
2														
3														
4														
5														
6														
7														
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19														
20														
21														
22														
23														

Instructions: Leave cell blank if hour is a part of normal HVAC system operating hours. Mark an '**X**' if hour is on a setback schedule.

	U3.A: DAILY SUBTOTAL					U3.B: DAILY SUBTOTAL					U3.C: DAILY SUBTOTAL		U3 .D: DAILY SUBTOTAL	
ADD Xs IN EACH COLUMN														

U3.E: AVERAGE SETBACK HOURS FROM WEEKDAY HEATING SCHEDULE (SUM U3.A ÷ 5)	U3.F: AVERAGE SETBACK HOURS FROM WEEKDAY COOLING SCHEDULE (SUM U3.B ÷ 5)	U3.G: AVERAGE SETBACK HOURS FROM WEEKEND HEATING SCHEDULE (SUM U3.C ÷ 2)	U3.H: AVERAGE SETBACK HOURS FROM WEEKEND COOLING SCHEDULE (SUM U3.D ÷ 2)

U4 SCHEDULE OPTIMIZATION - FINAL INCENTIVE AWARD – INCENTIVE CODE: 4407, 4408, 4409, 4410 PAGE 72

	U4.A: BUILDING FT² AFFECTED BY ADJUSTED SCHEDULE	BASE WEEKDAY HEATING INCENTIVE ($1.30 / 1,000 FT² X U4.A)	BASE WEEKDAY COOLING INCENTIVE ($0.30 / 1,000 FT² X U4.A)	BASE WEEKEND HEATING INCENTIVE ($0.50 / 1,000 FT² X U4.A)	BASE WEEKEND COOLING INCENTIVE ($0.15 / 1,000 FT² X U4.A)
Example	*12,000 ft²*	*$15.60*	*$3.60*	*$6*	*$1.80*

		INCENTIVE CODE 4407: TOTAL WEEKDAY HEATING INCENTIVE = (U2.E - U3.E) X BASE WEEKDAY HEATING INCENTIVE	INCENTIVE CODE 4408: TOTAL WEEKDAY COOLING INCENTIVE = (U2.F - U3.F) X BASE WEEKDAY COOLING INCENTIVE	INCENTIVE CODE 4409: TOTAL WEEKEND HEATING INCENTIVE = (U2.G - U3.G) X BASE WEEKEND HEATING INCENTIVE	INCENTIVE CODE 4410: TOTAL WEEKEND COOLING INCENTIVE = (U2.H - U3.H) X BASE WEEKEND COOLING INCENTIVE

Note: If more than one schedule optimization measure is implemented, combined square footage must be less than or equal to the total building square footage.

EQUIP #	CHILLER UNIT CAPACITY (tons)
Example	*80.000*

CHECKLIST	SYSTEM PRESSURE CHECK/ADJUSTMENT	FILTER INSPECTION/ REPLACEMENT	BELT INSPECTION/ REPLACEMENT	ECONOMIZER CONDITION CHECK AND REPAIR
Example	✓	✓	✓	✓

CONTACTOR CONDITIONS	EVAPORATOR CONDITIONS	COMPRESSOR AMP DRAW	SUPPLY MOTOR AMP DRAW	CONDENSER FAN AMP DRAW
✓	✓	✓	✓	✓

LIQUID LINE TEMPERATURE	SUB-COOLING AND SUPERHEAT TEMPERATURES	SUCTION PRESSURE AND TEMPERATURE	OIL LEVEL AND PRESSURE	LOW PRESSURE CONTROLS
✓	✓	✓	✓	✓

HIGH PRESSURE CONTROLS	CRANKCASE HEATER OPERATION	CONDENSER COIL CLEANING	CONDENSER TUBE CLEANING	EVAPORATOR TUBE CLEANING
✓	✓	✓	✓	✓

Notes:

PARTICIPATION REQUIREMENTS

Before you start your project, make sure you are familiar with participation requirements, program information and Terms and Conditions.

NEED HELP?

CALL

800.762.7077

INFORMATION AND REQUIREMENTS

General Terms and Conditions

Review the FOCUS ON ENERGY® Terms and Conditions at focusonenergy.com/terms or call 800.762.7077 to request a copy.

Prescriptive Incentives

AgSG, BIP and LEU Programs (collectively, "Business Programs") and the SBP: Any project with an expected incentive exceeding $25,000 ($15,000 for Small Business Program) requires pre-approval BEFORE project initiation or equipment purchase to guarantee fund availability. Projects not receiving pre-approval will be subject to funding availability. Projects with expected incentives of $10,000 or more may request pre-approval. Check the Focus on Energy website at focusonenergy.com/business or call 800.762.7077 for more information.

MESP: Any project with an expected incentive exceeding $10,000 requires pre-approval BEFORE project initiation or equipment purchase to guarantee fund availability. Projects not receiving pre-approval will be subject to funding availability. Check the Focus on Energy website at focusonenergy.com/multifamily or call 866.486.0832 for more information.

For all prescriptive incentives, the incentive cannot exceed the cost of the product (including any external labor) unless otherwise noted in measure requirements.

Custom Incentives

If your project does not fit the descriptions on this prescriptive incentive application form, it may qualify for a custom incentive. This requires pre-approval prior to initiating project by ordering equipment or issuing purchase orders. For Business Programs, direct inquiries to **800.762.7077** or visit **focusonenergy.com/business**. For Multifamily Programs, direct inquiries to **866.486.0832** or visit **focusonenergy.com/multifamily**.

Incentive Limits

Business Programs and MESP: Incentives are limited to $500,000 per customer per calendar year for all Focus on Energy incentives (prescriptive and custom).

SBP: Incentives are limited to $15,000 per site and $30,000 per customer per calendar year. If customers participate in other programs in addition to the SBP, incentives received through the SBP count towards annual incentive limits.

Depending on your business tax classification, you may receive IRS form 1099 for incentives totaling over $600 in a calendar year.

Trade Ally Information

A Trade Ally represents the company who provided/installed the equipment for a project or performed the service for which a customer is seeking an incentive. Trade Allies who have signed an agreement with Focus on Energy are allowed to enjoy certain program benefits, one of which is to receive direct payment of incentives at the Trade Ally's request. Incentives can only be paid directly to a registered Trade Ally who has a W-9 on file with Focus on Energy. For more information on becoming a registered trade ally, visit focusonenergy.com/tradeally.

The Federal Employer Identification Number (FEIN) and Business Classification of the Trade Ally is required IF you received your incentive as a credit on your invoice, whereby the incentive is paid directly to the Trade Ally. In this scenario, the credit must be clearly labeled as the Focus on Energy incentive and deducted from the amount due.

If your project was completed by more than one Trade Ally (example, equipment was purchased from one Trade Ally but installed by another Trade Ally) and the incentive is being paid to you the customer, enter the information of the Trade Ally who installed your equipment in Section 4: Trade Ally Information. If the equipment was self-installed, enter the information of the Trade Ally from whom you purchased the equipment.

Focus on Energy Information

Focus on Energy works with eligible Wisconsin residents and businesses to install cost-effective energy efficiency and renewable energy projects. Focus on Energy information, resources and financial incentives help to implement projects that otherwise would not get completed, or to complete projects sooner than scheduled. Its efforts help Wisconsin residents and businesses manage rising energy costs, promote in-state economic development, protect our environment and control the state's growing demand for electricity and natural gas.

Assignment of Incentives to Other Payee

The Customer for the project site listed on the application may assign their right to participate and receive incentives to Other Payee. The Customer must sign Section 8 and identify the Other Payee in Section 5.

CATALOG GUIDE

Find the FOCUS ON ENERGY® equipment incentives you need in one of the incentive catalogs or applications pictured. All catalogs and applications are available at focusonenergy.com/applications. For custom incentives, visit focusonenergy.com/custom to get started. Still need help? Call us at 800.762.7077 and we will find the correct resources for your needs.

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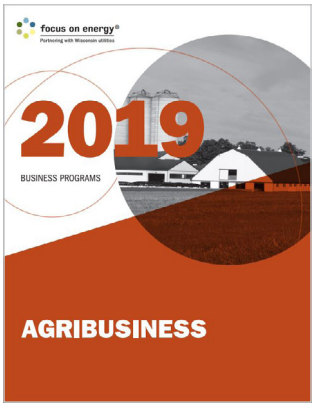
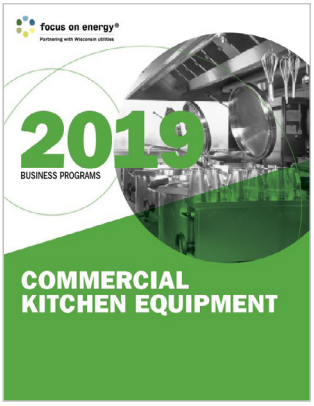
AGRIBUSINESS

- Dairy & Livestock Equipment
- Agribusiness Lighting
- Agribusiness Ventilation
- Agribusiness VFDs and Compressed Air
- Grain Dryers & Irrigation Systems
- Greenhouses



COMMERCIAL KITCHEN EQUIPMENT

- Cooking Equipment
- Commercial Kitchen Ventilation Equipment
- Washing Equipment

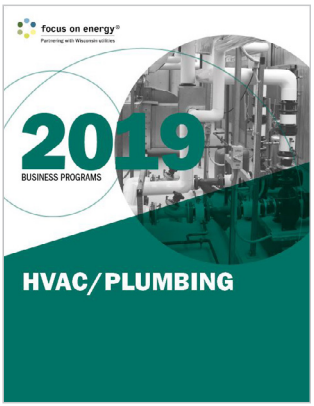


COMMERCIAL REFRIGERATION

- Case Lighting
- Commercial Refrigerators
- Commercial Freezers
- Commercial Ice Machines
- Electronically Commutated Motors
- Energy-Efficient Doors
- Non Self-Contained Controls
- Open Case Modifications
- Self-Contained Controls
- Vending Machines

HVAC/PLUMBING

- Aerators and Showerheads
- Air Sealing
- Boilers
- Boiler Controls and Burners
- Chillers
- Direct Expansion Systems
- Dock Seals and Hinges
- Express Building Tune-Up
- Forced Air and Radiant Heat
- Insulation (pipe and building)
- Steam Systems
- Variable Frequency Drives for HVAC
- Ventilation Upgrades and Controls
- Water Heaters



LIGHTING

- Daylight Controls
- Exterior Area Fixtures
- Exterior Controls
- High Bay and Low Bay
- High Bay Controls
- Interior and Exterior Replacement Lamps
- Linear Ambient
- Networked Lighting Controls
- New Construction
- Non High Bay Controls
- Other Interior and Exterior Fixtures

PROCESS SYSTEMS

- Air Compressors
- Accessories/Ancillary Equipment
- Compressed Air Load Shifting
- Compressed Air Survey Leak and Repair
- Data Center and Telecom Facilities
- Heat Recovery
- Heat Treating
- Plastics
- Process Exhaust Filtration
- Pulp and Paper
- Pumps and Fans (Variable and Constant Torque)
- Steam Trap Maintenance and Replacement
- Variable Frequency Drives for Process

NEW CONSTRUCTION

Interested in NEW CONSTRUCTION incentives? Every catalog can be used to apply for new construction. Look for the YES under the NC column in the measure tables to find qualifying equipment. "New construction" includes new stand-alone facilities, additions to existing facilities, gut/rehab of existing facilities, and major renovations due to a change in use of the space (e.g., warehouse to office).

Qualifying Focus on Energy Trade Allies can also utilize the following offerings:

- Exterior Lighting Optimization (ELO)
- Retrocomissioning (RCx)

Contact **800.762.7077** or visit **focusonenergy.com/trade-allies** to become a registered Trade Ally or find one for your needs.

REDUCING ENERGY WASTE ACROSS WISCONSIN

For more information, call
or visit focusonenergy.com

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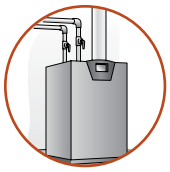
HEATING SYSTEMS

BOILERS

General Requirements: Only natural gas equipment is eligible for incentives. Boilers fueled by electric, propane or oil are NOT eligible for incentives. Redundant or backup boilers do not qualify. Condensing boilers (≥90% AFUE or thermal efficiency) will provide maximum efficiency only if the return water temperature is cool enough to condense flue gases. If the heating system configuration cannot provide necessary operating conditions to the boiler, selection of a non-condensing or near-condensing boiler may be more appropriate.



HOT WATER BOILERS

Requirements:

- Boiler incentives are only available for equipment used in space heating applications. Boilers used for only domestic hot water heating and industrial or process heating are not eligible for this incentive but may qualify for a DHW or custom incentive.
- Space heating boilers also used for DHW may be eligible for indirect DHW incentives but are subject to requirements.
  - In plant systems, boilers are eligible for incentives for their primary use only.
  - A boiler replacing a space heating and indirect DHW system will use the capacity of the existing space heating and DHW systems to estimate the split of incentives.
  - Boilers that only serve DHW are not eligible for the space heating incentives.
- **Boiler efficiency will be verified using the AHRI database (see ahridirectory.org). If the boiler is not listed in the AHRI database, provide a boiler specification sheet with steady state boiler input and output ratings and either AFUE or thermal efficiency as appropriate for boiler size.**
- Steam boilers are not eligible for this incentive but may qualify for a custom incentive.
- Chimney liners must be installed where a high-efficiency natural gas boiler replaces atmospherically drafted equipment that was vented through the same flue as a gas water heater.
- Hot Water Boilers <300 MBh:
  - Must be a sealed combustion unit and ≥90% AFUE.
  - Condensing boilers must modulate their firing rate and include outdoor-air reset control.
- Hot Water Boilers ≥300 MBh:
  - Boilers must be capable of capacity modulation.
  - When replacing a boiler system with both condensing (>90% thermal efficiency) and near condensing (>85% thermal efficiency), use the Hybrid Hot Water Boiler Plant measure.
- Hybrid Hot Water Boiler Plant ≥1,000 MBh:
  - This measure looks at the entire boiler plant capacity. The summation of the capacity for all heating equipment must be ≥1,000 MBh, excluding backup and redundant boilers. The entire plant must be replaced.
  - Boiler plant must include both condensing (≥90% thermal efficiency) and near condensing (85%-89% thermal efficiency) and be capable of capacity modulation.
  - Hybrid boiler plant option must have at a minimum 50% of total heating capacity served by boilers with thermal efficiencies of ≥90%.
  - Hybrid boiler plants must have controls set up to operate condensing boilers when return water temperature allows condensing operation.
  - Boiler plant must have indoor/outdoor reset and staging controls installed for the system.

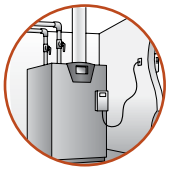
BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Hot Water Boilers <300 MBh, ≥90% AFUE	H2218	$3	MBh	YES
Hot Water Boilers ≥300 MBh input, ≥85% Thermal Efficiency	H3277	$1	MBh	YES
Hot Water Boilers ≥300 MBh input, ≥90% Thermal Efficiency	H3276	$3	MBh	YES
Hot Water Boiler Plant ≥1,000 MBh input, Hybrid Efficiencies	H3275	$2	MBh	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Hot Water Boilers <300 MBh, >90% AFUE	S-H2218	$12	MBh	NO
Hot Water Boilers >300 MBh input, >85% Thermal Efficiency	S-H3277	$6	MBh	NO
Hot Water Boilers >300 MBh input, >90% Thermal Efficiency	S-H3276	$10	MBh	NO
NC = New Construction Eligible?				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Hot Water Boilers <300 MBh, ≥90% AFUE	M-H2743	$500	Boiler	YES
Hot Water Boilers ≥300 MBh input, ≥85% Thermal Efficiency	M-H3277	$1.50	MBh	YES
Hot Water Boilers ≥300 MBh input, ≥90% Thermal Efficiency	M-H3276	$3	MBh	YES
Hot Water Boiler Plant ≥1,000 MBh input, Hybrid Efficiencies	M-H3275	$2	MBh	YES
NC = New Construction Eligible?				

BOILER CONTROLS AND BURNERS

General Requirements: Only natural gas equipment is eligible for incentives. Boilers fueled by electric, propane or oil are NOT eligible for incentives. Redundant or backup boilers do not qualify.



OUTSIDE AIR RESET/CUTOUT CONTROLS

Requirements:

- Outside air temperature boiler reset and cutout control incentives are for retrofit projects only. New boilers equipped with these controls do not qualify.
- System must have an outdoor temperature sensor installed in a shaded location on the north side of the building.
- System must be set up so that the minimum temperature is less than 10°F above boiler manufacturer's recommended minimum return temperature (unless unusual circumstances require a higher setting).
- For controls on multiple boilers to qualify, control strategy must stage the lag boiler(s) only after the first boiler stage(s) fail to maintain the water temperature called for by the reset control.
- Provide capacity of boilers (in MBh) controlled with outside air reset and cutout controls per the example below.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Outside Air Reset/Cutout Controls	H2221	$60	Control	NO
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Outside Air Reset/Cutout Controls	S-H2221	$100	Control	NO
NC = New Construction Eligible?				

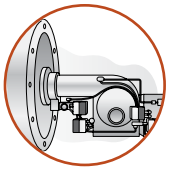
MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Outside Air Reset/Cutout Controls	M-H2221	$100	Control	NO
NC = New Construction Eligible?				

EXAMPLE

Outside Air Reset/Cutout Controls Example

Use this example when applying for outside air reset/cutout controls which also requires boiler capacity in MBh. Please reference this table when filling out SECTION 7 on the Incentive Application.

