

2022 HVAC Application



Consumers Energy
Business Energy Efficiency Programs

Consumers Energy

Count on Us®

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Resources

Learn more about incentive caps and limits, pre-notifications, how to apply, terms and conditions and qualifying equipment specifications in our main Incentive Application and Catalog. This information can be found at: ConsumersEnergy.com/startsaving.

Need help?
Call 877-607-0737
or Email: ConsumersEnergyBusinessSolutions@cmsenergy.com

Final Application/Customer Signature

| Measure Category | Category Total (Before) | Buy Michigan |
|---|-------------------------|--------------|
| Variable Frequency Drives (VFD) | | |
| Miscellaneous Electric | | |
| HVAC Equipment | | |
| Building Automation Systems | | |
| Advanced Air Distribution and Energy Recovery | | |
| Pipe and Ductwork Insulation | | |

| Incentive Totals | |
|------------------------|--|
| Measure Subtotal | |
| 15% Buy Michigan Bonus | |
| Incentive Total | |

Important: Please read the Terms and Conditions before signing and submitting this application. A customer signature is required for payment in the incentive requested. Checks will be made out to the name of the applicant's business, unless payment is released in the third party payment release section below.

| Incentive Requested | | |
|--|---------------------------|------------------------|
| Total Project Cost | Total Incentive Requested | Actual Completion Date |
| Company Name (as it appears on Consumers Energy bill) | | Project # |
| Customer Signature | | Date |
| Print Name | | Title |

▶ Upon signing, I am stating that I have read and understand the Terms and Conditions set forth by this program.

Third Party Payment Release

Skip This Section If Rebate Check Will Be Made Payable To Customer

I authorize the payment of the incentive to the third party named below, and I understand that I will not be receiving the incentive payment. I also understand that my release of the payment to a third party does not exempt me from the program requirements outlined in the Incentive Catalog, Final Application Agreement and Terms and Conditions.

Authorized By:

| | | |
|---------------|-----------|------|
| Customer Name | Signature | Date |
|---------------|-----------|------|

Check should be made payable to:

| | |
|--------------------------|-------|
| Individual/Company Name* | Phone |
|--------------------------|-------|

Mailing Address

| | | |
|------|-------|-----|
| City | State | ZIP |
|------|-------|-----|

Tax Status:** Individual/Sole proprietor C Corporation Partnership LLC Enter Tax Classification _____
 single-member LLC S Corporation Trust/Estate Other _____

Tax ID Number Please provide your EIN/Federal Tax ID below.

EIN/Federal Tax ID -

Exemptions

Payee Code _____ FATCA Code _____

▶ Please note that this document will require re-saving each time a digital signature is used.

* Company name as it appears on your W-9.

** W-9 must be provided for payee with application.

Print This Form

HVAC Equipment

Check the **Buy Michigan Box**  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit.  qualifies New Construction.

Split and Unitary Air Conditioning Systems

(Consumers Energy Electric Customers)

| ID | Equipment | Size Category | Qualifying Efficiency | Incentive | Unit |
|--------|--------------------------------|-----------------------|------------------------|-----------|------|
| HV101a | Split Air Conditioning Systems | < 5.4 tons | 15.0 SEER | \$30.00 | Ton |
| HV101b | | ≥ 5.4 to < 11.25 tons | 12.0 EER/ 13.8 IEER | \$40.00 | Ton |
| HV101c | | ≥ 11.25 to < 20 tons | 12.0 EER/ 13.0 IEER | \$40.00 | Ton |
| HV101d | | ≥ 20 to < 63 tons | 10.6 EER/ 12.1 IEER | \$30.00 | Ton |
| HV101e | | > 63 tons | 10.2 EER | \$30.00 | Ton |

| ID | Equipment | Size Category | Qualifying Efficiency | Incentive | Unit |
|--------|--|-----------------------|------------------------|-----------|------|
| HV101f | Unitary Air Conditioning Systems (RTU's) | < 5.4 tons | 15.0 SEER | \$30.00 | Ton |
| HV101g | | ≥ 5.4 to < 11.25 tons | 12.0 EER/ 13.8 IEER | \$40.00 | Ton |
| HV101h | | ≥ 11.25 to < 20 tons | 12.0 EER/ 13.0 IEER | \$40.00 | Ton |
| HV101i | | ≥ 20 to < 63 tons | 10.6 EER/ 12.1 IEER | \$30.00 | Ton |
| HV101j | | ≥ 63 tons | 10.2 EER | \$30.00 | Ton |

| Equipment (See Above) | Make and Model | SEER, EER | IEER | Unit Size (Tons) (A) | Quantity (B) | Incentive per Ton (C) | Total Incentive (AxBxC) |
|-----------------------|----------------|-----------|------|----------------------|--------------|-----------------------|-------------------------|
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Computer Room Air Conditioning (Pre-Notification Required*)

(Consumers Energy Electric Customers)

| ID | Equipment Type | Equipment Size | Min SCOP | Incentive Per MBH | Actual SCOP | Unit Size MBH | Quantity | Total Incentive |
|--------|--|-----------------------|----------|-------------------|-------------|---------------|----------|-----------------|
| HV102a | High-Efficiency Computer Room Air Conditioning | < 65 MBH | 2.9 | \$20.00 | | | | |
| HV102b | | ≥ 65 MBH to < 240 MBH | 2.7 | | | | | |
| HV102c | | ≥ 240 MBH | 2.5 | | | | | |

| ID | Equipment Type | Return Air Temp | Incentive | Unit | Actual SCOP | Unit Size MBH | Quantity | Total Incentive |
|--------|---|----------------------------|-----------|------|--------------|---------------|----------|-----------------|
| HV103a | Data Room Hot/Cold Aisle Configuration* | Increased by at least 5°F | \$10.00 | MBH | | | | |
| HV103b | | Increased by at least 10°F | \$20.00 | MBH | | | | |

*Pre-Notification is required.

