

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) |
|----------------|---|---|--|---------------------------------------|---|--------------------------------------|--|--------------------------------|
| <i>Example</i> | 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) |
|----------------|---|--|---|---------------------------------------|---|--------------------------------------|--|--------------------------------|
| <i>Example</i> | 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 |
|----------------|---|---|--------------------------|-------------------------------------|---------------------------------|
| <i>Example</i> | 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) |
|---------------------------------|--|--|---|---|---|--|---|--------------------------------------|---|--------------------------------|
| <i>Example (air cooled)</i> | 95.000 | 1.160 | 1.120 | 0.880 | 0.840 | 0.080 | \$12 | \$8 | \$20 | \$1,900 |
| | | | | | | | | | | |
| | | | | | | | | | | |

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) |
|----------------|-----------------------------|----------------------------------|-----------------------------|-----------------------------|-------------------------------|---|
| <i>Example</i> | 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) |
|----------------|---------------------------|--|---------------------------------|---|
| <i>Example</i> | 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 |
|----------------|---------------------------------|--------|------------------------------------|----------------------------|-----------------------------|---------------------------|
| <i>Example</i> | 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) |
|----------------|--------------------|--------------------|------------------|-------------------------|---------------------------|---------------------|-----------------------------|---------------------------------------|---------------------------------|----------------------------|
| <i>Example</i> | 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) |
|----------------------|-----------------------------|-----------------------------|---------------------------------|---|---|
| <i>Fan Coil Unit</i> | 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) |
|------------------|-----------------------|----------------------------------|---------------------------|--------------------------------|-------------------------------|-----------------------|
| <i>Garage-1a</i> | 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 |
|----------------|---------------------------------------|----------------------------------|---------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------|
| <i>Example</i> | 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)* |
|---------------|-----------------|---------------------|---|----------------------|----------|--|
| <i>AHU-1a</i> | 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) |
|----------------------------|---------------------------|----------------------------|-------------------------------|--|------------------------------|---|---------------------------------|
| <i>Example - Cafeteria</i> | 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) |
|----------------|-----------------------------|----------------------|---------------------------------|--|---|
| <i>Example</i> | 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 |
|----------------|--------------|--------------------|------------------|--------------------|------------------------------|--------------------------------|----------------------------|-------------|
| <i>Example</i> | Gas Furnace | 80% | Split System A/C | 13 SEER | 20 years | 10,450 sq ft | 10 ft | 2 |
| | | | | | | | | |