INCENTIVE CODE	MANUFACTURER NAME	MODEL #	UNIT MEASURE	# OF UNITS (A)	INCENTIVE PER UNIT (B)	TOTAL INCENTIVE (A X B)
H2221	ABC Controls	OA1234	Control	1	$60	$60
--------	--------	Boiler Capacity	MBh	500	--------	--------



BOILER COMBUSTION UPGRADES

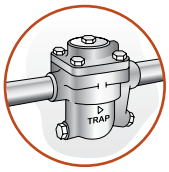
Requirements:

- Incentives for linkageless and O_2 trim controls are available for upgrades to existing boilers only.
- Incentives for High Turndown Burners are available for both retrofit and new construction. However, high turndown burner incentives may not be paired with incentives for a new 90% efficient boiler.
- Boiler must be natural gas-fired, forced-draft boiler used for space heating that operates a minimum of 4,000 hours per year.
- Installation on redundant or backup boilers does not qualify for an incentive.
- Boiler input must be entered in boiler horsepower (BHP). 1 BHP = 33.476 MBh. High turndown burner must be able to provide efficient combustion at a 10:1 turndown ratio.
- **Incentive is capped at 50% of final invoice cost not including any internal labor. Invoices must be attached and include the manufacturer name and model number of linkageless controls, O_2 trim and high turndown burner equipment.**

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Linkageless Controls	H2205	$10	BHP	NO
O_2 Trim Controls	H2206	$5	BHP	NO
High Turndown Burner	H2203	$10	BHP	YES
NC = New Construction Eligible?				

HOT WATER AND STEAM DISTRIBUTION SYSTEMS

General Requirements: Only systems with steam and hot water produced by natural gas equipment (and electric equipment if specifically allowed in the requirements below) are eligible for incentives. Systems with equipment fueled by propane or oil are NOT eligible for incentives. Municipal steam systems (i.e., "city steam") are not a qualifying utility.



STEAM TRAP MAINTENANCE AND REPAIR

Requirements:

- Repair incentive is only available for the repair or replacement of traps that have malfunctioned and are leaking steam. Repair incentive is not available for traps that are failed closed or are plugged.
- Survey and repair incentives will not exceed invoice cost.
- For industrial process steam traps, use the Process Systems Incentive Catalog.
- Surveys are optional. A customer may apply for the repair incentive only to repair or replace known failed steam traps. Repairs do not need to be made at one time, but only one repair incentive per trap can be applied for in a year. Survey incentives are available only once per year per steam system.
- To qualify for the survey incentive, customer must repair or replace one trap for every five traps surveyed. If less than one trap per every five traps surveyed is identified as failed, then all failed traps must be repaired or replaced. In the case where all identified failed traps must be repaired or replaced, customer may provide written explanation for a trap that cannot be repaired or replaced and may still qualify for an incentive.
- Mass replacement of traps can be completed without condition assessment. Focus on Energy will assume that 20% of traps were leaking and pay a repair incentive for 20% of the total traps replaced and no survey incentive.
- For projects that don't complete a steam trap survey, provide the nominal steam pressure (psig) on the application or in other supporting documentation provided with the incentive application.
- Steam trap survey and repair work must be recorded in a log sheet and attached to the application in order to be eligible for the survey incentive. Trade Ally must create and fill in the log as work is completed. Required fields (minimum):
  - ID Tag Number
  - Location Description
  - Nominal Steam Pressure
  - Trap Type
  - Indicate Condition for Each Steam Trap (chose one of the following):
    - Functioning Properly
    - Malfunctioning Not Leaking Steam
    - Malfunctioning Leaking Steam
  - Survey Date/Repair Date
  - Survey/Repair Technician Name
  - Orifice Size (if repaired or replaced)
  - Notes

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Steam Trap Survey	H2225	$4	Steam Trap	NO
< 10 psig General Heating Steam Trap, ≤ 7/32" Orifice	H4004	$25	Steam Trap	NO
< 10 psig General Heating Steam Trap, 1/4" Orifice	H4005	$25	Steam Trap	NO
< 10 psig General Heating Steam Trap, 5/16" Orifice	H4006	$25	Steam Trap	NO
< 10 psig General Heating Steam Trap, ≥ 3/8" Orifice	H4007	$25	Steam Trap	NO
10-49 psig General Heating Steam Trap, ≤ 7/32" Orifice	H4008	$40	Steam Trap	NO
10-49 psig General Heating Steam Trap, 1/4" Orifice	H4009	$40	Steam Trap	NO
10-49 psig General Heating Steam Trap, 5/16" Orifice	H4010	$40	Steam Trap	NO
10-49 psig General Heating Steam Trap, ≥ 3/8" Orifice	H4011	$40	Steam Trap	NO
50-124 psig General Heating Steam Trap, ≤ 7/32" Orifice	H4012	$60	Steam Trap	NO
50-124 psig General Heating Steam Trap, 1/4" Orifice	H4013	$60	Steam Trap	NO
50-124 psig General Heating Steam Trap, 5/16" Orifice	H4014	$60	Steam Trap	NO
50-124 psig General Heating Steam Trap, ≥ 3/8" Orifice	H4015	$60	Steam Trap	NO
125-225 psig General Heating Steam Trap, ≤ 7/32" Orifice	H4016	$100	Steam Trap	NO
125-225 psig General Heating Steam Trap, 1/4" Orifice	H4017	$100	Steam Trap	NO
125-225 psig General Heating Steam Trap, 5/16" Orifice	H4018	$100	Steam Trap	NO
125-225 psig General Heating Steam Trap, ≥ 3/8" Orifice	H4019	$100	Steam Trap	NO
>225 psig General Heating Steam Trap, ≤ 7/32" Orifice	H4020	$160	Steam Trap	NO
>225 psig General Heating Steam Trap, 1/4" Orifice	H4021	$160	Steam Trap	NO
>225 psig General Heating Steam Trap, 5/16" Orifice	H4022	$160	Steam Trap	NO
>225 psig General Heating Steam Trap, ≥ 3/8" Orifice	H4023	$160	Steam Trap	NO
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
< 10 psig General Heating Steam Trap, ≤ 7/32" Orifice	S-H4004	$40	Steam Trap	NO
< 10 psig General Heating Steam Trap, 1/4" Orifice	S-H4005	$40	Steam Trap	NO
< 10 psig General Heating Steam Trap, 5/16" Orifice	S-H4006	$40	Steam Trap	NO
< 10 psig General Heating Steam Trap, ≥ 3/8" Orifice	S-H4007	$40	Steam Trap	NO
NC = New Construction Eligible?				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Steam Trap Survey	M-H2225	$4	Steam Trap	NO
< 10 psig radiator	M-H2772	$25	Steam Trap	NO
< 10 psig General Heating Steam Trap, ≤ 7/32" Orifice	M-H4004	$35	Steam Trap	NO
< 10 psig General Heating Steam Trap, 1/4" Orifice	M-H4005	$35	Steam Trap	NO
< 10 psig General Heating Steam Trap, 5/16" Orifice	M-H4006	$35	Steam Trap	NO
< 10 psig General Heating Steam Trap, ≥ 3/8" Orifice	M-H4007	$35	Steam Trap	NO
10-49 psig General Heating Steam Trap, ≤ 7/32" Orifice	M-H4008	$50	Steam Trap	NO
10-49 psig General Heating Steam Trap, 1/4" Orifice	M-H4009	$50	Steam Trap	NO
10-49 psig General Heating Steam Trap, 5/16" Orifice	M-H4010	$50	Steam Trap	NO
10-49 psig General Heating Steam Trap, ≥ 3/8" Orifice	M-H4011	$50	Steam Trap	NO
NC = New Construction Eligible?				

HEATING HOT WATER PIPE INSULATION

Requirements:

- This incentive is intended for adding insulation to uninsulated hot water piping that is used for space heating.
- **Incentive is not to exceed material cost.**
- Piping 3.0 inch and smaller must install at least 1.0 inch thick insulation.
- Piping greater than 3.0 inch must install at least 1.5 inch thick insulation.
- Hot water system must be used for space heating applications. Other applications may qualify for a custom incentive.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Hot Water Space Heat, ½" and ¾" Pipe, Natural Gas	M-H3685	$2	Ft of Pipe	NO
Hot Water Space Heat, 1" and 1 ¼" Pipe, Natural Gas	M-H3686	$3	Ft of Pipe	NO
Hot Water Space Heat, 1 ½" and 2" Pipe, Natural Gas	M-H3687	$4	Ft of Pipe	NO
Hot Water Space Heat, 3" and 4" Pipe, Natural Gas	M-H3688	$6	Ft of Pipe	NO
Hot Water Space Heat, ½" and ¾" Pipe, Electric	M-H3689	$2	Ft of Pipe	NO
Hot Water Space Heat, 1" and 1 ¼" Pipe, Electric	M-H3690	$3	Ft of Pipe	NO
Hot Water Space Heat, 1 ½" and 2" Pipe, Electric	M-H3691	$4	Ft of Pipe	NO
Hot Water Space Heat, 3" and 4" Pipe, Electric	M-H3692	$6	Ft of Pipe	NO
NC = New Construction Eligible?				

STEAM PIPE INSULATION

Requirements:

- This incentive is for adding insulation to uninsulated steam piping and/or fittings.
- Insulation for fittings must be removable and reusable.
- For business programs: steam piping insulation must be ≥1.5 inches for pipes <1.5 inches in diameter and ≥3 inches for pipes >1.5 inches in diameter.
- **For multifamily: steam piping insulation must have 1.5 inch thick insulation, and incentive is not to exceed material cost.**
- Steam system being insulated must be used for space heating applications. Industrial process applications may be eligible for a custom incentive.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Insulation for Steam Fittings, Natural Gas	H2429	$8	Fitting	NO
Insulation for Steam Pipe, Natural Gas	H2430	$2	Ft of Pipe	NO
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Insulation for Steam Fittings, Natural Gas	S-H2429	$8	Fitting	NO
Insulation for Steam Pipe, Natural Gas	S-H2430	$2	Ft of Pipe	NO
NC = New Construction Eligible?				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Steam Space Heat, ½" and ¾" Pipe, Natural Gas	M-H3751	$2	Ft of Pipe	NO
Steam Space Heat, 1" and 1 ¼" Pipe, Natural Gas	M-H3752	$3	Ft of Pipe	NO
Steam Space Heat, 1 ½" and 2" Pipe, Natural Gas	M-H3753	$4	Ft of Pipe	NO
Steam Space Heat, 3" and 4" Pipe, Natural Gas	M-H3754	$6	Ft of Pipe	NO
Steam Space Heat, ½" and ¾" Pipe, Electric	M-H3755	$2	Ft of Pipe	NO
Steam Space Heat, 1" and 1 ¼" Pipe, Electric	M-H3756	$3	Ft of Pipe	NO
Steam Space Heat, 1 ½" and 2" Pipe, Electric	M-H3757	$4	Ft of Pipe	NO
Steam Space Heat, 3" and 4" Pipe, Electric	M-H3758	$6	Ft of Pipe	NO
NC = New Construction Eligible?				

FORCED AIR AND RADIANT HEAT

General Requirements: Only natural gas equipment is eligible for incentives (and electric equipment if specifically allowed in the requirements below). Equipment fueled by propane or oil is NOT eligible for incentives. Incentives are only available for equipment used in space heating applications. Equipment serving process or other loads does not qualify.

FURNACES

Requirements:

- Eligibility for furnace and single package vertical unit measures is based on customer having both an eligible electric and natural gas provider.
- Furnaces and single package vertical unit must meet the minimum efficiency requirements listed and be a sealed combustion unit. Efficiency ratings will be verified using the AHRI database (ahridirectory.org).
- Furnaces and single package vertical units must have an ECM motor (single speed, multi-speed, or variable speed). Permanent split capacitor motors are not eligible. Air handlers with an ECM motor are not eligible.
- Required features must be documented on a specification sheet.
- Provide capacity of furnace or single package vertical unit (in MBh) on the Incentive Application per the example below.
- For furnaces only:
  - Furnaces must have a multi-stage burner and have at least two firing stages.
  - Chimney liners must be installed where a high-efficiency natural gas furnace replaces an atmospherically drafted furnace and only a water heater remains vented through the chimney. The interior opening left by the removed furnace must be closed with a metal cap and sealed with caulk or mortar.
  - Furnaces listed on the Focus on Energy residential furnace qualified products list does not guarantee the furnace has all features required for business and multifamily incentives.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Furnace with ECM, ≥95%+ AFUE, NG	H3491	$220	Furnace	YES
Furnace with ECM, ≥90%+ AFUE, NG	H3492	$100	Furnace	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Furnace with ECM, ≥95%+ AFUE, NG	S-H3491	$600	Furnace	NO
Furnace with ECM, ≥90%+ AFUE, NG	S-H3492	$300	Furnace	NO
NC = New Construction Eligible?				

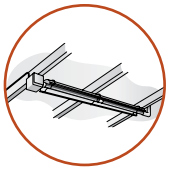
MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Furnace with ECM, ≥95%+ AFUE, NG	M-H3491	$220	Furnace	YES
Single package vertical unit, ≥90%+ Thermal Efficiency, NG, ≥10.0 EER Cooling	M-H3693	$150	Single Package Vertical Unit	YES
Single package vertical unit, ≥90%+ Thermal Efficiency, NG	M-H3694	$100	Single Package Vertical Unit	YES
NC = New Construction Eligible?				

EXAMPLE

Furnace Example

Additional system strategies include variable speed fans and compressor controls to more effectively use the refrigerant and modulate the temperature and amount of cooled air supplied to the space. See economizers, demand controlled ventilation (DCV) and communicating/smart thermostats for additional savings opportunities.

INCENTIVE CODE	MANUFACTURER NAME	MODEL #	UNIT MEASURE	# OF UNITS (A)	INCENTIVE PER UNIT (B)	TOTAL INCENTIVE (A X B)
H3492	XYZ Furnaces	F987A	Furnace	2	$100	$200
--------	--------	Furnace Capacity	MBh	60	--------	--------



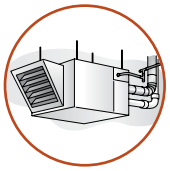
INFRARED HEATERS

Requirements:

- Both low-intensity and high-intensity heaters are eligible.
- Must have electronic ignition.
- Must be vented per manufacturer's requirements.
- Low-intensity heaters must use outside non-conditioned combustion air.
- Excludes outdoor patio heating applications.
- Replacement of an existing infrared heater does not qualify.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Infrared Heater	H2422	$2	MBh	NO
Infrared Heater (NC only)	HN2422	$1	MBh	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Infrared Heater	S-H2422	$8	MBh	NO
NC = New Construction Eligible?				



UNIT HEATERS

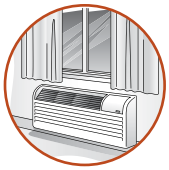
Requirements:

- Unit heater must be an upgrade from a standard efficiency (typically 80%-84% thermal efficiency) unit heater.
- Steam or hot water coils/systems are not eligible. Natural gas fired only.
- Must be vented and condensate drained per manufacturer specifications.
- Direct fired rooftop units/make-up air units are not eligible for this incentive.
- Must replace an existing non-condensing unit heater or be installed instead of a non-condensing unit heater.
- **Provide a manufacturer's specification sheet to document the features and efficiency level of the unit heater.**

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 70°F	H4753	$2	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 65°F	H4754	$2	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 60°F	H4755	$2	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 55°F	H4756	$2	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 70°F (NC only)	HN4753	$1	MBh	YES
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 65°F (NC only)	HN4754	$1	MBh	YES
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 60°F (NC only)	HN4755	$1	MBh	YES
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 55°F (NC only)	HN4756	$1	MBh	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 70°F	S-H4753	$8	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 65°F	S-H4754	$8	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 60°F	S-H4755	$8	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 55°F	S-H4756	$8	MBh	NO
NC = New Construction Eligible?				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 70°F	M-H4753	$2	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 65°F	M-H4754	$2	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 60°F	M-H4755	$2	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 55°F	M-H4756	$2	MBh	NO
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 70°F (NC only)	M-HN4753	$1	MBh	YES
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 65°F (NC only)	M-HN4754	$1	MBh	YES
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 60°F (NC only)	M-HN4755	$1	MBh	YES
Unit Heater, ≥90% Thermal Efficiency, Heating Setpoint = 55°F (NC only)	M-HN4756	$1	MBh	YES
NC = New Construction Eligible?				



PACKAGED TERMINAL HEAT PUMPS (PTHP)

Requirements:

- **Unit must be AHRI listed as a Commercial PTHP.**
- Eligibility for PTHP measures is based on customer having an eligible electric provider.
- Must replace or be instead of a Packaged Terminal Air Conditioner (PTAC). Replacement of existing PTHP does NOT qualify.
- Window and through-the-wall air conditioners/heat pumps do not qualify.
- The equipment size category (BTUh) is the cooling capacity value of the unit.
- Must meet both heating and cooling specifications for the equipment size category.
- All efficiency ratings will be verified using the AHRI database (ahridirectory.org).