Air Conditioning

(Consumers Energy Electric Customers)

| ID | Equipment Type | Size | Incentive | Unit | Unit Size Tons | Quantity | Total Incentive |
|--------|---|--|-----------|------|----------------|----------|-----------------|
| HV104a | Packaged Terminal Air Conditioning (PTAC) | < 7,000 BTU/hr. = 13.1 EER | \$50.00 | Unit | | | |
| HV104b | | 7,000 to 15,000 BTU/hr. = 11.8 EER | \$60.00 | Unit | | | |
| HV104c | | > 15,000 Btu/hr. = 10.5 EER | \$70.00 | Unit | | | |
| HV105a | Packaged Terminal Heat Pump (PTHP) | < 7000 BTU/hr. = 13.1 EER | \$30.00 | Unit | | | |
| HV105b | | 7000 BTU/hr - 15000 BTU/hr. = 11.8 EER | \$35.00 | Unit | | | |
| HV105c | | > 15000 BTU/hr. = 10.5 EER | \$40.00 | Unit | | | |
| HV106 | Ductless Air Conditioning or Heat Pump System | | \$50.00 | Unit | | | |

Subtotal HVAC Equipment Incentive - Page 1

HVAC Equipment

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit.  qualifies New Construction.

Ground Source Heat Pump

(Consumers Energy Electric Customers)

| ID | Equipment Type | Size | \$/ton 17 EER Base Incentive | \$/ton 0.1 EER Incentive | Quantity | Unit Size Tons | EER | Base Incentive | Incremental Incentive | Total Incentive |
|-------|-------------------------|------------------------|------------------------------|--------------------------|----------|----------------|-----|----------------|-----------------------|-----------------|
| HV201 | Ground Source Heat Pump | < 135 MBH (11.25 tons) | \$30.00 | \$1.00 | | | | | | |

Humidification (Pre-Notification Required)

(Consumers Energy Electric Customers)

| ID | Equipment Type | Incentive | Unit | Number of Humidifier | Total Area Served | Total Incentive |
|-------|-----------------------|-----------|-------------|----------------------|-------------------|-----------------|
| HV202 | Ultrasonic Humidifier | \$0.10 | Square Foot | | | |

Chillers

(Consumers Energy Electric Customers)

| ID | Equipment Type | Size | Unit | Path A - FLV Reduction | | Path B - IPLV Reduction | | \$/Ton Base | \$/0.01 Reduction |
|--------|---|------------------------|--------|------------------------|------|-------------------------|----------|-------------|-------------------|
| | | | | FLV (E) | IPLV | FLV | IPLV (H) | | |
| HV203a | Air-Cooled Chillers | < 150 ton | kW/ton | 1.19 | 0.88 | 1.24 | 0.76 | \$7.00 | \$2.00 |
| HV203b | | ≥ 150 ton | kW/ton | 1.19 | 0.86 | 1.24 | 0.75 | \$7.00 | \$2.00 |
| HV204a | Water Cooled Positive Displacement (Screw) Chillers | < 75 ton | kW/ton | 0.75 | 0.6 | 0.78 | 0.5 | \$10.00 | \$2.00 |
| HV204b | | ≥ 75 ton and < 150 ton | kW/ton | 0.72 | 0.56 | 0.75 | 0.49 | \$10.00 | \$2.00 |
| HV204c | | ≥ 150 ton & < 300 ton | kW/ton | 0.66 | 0.54 | 0.68 | 0.44 | \$10.00 | \$2.00 |
| HV204d | | ≥ 300 ton & < 600 ton | kW/ton | 0.61 | 0.52 | 0.63 | 0.41 | \$10.00 | \$2.00 |
| HV204e | | ≥ 600 ton | kW/ton | 0.56 | 0.5 | 0.59 | 0.38 | \$10.00 | \$2.00 |
| HV205a | Water Cooled Centrifugal Chillers | < 150 ton | kW/ton | 0.61 | 0.55 | 0.7 | 0.44 | \$10.00 | \$2.00 |
| HV205b | | ≥ 150 ton & < 300 ton | kW/ton | 0.61 | 0.55 | 0.64 | 0.4 | \$10.00 | \$2.00 |
| HV205c | | ≥ 300 ton & < 400 ton | kW/ton | 0.56 | 0.52 | 0.6 | 0.39 | \$10.00 | \$2.00 |
| HV205d | | ≥ 400 ton & < 600 ton | kW/ton | 0.56 | 0.5 | 0.59 | 0.38 | \$10.00 | \$2.00 |
| HV205e | | ≥ 600 ton | kW/ton | 0.56 | 0.5 | 0.59 | 0.38 | \$10.00 | \$2.00 |

| Equipment Type | Made and Model | Size (tons) (A) | FLV (B) | IPLV (C) | # of chillers (D) | Path | \$/Ton (F) | \$/0.01 Reduction (G) | Base Incentive | Incremental Incentive | Incentive |
|------------------------|----------------------------------|-----------------|---------|----------|-------------------|--------|------------|-----------------------|----------------|-----------------------|------------|
| HV201a | Air Cooled Reciprocating Chiller | 100 | 1.15 | 0.75 | 1 | Path A | \$7.00 | \$2.00 | \$700.00 | \$800.00 | \$1,500.00 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Total Incentive | | | | | | | | | | | |

Total incentive per ton equals the qualifying base incentive per ton plus the maximum incentive per efficiency increase. The incentive per efficiency increase can be calculated as a maximum incentive between Path A or Path B.