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
PTHP <8,000 BTUh, ≥10.7 EER and ≥3.1 COP	H2699	$75	PTHP	NO
PTHP 8,000-9,999 BTUh, ≥10.4 EER and ≥3.0 COP	H2702	$75	PTHP	NO
PTHP 10,000-12,999 BTUh, ≥9.9 EER and ≥2.9 COP	H2701	$75	PTHP	NO
PTHP ≥13,000 BTUh, ≥9.3 EER and ≥2.9 COP	H2700	$75	PTHP	NO
PTHP <8,000 BTUh, ≥12.7 EER and ≥3.1 COP (NC only)	HN2699	$75	PTHP	YES
PTHP 8,000-9,999 BTUh, ≥12.1 EER and ≥3.0 COP (NC only)	HN2702	$75	PTHP	YES
PTHP 10,000-12,999 BTUh, ≥10.9 EER and ≥2.9 COP (NC only)	HN2701	$75	PTHP	YES
PTHP ≥13,000 BTUh, ≥10.3 EER and ≥2.9 COP (NC only)	HN2700	$75	PTHP	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
PTHP <8,000 BTUh, ≥10.7 EER and ≥3.1 COP	S-H2699	$100	PTHP	NO
PTHP 8,000-9,999 BTUh, ≥10.4 EER and ≥3.0 COP	S-H2702	$100	PTHP	NO
PTHP 10,000-12,999 BTUh, ≥9.9 EER and ≥2.9 COP	S-H2701	$100	PTHP	NO
PTHP ≥13,000 BTUh, ≥9.3 EER and ≥2.9 COP	S-H2700	$100	PTHP	NO
NC = New Construction Eligible?				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
PTHP <8,000 BTUh, ≥10.7 EER and ≥3.1 COP	M-H2699	$100	PTHP	NO
PTHP 8,000-9,999 BTUh, ≥10.4 EER and ≥3.0 COP	M-H2702	$100	PTHP	NO
PTHP 10,000-12,999 BTUh, ≥9.9 EER and ≥2.9 COP	M-H2701	$100	PTHP	NO
PTHP ≥13,000 BTUh, ≥9.3 EER and ≥2.9 COP	M-H2700	$100	PTHP	NO
PTHP <8,000 BTUh, ≥12.7 EER and ≥3.1 COP (NC only)	M-HN2699	$100	PTHP	YES
PTHP 8,000-9,999 BTUh, ≥12.1 EER and ≥3.0 COP (NC only)	M-HN2702	$100	PTHP	YES
PTHP 10,000-12,999 BTUh, ≥10.9 EER and ≥2.9 COP (NC only)	M-HN2701	$100	PTHP	YES
PTHP ≥13,000 BTUh, ≥10.3 EER and ≥2.9 COP (NC only)	M-HN2700	$100	PTHP	YES
NC = New Construction Eligible?				

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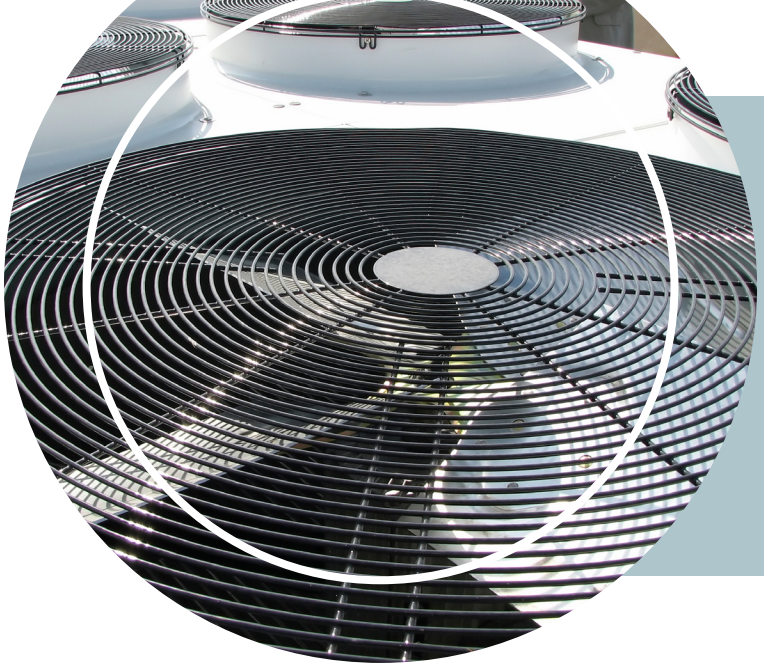
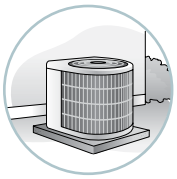
COOLING SYSTEMS



DIRECT EXPANSION (DX) SYSTEMS

General Requirements: For equipment <63.33 tons, all efficiencies will be verified using the AHRI database. Visit ahridirectory.org. For equipment ≥ 63.33 tons, provide manufacturer performance data sheet indicating that ratings are "at AHRI conditions".



AIR CONDITIONING (A/C) SPLIT AND PACKAGED SYSTEMS ≤ 5.42 TONS

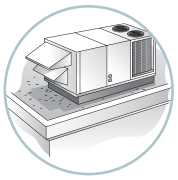
Requirements:

- Incentive is for the installation of high-efficiency split system air conditioning equipment ≤ 5.42 tons (65,000 BTU/hr). Rated AHRI efficiency must meet or exceed minimum SEER and HSPF ratings shown.
- AHRI verified cooling capacity, SEER, and HSPF will be used to calculate the incentive.
- Mini-split/ductless systems that meet these efficiencies and are listed in AHRI with matching indoor unit and outdoor unit configuration also qualify.
- Incentives are for standard HVAC applications only.
  - Rooftop units and split system air conditioners used for industrial process cooling, ice rinks and refrigerated warehouses may qualify for a custom incentive.
  - When used in data centers, rooftop units and split system air conditioners ≤5.42 tons and may be eligible; refer to cooling equipment measures in the Data Center and Telecom Facilities section of the Process Systems catalog.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
15 SEER Split System A/C, ≤ 5.42 tons	H4736	$75	A/C Unit	YES
16 SEER Split System A/C, ≤ 5.42 tons	H4737	$100	A/C Unit	YES
17 SEER Split System A/C, ≤ 5.42 tons	H4738	$125	A/C Unit	YES
18 SEER Split System A/C, ≤ 5.42 tons	H4739	$150	A/C Unit	YES
15 SEER Single Package A/C, ≤ 5.42 tons	H4740	$75	A/C Unit	YES
16 SEER Single Package A/C, ≤ 5.42 tons	H4741	$100	A/C Unit	YES
17 SEER Single Package A/C, ≤ 5.42 tons	H4742	$125	A/C Unit	YES
18 SEER Single Package A/C, ≤ 5.42 tons	H4743	$150	A/C Unit	YES
15 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	H4744	$75	A/C Unit	YES
16 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	H4745	$100	A/C Unit	YES
17 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	H4746	$125	A/C Unit	YES
18 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	H4747	$150	A/C Unit	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
15 SEER Split System A/C, ≤ 5.42 tons	S-H4736	$200	A/C Unit	NO
16 SEER Split System A/C, ≤ 5.42 tons	S-H4737	$250	A/C Unit	NO
17 SEER Split System A/C, ≤ 5.42 tons	S-H4738	$300	A/C Unit	NO
18 SEER Split System A/C, ≤ 5.42 tons	S-H4739	$350	A/C Unit	NO
15 SEER Single Package A/C, ≤ 5.42 tons	S-H4740	$200	A/C Unit	NO
16 SEER Single Package A/C, ≤ 5.42 tons	S-H4741	$250	A/C Unit	NO
17 SEER Single Package A/C, ≤ 5.42 tons	S-H4742	$300	A/C Unit	NO
18 SEER Single Package A/C, ≤ 5.42 tons	S-H4743	$350	A/C Unit	NO
15 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	S-H4744	$200	A/C Unit	NO
16 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	S-H4745	$250	A/C Unit	NO
17 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	S-H4746	$300	A/C Unit	NO
18 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	S-H4747	$350	A/C Unit	NO
NC = New Construction Eligible?				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
15 SEER Split System A/C, ≤ 5.42 tons	M-H4736	$150	A/C Unit	YES
16 SEER Split System A/C, ≤ 5.42 tons	M-H4737	$200	A/C Unit	YES
17 SEER Split System A/C, ≤ 5.42 tons	M-H4738	$250	A/C Unit	YES
18 SEER Split System A/C, ≤ 5.42 tons	M-H4739	$300	A/C Unit	YES
15 SEER Single Package A/C, ≤ 5.42 tons	M-H4740	$150	A/C Unit	YES
16 SEER Single Package A/C, ≤ 5.42 tons	M-H4741	$200	A/C Unit	YES
17 SEER Single Package A/C, ≤ 5.42 tons	M-H4742	$250	A/C Unit	YES
18 SEER Single Package A/C, ≤ 5.42 tons	M-H4743	$300	A/C Unit	YES
15 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	M-H4744	$150	A/C Unit	YES
16 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	M-H4745	$200	A/C Unit	YES
17 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	M-H4746	$250	A/C Unit	YES
18 SEER and 9.0 HSPF Heat Pump, ≤ 5.42 tons	M-H4747	$300	A/C Unit	YES
NC = New Construction Eligible?				



AIR CONDITIONING (A/C) SPLIT AND PACKAGED SYSTEMS > 5.42 TONS

Requirements:

- **Complete Table A1 of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For the "Part Load Eff. To Qualify" column, use the IEER value listed in the Measure Description below. Example: for a 7.50 ton unit, the "Part Load Eff. To qualify" would be 13.8 IEER.
  - For the Delta Efficiency column, use AHRI Rated Part Load Efficiency – Part Load Eff. To Qualify.
  - For the Incentive Rate column, use Additional Incentive + Base Incentive.
  - For the Total Incentive column, use AHRI Rated Capacity x Incentive Rate.
  - Only complete 1 line of supplemental data sheet if multiple of the exact same model number were installed.
  - Provided capacity and performance values to two decimal places.
- Incentive is for the installation of high-efficiency packaged rooftop units and split system air conditioning equipment > 5.42 tons (65,000 BTU). The base incentive rate for meeting the minimum efficiency is $30/ton (business and multifamily) or $50/ton (small business), with an additional $5/ton (all programs) for each 1.0 IEER that the cooling system exceeds the minimum efficiency.
- Incentives are for standard HVAC applications only. Rooftop units and split system air conditioners used for industrial process cooling, data centers, ice rinks and refrigerated warehouses may qualify for a custom incentive.
- Rated AHRI efficiency must meet or exceed minimum ratings shown for EER and IEER. AHRI-verified cooling capacity and IEER will be used to calculate the incentive.
  - Equipment > 63.33 tons is not listed in ahridirectory.org. For this equipment, provide a manufactuer performance that indicates ratings are "at AHRI conditions".
- For multiple of the exact same model number, complete the Incentive Application as follows: enter qty @ tons each in the # of Units column (example: 3 @ 11.50).
- For split systems:
  - Performance data must be for the "Matched Air Handler" or "Complete System" that includes the condensing unit, evaporator coil, and supply fan. If this data is not available in ahridirectory.org, the manufacturer or trade ally must provide modeled or calculated performance data at AHRI conditions for the "complete system", including expected capacity and EER, to be eligible for this measure.
  - "Condensing Unit Only" performance data is not acceptable to qualify for this incentive. If only the condensing unit is replaced or the "condensing unit only" performance data is all that is available, use Split System Air Conditioning - Condensing Unit Only incentive (H3909).
  - Both the condenser and evaporator coils must be replaced. Refrigerant line diameters must meet manufacturer specifications.
  - Must include evaporator coil model number.

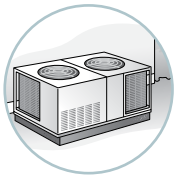
BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
DX Cooling ≥ 5.42 to < 11.25 tons, Min. Eff. = 12.0 EER and 13.8 IEER (additional incentive on IEER)	H4368*	$30+	Ton	YES
DX Cooling ≥ 11.25 to < 20.00 tons, Min. Eff. = 12.0 EER and 13.0 IEER (additional incentive on IEER)	H4369*	$30+	Ton	YES
DX Cooling ≥ 20.00 to < 63.33 tons, Min. Eff. = 10.3 EER and 12.1 IEER (additional incentive on IEER)	H4370*	$30+	Ton	YES
DX Cooling ≥ 63.33 tons, Min. Eff. = 9.7 EER and 11.4 IEER (additional incentive on IEER)	H4371*	$30+	Ton	YES
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
DX Cooling ≥ 5.42 to < 11.25 tons, Min. Eff. = 12.0 EER and 13.8 IEER (additional incentive on IEER)	S-H4368*	$50+	Ton	NO
DX Cooling ≥ 11.25 to < 20.00 tons, Min. Eff. = 12.0 EER and 13.0 IEER (additional incentive on IEER)	S-H4369*	$50+	Ton	NO
DX Cooling ≥ 20.00 to < 63.33 tons, Min. Eff. = 10.3 EER and 12.1 IEER (additional incentive on IEER)	S-H4370*	$50+	Ton	NO
DX Cooling ≥ 63.33 tons, Min. Eff. = 9.7 EER and 11.4 IEER (additional incentive on IEER)	S-H4371*	$50+	Ton	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
DX Cooling ≥ 5.42 to < 11.25 tons, Min. Eff. = 12.0 EER and 13.8 IEER (additional incentive on IEER)	M-H4368*	$30+	Ton	YES
DX Cooling ≥ 11.25 to < 20.00 tons, Min. Eff. = 12.0 EER and 13.0 IEER (additional incentive on IEER)	M-H4369*	$30+	Ton	YES
DX Cooling ≥ 20.00 to < 63.33 tons, Min. Eff. = 10.3 EER and 12.1 IEER (additional incentive on IEER)	M-H4370*	$30+	Ton	YES
DX Cooling ≥ 63.33 tons, Min. Eff. = 9.7 EER and 11.4 IEER (additional incentive on IEER)	M-H4371*	$30+	Ton	YES
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

PRO TIP

Additional system strategies include variable speed fans and compressor controls to more effectively use the refrigerant and modulate the temperature and amount of cooled air supplied to the space. See economizers, demand controlled ventilation (DCV) and communicating/smart thermostats for additional savings opportunities.



SPLIT SYSTEM AIR CONDITIONING – CONDENSING UNIT ONLY

Requirements:

- **Complete Table A2 of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For the "Min. Eff. To Qualify" column, use the value listed in the Measure Description below (11.1 EER).
  - For the Delta Efficiency column, use AHRI Rated Full Load Efficiency – Min. Eff. To Qualify.
  - For the Incentive Rate column, use Additional Incentive + Base Incentive.
  - For the Total Incentive column, use AHRI Rated Capacity x Incentive Rate.
  - Only complete 1 line of supplemental data sheet if multiple of the exact same model number were installed.
- Incentive is for the installation of high-efficiency condensing units for use in split system air conditioning systems. The base incentive rate for meeting the minimum efficiency is $25/ton (Business and Multifamily) or $40/ton (Small Business), with an additional $5/ton incentive (all programs) for each 1.0 EER that the cooling system exceeds the minimum efficiency. For example, a 15.00 ton, 11.7 EER condensing unit for a business would be eligible for a $25/ton + 0.6 EER over minimum * $5/ton = $28/ton incentive.
- Incentives are for standard HVAC applications only. Condensing units used for industrial process cooling, data centers, ice rinks and refrigerated warehouses may qualify for a custom incentive.
- Rated AHRI efficiency must meet or exceed minimum ratings shown for EER. AHRI-verified cooling capacity and EER will be used to calculate the incentive.
  - Equipment ≥20.83 tons is not listed in the ahridirectory.org. For this equipment, provide manufacturer performance data sheet that indicates ratings are "at AHRI conditions".
- For multiple of the exact same model number, complete the Incentive Application as follows: enter qty @ tons each in the # of Units column (example: 3 @ 11.50).
- Condensing units may be included in the Split and Packaged Systems Incentives (H4368, H4369, H4370, H4371) or the Condensing Unit Only Incentives (H3909), but not both.

BUSINESS INCENTIVES

Measure Description	Code	Incentive	Unit	NC
Split System A/C Condensing Unit Only, ≥11.25 tons, ≥ 11.1 EER	H3909*	$25+	Ton	YES

*** Supplemental Data Sheet needed** **NC = New Construction Eligible?**

SMALL BUSINESS INCENTIVES

Measure Description	Code	Incentive	Unit	NC
Split System A/C Condensing Unit Only, ≥11.25 tons, ≥ 11.1 EER	S-H3909*	$40+	Ton	NO

*** Supplemental Data Sheet needed** **NC = New Construction Eligible?**

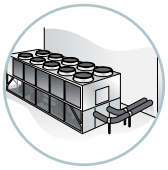
MULTIFAMILY INCENTIVES

Measure Description	Code	Incentive	Unit	NC
Split System A/C Condensing Unit Only, ≥11.25 tons, ≥ 11.1 EER	M-H3909*	$25+	Ton	YES

*** Supplemental Data Sheet needed** **NC = New Construction Eligible?**

CHILLERS

General Requirements: Chillers purchased or installed for backup or redundant systems are not eligible. Chiller components, such as motors and variable frequency drives (VFD), are incented as part of the chiller package and are not independently eligible for prescriptive incentives during a chiller replacement.



AIR-COOLED CHILLERS

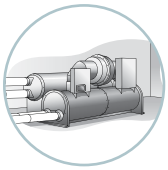
Requirements:

- **Complete Table B1 and B2 of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For Annual Hours of Chiller Operation, enter total hours per year when chiller is enabled by control system to provide cooling for all or a portion of the building.
  - For the "Max Full Load" and "Max Part Load (IPLV)" columns, use the values listed in the Measure Description below.
  - For the "Delta Efficiency" column, use: ("Max Full Load"– "AHRI Rated Full Load Efficiency") + ("Max Part Load (IPLV)" – "AHRI Rated Part Load Efficiency").
  - The "Additional Incentive" is the "Delta Efficiency" x $150/ton for all programs. The incentive increases as the full and part load kW/ton exceed the minimum requirements.
  - The "Base Incentive" is listed in the incentive tables below ($8/ton or $15/ton depending on the program).
  - The "Incentive Rate" is: "Base Incentive" + "Additional Incentive".
  - The "Total Incentive" is: AHRI Rated Capacity x "Incentive Rate".
- Chillers must be air cooled and driven by an electric motor. Absorption chillers, engine driven and steam turbine driven chillers are not eligible for this incentive but may be eligible for a custom incentive.
- **Manufacturer specification sheets for items installed must be submitted with the completed Incentive Application.** Chiller specification sheets must include performance data, including full load efficiency in kW/ton, IPLV value in kW/ton and capacity in tons at AHRI standard rating conditions per AHRI Standard 550/590 test procedures.
- "Path A" refers to chillers that are optimized for full load applications, while "Path B" refers to chillers that are optimized for part load applications.
- Incentives are calculated based on performance data (including capacity) at AHRI standard rating conditions.
- The full product identification/model number must be shown on the AHRI specification sheets and invoices.
- Equipment must meet both full load efficiency and part load efficiency.
- Equipment must be purchased and operating prior to submitting an Incentive Application form (unless submitting for pre-approval).
- Electric chiller incentives are only available for HVAC space cooling applications. Chillers used for industrial process cooling, ice rinks, data centers and refrigerated warehouses may qualify for a custom incentive.
- Provide all kW/ton values to 3 decimal places and round appropriately (e.g., enter 1.1421 kW/ton as 1.142 kW/ton).

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Air-Cooled <150 tons, Path A, Full Load ≤1.160 kW/ton, Part Load ≤0.880 kW/ton	H4712*	$8+	Ton	YES
Air-Cooled ≥150 tons, Path A, Full Load ≤1.160 kW/ton, Part Load ≤0.860 kW/ton	H4713*	$8+	Ton	YES
Air-Cooled <150 tons, Path B, Full Load ≤1.240 kW/ton, Part Load ≤0.730 kW/ton	H4714*	$8+	Ton	YES
Air-Cooled ≥150 tons, Path B, Full Load ≤1.240 kW/ton, Part Load ≤0.720 kW/ton	H4715*	$8+	Ton	YES
*** Supplemental Data Sheet needed NC = New Construction Eligible?**				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Air-Cooled <150 tons, Path A, Full Load ≤1.160 kW/ton, Part Load ≤0.880 kW/ton	S-H4712*	$15+	Ton	NO
Air-Cooled <150 tons, Path B, Full Load ≤1.240 kW/ton, Part Load ≤0.730 kW/ton	S-H4714*	$15+	Ton	NO
*** Supplemental Data Sheet needed NC = New Construction Eligible?**				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Air-Cooled <150 tons, Path A, Full Load ≤1.160 kW/ton, Part Load ≤0.880 kW/ton	M-H4712*	$8+	Ton	YES
Air-Cooled ≥150 tons, Path A, Full Load ≤1.160 kW/ton, Part Load ≤0.860 kW/ton	M-H4713*	$8+	Ton	YES
Air-Cooled <150 tons, Path B, Full Load ≤1.240 kW/ton, Part Load ≤0.730 kW/ton	M-H4714*	$8+	Ton	YES
Air-Cooled ≥150 tons, Path B, Full Load ≤1.240 kW/ton, Part Load ≤0.720 kW/ton	M-H4715*	$8+	Ton	YES
*** Supplemental Data Sheet needed NC = New Construction Eligible?**				



WATER-COOLED CHILLERS

Requirements:

- **Complete Table B1 and B2 of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For Annual Hours of Chiller Operation, enter total hours per year when chiller is enabled by control system to provide cooling for all or a portion of the building.
  - For the "Max Full Load" and "Max Part Load (IPLV)" columns, use the values listed in the Measure Description below.
  - For the "Delta Efficiency" column, use: ("Max Full Load"– "AHRI Rated Full Load Efficiency") + ("Max Part Load (IPLV)" – "AHRI Rated Part Load Efficiency").
  - The "Additional Incentive" is the "Delta Efficiency" x $150/ton for all programs. The incentive increases as the full and part load kW/ton exceed the minimum requirements.
  - The "Base Incentive" is listed in the incentives table below ($8/ton to $15/ton depending on the program).
  - The "Incentive Rate" is: "Base Incentive" + "Additional Incentive".
  - The "Total Incentive" is: AHRI Rated Capacity x "Incentive Rate".
- Chillers must be water cooled and driven by an electric motor. Absorption chillers, engine driven and steam turbine driven chillers are not eligible for this incentive, but may be eligible for a custom incentive.
- **Manufacturer specification sheets for items installed must be submitted with the completed Incentive Application.** Chiller specification sheets must include performance data, including full load efficiency in kW/ton, IPLV values in kW/ton and capacity on tons at AHRI standard rating conditions per AHRI Standard 550/590 test procedures.
- Incentives are calculated based on performance data (including capacity) at AHRI standard rating conditions.
- The full product identification/model number must be shown on the AHRI specification sheets and invoices.
- Equipment must meet both full load efficiency and part load efficiency.
- Equipment must be purchased and operating prior to submitting an Incentive Application form (unless submitting for pre-approval).
- Electric chiller incentives are only available for HVAC space cooling applications. Chillers used for industrial process cooling, ice rinks, data centers, and refrigerated warehouses may qualify for a custom incentive.
- Provide all kW/ton values to 3 decimal places and round appropriately (e.g., enter 0.6421 kW/ton as 0.642 kW/ton).

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Positive Displacement Water-Cooled, Path A, <75 tons, Full Load ≤0.720 kW/ton and Part Load ≤0.600 kW/ton	H4716*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path A, ≥75 tons and <150 tons, Full Load ≤0.690 kW/ton and Part Load ≤0.560 kW/ton	H4717*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path A, ≥150 tons and < 300 tons, Full Load ≤0.630 kW/ton and Part Load ≤0.540 kW/ton	H4718*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path A, ≥300 tons and <600 tons, Full Load ≤0.580 kW/ton and Part Load ≤0.520 kW/ton	H4719*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path A, ≥600 tons, Full Load ≤0.530 kW/ton and Part Load ≤0.500 kW/ton	H4720*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, <150 tons, Full Load ≤0.580 kW/ton and Part Load ≤0.550 kW/ton	H4726*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, ≥150 tons and <300 tons, Full Load ≤0.580 kW/ton and Part Load ≤0.550 kW/ton	H4727*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, ≥300 tons and <400 tons, Full Load ≤0.530 kW/ton and Part Load ≤0.520 kW/ton	H4728*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, ≥400 tons and <600 tons, Full Load ≤0.530 kW/ton and Part Load ≤0.500 kW/ton	H4729*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, ≥600 tons, Full Load ≤0.530 kW/ton and Part Load ≤0.500 kW/ton	H4730*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, <75 tons, Full Load ≤0.780 kW/ton and Part Load ≤0.470 kW/ton	H4721*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, ≥75 tons and <150 tons, Full Load ≤0.750 kW/ton and Part Load ≤0.460 kW/ton	H4722*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, ≥150 tons and <300 tons, Full Load ≤0.680 kW/ton and Part Load ≤0.410 kW/ton	H4723*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, ≥300 tons and <600 tons, Full Load ≤0.625 kW/ton and Part Load ≤0.380 kW/ton	H4724*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, ≥600 tons, Full Load ≤0.585 kW/ton and Part Load ≤0.350 kW/ton	H4725*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B <150 tons, Full Load ≤0.695 kW/ton and Part Load ≤0.410 kW/ton	H4731*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B ≥150 tons and <300 tons, Full Load ≤0.635 kW/ton and Part Load ≤0.370 kW/ton	H4732*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B ≥300 tons and <400 tons, Full Load ≤0.595 kW/ton and Part Load ≤0.360 kW/ton	H4733*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B ≥400 tons and <600 tons, Full Load ≤0.585 kW/ton and Part Load ≤0.350 kW/ton	H4734*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B ≥600 tons, Full Load ≤0.585 kW/ton and Part Load ≤0.350 kW/ton	H4735*	$8+	Ton	YES
*** Supplemental Data Sheet needed NC = New Construction Eligible?**				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Positive Displacement Water-Cooled, Path A, <75 tons, Full Load ≤0.720 kW/ton and Part Load ≤0.600 kW/ton	S-H4716*	$15+	Ton	NO
Positive Displacement Water-Cooled, Path A, ≥75 tons and ≤150 tons, Full Load ≤0.690 kW/ton and Part Load ≤0.560 kW/ton	S-H4717*	$15+	Ton	NO
Centrifugal Water-Cooled, Path A, <150 tons, Full Load ≤0.580 kW/ton and Part Load ≤0.550 kW/ton	S-H4726*	$15+	Ton	NO
Positive Displacement Water-Cooled, Path B, <75 tons, Full Load ≤0.780 kW/ton and Part Load ≤0.470 kW/ton	S-H4721*	$15+	Ton	NO
Positive Displacement Water-Cooled, Path B, ≥75 tons and ≤150 tons, Full Load ≤0.750 kW/ton and Part Load ≤0.460 kW/ton	S-H4722*	$15+	Ton	NO
Centrifugal Water-Cooled, Path B, <150 tons, Full Load ≤0.695 kW/ton and Part Load ≤0.410 kW/ton	S-H4731*	$15+	Ton	NO
*** Supplemental Data Sheet needed NC = New Construction Eligible?**				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Positive Displacement Water-Cooled, Path A, <75 tons, Full Load ≤0.720 kW/ton and Part Load ≤0.600 kW/ton	M-H4716*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path A, ≥75 tons and <150 tons, Full Load ≤0.690 kW/ton and Part Load ≤0.560 kW/ton	M-H4717*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path A, ≥150 tons and < 300 tons, Full Load ≤0.630 kW/ton and Part Load ≤0.540 kW/ton	M-H4718*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path A, ≥300 tons and <600 tons, Full Load ≤0.580 kW/ton and Part Load ≤0.520 kW/ton	M-H4719*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path A, ≥600 tons, Full Load ≤0.530 kW/ton and Part Load ≤0.500 kW/ton	M-H4720*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, <150 tons, Full Load ≤0.580 kW/ton and Part Load ≤0.550 kW/ton	M-H4726*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, ≥150 tons and <300 tons, Full Load ≤0.580 kW/ton and Part Load ≤0.550 kW/ton	M-H4727*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, ≥300 tons and <400 tons, Full Load ≤0.530 kW/ton and Part Load ≤0.520 kW/ton	M-H4728*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, ≥400 tons and <600 tons, Full Load ≤0.530 kW/ton and Part Load ≤0.500 kW/ton	M-H4729*	$8+	Ton	YES
Centrifugal Water-Cooled, Path A, ≥600 tons, Full Load ≤0.530 kW/ton and Part Load ≤0.500 kW/ton	M-H4730*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, <75 tons, Full Load ≤0.780 kW/ton and Part Load ≤0.470 kW/ton	M-H4721*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, ≥75 tons and <150 tons, Full Load ≤0.750 kW/ton and Part Load ≤0.460 kW/ton	M-H4722*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, ≥150 tons and <300 tons, Full Load ≤0.680 kW/ton and Part Load ≤0.410 kW/ton	M-H4723*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, ≥300 tons and <600 tons, Full Load ≤0.625 kW/ton and Part Load ≤0.380 kW/ton	M-H4724*	$8+	Ton	YES
Positive Displacement Water-Cooled, Path B, ≥600 tons, Full Load ≤0.585 kW/ton and Part Load ≤0.350 kW/ton	M-H4725*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B <150 tons, Full Load ≤0.695 kW/ton and Part Load ≤0.410 kW/ton	M-H4731*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B ≥150 tons and <300 tons, Full Load ≤0.635 kW/ton and Part Load ≤0.370 kW/ton	M-H4732*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B ≥300 tons and <400 tons, Full Load ≤0.595 kW/ton and Part Load ≤0.360 kW/ton	M-H4733*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B ≥400 tons and <600 tons, Full Load ≤0.585 kW/ton and Part Load ≤0.350 kW/ton	M-H4734*	$8+	Ton	YES
Centrifugal Water-Cooled, Path B ≥600 tons, Full Load ≤0.585 kW/ton and Part Load ≤0.350 kW/ton	M-H4735*	$8+	Ton	YES
*** Supplemental Data Sheet needed NC = New Construction Eligible?**				

PRO TIP

Chillers are typically sized for the hottest day of the year but run at much less than full capacity the majority of the time. Selecting a chiller with excellent part-load performance and good loading and unloading characteristics will help maximize energy efficiency.

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NOTES

REDUCING ENERGY WASTE ACROSS WISCONSIN

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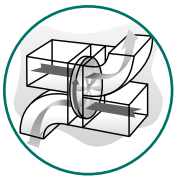
VENTILATION AND CONTROLS

VENTILATION UPGRADES

General Requirements: Please see information below for requirements specific to each technology.



ENERGY RECOVERY VENTILATORS (ERV)

Requirements:

- **Complete Table C of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - Please provide efficiency of the building's cooling and heating systems to two decimal places. This information will not affect ERV incentive. If the heating or cooling efficiency of equipment for space served by the ERV is unknown, provide the manufacturer's name and model instead.
  - For Winter and Summer Effectiveness, use the Net Total % Effectiveness at 100% flow from AHRI database.
- Incentive intended for standard HVAC applications only; other applications such as industrial process heat recovery may be eligible for a custom incentive.
- Areas served by ERVs must be air conditioned during the periods of June through August from 1 to 4 p.m. on weekdays and heated during the winter by natural gas or electric from a participating utility. If this requirement is not met, the project may be eligible for a custom incentive.
- Replacement of existing ERV and use of ERV where required by state code does NOT qualify.
- **Equipment must be AHRI certified to Standard 1060 (see ahridirectory.org). Equipment must bear the AHRI certification symbol for AHRI air-to-air energy recovery ventilation equipment certification program based on AHRI 1060. Systems with ASHRAE or other independent testing may be eligible for custom incentives.**
- All efficiency ratings (supply airflow, summer and winter effectiveness) will be verified using the AHRI database (ahridirectory.org). **AHRI-rated supply CFM will be used to calculate the incentive.**
- Custom engineered ERVs, and ERVs integral to packaged rooftop units or air handlers which use AHRI certified heat exchangers must provide documentation (supply airflow, summer and winter effectiveness, manufacturer, model number) specific to the heat exchanger component within the overall system.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Energy Recovery Ventilator	H2314*	$0.75	CFM	YES
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Energy Recovery Ventilator	S-H2314*	$1.50	CFM	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Energy Recovery Ventilator	M-H2314*	$0.75	CFM	YES
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

PRO TIP

Facilities with large quantities of exhaust air or long hours of operation can use ERVs to recover between 50% and 85% of the cooling and heating energy that would otherwise be lost. An ERV designed to exchange both latent and sensible energy will precool and dehumidify outside ventilation air during the cooling season while preheating and humidifying during the heating season.

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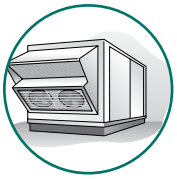


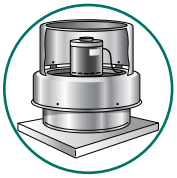
ECONOMIZERS

Requirements:

- **Complete Table D of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For the "Space Type" column, enter a short descriptor of the space type, such as office, retail, school classrooms, gym, etc.
  - For the "Area Served" column, enter the square feet of building space served by the rooftop unit (RTU) receiving the economizer.
  - For the "AHU Controls" column, enter "No Setback," "EMS" for energy management system or "T-Stat" for programmable thermostat.
  - Provide capacity and performance values to two decimal places.
- This incentive is for the addition of an economizer to an existing RTU.
- Economizers attached to RTUs with single stage compressors should be controlled by advanced thermostats with integrated economizer controls that allow an economizer stage as the first stage.
- Economizers should be set up with a changeover point of 60°F in order to maximize savings.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Economizer (Existing RTU Only)	H3066*	$200	RTU	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Economizer (Existing RTU Only)	S-H3066*	$200	RTU	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			



ELECTRONICALLY COMMUTATED MOTOR (ECM) HVAC FAN MOTORS

Requirements:

- This incentive is for the installation of an electronically commutated motor (ECM) ≤1 HP on air handling equipment such as exhaust fans, fan coil units, fan powered VAV boxes, unit heaters, and cabinet heaters.
- Furnaces with ECM and single package vertical units with ECM do not qualify for this incentive, as the ECM is already covered by the Furnace measures in the Forced Air and Radiant Heat section of this catalog.
- Choose the measure code from the table below depending on when the fan operates: "heating only" for equipment that only runs during the heating season, "cooling only" for equipment that only runs during the cooling season, "occupied ventilation" for equipment that runs during the heating and cooling season or for scheduled exhaust fans, and "24/7 ventilation" for fans that run continuously.
- New motors may be an upgrade or replace either shaded pole or permanent split capacitor motors. Not for routine replacement of existing ECM.
- A manufacturer specification sheet that includes motor HP must be provided.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
HVAC Fan with ECM, Heating Only	H3910	$25	Motor	NO
HVAC Fan with ECM, Cooling Only	H3911	$25	Motor	NO
HVAC Fan with ECM, Occupied Ventilation	H3912	$25	Motor	NO
HVAC Fan with ECM, 24/7 ventilation	H3913	$25	Motor	NO
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
HVAC Fan with ECM, Heating Only	S-H3910	$75	Motor	NO
HVAC Fan with ECM, Cooling Only	S-H3911	$75	Motor	NO
HVAC Fan with ECM, Occupied Ventilation	S-H3912	$75	Motor	NO
HVAC Fan with ECM, 24/7 ventilation	S-H3913	$75	Motor	NO
NC = New Construction Eligible?				

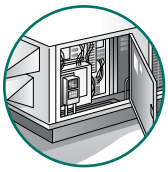
MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
HVAC Fan with ECM, Heating Only	M-H3910	$25	Motor	NO
HVAC Fan with ECM, Cooling Only	M-H3911	$25	Motor	NO
HVAC Fan with ECM, Occupied Ventilation	M-H3912	$25	Motor	NO
HVAC Fan with ECM, 24/7 ventilation	M-H3913	$25	Motor	NO
NC = New Construction Eligible?				

PRO TIP

Dry-bulb-type economizers can be set to 60˚F to maximize free cooling and reduce mechanical cooling run time. Enthalpy-controlled economizers can be set to 70˚F and will account for both temperature and humidity of the outside air.

CONTROLS

General Requirements: Please see information below for requirements specific to each technology.