For example: One 100-ton air-cooled chiller at 0.75 kW/ton IPLV and 1.15 kW/ton FLV:

Base incentive: (A x D X F) or 100 tons x 1 x \$7/ton = \$700

Path A: Full load incentive: (A x D x [(E - B)/0.01] x G) or (100 tons x 1 x [(1.19 - 1.15)/0.01] x \$2.00 = \$800

Path B: Part load incentive: (A x D x [(H - C)/0.01] x G) or (100 tons x 1 x [(0.76 - 0.75)/0.01] x \$2.00 = \$200

Total incentive: \$700 + Maximum (\$200, \$800) = \$900 or \$1,500

Subtotal HVAC Equipment Incentive - Page 2

HVAC Equipment

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit.  qualifies New Construction.

Industrial Fans (Pre-Notification Required)

| ID | Equipment Type | Incentive | Unit | # of Units | Total Incentive |
|-------|--|-----------|-------------|------------|-----------------|
| HV301 | High-Volume, Low-Speed Fan (Consumers Energy Electric Customers) | \$400.00 | Fan | | |
| HV302 | De-stratification Fan (Temperature Gradient Greater than 15°F) (Consumers Energy Natural Gas Customers) | \$0.20 | Square Foot | | |

Heating

(Consumers Energy Natural Gas Customers, unless otherwise stated)

| ID | Hydronic Boiler* | Incentive | Input Unit | Quantity | Unit Size | Total Incentive |
|-------|---|-----------|------------|----------|-----------|-----------------|
| HV303 | HVAC Boiler 88% to 89.9% Efficiency - Level 1 | \$1.50 | MBH | | | |
| HV304 | HVAC Boiler at least 90% Efficiency - Level 2 | \$2.00 | MBH | | | |

| ID | Steam or Process Boilers* | Incentive | Input Unit | Quantity | Unit Size | Total Incentive |
|-------|--|-----------|------------|----------|-----------|-----------------|
| HV305 | Process Steam Boilers (at Least 82% Efficient) | \$1.25 | MBH | | | |
| HV306 | HVAC Steam Boilers (at Least 82% Efficient) | \$2.00 | MBH | | | |
| HV307 | Process Hydronic (Water) Boilers (at Least 82% Efficient) | \$1.20 | MBH | | | |
| HV308 | High-Efficiency Pool Water Heater (at Least 84% Efficient) | \$2.00 | MBH | | | |

*Type of efficiency varies between AFUE, thermal or combustion based upon boiler size. Reference the program catalog for additional details.

| ID | Unit Heater Type/AHU Type | Incentive | Input Unit | Quantity | Unit Size | Total Incentive |
|-------|--|-----------|------------|----------|-----------|-----------------|
| HV309 | High-Efficiency Unit Heater (at Least 92% Efficient) | \$3.99 | MBH | | | |
| HV310 | High-Efficiency Unit Heater (at Least 95% Efficient) | \$7.91 | MBH | | | |
| HV311 | Direct Fired Makeup Air Handling Units | \$1.50 | MBH | | | |

| ID | Condensing RTU | Incentive | Input Unit | Quantity | Unit Size | Total Incentive |
|-------|-------------------------|-----------|------------|----------|-----------|-----------------|
| HV312 | Condensing Rooftop Unit | \$25.00 | MBH | | | |

| ID | Infrared Heater Type (Pre-Notification Required) | Incentive | Input Unit | Quantity | Unit Size | Total Incentive |
|-------|---|-----------|------------|----------|-----------|-----------------|
| HV313 | Infrared Heaters (Consumers Energy Electric and Natural Gas Customers) | \$9.00 | MBH | | | |
| HV314 | Infrared Heaters (Consumers Energy Natural Gas Customers) | \$5.00 | MBH | | | |

| ID | Furnaces | Incentive | Unit | Quantity | Unit Size (MBH) | Total Incentive |
|-------|---|-----------|---------|----------|-----------------|-----------------|
| HV315 | High Efficiency Furnace ≤ 120 MBH, 92% AFUE | \$300.00 | Furnace | | | |
| HV316 | High Efficiency Furnace > 120 MBH, 92% AFUE | \$350.00 | Furnace | | | |
| HV317 | High Efficiency Furnace ≤ 120 MBH, 95% AFUE | \$325.00 | Furnace | | | |
| HV318 | High Efficiency Furnace > 120 MBH, 95% AFUE | \$400.00 | Furnace | | | |

Subtotal HVAC Equipment Incentive - Page 3

HVAC Equipment

Check the **Buy Michigan Box**  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit.  qualifies New Construction.