ADVANCED ROOFTOP UNIT CONTROLLERS

Requirements:

- **Complete Table E of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For the "Nominal Cooling Capacity" column, enter the manufacturer's nominal capacity in tons to two decimal places.
  - For the "Fan HP" column, enter the fan HP.
  - For the "Economizer Operational?" column, enter "Yes" or "No".
  - For the "Weekday Open / Close Times", "Saturday Open / Close Times", and "Sunday Open / Close Times" columns, enter the time the facility opens and the time the facility closes, and include AM or PM. If the facility is closed for a specific day, note that rather than entering an open and close time.
- Existing rooftop units to be controlled must be constant volume units with single speed supply fan and have direct expansion cooling with either natural gas or electric heating. Rooftop units must also have a functioning economizer, have a ≥ 1.0 HP supply fan, and have ≥ 7 nominal tons of cooling.
- Advanced rooftop unit controllers must provide:
  - Multispeed or variable speed control of the supply fan
  - Modulating outdoor air damper control to maintain proper ventilation rates according to ASHRAE Standard 62.1 under different fan speeds
  - Demand control ventilation (DCV) to modulate outdoor air supplied to the building
  - Integrated economizer functionality (stages on and off as needed)
- Projects installing advanced rooftop unit controllers cannot also apply for the prescriptive incentives for DCV and variable frequency drives.
- Incentive is available for installation of advanced rooftop unit controllers on existing units or for new replacement rooftop units on existing buildings. Advanced rooftop unit controllers are not eligible when installed on a new replacement rooftop unit if the old rooftop unit had advanced rooftop unit controls.
- **A list of qualified advanced rooftop unit controllers can be found on focusonenergy.com/qpls. If a proposed advanced rooftop unit controller solution is not on the qualified products list, contact Focus on Energy prior to initiating the project to confirm the solution will qualify.**
- Focus on Energy reserves the right to complete a pre-inspection or post-inspection if necessary to confirm eligibility.
- Eligibility for advanced rooftop unit measure is based on customer having both an eligible electric and natural gas utility, unless applying for rooftop units with electric heat, in which case only an eligible electric utility is required. Customers with only an eligible natural gas utility or an eligible electric utility (without electric heat rooftop units) may qualify for custom incentives.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Advanced Rooftop Unit Controllers	H3964*	$135	Ton	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Advanced Rooftop Unit Controllers	S-H3964*	$175	Ton	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Advanced Rooftop Unit Controllers	M-H3964*	$135	Ton	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

DEMAND CONTROL VENTILATION (DCV)

Requirements:

- **Complete Table F of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For the "Space Cooling Type" column, enter "DX," "Air-Cooled Chiller," "Water-Cooled Chiller," "None" or other type of cooling system as appropriate.
  - For the "Space Heating Type" column, enter "Gas," "Hot Water," "Steam," "Electric Resistance," "Electric Heat Pump" or other type of heating system as appropriate. For "Steam," steam must be on-site generated.
  - For the "Area Served Type" column, enter a short descriptor of the space type, such as office, retail, school classrooms, gym, etc.
  - For the "Economizer" column, enter "DB" for dry bulb, "Enthalpy" or "None".
  - For the "AHU Controls" column, enter "No Setback," "EMS" for energy management system or "T-Stat" for programmable thermostat.
- For air handling unit (AHU), DCV controls must measure CO_2 levels in the conditioned space and provide the required level of outside air without over-ventilating. Sensors should be wall-mounted at an appropriate height within the space. Sensors may be installed in return air ductwork only if space mounting is not possible and the return duct serves a single zone.
- Single zone rooftop unit (RTU) DCV controls must measure CO_2 levels in the conditioned space or return air ductwork for the zone served and provide the required level of outside air without over-ventilating.
- Spaces controlled by DCV must be heated with natural gas or electricity from a participating utility, but are not required to be air conditioned. DCV installations required by code are not eligible.
- DCV for AHU measure is intended for central air handling units which have multiple individually controlled spaces and will require multiple zone-level CO_2 sensors.
- Single zone RTUs must apply using the DCV for Single Zone RTU measure (H3266) and are not eligible under the DCV for AHU measure (H2853).
- All installations must comply with code requirements for ventilation.
- Incentive is per CFM of outside air when not in economizer mode, not total CFM provided by the AHU or RTU. Typically outside airflow should be ≤ 30% of total supply airflow.
- **Incentives cannot exceed 50% of project cost.**
- If system is custom-built using a CO_2 sensor and the buildings existing automation system, provide a copy of the control sequence that was programmed into the building automation system.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
DCV for AHU	H2853*	$0.20	CFM	YES
DCV for Single Zone RTU/AHU	H3266*	$350	RTU	YES
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
DCV for AHU	S-H2853*	$0.40	CFM	NO
DCV for Single Zone RTU/AHU	S-H3266*	$500	RTU	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

PRO TIP Spaces with large variations in occupancy are great candidates for DCV. Controls allow the HVAC system to determine the proper level of ventilation without creating unnecessary heating and cooling loads.

PRO TIP CO_2 sensors with a 2% accuracy rating are recommended for long term reliability.

GUEST ROOM ENERGY MANAGEMENT

Requirements:

- **If the heating/cooling system is Packaged Terminal Air Conditioner (PTAC) units with electric resistance heating, no supplemental data is needed. If the heating/cooling system is anything else, then complete Table G of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For the "HVAC System Type" column, enter "PTAC w/ other heat option," "Water Source Heat Pump" or "Fan Coil."
  - For the "Heating System Source" column enter "Hot Water Boiler," "Steam Boiler," "City Steam," etc.
  - For the "Cooling System Source," enter "Air-Cooled Chiller," "Water-Cooled Chiller," etc.
  - For the "Other Heat Option" column, enter a description of the heating source if the HVAC system type is "PTAC w/ other heat option;" otherwise leave blank.
- Must be a lodging business.
- The incentive is for occupancy-based guest room energy management controls.
- Occupancy control may be key-activated or sensed due to motion or body heat and must control the HVAC system serving the room.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Guest Room Energy Management (PTAC w/ electric heat)	H2373	$60	Room	YES
Guest Room Energy Management (PTHP)	H4748	$60	Room	YES
Guest Room Energy Management (all other HVAC systems)	H2374*	$60	Room	YES
*** Supplemental Data Sheet needed NC = New Construction Eligible?**				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Guest Room Energy Management (PTAC w/ electric heat)	S-H2373	$100	Room	NO
Guest Room Energy Management (PTHP)	S-H4748	$100	Room	NO
Guest Room Energy Management (all other HVAC systems), including PTHP	S-H2374*	$100	Room	NO
*** Supplemental Data Sheet needed NC = New Construction Eligible?**				

COMMUNICATING AND SMART THERMOSTATS

Requirements:

- Communicating and smart thermostats must replace a standard (manual) or programmable thermostat.
- Communicating thermostats must be Wi-Fi capable (with the Wi-Fi connection established by the customer).
- **Smart thermostats must be certified as an ENERGY STAR® Smart Thermostat or listed on the Focus on Energy qualified products list at focusonenergy.com/business/qpls.**
- Thermostats purchased at participating instant discount retailers are not eligible.
- For thermostats controlling natural gas boilers, provide capacity controlled by the thermostat (MBh) per the example below.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Communicating Thermostat, Natural Gas Boiler	H4372	$40	T-Stat	NO
Communicating Thermostat, Natural Gas Furnace	H4373	$40	T-Stat	NO
Communicating Thermostat, Rooftop Unit with AC and Natural Gas Heat	H4374	$40	T-Stat	NO
Smart Thermostat, Natural Gas Boiler	H4375	$75	T-Stat	NO
Smart Thermostat, Natural Gas Furnace	H4376	$75	T-Stat	NO
Smart Thermostat, Rooftop Unit with AC and Natural Gas Heat	H4377	$75	T-Stat	NO
NC = New Construction Eligible?				

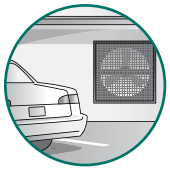
SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Communicating Thermostat, Natural Gas Boiler	S-H4372	$75	T-Stat	NO
Communicating Thermostat, Natural Gas Furnace	S-H4373	$75	T-Stat	NO
Communicating Thermostat, Rooftop Unit with AC and Natural Gas Heat	S-H4374	$75	T-Stat	NO
Smart Thermostat, Natural Gas Boiler	S-H4375	$125	T-Stat	NO
Smart Thermostat, Natural Gas Furnace	S-H4376	$125	T-Stat	NO
Smart Thermostat, Rooftop Unit with AC and Natural Gas Heat	S-H4377	$125	T-Stat	NO
NC = New Construction Eligible?				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Communicating Thermostat, Natural Gas Boiler	M-H4298	$40	T-Stat	YES
Communicating Thermostat, Natural Gas Furnace	M-H4299	$40	T-Stat	YES
Communicating Thermostat, Air Source Heat Pump	M-H4300	$40	T-Stat	YES
Smart Thermostat, Natural Gas Boiler	M-H4301	$75	T-Stat	YES
Smart Thermostat, Natural Gas Furnace	M-H4302	$75	T-Stat	YES
Smart Thermostat, Air Source Heat Pump	M-H4303	$75	T-Stat	YES
NC = New Construction Eligible?				

EXAMPLE

Communicating or Smart Thermostat for Natural Gas Boiler Example

INCENTIVE CODE	MANUFACTURER NAME	MODEL #	UNIT MEASURE	# OF UNITS (A)	INCENTIVE PER UNIT (B)	TOTAL INCENTIVE (A X B)
H4372	XYZ Boilers	B199	T-Stat	1	$40	$40
--------	Boiler Capacity Controlled		MBh	55	--------	--------



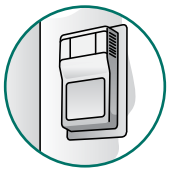
PARKING GARAGE VENTILATION CONTROLS

Requirements:

- **Complete Table H of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - Garage Size (sq ft), Heating System Capacity, Heating System Efficiency and Heating Set Point are only required for heated garages.
- Install carbon monoxide (CO) controls to control parking garage exhaust fan that meet all state and local codes.
- Current system must run 24/7.
- Heated garages must be heated by either natural gas furnaces, natural gas unit heaters or hot water/steam from an on-site natural gas boiler. Garages heated by municipal steam systems (i.e., "city steam") are not eligible.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Parking Garage Ventilation Controls	H3016*	$120	System	NO
Parking Garage Ventilation Controls with Heating	H3493*	$250	System	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Parking Garage Ventilation Controls	M-H3016*	$150	System	NO
Parking Garage Ventilation Controls with Heating	M-H3493*	$300	System	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			



SURGERY ROOM SUPPLY AIR OCCUPANCY CONTROLS

Requirements:

- **Complete Table I of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
- This incentive is for the installation of controls to provide reduced supply air to surgery rooms when the rooms are unoccupied. Both an eligible electric and natural gas provider are required to be eligible for this incentive.
- Not all surgery rooms are good candidates for controls. Pressure requirements and reduced loading on the HVAC system can make unoccupied schedules inefficient or impossible. If you are unsure whether your system is a good candidate, Focus on Energy provides a Project Assessment Incentive that helps fund studies to determine project feasibility and energy savings. See focusonenergy.com/business/custom-projects for more information.
- The controls must reduce supply air flow while still maintaining temperature setpoint, positive pressure, and 20% - 60% humidity levels.
- The HVAC system must use two coils: one for heating and one for cooling.
- Systems with heat recovery capability are not eligible for this incentive but may qualify for custom incentives.
- Systems should reduce air changes and outside air requirements to the lowest number possible (e.g. eight air changes and two outside air change per hour) to achieve greatest savings.
- Triage and procedure rooms that have similar air change requirements as surgery rooms also qualify.
- **Incentives cannot exceed 50% of the project cost.**

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Surgery Occupancy Controls	H3632*	$600	Room	YES
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

VARIABLE FREQUENCY DRIVES

General Requirements: The system controlled must have significant load diversity that will result in savings through motor speed variation. Units installed only to allow soft starts are not eligible. Redundant or backup units do not qualify. Replacement of an existing variable frequency drive (VFD) does not qualify.

VFDs may not be beneficial in pump systems where static head makes up a large portion of the total system head. It is also important that the load on the system vary over time to take advantage of the savings that a VFD can provide. Be sure to understand these aspects of your system and discuss them with the equipment vendor in advance of applying VFD technology.

VARIABLE FREQUENCY DRIVE (VFD)

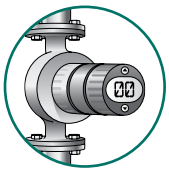
Requirements:

- **Complete Table J of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For the "VFD Application" column, enter "Chilled Water Distribution Pump", "HVAC Heating Pump", "Process Pump", "Pool Pump", "Boiler Draft Fan", "Cooling Tower Fan," "HVAC Fan," or "Process Fan".
  - For the "Controls Before VFD" column, enter "Outlet Control Valve," "Bypass Valve," "Discharge Damper," "Inlet Guide Vanes," "On/Off," or "Other" and then describe.
- The equipment controlled by the VFD must operate a minimum of 2,000 hours annually and may not exceed 500 horsepower.
- For new construction projects, VFDs that are required in accordance to Wisconsin Energy Code are not eligible. For HVAC applications, this includes:
  - VFDs for HVAC pump systems are required by code for hydronic HVAC systems greater than or equal to 500,000 BTU/hr. VFDs on pump motors for hydronic systems ≥ 500,000 BTU/hr DO NOT qualify for incentives.
  - VFDs for HVAC fans are required by code for either hydronic or multiple-zone HVAC systems controls and equipment (per IECC section C403.4.1). VFDs installed due to this code requirement are not eligible.
- VFD speed must be automatically controlled by differential pressure, flow, temperature or other variable signal.
- VFDs added to chillers, kitchen ventilation hoods and air compressors do not qualify for this incentive. Refer to "Cooling Systems" section of this catalog if installing a chiller with a VFD, Process Systems Incentive Catalog if installing a Variable Speed Drive air compressor, Commercial Kitchen Equipment Incentive Catalog if installing a VFD on kitchen ventilation hoods, or apply for a custom incentive if installing a VFD somewhere else.
- **VFD incentives are limited to 50% of project cost.**
- Internal labor costs cannot be included in project costs (see definition of Internal Labor in the Terms and Conditions).
- VFD must be installed on a centrifugal or axial flow pump or fan, i.e., a variable torque load.
- Staged air volume systems (using a VFD to achieve two-speed fan control on a rooftop unit) are not eligible but may be eligible for a custom incentive.
- For constant torque and variable torque VFD incentives for industrial and process uses, see the Variable Frequency Drive section of the Process Systems Incentive Catalog.
- For VFDs for agribusiness equipment, see the Agribusiness Incentive Catalog.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Variable Torque VFD, Boiler Draft Fan	H2640*	$40	HP	NO
Variable Torque VFD, Cooling Tower Fan	H2641*	$40	HP	NO
Variable Torque VFD, HVAC Fan	H2643*	$40	HP	NO
Variable Torque VFD, Chilled Water Distribution Pump	H2726*	$40	HP	NO
Variable Torque VFD, HVAC Heating Pump	H2644*	$40	HP	NO
Variable Torque VFD, Pool Pump Motor	H2646*	$40	HP	NO
Variable Torque VFD, Boiler Draft Fan (NC Only)	HN2640*	$25	HP	YES
Variable Torque VFD, Cooling Tower Fan (NC Only)	HN2641*	$25	HP	YES
Variable Torque VFD, HVAC Fan (NC Only)	HN2643*	$25	HP	YES
Variable Torque VFD, Chilled Water Distribution Pump (NC Only)	HN2726*	$25	HP	YES
Variable Torque VFD, HVAC Heating Pump (NC Only)	HN2644*	$25	HP	YES
Variable Torque VFD, Pool Pump Motor (NC Only)	HN2646*	$25	HP	YES
*** Supplemental Data Sheet needed**		**NC = New Construction Eligible?**		

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Variable Torque VFD, Boiler Draft Fan	S-H2640*	$60	HP	NO
Variable Torque VFD, Cooling Tower Fan	S-H2641*	$60	HP	NO
Variable Torque VFD, HVAC Fan	S-H2643*	$60	HP	NO
Variable Torque VFD, Chilled Water Distribution Pump	S-H2726*	$60	HP	NO
Variable Torque VFD, HVAC Heating Pump	S-H2644*	$60	HP	NO
Variable Torque VFD, Pool Pump Motor	S-H2646*	$60	HP	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Variable Torque VFD, Boiler Draft Fan	M-H2640*	$60	HP	YES
Variable Torque VFD, Cooling Tower Fan	M-H2641*	$60	HP	YES
Variable Torque VFD, HVAC Fan	M-H2643*	$60	HP	YES
Variable Torque VFD, Chilled Water Distribution Pump	M-H2726*	$60	HP	YES
Variable Torque VFD, HVAC Heating Pump	M-H2644*	$60	HP	YES
Variable Torque VFD, Pool Pump Motor	M-H2646*	$60	HP	YES
Variable Torque VFD, Domestic Water Pump	M-H4757*	$60	HP	YES
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			



VARIABLE SPEED PUMP WITH ELECTRONICALLY COMMUTATED MOTOR (ECM)

Requirements:

- Variable speed electronically commutated motor (ECM) pumps are for the replacement of constant speed permanent split capacitor (PSC) motor pumps.
- Pump may replace domestic hot water recirculation pumps, heating hot water circulation pumps, cooling water circulation pumps, and/or water loop heat pump circulation loops.
- Existing pumps being replaced may be continuous run, timer controlled or controlled by aquastat temperature sensor.
- New pump speed must be automatically controlled by differential pressure, flow, temperature or other variable signal.
- For new construction projects, variable speed pumps that are required in accordance to Wisconsin building code are not eligible.
  - This includes variable speed drives for HVAC pump systems are required by code for hydronic HVAC systems greater than or equal to 500,000 BTU/hr. Variable speed drives on pump motors for hydronic systems ≥ 500,000 BTU/hr DO NOT qualify for incentives.
  - This does not include variable speed pumps for DHW recirculation.
- **Variable speed pump with ECM motor incentives are limited to 50% of project cost.**
- Internal labor costs cannot be included in project costs (see definition of Internal Labor in the Terms and Conditions).
- For other HVAC VFD systems and larger motors, see Variable Frequency Drives (VFD) in the previous section.
- For constant torque VFD incentives, see the variable frequency drive section of Process Systems Incentive Catalog.
- Variable speed ECM pumps used for industrial process incentives may qualify for a custom incentive.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation	H3494	$80	Pump	YES
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation	H3495	$160	Pump	YES
Variable Speed ECM Pump, >500 Watts Max Input, Domestic Hot Water Recirculation	H3496	$320	Pump	YES
Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation	H3497	$80	Pump	YES
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation	H3498	$160	Pump	YES
Variable Speed ECM Pump, >500 Watts Max Input, Heating Water Circulation	H3499	$320	Pump	YES
Variable Speed ECM Pump, <100 Watts Max Input, Cooling Water Circulation	H3500	$40	Pump	YES
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Cooling Water Circulation	H3501	$80	Pump	YES
Variable Speed ECM Pump, >500 Watts Max Input, Cooling Water Circulation	H3502	$160	Pump	YES
Variable Speed ECM Pump, <100 Watts Max Input, Water Loop Heat Pump Circulation	H3503	$80	Pump	YES
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Water Loop Heat Pump Circulation	H3504	$160	Pump	YES
Variable Speed ECM Pump, >500 Watts Max Input, Water Loop Heat Pump Circulation	H3505	$320	Pump	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation	S-H3494	$80	Pump	NO
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation	S-H3495	$160	Pump	NO
Variable Speed ECM Pump, >500 Watts Max Input, Domestic Hot Water Recirculation	S-H3496	$320	Pump	NO
Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation	S-H3497	$80	Pump	NO
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation	S-H3498	$160	Pump	NO
Variable Speed ECM Pump, >500 Watts Max Input, Heating Water Circulation	S-H3499	$320	Pump	NO
Variable Speed ECM Pump, <100 Watts Max Input, Cooling Water Circulation	S-H3500	$40	Pump	NO
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Cooling Water Circulation	S-H3501	$80	Pump	NO
Variable Speed ECM Pump, >500 Watts Max Input, Cooling Water Circulation	S-H3502	$160	Pump	NO
Variable Speed ECM Pump, <100 Watts Max Input, Water Loop Heat Pump Circulation	S-H3503	$80	Pump	NO
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Water Loop Heat Pump Circulation	S-H3504	$160	Pump	NO
Variable Speed ECM Pump, >500 Watts Max Input, Water Loop Heat Pump Circulation	S-H3505	$320	Pump	NO
NC = New Construction Eligible?				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Variable Speed ECM Pump, <100 Watts Max Input, Domestic Hot Water Recirculation	M-H3494	$80	Pump	YES
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Domestic Hot Water Recirculation	M-H3495	$160	Pump	YES
Variable Speed ECM Pump, >500 Watts Max Input, Domestic Hot Water Recirculation	M-H3496	$320	Pump	YES
Variable Speed ECM Pump, <100 Watts Max Input, Heating Water Circulation	M-H3497	$80	Pump	YES
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Heating Water Circulation	M-H3498	$160	Pump	YES
Variable Speed ECM Pump, >500 Watts Max Input, Heating Water Circulation	M-H3499	$320	Pump	YES
Variable Speed ECM Pump, <100 Watts Max Input, Cooling Water Circulation	M-H3500	$40	Pump	YES
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Cooling Water Circulation	M-H3501	$80	Pump	YES
Variable Speed ECM Pump, >500 Watts Max Input, Cooling Water Circulation	M-H3502	$160	Pump	YES
Variable Speed ECM Pump, <100 Watts Max Input, Water Loop Heat Pump Circulation	M-H3503	$80	Pump	YES
Variable Speed ECM Pump, 100 – 500 Watts Max Input, Water Loop Heat Pump Circulation	M-H3504	$160	Pump	YES
Variable Speed ECM Pump, >500 Watts Max Input, Water Loop Heat Pump Circulation	M-H3505	$320	Pump	YES
NC = New Construction Eligible?				

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PLUMBING

WATER HEATERS

General Requirements: Only natural gas and electric equipment are eligible for incentives. Equipment fueled by propane is NOT eligible for incentives.

HIGH USE COMMERCIAL WATER HEATERS

Requirements:

- **Complete Table K of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - For the "Building Type" column, enter "Full-Service Restaurant," "Fast Food," "Cafeteria," "Hotel/Motel," "Nursing Home," "Laundromat," "Supermarket," "Dormitory," "K-12 school," Prison, or "Hospital". Note these are the only eligible building types, all others do not qualify.
  - For the "Existing System Fuel Type" column, enter "Gas" or "Electric".
  - For the "Existing System Type" column, enter the type of existing water heaters: gas storage, gas tankless, or electric storage.
  - For the "Annual Operation (days/year)" column, enter the number of days per year that the facility is open or occupied.
  - For the "Actual Usage" column, enter the actual usage that corresponds to the building type. The minimum usage requirements are as follows:
    - Restaurant, fast food and cafeteria locations must serve ≥300 meals/day.
    - Hotel, motel, nursing home locations must have ≥30 rooms or beds.
    - Laundromats must have ≥30 washes/day.
    - Supermarkets do not have a minimum usage requirement other than days/year.
    - Dormitories must have ≥50 students.
    - K-12 Schools must have ≥300 students/building.
    - Prisons must have ≥50 inmates.
    - Hospitals must have ≥20 beds.
- Equipment must supply all of the domestic hot water usage for one or more qualifying systems in the building type above. Systems must meet the minimum usage requirements for each qualifying system. Non-qualifying systems may be eligible for the residential type or custom incentives.
- For gas-fired water heaters, combined DHW capacity for the whole building must be < 1,000,000 BTU/hr.
- **Equipment eligibility is verified through AHRI Directory of Certified Product Performance for Water Heating Equipment (ahridirectory.org), ENERGY STAR® pre-qualified list and other reliable sources. Tankless water heaters must meet all ENERGY STAR criteria and will be verified with the current ENERGY STAR pre-qualified list.**
- Annual operation for the facility where the water heater is installed must be ≥300 days/year, except:
  - Annual operation for cafeterias must be ≥175 days/year.
  - Annual operation for schools must be ≥180 days/year.
  - Annual operation for dormitories must be ≥200 days/year.
- ≥90% thermal efficiency gas storage water heater incentives are not for replacement of existing gas storage water heaters ≥90% thermal efficiency.
- Water heaters used for dairy and livestock are not eligible for these incentives and must use the Agribusiness Incentive Catalog.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
K-12 School High Use Commercial Water Heater, Gas Storage ≥90% Thermal Efficiency	P3684*	$200	Water Heater	YES
High Use Commercial Water Heater, Gas Storage ≥90% Thermal Efficiency	P3045*	$400	Water Heater	YES
High Use Commercial Water Heater, Gas Tankless ≥0.82 Energy Factor	P3046*	$400	Water Heater	YES
High Use Commercial Water Heater, Electric Heat Pump Storage ≥2.0 Energy Factor	P3047*	$400	Water Heater	YES
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
High Use Commercial Water Heater, Gas Storage ≥90% Thermal Efficiency	S-P3045*	$800	Water Heater	NO
High Use Commercial Water Heater, Gas Tankless ≥0.82 Energy Factor	S-P3046*	$800	Water Heater	NO
High Use Commercial Water Heater, Electric Heat Pump Storage ≥2.0 Energy Factor	S-P3047*	$800	Water Heater	NO
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

RESIDENTIAL-TYPE WATER HEATERS

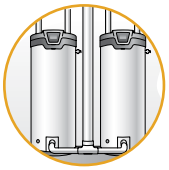
Requirements:

- These incentives are for residential-type water heaters only. Residential-type water heaters are defined as water heaters having a heating input capacity of 75,000 BTU/hr or less (natural gas) or 12 kW or less (electric) for storage or water heaters or less than 200,000 BTU/hr for tankless water heaters.
- **Equipment eligibility is verified through AHRI Directory of Certified Product Performance for Water Heating Equipment (ahridirectory.org), ENERGY STAR pre-qualified list (energystar.gov) and other reliable sources.**
- Energy factor is the overall efficiency of the water heater. Recovery efficiency or Energy Guide rating may NOT be substituted for energy factor.
- For business programs:
  - Must be central units used to supply domestic hot water (DHW) to an entire premise. Point-of-use units are not eligible.
  - Electric water heaters are not eligible.
  - Water heaters for dairy farm milk houses may not use residential-type equipment and must use the Agribusiness Incentive Catalog.
- For multifamily programs:
  - An eligible water heater must be an individual unit serving one residential unit.
  - Incentives for electric tank-type water heaters available only if natural gas is unavailable at the street through a participating utility.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Natural Gas DHW Power Vent Tank Type ≥0.67 EF	P2651	$50	Water Heater	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Natural Gas DHW Power Vent Tank Type ≥0.67 EF	S-P2651	$125	Water Heater	NO
NC = New Construction Eligible?				

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Natural Gas DHW Power Vent Tank Type ≥0.67 EF	M-P2651	$50	Water Heater	YES
Natural Gas DHW Condensing Tank Type ≥90% TE	M-P1986	$150	Water Heater	YES
Natural Gas Indirect DHW with Modulating Boiler ≥90% AFUE	M-P2658	$200	Water Heater	YES
Natural Gas Tankless DHW, ≥ 0.82 EF	M-P2652	$100	Water Heater	YES
Electric DHW Tank Type ≥0.93 EF	M-P1989	$50	Water Heater	YES
NC = New Construction Eligible?				



DOMESTIC HOT WATER PLANT

Requirements:

- **Complete Table L of the "HVAC/Plumbing Incentive Catalog Supplemental Data Sheet" for this measure.**
  - "# of Existing Water Heaters" is noted on the supplemental data sheet. Number of new water heaters should be noted in the quantity column of the Incentive Application.
  - "Input Capacity (MBH)" is the input capacity per water heater for the new water heaters that were installed.
  - "Tank Mfg," "Tank Model Number" and "Tank Input Capacity" fields are only needed if the new water heater plant is an indirect system. "Tank Input Capacity" is the Btu/hr capacity of the boiler that is dedicated to domestic hot water heating (vs. space heating).
- This measure is for the replacement of an ENTIRE Domestic Hot Water plant. Partial plant replacements may qualify for custom incentives.
- For gas-fired water heaters, combined DHW capacity for the whole building must be < 1,000,000 BTU/hr.
- New water heaters must be stand-alone condensing units with a thermal efficiency of ≥90% or an indirect storage tank connected to a ≥ 90% AFUE boiler.
- Indirect water heating systems input capacity eligible for incentive is only the capacity of the boiler supplying the indirect tank(s) not the entire boiler plant capacity. Only enter boiler information for boiler controlling indirect tank(s) below.
- Incentives for leased equipment must be pre-approved by Focus on Energy. All leased water heaters must transfer ownership to the building owner upon the end of lease term (i.e., be a capital lease). Operating leases are not eligible for incentives.
- Boilers also used for space heating may be eligible for space heating incentives.
- A boiler replacing a space heating and indirect DHW system will use the capacity of the existing space heating and DHW systems to estimate the split of incentives.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Domestic Hot Water Plant	M-P2760*	$2	MBh	YES
*** Supplemental Data Sheet needed**	**NC = New Construction Eligible?**			

DOMESTIC HOT WATER PIPE INSULATION

Requirements:

- This incentive is intended for adding foam or fiberglass insulation to uninsulated domestic hot water piping for multifamily buildings.
- **Incentive is not to exceed material cost.**
- Piping less than 2.0 inch must install at least 0.5 inch thick insulation.
- Piping 2.0 inches and greater must install at least 1.0 inch thick insulation.
- DHW Pipe Insulation for business programs may be eligible for custom incentives.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Domestic Hot Water, ½" and ¾" Pipe, NG	M-P3695	$2	Ft of Pipe	NO
Domestic Hot Water, 1" and 1 ¼" Pipe, NG	M-P3696	$3	Ft of Pipe	NO
Domestic Hot Water, 1 ½" and 2" Pipe, NG	M-P3697	$4	Ft of Pipe	NO
Domestic Hot Water, 3" and 4" Pipe, NG	M-P3698	$6	Ft of Pipe	NO
Domestic Hot Water, ½" and ¾" Pipe, Elec	M-P3699	$2	Ft of Pipe	NO
Domestic Hot Water, 1" and 1 ¼" Pipe, Elec	M-P3700	$3	Ft of Pipe	NO
Domestic Hot Water, 1 ½" and 2" Pipe, Elec	M-P3701	$4	Ft of Pipe	NO
Domestic Hot Water, 3" and 4" Pipe, Elec	M-P3702	$6	Ft of Pipe	NO
NC = New Construction Eligible?				

AERATORS AND SHOWERHEADS

General Requirements: Only natural gas and electric equipment are eligible for incentives. Equipment fueled by propane or oil is NOT eligible for incentives.

AERATORS AND SHOWERHEADS

Requirements:

- Flow restricting device must be for a gas or electric water heater only.
- Must be a multifamily project.
- Both common areas and in-unit upgrades are eligible.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Faucet Aerator, ≤0.5 gpm, Bathroom, Electric	M-P4396	$4	Aerator	YES
Faucet Aerator, ≤0.5 gpm, Bathroom, NG	M-P4397	$4	Aerator	YES
Faucet Aerator, ≤1.0 gpm, Bathroom, Electric	M-P4394	$3	Aerator	YES
Faucet Aerator, ≤1.0 gpm, Bathroom, NG	M-P4395	$3	Aerator	YES
Faucet Aerator, ≤1.5 gpm, Bathroom, Electric	M-P4392	$2	Aerator	YES
Faucet Aerator, ≤1.5 gpm, Bathroom, NG	M-P4393	$2	Aerator	YES
Faucet Aerator, ≤0.5 gpm, Kitchen, Electric	M-P4388	$6	Aerator	YES
Faucet Aerator, ≤0.5 gpm, Kitchen, NG	M-P4389	$6	Aerator	YES
Faucet Aerator, ≤1.0 gpm, Kitchen, Electric	M-P4386	$5	Aerator	YES
Faucet Aerator, ≤1.0 gpm, Kitchen, NG	M-P4387	$5	Aerator	YES
Faucet Aerator, ≤1.5 gpm, Kitchen, Electric	M-P4384	$4	Aerator	YES
Faucet Aerator, ≤1.5 gpm, Kitchen, NG	M-P4385	$4	Aerator	YES
Faucet Aerator, 0.5/1.0/1.5 Variable gpm, Electric	M-P4390	$3	Aerator	YES
Faucet Aerator, 0.5/1.0/1.5 Variable gpm, NG	M-P4391	$3	Aerator	YES
Showerhead, ≤1.5 gpm, Electric	M-P4398	$10	Showerhead	YES
Showerhead, ≤1.5 gpm, NG	M-P4399	$10	Showerhead	YES
Showerhead, ≤ 1.25 gpm, Electric	M-P4400	$12	Showerhead	YES
Showerhead, ≤ 1.25 gpm, NG	M-P4401	$12	Showerhead	YES
NC = New Construction Eligible?				

PRO TIP

Installing energy-efficient showerheads and aerators reduces the amount of water to be heated, saving heating energy, water and sewage costs. Showerheads and 1.5 GPM faucet aerators use 40% less water than 2.5 GPM.

APPLIANCES

General Requirements: See information below for requirements specific to each technology.

COMMON AREA CLOTHES WASHERS

Requirements:

- **Only qualified, ENERGY STAR commercial appliances are eligible for these incentives. Refer to qualified products list located at energystar.gov/products/certified-products/detail/commercial-clothes-washers.**
- Common area clothes washers may be purchased or leased (10-year-lease agreement required).
- Incentives for leased equipment must be pre-approved by Focus on Energy. All leased clothes washers must transfer ownership to the building owner upon the end of lease term (i.e., be a capital lease). Operating leases are not eligible for incentives.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Clothes Washer, Common Area, Electric, ENERGY STAR	M-P2756	$50	Washer	YES
Clothes Washer, Common Area, Natural Gas, ENERGY STAR	M-P2757	$50	Washer	YES
NC = New Construction Eligible?				

NOTES

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BUILDING ENVELOPE

OVERHEAD DOOR MODIFICATIONS

General Requirements: See information below for requirements specific to each technology.

DOOR AND RAMP SEALS

Requirements:

- These incentives are intended to reduce air infiltration at truck loading docks. Seals must effectively close all gaps between the building and semitrailer.
- To qualify, building interior space must be heated with natural gas during winter.
- Refrigerated interior spaces are not eligible but may qualify for a custom incentive.
- Dock door seals extend out to fill the gap between the dock door and the trailer, including the “hinge gap” that occurs with outwardly swinging trailer doors.
- Leveler ramp air seals reduce air infiltration from around the loading dock leveler ramp. Air seals may be attached to the exterior of the building or around the edge of the ramp and must maintain an effective seal both when ramp is in use (raised or lowered) or out of use. Brush-type or whisker-type perimeter/edge seals may be used in conjunction with air seals but do not qualify for incentive.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Dock Door Infiltration Reduction, New Install	B2300	$150	Door Sealed	NO
Dock Door Infiltration Reduction, Replace Existing	B2301	$150	Door Sealed	NO
Dock Pit/Ramp External Seal, Added to Existing "Brush" Barrier	B2302	$75	Pit sealed	NO
Dock Pit/Ramp External Seal, No Brush Barrier Present	B2303	$75	Pit sealed	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Dock Door Infiltration Reduction, New Install	S-B2300	$250	Door Sealed	NO
Dock Door Infiltration Reduction, Replace Existing	S-B2301	$250	Door Sealed	NO
Dock Pit/Ramp External Seal, Added to Existing "Brush" Barrier	S-B2302	$150	Pit sealed	NO
Dock Pit/Ramp External Seal, No Brush Barrier Present	S-B2303	$200	Pit sealed	NO
NC = New Construction Eligible?				