Heating

(Consumers Energy Natural Gas Customers, unless otherwise stated)

| ID | Domestic Water Heating | Incentive | Input Unit | Unit Size (MBH) | Quantity | Total Incentive |  |
|--------|---|--|------------|-----------------|----------|-----------------|---|
| HV401 | High-Efficiency Domestic Water Heating Boilers (at least 94% Thermal Efficiency) | \$1.50 | MBH | | | | <input type="checkbox"/> |
| HV402a | High-Efficiency Tank-Style Domestic Water Heater < 55 Gallons | ≤ 75 MBH, ≥ 0.64 UEF | Heater | | | | <input type="checkbox"/> |
| HV402b | | ≤ 75 MBH, ≥ 0.68 UEF | Heater | | | | <input type="checkbox"/> |
| HV402c | High-Efficiency Tank-Style Domestic Water Heater ≥ 55 Gallons, ≤ 75 MBH, ≥ 0.80 UEF | \$50.00 | Heater | | | | <input type="checkbox"/> |
| HV403 | High-Efficiency Tank-Style Domestic Water Heater ≤ 140 Gallon, > 75 MBH, 94% Thermal Efficiency | \$275.00 | Heater | | | | <input type="checkbox"/> |
| HV404a | Tankless Water Heater | Natural Gas, ≥ 0.87 UEF | Heater | | | | <input type="checkbox"/> |
| HV404b | | Electric, ≥ 0.95 UEF (Consumers Energy Electric Customers) | Heater | | | | <input type="checkbox"/> |

Subtotal HVAC Equipment Incentive - Page 4

Total HVAC Equipment Incentive

Miscellaneous Electric

Miscellaneous

(Consumers Energy Electric Customers)

| ID | Measure | Incentive | Unit | # of Units | Total Incentive |  |
|-------|-------------------------------------|-----------|------|------------|-----------------|---|
| ME108 | Cogged V-Belt Drives (1 to 25 HP) | \$5.00 | HP | | | <input type="checkbox"/> |
| ME109 | Cogged V-Belt Drives (26 to 500 HP) | \$2.50 | HP | | | <input type="checkbox"/> |

Total Miscellaneous Electric Incentive

Centralized Building Automation System (BAS) (Pre-Notification Required)

| ID | Measure | Incentive | Unit | # of Units | Total Incentive |
|--|--|---|--------|-------------|-----------------|
| BA101a | Web-Based Building Automation Systems (BAS) (Temperature Setback in Non-occupied Periods) | Air Conditioning (Consumers Energy Electric Customers) | \$0.15 | Square Foot | |
| BA101b | | BAS Non-A/C Schools (Consumers Energy Electric Customers) | \$0.15 | Square Foot | |
| Building Automation System Total Incentive | | | | | |
| Building Automation System Awarded Incentive (Maximum Cannot Exceed \$75,000) | | | | | |
| BA102 | Light Commercial Building Automation Systems (BAS) (Temperature Setback in Non-occupied Periods) | Air Conditioning (Consumers Energy Electric Customers) | \$0.15 | Square Foot | |
| Building Automation System Total Incentive | | | | | |
| Building Automation System Awarded Incentive (Maximum Cannot Exceed \$35,000) | | | | | |
| BA103a | Optimal Start on Air Handling Units | Air Conditioning and Natural Gas Heat (Consumers Energy Electric & Natural Gas Customers) | \$0.30 | Square Foot | |
| BA103b | | Natural Gas Heat (Consumers Energy Natural Gas Customers) | \$0.05 | Square Foot | |
| BA103c | | Air Conditioning (Consumers Energy Electric Customers) | \$0.07 | Square Foot | |
| Optimal Start Total Incentive | | | | | |
| Optimal Start Awarded Incentive (Maximum Cannot Exceed \$50,000) | | | | | |
| ID | Measure (Pre-Notification Required) | Incentive | Unit | # of Units | Total Incentive |
| BA104 | BAS for Manufacturing HVAC Fans (Consumers Energy Electric Customers) | \$150.00 | HP | | |
| BA105 | Parking Garage Exhaust Fan Carbon Monoxide (CO) Control (Consumers Energy Electric Customers) | \$300.00 | HP | | |
| BA106 | Hydronic HVAC Pump Control (Consumers Energy Electric Customers) | \$80.00 | HP | | |
| BA107 | Critical Zone Supply Air Reset Control (Consumers Energy Electric Customers) | \$25.00 | Ton | | |
| BA108 | Air-Side Economizer (Consumers Energy Electric Customers) | \$15.00 | Ton | | |
| BA109a | Chilled Water Reset Retrofit (5-degree reset) (Consumers Energy Electric Customers) | \$15.00 | Ton | | |
| BA109b | Chilled Water Reset Retrofit (10-degree reset) (Consumers Energy Electric Customers) | \$30.00 | Ton | | |
| BA110 | Optimized Chiller Plant Sequencing | \$4.00 | Ton | | |

Advanced Rooftop HVAC Controls (Pre-Notification Required)

| ID | Measure | Incentive | Unit | Quantity | Total Incentive |
|--------|------------------------------|---|----------|----------|-----------------|
| BA111a | Enhanced Ventilation Control | Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Natural Gas Customers) | \$330.00 | Ton | |
| BA111b | | Natural Gas Heat (Consumers Energy Natural Gas Customers) | \$170.00 | Ton | |
| BA111c | | Air Conditioning (Consumers Energy Electric Customers) | \$80.00 | Ton | |

Unitary Control (Pre-Notification Required)

| ID | Measures | Area (FT ²) | Incentive | Unit | # of Units | Total Incentive |  |
|--------|--|---|---|---------|-----------------|-----------------|---|
| BA201a | Hotel Guest Room | Natural Gas Heat (Consumers Energy Natural Gas Customers) |  | \$80.00 | Room Controlled | | <input type="checkbox"/> |
| BA201b | Occupancy Sensor | Electric Heat (Consumers Energy Electric Customers) |  | \$80.00 | Room Controlled | | <input type="checkbox"/> |
| BA202a | Programmable Thermostat | Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Natural Gas Customers) | | \$48.00 | Thermostat | | <input type="checkbox"/> |
| BA202b | | Natural Gas Heat (Consumers Energy Natural Gas Customers) | | \$40.00 | Thermostat | | <input type="checkbox"/> |
| BA202c | | Air Conditioning (Consumers Energy Electric Customers) | | \$8.00 | Thermostat | | <input type="checkbox"/> |
| BA203a | Occupancy Sensor Control for Smart Thermostats | Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Natural Gas Customers) | | \$0.04 | Square Foot | | <input type="checkbox"/> |
| BA203b | | Natural Gas Heat (Consumers Energy Natural Gas customers) | | \$0.02 | Square Foot | | <input type="checkbox"/> |
| BA203c | | Air Conditioning (Consumers Energy Electric Customers) | | \$0.02 | Square Foot | | <input type="checkbox"/> |

Ventilation Controls (Pre-Notification Required)

| ID | Measures | Incentive | Unit | # of Units | Total Incentive |  |
|--------|--|---|---------|-------------|-----------------|---|
| BA204a | Demand Control Ventilation | Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Natural Gas Customers) | \$0.50 | Square Foot | | <input type="checkbox"/> |
| BA204b | | Natural Gas Heat (Consumers Energy Natural Gas Customers) | \$0.25 | Square Foot | | <input type="checkbox"/> |
| BA204c | | Air Conditioning (Consumers Energy Electric Customers) | \$0.03 | Square Foot | | <input type="checkbox"/> |
| BA205a | Occupancy Sensor Control for HVAC BAS Systems | Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Natural Gas Customers) | \$0.08 | Square Foot | | <input type="checkbox"/> |
| BA205b | | Natural Gas Heat (Consumers Energy Natural Gas Customers) | \$0.04 | Square Foot | | <input type="checkbox"/> |
| BA205c | | Air Conditioning (Consumers Energy Electric Customers) | \$0.04 | Square Foot | | <input type="checkbox"/> |
| BA206a | Demand Control Ventilation and Occupancy Sensors for HVAC | Air Conditioning and Natural Gas Heat (Consumers Energy Electric and Natural Gas Customers) | \$0.40 | Square Foot | | <input type="checkbox"/> |
| BA206b | | Natural Gas Heat (Consumers Energy Natural Gas Customers) | \$0.15 | Square Foot | | <input type="checkbox"/> |
| BA206c | | Air Conditioning (Consumers Energy Electric Customers) | \$0.04 | Square Foot | | <input type="checkbox"/> |
| BA207 | Occupancy Sensor Controlled Restroom Exhaust Fan (Electric Only) | | \$10.00 | Fan | | <input type="checkbox"/> |

Boiler Controls (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

| ID | Measure | Incentive | Input Unit | # of Units | Total Incentive |
|--------|---|-----------|-------------|------------|-----------------|
| BA301a | Optimized Boiler Plant Sequencing | HVAC | MBH | | |
| BA301b | | Process | | | |
| BA302a | Modulating Burner Control* | HVAC | MBH | | |
| BA302b | | Process | | | |
| BA303a | Boiler Oxygen Trim Control* | HVAC | MBH | | |
| BA303b | | Process | | | |
| BA304a | Linkageless (Parallel Positioning) Boiler Controls* | HVAC | MBH | | |
| BA304b | | Process | | | |
| BA305a | Combination Boiler Oxygen Trim Control and Linkageless Boiler Controls* | HVAC | MBH | | |
| BA305b | | Process | | | |
| BA306 | Water Reset Control Retrofit | \$0.70 | MBH | | |
| BA307 | Basic Snow Melt Controls Retrofit | \$0.50 | Square Foot | | |
| BA308 | Enhanced Snow Melt Controls | \$0.60 | Square Foot | | |

* Not eligible on new condensing boilers

Makeup Air Handling Unit Burner Controls (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

| ID | Measure | Incentive | Input Unit | # of Units | Total Incentive |
|--------|---|-----------|------------|------------|-----------------|
| BA309a | Modulating Burner on Makeup Air Handling Unit (Continuous Operation) | \$5.00 | MBH | | |
| BA309b | Modulating Burner on Makeup Air Handling Unit (> 100 hrs./week Operation) | \$5.00 | MBH | | |
| BA309c | Modulating Burner on Makeup Air Handling Unit (> 50 hrs./week Operation) | \$1.00 | MBH | | |

Subtotal Building Automation Controls Incentive - Page 3

Total Building Automation Controls Incentive

Advanced Air Distribution and Energy Recovery

Check the **Buy Michigan Box**  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit.  qualifies New Construction.