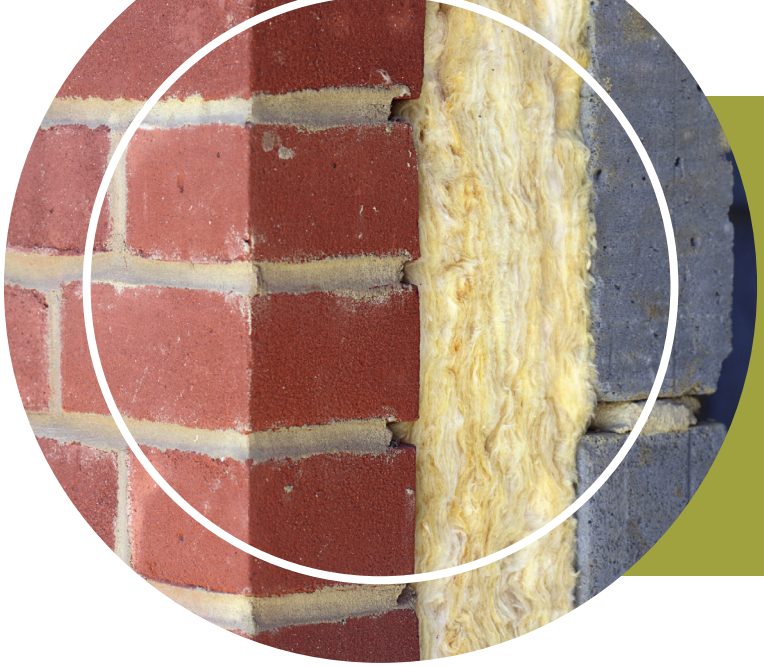
SPRING-LOADED OVERHEAD DOOR HINGES

Requirements:

- These incentives are intended to reduce air infiltration at overhead doors by using spring-loaded garage door hinges that keep overhead door sections pressed tightly against the seals.
- To qualify, building interior space must be heated with only natural gas during winter. Buildings heated by waste oil burners, propane, or other fuel sources are not eligible.
- Replacement of existing spring-loaded overhead door hinges does not qualify.

BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Spring-loaded Overhead Door Hinge, Heating Setpoint = 55°F	B3680	$80	Per Door	YES
Spring-loaded Overhead Door Hinge, Heating Setpoint = 60°F	B3681	$80	Per Door	YES
Spring-loaded Overhead Door Hinge, Heating Setpoint = 65°F	B3682	$80	Per Door	YES
Spring-loaded Overhead Door Hinge, Heating Setpoint = 70°F	B3683	$80	Per Door	YES
NC = New Construction Eligible?				

SMALL BUSINESS INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Spring-loaded Overhead Door Hinge, Heating Setpoint = 55°F	S-B3680	$120	Per Door	NO
Spring-loaded Overhead Door Hinge, Heating Setpoint = 60°F	S-B3681	$120	Per Door	NO
Spring-loaded Overhead Door Hinge, Heating Setpoint = 65°F	S-B3682	$120	Per Door	NO
Spring-loaded Overhead Door Hinge, Heating Setpoint = 70°F	S-B3683	$120	Per Door	NO
NC = New Construction Eligible?				



WALL AND ATTIC INSULATION

General Requirements: Only buildings heated with natural gas or electricity are eligible for incentives. Buildings heated with propane, oil, municipal steam systems, or other sources are not eligible. Buildings with and without cooling systems are eligible; select the corresponding measure code for "with cooling" or "without cooling".

WALL INSULATION, EXISTING BUILDINGS

Requirements:

- These incentives are for providing additional insulation to above grade exterior walls of multifamily buildings.
- Eligible insulation types include but are not limited to: fiberglass batts, spray foam, loose fill cellulose, metalized polymers, or other material providing that it meets local and state building codes.
- **Incentive is not to exceed material cost.**
- Existing wall insulation must be R-5 or less.
- Additional wall insulation must bring walls up to at least R-20 of cavity insulation.
- The use of R-13 cavity insulation plus R-5 insulated sheathing is considered equivalent to cavity insulation of R-20.
- Projects adding insulation to existing walls greater than R-5 or providing additional insulation significantly beyond R-20 may qualify for a custom incentive.
- Sill boxes are able to be considered as part of the exterior wall.
- Sq. Ft. of insulation should be listed on the invoice or other supporting documentation provided with the incentive application.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Wall Insulation, Natural Gas Heat with Cooling	M-H3703	$0.40	Sq Ft	NO
Wall Insulation, Natural Gas Heat without Cooling	M-H3704	$0.40	Sq Ft	NO
Wall Insulation, Electric Heat with Cooling, Existing	M-H3705	$0.40	Sq Ft	NO
Wall Insulation, Electric Heat without Cooling	M-H3706	$0.40	Sq Ft	NO
NC = New Construction Eligible?				

WALL INSULATION, NEW CONSTRUCTION

Requirements:

- These incentives are for providing additional insulation to above grade exterior walls of multifamily new construction buildings.
- Eligible insulation types include but are not limited to: fiberglass batts, spray foam, loose fill cellulose, metalized polymers, or other material providing that it meets local and state building codes.
- **Incentive is not to exceed material cost.**
- Intended as an upgrade from code-required R-20 wall insulation.
- Additional wall insulation must bring walls up to at least R-25 of insulation.
- Sill boxes are able to be considered as part of the exterior wall.
- Sq. Ft. of insulation should be listed on the invoice or other supporting documentation provided with the incentive application.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Wall Insulation, Natural Gas Heat with Cooling	M-HN3703	$0.10	Sq Ft	YES
Wall Insulation, Natural Gas Heat without Cooling	M-HN3704	$0.10	Sq Ft	YES
Wall Insulation, Electric Heat with Cooling, Existing	M-HN3705	$0.10	Sq Ft	YES
Wall Insulation, Electric Heat without Cooling	M-HN3706	$0.10	Sq Ft	YES
NC = New Construction Eligible?				

ATTIC INSULATION, EXISTING BUILDINGS

Requirements:

- These incentives are for providing additional attic insulation to multifamily buildings.
- Eligible insulation types include but are not limited to: fiberglass batts, spray foam, loose fill cellulose, metalized polymers, or other material providing that it meets local and state building codes.
- **Incentive is not to exceed material cost.**
- Existing attic insulation must be as specified in the measure description: either ≤R-11 or between R-12 and R-19 (excluding assembly section).
- Additional insulation must bring attic up to R-38 or greater.
- Projects adding insulation to existing attic insulation greater than R-19 or providing additional insulation significantly beyond R-38 may qualify for a custom incentive.
- Sq Ft of insulation should be listed on the invoice or other supporting documentation provided with the incentive application.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Attic Insulation, Natural Gas Heat with Cooling, Existing Insulation ≤R-11	M-H3707	$0.25	Sq Ft	NO
Attic Insulation, Natural Gas Heat without Cooling, Existing Insulation ≤R-11	M-H3708	$0.25	Sq Ft	NO
Attic Insulation, Natural Gas Heat with Cooling, Existing Insulation R-12 to R-19	M-H3709	$0.10	Sq Ft	NO
Attic Insulation, Natural Gas Heat without Cooling, Existing Insulation R-12 to R-19	M-H3710	$0.10	Sq Ft	NO
Attic Insulation, Electric Heat with Cooling, Existing Insulation ≤R-11	M-H3711	$0.25	Sq Ft	NO
Attic Insulation, Electric Heat without Cooling, Existing Insulation ≤R-11	M-H3712	$0.25	Sq Ft	NO
Attic Insulation, Electric Heat with Cooling, Existing Insulation R-12 to R-19	M-H3713	$0.10	Sq Ft	NO
Attic Insulation, Electric Heat without Cooling, Existing Insulation R-12 to R-19	M-H3714	$0.10	Sq Ft	NO
NC = New Construction Eligible?				

ATTIC INSULATION, NEW CONSTRUCTION

Requirements:

- These incentives are for providing additional attic insulation to multifamily new construction buildings.
- Eligible insulation types include but are not limited to: fiberglass batts, spray foam, loose fill cellulose, metalized polymers, or other material providing that it meets local and state building codes.
- **Incentive is not to exceed material cost.**
- Intended as an upgrade from code-required R-38 attic insulation.
- Additional insulation must bring attic up to R-49 or greater.
- Sq. Ft. of insulation should be listed on the invoice or other supporting documentation provided with the incentive application.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Attic Insulation, Natural Gas Heat with Cooling, New Construction to R-49	M-HN4824	$0.10	Sq Ft	YES
Attic Insulation, Natural Gas Heat without Cooling, New Construction to R-49	M-HN4379	$0.10	Sq Ft	YES
Attic Insulation, Electric Heat with Cooling, Existing, New Construction to R-49	M-HN4380	$0.10	Sq Ft	YES
Attic Insulation, Electric Heat without Cooling, New Construction to R-49	M-HN4381	$0.10	Sq Ft	YES
NC = New Construction Eligible?				

AIR SEALING

Requirements:

- **Complete Table M of the "HVAC/Plumbing Catalog Supplemental Data Sheet" for this measure.**
  - For heating type, describe the type of heating system for the building (boiler, single package vertical units, furnace, electric baseboard, PTHP, etc.)
  - For heating efficiency, provide the approximate heating efficiency and units (80% thermal efficiency, 3.0 COP, etc.)
  - For cooling type, describe the type of heating system for the building (none, split system A/C, PTHP, chiller, etc.)
  - For cooling efficiency, provide approximate cooling efficiency and units (10 EER, 14 SEER, etc.)
- These incentives are for providing complete building air sealing for wall and ceiling penetrations in existing multifamily buildings.
- Whole building air sealing shall be performed in accordance with building science industry best practices and in compliance with local building codes.
- **A reservation code is required to verify completeness of proposed air sealing project. Please call 800.762.7077 before you start your project.**
  - Focus on Energy reserves the right to complete a pre-inspection prior to issuing a reservation code.

MULTIFAMILY INCENTIVES				
Measure Description	**Code**	**Incentive**	**Unit**	**NC**
Air Sealing, Natural Gas Heat with Cooling	M-H4749*	$0.10	Conditioned Sq Ft	NO
Air Sealing, Natural Gas Heat without Cooling	M-H4750*	$0.10	Conditioned Sq Ft	NO
Air Sealing, Electric Heat with Cooling	M-H4751*	$0.10	Conditioned Sq Ft	NO
Air Sealing, Electric Heat without Cooling	M-H4752*	$0.10	Conditioned Sq Ft	NO
*** Supplemental Data Sheet Needed**	**NC = New Construction Eligible?**			

NOTES

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EXPRESS BUILDING TUNE-UP

EXPRESS BUILDING TUNE-UP

General Requirements: The Express Building Tune-Up (EBTU) offering provides incentives to encourage owners and managers of existing buildings to optimize the energy-related performance of their facility. These measures can only be applied for once every five years. It is not available to newly constructed facilities that are less than five years old from the date of first occupancy. **A minimum of two EBTU measures must be completed to qualify for incentives. EBTU incentives cannot exceed 50% of the EBTU project cost.** Multifamily properties are not eligible.

CHILLER PLANT SETPOINT ADJUSTMENT

Requirements:

- **Complete Table N of the "EBTU Supplemental Data Sheet" for this measure.**
- Not applicable for DX cooling systems.
- Not eligible if chiller systems already utilizes a chilled water reset control strategy **OR** chilled water setpoints are regularly adjusted.
- New Chiller Water Setpoint must be higher than existing.
- New Condenser Water Setpoint must be lower than existing.
- Total Incentive = Base Incentive Rate * # of Tons * Total number of degrees adjusted from existing setpoint. Incentive is for the efficient adjustment of chiller plant temperature setpoints. The base incentive rates are listed below.

Measure Description	Code	Incentive	Unit
Chiller Plant, Chiller Water Setpoint Adjustment	3659*	$1.50	Ton/°F
Chiller Plant, Condenser Water Setpoint Adjustment	3660*	$1.50	Ton/°F
*Supplemental data sheet needed			

HOT WATER SUPPLY RESET

Requirements:

- **Complete Table O of the "EBTU Supplemental Data Sheet" for this measure.**
- Only eligible for non-condensing boilers.
- Boiler system must already have reset control capability in place but is either: Not using a reset strategy **OR** a new wider reset strategy can be applied which is deemed to make the boiler's operation more efficient.
- Boiler return water should be no more than 10°F above the manufacturers recommended minimum return temperature.
- The OAT sensor used to control the hot water reset strategy needs to be placed in an outdoor shaded location.

Measure Description	Code	Incentive	Unit
Hot Water Supply Reset	3662*	$50	Control
*Supplemental data sheet needed			

OUTSIDE AIR INTAKE OPTIMIZATION

Requirements:

- **Complete Table P of the "EBTU Supplemental Data Sheet" for this measure.**
- Outside Air intake levels cannot be set below code minimums for ventilation rates.
- This measure does not apply to buildings with normally varying OA intake levels.
- OA intake CFM levels must have the ability to be reduced from existing condition to be eligible.
- Incentive is based on the amount of reduced CFM.

Measure Description	Code	Incentive	Unit
Outside Air Intake Optimization	3663*	$0.30	CFM
*Supplemental data sheet needed			

ECONOMIZER OPTIMIZATION

Requirements:

- **Complete Table Q of the "EBTU Supplemental Data Sheet" for this measure.**
- Economizer capability must already be present in an AHU but is either not currently operational **OR** can be expanded to include a wider range of OA temperatures.

Measure Description	Code	Incentive	Unit
Economizer Optimization	3661*	$7	Ton
*Supplemental data sheet needed			

VFD FAN MOTOR CONTROL RESTORATION

Requirements:

- **Complete Table R1 of the "EBTU Supplemental Data Sheet" for this measure.**
- Not eligible if controlling VFD was originally incentivized through Focus on Energy.
- VFD must currently be operating in a 'bypass' mode or 'hand-on' mode and be able to switch back to 'automatic' control mode to be eligible.
- VFD must be left in 'automatic' mode after measure is performed and facility/maintenance staff should be informed accordingly.
- Process fan applications are not eligible.

Measure Description	Code	Incentive	Unit
VFD Fan Motor Control Restoration	3677*	$10	Motor HP
*Supplemental data sheet needed			

VFD PUMP MOTOR CONTROL RESTORATION

Requirements:

- **Complete Table R2 of the "EBTU Supplemental Data Sheet" for this measure.**
- Not eligible if controlling VFD was originally incentivized through Focus on Energy.
- VFD must currently be operating in a 'bypass' mode or 'hand-on' mode and be able to switch back to 'automatic' control mode to be eligible.
- VFD must be left in 'automatic' mode after measure is performed and facility/maintenance staff should be informed accordingly.
- Process pump applications are not eligible.

Measure Description	Code	Incentive	Unit
VFD Pump Motor Control Restoration	3678*	$10	Motor HP
*Supplemental data sheet needed			

VALVE REPAIR

Requirements:

- **Complete Table S of the "EBTU Supplemental Data Sheet" for this measure.**
- Valve must be found to have failed/stuck open at 70% or more to be eligible.
- Valve can be used for hot or chilled water service.
- Valve repair can include repair of the valve itself, the actuator, or both.
- Valves supplying chilled water must have their supplied cooling coil capacities listed in Tons.
- Valves supplying heating water must have their supplied heating coil capacities listed in MBh.

Measure Description	Code	Incentive	Unit
Valve Repair, Chilled Water	3675*	$0.25	Ton
Valve Repair, Hot Water	3676*	$0.25	MBh
*Supplemental data sheet needed			

SUPPLY AIR TEMPERATURE RESET

Requirements:

- **Complete Table T of the "EBTU Supplemental Data Sheet" for this measure.**
- Measure applies only to constant air volume (CAV) systems.
- Measure can be applied to both heating and cooling SAT reset control strategies.
- Measure applies to facilities with either no existing SAT reset control strategy in place **OR** optimization of an existing SAT control strategy to widen the operating OAT or heat/cool temperature ranges to operate more efficiently than existing case.
- OAT reset range must be ≥ 20°F for both heating and cooling.
- Incentive is based on °F reduction or increase of existing temperature Setpoint for Heating and Cooling SAT reset measures respectively.
- Only fill out the "**EBTU Supplemental Data Sheet"** for the SAT schedule type being implemented (cooling, heating, or both).
- Incentive is based on the difference in the degrees of the implemented supply air temperature reset range. (Ex: Heating Supply Air Reset Range Max: Min is 85°F: 75°F, Incentive is $25/°F*10°F =$250.

Measure Description	Code	Incentive	Unit
Heating SAT Reset	3672*	$30	Per °F
Cooling SAT Reset	3673*	$30	Per °F
*Supplemental data sheet needed			

SCHEDULE OPTIMIZATION

Requirements:

- **Complete Tables U1-U4 of the "EBTU Supplemental Data Sheet" for this measure.**
- This is a simple temperature setback measure for scheduled unoccupied building times and **NOT** a reset or complete HVAC system shutdown measure.
- Facility must have a control system capable of hourly scheduled HVAC control already in place.
- User should enter existing and proposed weekly schedules highlighting the building's normal occupied times when the HVAC system will be operating. During noted unoccupied times the HVAC system will implement a simple temperature setback to save energy.
- Eligible for both heating and cooling schedules.
- If a second schedule optimization measure is implemented, a second set of existing and proposed schedules must be completed and attached.
- Incentive is calculated based on the difference of the average weekly hours of the existing schedule and the proposed average weekly hours utilizing the temperature set back. If schedules vary day-to-day, the average setback hours are calculated by summing the total hours and dividing by five for weekday scheduling or by two for weekend scheduling. Refer to the "**EBTU Supplemental Data Sheet"**. (Ex. Incentive for a 12,000 ft² space and an average of one hour addition of setback time for Weekday Heating Schedule Optimization = $15.60).
- Facility weekly operational schedules must be consistent throughout the year to be eligible.