Advanced Air Distribution Systems (Pre-Notification Required)

| ID | Measure | Customer Type | Incentive | Unit | # of Units | Total Incentive |
|--------|---|--------------------------|-----------|-------------|------------|-----------------|
| AE101a | Constant Volume AHU to VAV AHU with Hydronic Reheat | Electric and Natural Gas | \$1.25 | Square Foot | | |
| AE101b | | Electric | \$0.60 | Square Foot | | |
| AE101c | | Natural Gas | \$0.25 | Square Foot | | |
| AE102a | Constant Volume AHU to Hydronic Heat Pump Loop | Electric and Natural Gas | \$0.60 | Square Foot | | |
| AE102b | | Electric | \$0.45 | Square Foot | | |
| AE102c | | Natural Gas | \$0.15 | Square Foot | | |

Energy Recovery (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

| ID | Measure | Incentive | Unit | # of Units | Unit Size | Total Incentive |
|-------|---|-----------|------|------------|-----------|-----------------|
| AE103 | Enthalpy Wheel Energy Recovery Unit | \$0.40 | CFM | | | |
| AE104 | Fixed-Plate Air-to-Air Energy Recovery Unit | \$0.35 | CFM | | | |
| AE105 | Dust Collector Air Exhaust Recovery Unit | \$1.50 | CFM | | | |

Boiler Efficiency Improvements (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

| ID | Measure | Stack Temp Decrease | Incentive | Input Unit | # of Units | Unit Size | Total Incentive |
|--------|-------------------------------------|---------------------|-----------|------------------|------------|-----------|-----------------|
| AE106a | HVAC Boiler Stack Economizer | 80 Degrees | \$0.50 | MBH | | | |
| AE106b | | 200 Degrees | \$1.00 | MBH | | | |
| AE107a | Process Boiler Stack Economizer | 80 Degrees | \$1.50 | MBH | | | |
| AE107b | | 200 Degrees | \$3.00 | MBH | | | |
| AE108 | Steam Boiler Makeup Water Pre-Heat | | \$10.00 | MMBtu/yr. | | | |
| AE109 | Automatic Boiler Blowdown Reduction | | \$0.02 | Gal./yr. Reduced | | | |

Refrigeration Waste Heat Recovery (Pre-Notification Required)

(Consumers Energy Natural Gas Customers)

| ID | Measure | Incentive | Unit | # of Units | Unit Size | Total Incentive |
|-------|---|-----------|------|------------|-----------|-----------------|
| AE110 | Refrigeration Waste Heat Recovery Decreasing Domestic Water Heating | \$200.00 | Ton | | | |
| AE111 | Refrigeration Waste Heat Recovery Decreasing HVAC Heating Load | \$125.00 | Ton | | | |

Subtotal Advanced Air Distribution and Energy Recovery Incentive - Page 1

Advanced Air Distribution and Energy Recovery

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit.  qualifies New Construction.

Air-Side Economizer (Pre-Notification Required)

(Consumers Energy Electric Customers)

| ID | Equipment Type | Incentive | Unit | # of Units | Total Incentive |
|-------|---|-----------|------|------------|-----------------|
| AE201 | Computer Room Air Conditioning Glycol Economizer | \$60.00 | MBH | | |
| AE202 | Air-Side Economizer for CRAC or Telecom Applications | \$60.00 | MBH | | |
| AE203 | Air-Side, Air to Air Heat Exchange Economizer for CRAC or Telecom Application | \$30.00 | MBH | | |

Water-Side Economizer (Pre-Notification Required)

(Consumers Energy Electric Customers)

| ID | Equipment Type | Incentive | Unit | # of Units | Total Incentive |
|-------|----------------------|-----------|------|------------|-----------------|
| AE204 | Water-Cooled Chiller | \$60.00 | Ton | | |
| AE205 | Air-Cooled Chiller | \$150.00 | Ton | | |

Condenser Heat Recovery (DX Compressor Waste Heat Recovery) (Pre-Notification Required)

| ID | Measure | Customer Type | Incentive | Unit | # of Units | Total Incentive |
|-------|---|---------------------------------------|-----------|------|------------|-----------------|
| AE206 | Water-Cooled Condenser Electric DWH HVAC or Process Applications | Consumers Energy Electric Customer | \$400.00 | Ton | | |
| AE207 | Air-Cooled Condenser Electric DWH HVAC or Process Applications | Consumers Energy Electric Customer | \$500.00 | Ton | | |
| AE208 | Water-Cooled Condenser Natural Gas DWH HVAC or Process Applications | Consumers Energy Natural Gas Customer | \$150.00 | Ton | | |
| AE209 | Air-Cooled Condenser Natural Gas DWH HVAC or Process Applications | Consumers Energy Natural Gas Customer | \$200.00 | Ton | | |

Operating Room Air Exchange Rate Setback (Pre-Notification Required)

| ID | Measure | Customer Type | Incentive | Unit | # of Units | Total Incentive |
|--------|--|--|-----------|-------------|------------|-----------------|
| AE210a | Operating Room with at least 20% Outside Air | Consumers Energy Natural Gas and Electric Customer | \$2.00 | Square Foot | | |
| AE210b | | Consumers Energy Natural Gas Customer | \$1.00 | Square Foot | | |
| AE210c | | Consumers Energy Electric Customer | \$1.00 | Square Foot | | |
| AE211a | Operating Room with 100% Outside Air | Consumers Energy Natural Gas and Electric Customer | \$3.00 | Square Foot | | |
| AE211b | | Consumers Energy Natural Gas Customer | \$1.50 | Square Foot | | |
| AE211c | | Consumers Energy Electric Customer | \$1.50 | Square Foot | | |

Subtotal Advanced Air Distribution and Energy Recovery Incentive - Page 2

Total Advanced Air Distribution and Energy Recovery

Process Variable Frequency Drives (Up to 250 HP)
(*Pre-Notification Required for Motors over 50 HP)

(Consumers Energy Electric Customers)

| ID | Measure | Incentive (A) | Unit (B) |
|-------|--|---------------|----------|
| VF201 | VFD on Process Pump up to 50 HP | \$125.00 | HP |
| VF202 | VFD on Process Pump 51 HP to 250 HP* | \$75.00 | HP |
| VF203 | VFD on Process Fan up to 50 HP | \$100.00 | HP |
| VF204 | VFD on Process Fan 51 HP to 250 HP* | \$50.00 | HP |
| VF205 | VFD on Process Fan - Fixed Speed (54 Hz or less)* | \$75.00 | HP |
| VF206 | VFD on Process Pump - Fixed Speed (54 Hz or less)* | \$100.00 | HP |
| VF207 | VFD on Computer Room Air Condition (CRAC) Unit | \$150.00 | HP |
| VF208 | VFD on Open Loop Pumping Systems up to 100 HP | \$40.00 | HP |
| VF209 | VFD on Condenser Fan - Med Temp Refrigeration (33 to 50°F) | \$100.00 | HP |
| VF210 | VFD on Condenser Fan - Low Temp Refrigeration (Below 32°F) | \$120.00 | HP |
| VF211 | VFD on Pool Circulation Pump - up to 50 HP | \$200.00 | HP |
| VF212 | VFD on Process Cooling Tower Fan | \$40.00 | HP |
| VF213 | VSD for Industrial Vacuum Pump Systems | \$20.00 | HP |

*Pre-Notification required for motors over 100 HP (or Process Pumps or Fans greater than 50 HP). Please fill out the Variable Frequency Drive Worksheet in the Catalog Appendix.

| VFD Application (See Above) | Installation Type (i) | Control Before VFD (ii) | Control Variable (iii) | Incentive Rate (See above) (A) | Controlled Motor Size (HP) (B) | Quantity (C) | Incentive (A x B x C) |
|-----------------------------|-----------------------|-------------------------|------------------------|--------------------------------|--------------------------------|--------------|-----------------------|
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VFD Installation Type (I)

| Code | Description | Code | Description |
|------|-----------------------|------|------------------------|
| SFA | HVAC Supply Air Fan | CDWP | Condenser Water Pump |
| RFA | HVAC Return Air Fan | CW | Chilled Water Pump |
| BEF | Building Exhaust Fan | WSP | Domestic Water Pump |
| MAF | Make-up Air Fan | FWP | Boiler Feed Water Pump |
| CTF | Cooling Tower Fan | HW | Hydronic HVAC Pump |
| BDF | HVAC Boiler Draft Fan | PP | Pool Pump |
| FM | Other Fan (Specify): | PM | Other Pump (Specify): |

Control Before VFD (II)

| Code | Description |
|------|--------------------------------|
| DD | Discharge Damper |
| IGV | Inlet Guide Vanes |
| OCV | Outlet Control/ Throttle Valve |
| BV | Bypass |
| ONF | ON/OFF |
| MISC | Other (Specify): |

Control Variable (III)

| Code | Description |
|------|------------------|
| Temp | Temperature |
| P | Pressure |
| Flow | Volume Flow Rate |
| Misc | Variable Input |

Subtotal VFD Incentive - Page 2

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit.  qualifies New Construction.

Integrated Variable Speed Motor (ECM) for Fans

(Consumers Energy Electric Customers)

| ID | Measure | Incentive (A) | Unit | # of HP per Motor (B) | # of Motors (C) | Total Incentive (A x B x C) |
|-------|---|---------------|------|-----------------------|-----------------|-----------------------------|
| VF301 | Integrated Variable Speed Motor (ECM) for Furnaces, UVs, FCs and Light Duty AHUs (up to 7.5 HP) | \$100.00 | HP | | | |
| VF302 | Integrated Variable Speed Motor (ECM) for Exterior Condenser Fans | \$30.00 | HP | | | |

Integrated Variable Speed Motor (ECM) for Pumps

(Consumers Energy Electric Customers)

| ID | Measure | | Incentive | Unit | # of Watts | # of Motors | Total Incentive |
|--------|---|----------------|-----------|-----------|------------|-------------|-----------------|
| VF303a | ECM on Domestic Hot Water Recirculation | < 500w | \$100.00 | EC Motors | | | |
| VF303b | | 500w to 1,000w | \$250.00 | EC Motors | | | |
| VF303c | | > 1,000w | \$500.00 | EC Motors | | | |
| VF304a | ECM on Hydronic Heating | < 500w | \$50.00 | EC Motors | | | |
| VF304b | | 500w to 1,000w | \$150.00 | EC Motors | | | |
| VF304c | | > 1,000w | \$450.00 | EC Motors | | | |
| VF305a | ECM on Chilled Water Circulation | < 500w | \$25.00 | EC Motors | | | |
| VF305b | | 500w to 1,000w | \$100.00 | EC Motors | | | |
| VF305c | | > 1,000w | \$200.00 | EC Motors | | | |

1HP = 745.7 watts; example: a 1/16 HP motor is 46.6 watts.