Measure Description	Code	Incentive	Unit
Weekday Heating Schedule Optimization	4407*	$1.30	Per 1,000 ft² Per Average Setback Hr
Weekday Cooling Schedule Optimization	4408*	$0.30	Per 1,000 ft² Per Average Setback Hr
Weekend Heating Schedule Optimization	4409*	$0.50	Per 1,000 ft² Per Average Setback Hr
Weekend Cooling Schedule Optimization	4410*	$0.15	Per 1,000 ft² Per Average Setback Hr
*Supplemental data sheet needed			

CHILLER SYSTEM TUNE-UP

Requirements:

- **Complete Table V of the "EBTU Supplemental Data Sheet" for this measure.**
- Measure applies to air or water cooled chillers only. DX cooling systems are not eligible.
- **The following items must be checked/corrected as part of Chiller System Tune-Up measure:**
  - System pressure check/adjustment
  - Filter inspection/replacement
  - Belt inspection/replacement
  - Economizer condition check and repair
  - Contactor conditions
  - Evaporator conditions
  - Compressor amp draw
  - Supply motor amp draw
  - Condenser fan amp draw
  - Liquid line temperature
  - Sub-cooling and superheat temperatures
  - Suction pressure and temperature
  - Oil level and pressure
  - Low pressure controls
  - High pressure controls
  - Crankcase heater operation
  - Condenser coil cleaning
  - Condenser tube cleaning
  - Evaporator tube cleaning

Measure Description	Code	Incentive	Unit
Chiller System Tune-Up, Air Cooled, ≤500 Tons	2666*	$1.50	Ton
Chiller System Tune-Up, Air Cooled, >500 Tons	2667*	$1.50	Ton
Chiller System Tune-Up, Water Cooled, ≤500 Tons	2668*	$1	Ton
Chiller System Tune-Up, Water Cooled, >500 Tons	2669*	$1	Ton
*Supplemental data sheet needed			

PRO TIP

Chillers and chilled water systems rely on good control strategies. Adjusting and resetting supply water and condenser water temperatures based on outside air temperature and space requirements will save energy. The addition of variable frequency drives (VFD) to chilled water pumps, condenser pumps, cooling tower fans and compressors creates a dynamic system that can better match the building loads.

NOTES

SAMPLE INVOICE

Focus on Energy requires a copy of your itemized invoice to process incentives. Use this example to help guide you through our invoice requirements. Only registered Trade Allies can receive incentive payments on behalf of their customers. If submitting a purchase order, submit an invoice as well. **Purchase orders alone are not sufficient documentation.**

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800.762.7077

INVOICE DATE AND NUMBER: Date: 1/1/2019, Invoice # 00001

TRADE ALLY NAME AND ADDRESS

XYZ HVAC CONTRACTOR
111 HVAC Expert Rd
Anytown, WI 53523
(555) 555-1212

To

CUSTOMER NAME AND ADDRESS

John Sample Corporation
123 Save Energy Way
Anytown, WI 53590

Ship To

John Sample Corporation
123 Save Energy Way
Anytown, WI 53590

INCLUDE JOB SITE INFORMATION (NAME & ADDRESS) IF DIFFERENT FROM ABOVE

QUANTITY SHIPPED	MANUFACTURER OR BRAND	MODEL #	DESCRIPTION	EXTENDED PRICE
1	ABC Brand	XYZ123000-17	3 Ton Rooftop Unit	$ 2,733.00
1	ABC Brand	X71DPP-60D135-0	Natural Gas Boiler – 150,000 BTU, 95% efficient	$4,685.00

SPECIFY THE QUANTITY FOR EACH

IDENTIFY MANUFACTURER AND MODEL NUMBERS

INCLUDE A DETAILED DESCRIPTION

INCLUDE ITEM COST

If you are a Focus on Energy registered Trade Ally receiving the incentive, you must show the credit to the customer on your invoice

Focus on Energy Incentive	- $ 250.00
Subtotal	$ 7,168.00
Sales Tax	$ 394.24
TOTAL AMOUNT DUE	$ 7,562.24

Thank you for your business!

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GLOSSARY

Acronyms, abbreviations and technical terms used throughout this catalog are defined below.

ACRONYMS AND ABBREVIATIONS

A/C	Air Conditioner
AFUE	Annual Fuel Utilization Efficiency
AgSG	Agriculture, Schools and Government Program
AHRI	Air Conditioning, Heating and Refrigeration Institute
AHU	Air Handling Unit
ANSI	American National Standards Institute
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
BHP	Boiler Horsepower (also Brake Horsepower - please see definitions)
BIP	Business Incentive Program
BTU	British Thermal Units
BTUh	British Thermal Units Per Hour
CFM	Cubic Feet Per Minute
CO	Carbon Monoxide
CO_2	Carbon Dioxide
COP	Coefficient of Performance
CRAC	Computer Room Air Conditioner
DB	Dry Bulb
DC	Direct Current
DCV	Demand Controlled Ventilation
DHW	Domestic Hot Water
DOE	Department of Energy
DX	Direct Expansion
EA	Exhaust Air
ECM	Electronically Commutated Motor
EER	Energy Efficiency Ratio
EF	Energy Factor
Eff.	Efficiency or Effectiveness
EMS	Energy Management System
Enth	Enthalpy
ERV	Energy Recovery Ventilator
Ft	Foot or Feet
GPM	Gallons Per Minute
HP	Horsepower
HRV	Heat Recovery Ventilator
HVAC	Heating, Ventilation and Air Conditioning
IEER	Integrated Energy Efficiency Ratio
in	Inches
IPLV	Integrated Part Load Value
kW	Kilowatts
kWh	Kilowatt-hours
LEU	Large Energy Users Program
LP	Liquid Petroleum or Propane
MBh	1,000 BTUh
MESP	Multifamily Energy Savings Program
Mfr.	Manufacturer
NC	New Construction
NG	Natural Gas
O_2	Oxygen
OA	Outside Air
PPM	Parts Per Million
PSC	Permanent Split Capacitor
psia	Pounds Per Square Inch Absolute
psig	Pounds Per Square Inch Gauge
PTAC	Packaged Terminal Air Conditioner
PTHP	Packaged Terminal Heat Pump

ACRONYMS AND ABBREVIATIONS, CONTINUED

RA	Return Air
RTU	Rooftop Unit
SA	Supply Air
SBP	Small Business Program
SCFM	Standard Cubic Feet Per Minute
SEER	Seasonal Energy Efficiency Ratio
sq ft	Square Feet
TE	Thermal Efficiency
Therm	100,000 BTU
T-Stat	Thermostat
VFD	Variable Frequency Drive
VSD	Variable Speed Drive
WSHP	Water Source Heat Pump
wk	Week
Δ	Delta or Difference

GLOSSARY TERMS

Air Conditioning, Heating, and Refrigeration Institute
(AHRI) is the trade association representing manufacturers of HVACR and water heating equipment within the global industry. It includes a certification program that provides accurate and unbiased evaluation of heating, water heating, ventilation, air conditioning and commercial refrigeration equipment. AHRI develops industry-recognized performance standards for equipment.

Air Handling Unit
The part of the central air conditioning or heat system that circulates heated or cooled air through building ductwork.

Annual Fuel Utilization Efficiency
The measure of seasonal or annual efficiency of a residential heating furnace or boiler. It takes into account the cyclic on/off operation and associated energy losses of the heating unit as it responds to changes in the load, which in turn is affected by changes in weather and occupant controls.

Boiler (Condensing)
Condensing boilers heat water at higher efficiencies (greater than 90%) by using the waste heat in the flue gases to preheat the cooler water entering the boiler. The term "condensing" refers to the water vapor that collects in the boiler flue from the reduced exhaust temperatures.

Boiler (Near Condensing)
Near condensing boilers heat water at efficiencies between 85% and 89% by using the waste heat in the flue gases to preheat the cooler water entering the boiler. These boilers typically do not cool the flue exhaust enough to cause "condensing" of the water vapor in the boiler flue.

Boiler Horsepower
A measure of a boiler's capacity to produce steam. The amount of energy needed to produce 34.5 pounds of steam per hour at a temperature of 212 degrees Fahrenheit into steam at 212 degrees Fahrenheit.

Brake Horsepower
The brake horsepower is the amount of actual horsepower going to the pump or fan, not the horsepower used by the motor. The actual power delivered by a motor is measured by the use of a brake.

British Thermal Units
A measurement of energy. The amount of heat required to raise the temperature of one pound of water 1 degree Fahrenheit at or near 39.2 degrees Fahrenheit.

British Thermal Units Per Hour
The number of BTUs consumed or generated in a one-hour period.

Carbon Dioxide
A colorless, odorless noncombustible gas with the formula CO_2 that is present in the atmosphere. CO_2 is a natural by-product of respiration.

Carbon Monoxide
A colorless, odorless but poisonous combustible gas produced by incomplete combustion of fuels such as natural gas, L.P., coal, and gasoline.

Chiller (Air-Cooled)
A device that removes heat from a liquid such as water with compressors and refrigerant. Air cooled chillers are usually outside and consist of condenser coils cooled by fan driven air.

Chiller (Water-Cooled)
A device that removes heat from a liquid such as water with compressors and refrigerant. Water cooled chillers are usually inside a building, and heat from these chillers is carried by recirculating water to a heat sink such as an outdoor cooling tower.

Coefficient of Performance
Ratio of tons of refrigeration produced to energy required to operate equipment.

Combustion Efficiency
A measure of how effectively the heat content of a fuel is transferred into usable heat.

Computer Room Air Conditioner
A packaged direct expansion air conditioning unit designed specifically for computer room, data center and heat intensive spaces.

Cubic Feet Per Minute
This measurement indicates how many cubic feet of air pass by a stationary point in one minute. The higher the number, the more air that is being forced through the ductwork by the system.

Demand Controlled Ventilation
A control and sensor system that allows the HVAC system to determine the proper level of ventilation air required based on actual building occupancy. This reduces unnecessary heating and cooling loads and saves energy.

Direct Current
A type of electricity transmission and distribution by which electricity flows in one direction through the conductor: usually relatively low voltage and high current.

Direct Expansion
Air conditioning and refrigeration systems in which the cooling is obtained directly from the expansion of the liquid refrigerant into a vapor. System components include coils, compressors, evaporators and expansion valves.

Domestic Hot Water
Water heated for domestic or commercial purposes other than space heating and process requirements. Common uses include washing, bathing and cooking.

Dry Bulb
The sensible temperature of the air as measured by a standard thermometer.

Drycooler
A drycooler is similar to an air-cooled condensing unit, but utilizes a liquid solution, such as water, ethylene glycol/water or propylene glycol/water, to transfer heat in lieu of refrigerant and compressors.

Economizer
A method of operating a ventilation system to reduce refrigeration load. Whenever the outside air conditions are more favorable (lower heat content) than return air conditions, outdoor air quantity is increased.

Efficiency or Effectiveness
Typically used in reference to ERV systems. It is the ratio of energy transferred between the two air streams compared with the total energy transported through the heat exchanger.

Electronically Commutated Motor
A motor that uses a permanent magnet design to generate a rotating magnetic field. The rotating magnetic field causes the axle to rotate, spinning the fan. These motors are also referred to as brushless DC motors or Solid State Commutator (SSC) motors.

Energy Efficiency Ratio
The measure of the instantaneous energy efficiency of air conditioners; the cooling capacity in BTU/hr divided by the watts of power consumed at a specific outdoor temperature (usually 95 degrees Fahrenheit).

Energy Factor
The measure of overall efficiency for a variety of appliances. For water heaters, the energy factor is based on three factors: 1) the recovery efficiency, or how efficiently the heat from the energy source is transferred to the water; 2) stand-by losses, or the percentage of heat lost per hour from the stored water compared to the content of the water; and 3) cycling losses. For dishwashers, the energy factor is defined as the number of cycles per kWh of input power. For clothes washers, the energy factor is defined as the cubic foot capacity per kWh of input power per cycle. For clothes dryers, the energy factor is defined as the number of pounds of clothes dried per kWh of power consumed.

Energy Management System
A microprocessor-based system for controlling equipment and monitoring energy and other operating parameters in a building.

Energy Recovery Ventilator
A device that captures the sensible and latent heat from the exhaust air from a building and transfers it to the supply/fresh air entering the building to preheat the air and increase overall heating efficiency.

Enthalpy
The total heat content of air expressed in units of BTU/pound. It is the sum of the sensible and latent heat.

Gallons Per Minute
A measurement of liquid flow. Indicates how many gallons of water that pass by a stationary point in one minute.

Guest Room Energy Management
Guest room energy management controls use sensors to determine when a room is unoccupied and adjust the HVAC system operations accordingly. When guests return, the system readjusts to meet guest comfort requirements.

Heat Recovery Ventilator
A device that captures the sensible heat from the exhaust air from a building and transfers it to the supply/fresh air entering the building to preheat the air and increase overall heating efficiency.

High Turndown Burner
A boiler burner mixes fuel with air to produce combustion. The turndown ratio is the maximum inlet fuel or firing rate divided by the minimum firing rate. A burner higher turndown ratio reduces burner starts, provides better load control, saves wear and tear on the burner, reduces refractory wear, reduces purge-air requirements and provides fuel savings.

Integrated Energy Efficiency Ratio
A measure that expresses cooling part-load EER efficiency for commercial unitary air conditioning and heat pump equipment on the basis of weighted operation at various load capacities. IEER replaces IPLV for some equipment.

Integrated Part-Load Value
The efficiency performance factor at part-load cooling capacity. This performance is critical due to the higher quantity of operating hours under part-load conditions than at full load.

Kilowatt-hours
A unit of measurement for electrical energy usage. One kilowatt-hour equals 1000 watts of energy used for one hour.

Kilowatts
A unit of electrical power equivalent to 1000 watts.

Linkageless Controls
Linkageless burner systems remove mechanical linkages and mod-motors and replace them with servomotors and microprocessors. These systems can better modulate O_2, CO_2, and CO to maximum efficiency across the firing rate.

O_2 Trim Controls
The oxygen trim system provides feedback to the burner controls to automatically minimize excess combustion air and optimize the air-to-fuel ratio.

Outside Air Reset/Cutout Controls
Automatic controls to adjust boiler water temperatures based on outside air temperature and actual space heating requirements.

Packaged Terminal Air Conditioner
Air conditioning units intended for mounting through the wall that have a wall sleeve and a separate unencased combination of heating and cooling assemblies. A PTAC includes refrigeration components, separable outdoor louvers, forced ventilation and a heating system that may utilize hot water, steam or electric resistance.

Packaged Terminal Heat Pump
A type of PTAC that uses a reverse cycle refrigeration system for heating and includes a supplementary heat source. These units are more efficient than standard PTAC units.

Pounds Per Square Inch Absolute
A measurement of pressure. The force exerted on a surface in a fluid or gas measured relative to the absolute zero pressure – the pressure that would occur at absolute vacuum.

Pounds Per Square Inch Gauge
A measurement of pressure. The force exerted on a surface in a fluid or gas measured by a gauge relative to the surrounding atmosphere.

Seasonal Energy Efficiency Ratio
A measure of seasonal or annual efficiency of an air conditioner or heat pump. It takes into account the variations in temperature that can occur within a season and is the average number of BTU of cooling delivered for every watt-hour of electricity used by the heat pump over a cooling season.

Standard cubic feet per minute
This measurement indicates how many cubic feet of air pass by a stationary point in one minute at standard conditions.

Steam Trap
Steam traps are automatic valves used in every steam system to remove condensate, air and other non-condensable gases while preventing or minimizing the passing of steam. If condensate is allowed to collect, it reduces the flow capacity of steam lines and the thermal capacity of heat transfer equipment.

Thermal Efficiency
A measure of the efficiency of converting a fuel to energy, heat or useful work. It is a ratio of energy output divided by fuel energy input expressed as a decimal or percentage (example: 0.95 or 95%).

Variable Frequency Drive
An electronic controller that adjusts the speed of an electric motor by modulating the power being delivered. Variable frequency drives provide continuous control, matching motor speed to the actual demands of the pump, fan or motor system. Motor speed fully modulates as the frequency of the alternating current is adjusted by the VFD.

Variable Speed Drive
Often used interchangeably with variable frequency drive. These drives are often used on smaller motors, direct current (DC) motors and multiple speed motors that do not need full modulation.

CONVERSIONS

Term	Description	Conversion
BHP	Boiler Horsepower	1 BHP = 33,476 BTUh
kWh	Kilowatt-hours	1 kWh = 3,413 BTU
HP	Horsepower	1 HP = 0.746 kW
kW/ton	Kilowatt per ton of cooling	kW/ton = 12 / EER
kW/ton	Kilowatt per ton of cooling	kW/ton = 12 / (COP x 3.413)
COP	Coefficient of Performance	COP = EER / 3.413
COP	Coefficient of Performance	COP = 12 / (kW/ton x 3.413)
EER	Energy Efficiency Ratio	EER = 12 / kW/ton
EER	Energy Efficiency Ratio	EER = COP x 3.413
Ton	Unit of capacity for cooling equipment	1 Ton = 12,000 BTUh
MBh	1,000 BTUh	1 MBh = 1,000 BTUh
Therm	100,000 BTU	1 Therm = 100,000 BTUh (or 100 CF or 0.1 MCF)
CF	Quantity of natural gas	1 CF = 1 cubic foot (= approximately 1,000 BTU)
CCF	Quantity of natural gas	1 CCF = 100 cubic feet
MCF	Quantity of natural gas	1 MCF = 1,000 cubic feet (or 10 CCF or 10 Therms)

SOURCES Terms defined in the Glossary were referenced from the following sources:

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