Subtotal VFD Incentive - Page 3

Total VFD Incentive

Pipe and Ductwork Insulation

Check the [Buy Michigan Box](#)  only if the incentivized piece of equipment meets the Buy Michigan bonus specifications and we can verify the manufacturer affidavit.  qualifies New Construction.

Pipe Insulation - Natural Gas Heat (Pre-Notification Required)

For HVAC and Domestic Applications, limit of 500 linear feet per boiler system. (Consumers Energy Natural Gas Customers)

| ID | Measure | Incentive | Unit | # of Units | Total Incentive |  |
|--------|---------------------------------------|---|-------------|-------------|-----------------|---|
| IN101 | Steam Space Heating (HVAC) | \$6.00 | Linear Foot | | | <input type="checkbox"/> |
| IN102 | Steam Condensate Space Heating (HVAC) | \$3.00 | Linear Foot | | | <input type="checkbox"/> |
| IN103 | Hydronic Space Heating (HVAC) | \$4.00 | Linear Foot | | | <input type="checkbox"/> |
| IN104a | Domestic Hot Water | Unconditioned Space | \$2.00 | Linear Foot | | <input type="checkbox"/> |
| IN104b | | Conditioned Space | \$1.00 | Linear Foot | | <input type="checkbox"/> |
| IN105a | Process Steam Pipe Insulation | Conditioned Space (Consumers Energy Electric and Natural Gas Customers) | \$3.00 | Linear Foot | | <input type="checkbox"/> |
| IN105b | | Conditioned Space (Not A/C and Consumers Energy Natural Gas Customers) | \$2.00 | Linear Foot | | <input type="checkbox"/> |
| IN105c | | Unconditioned Space (Consumers Energy Natural Gas Customers) | \$3.00 | Linear Foot | | <input type="checkbox"/> |
| IN106a | Process Steam Pipe | Unconditioned Space (Consumers Energy Natural Gas Customers) | \$3.00 | Linear Foot | | <input type="checkbox"/> |
| IN106b | Condensate Insulation | Conditioned Space (Not A/C and Consumers Energy Natural Gas Customers) | \$1.00 | Linear Foot | | <input type="checkbox"/> |

PEX Pipe Insulation (Pre-Notification Required) (Consumers Energy Natural Gas Customers)

| ID | Measure | Incentive | Unit | # of Units | Total Incentive |  |
|-------|------------------------|---------------------|--------|-------------|-----------------|---|
| IN107 | Domestic Hot Water | Unconditioned Space | \$2.00 | Linear Foot | | <input type="checkbox"/> |
| IN108 | Hydronic Space Heating | Unconditioned Space | \$3.00 | Linear Foot | | <input type="checkbox"/> |
| IN109 | Domestic Hot Water | Conditioned Space | \$1.00 | Linear Foot | | <input type="checkbox"/> |

Pipe Insulation - Electric (Pre-Notification Required) (Consumers Energy Electric Customers)

| ID | Electric Heat | Incentive | Unit | # of Units | Total Incentive |  |
|--------|--------------------|---------------------|--------|-------------|-----------------|---|
| IN110a | Domestic Hot Water | Unconditioned Space | \$1.00 | Linear Foot | | <input type="checkbox"/> |
| IN110b | | Conditioned Space | \$0.50 | Linear Foot | | <input type="checkbox"/> |

| ID | DX Suction Refrigerant Piping Insulation Location | Space Type | Incentive | Unit | # of Units | Total Incentive |  |
|--------|---|---|-----------|-------------|------------|-----------------|---|
| IN111 | Data Center | Conditioned Space | \$0.20 | Linear Foot | | | <input type="checkbox"/> |
| IN112a | Mid Temperature Refrigeration | Conditioned Space | \$0.75 | Linear Foot | | | <input type="checkbox"/> |
| IN112b | | Non-Conditioned Space | \$0.50 | Linear Foot | | | <input type="checkbox"/> |
| IN113 | Low Temperature Refrigeration | Either Conditioned Space or Non-Conditioned Space | \$3.00 | Linear Foot | | | <input type="checkbox"/> |

Ductwork Insulation - Natural Gas Heat (Pre-Notification Required)

(Consumers Energy Natural Gas Customers only)

| ID | Ductwork | Location | Air Distribution Type | Incentive | Unit | # of Units | Total Incentive |  |
|-------|---------------------|---|-----------------------|-----------|-------------|------------|-----------------|---|
| IN114 | Ductwork Insulation | Non-Conditioned Space i.e., crawl space | Supply Air | \$2.00 | Square Foot | | | <input type="checkbox"/> |
| IN115 | | | Return Air | \$3.00 | Square Foot | | | <input type="checkbox"/> |
| IN116 | | Exterior Space | Supply Air | \$3.00 | Square Foot | | | <input type="checkbox"/> |
| IN117 | | | Return Air | \$3.00 | Square Foot | | | <input type="checkbox"/> |

Total Pipe and Ductwork Insulation Incentive



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