

# Pre-Qualified HVAC

## Completing the HVAC Measure Application

- Fill in the appropriate fields on the **Incentive Calculation** tables for individual HVAC measures on pages 2 through 4.
- To calculate the **Total Incentive** for each measure, multiply the **Unit Size** of the installed equipment (A), the equipment **Incentive** (C), and the **Quantity** of installed equipment (D) and enter this amount in the **Total Incentive** column (E).
- For Differential Enthalpy Controls (page 4), multiply the **Count** (quantity of installed equipment) by the **Unit Incentive** and enter this amount in the **Total Incentive** column.
- Enter the sum of the **Total Incentives** for each HVAC measure on the summary worksheet below. Add these **Total** amounts together for the **Grand Total** amount on the last line.

## General Eligibility Requirements for HVAC Systems

- Pre-Qualified projects must submit an application for incentives within 90 days of invoice for the purchase and installation of Pre-Qualified measures.
- Split and unitary equipment must meet SEER or EER efficiency criteria.
- Heat pumps must meet EER and COP efficiency requirements to be eligible.
- Compressor or condenser replacements or window units are not eligible for incentives.
- Tonnage is used to express the one-hour cooling capacity of air conditioners. One ton is 12,000 Btus of cooling/hour.
- Please attach:
  - 1) Main program page [http://www.nyserra.org/programs/Existing\\_Facilities/pdfs/Existing%20Facilities%20application.pdf](http://www.nyserra.org/programs/Existing_Facilities/pdfs/Existing%20Facilities%20application.pdf)
  - 2) Recent utility bills, with SBC notation
  - 3) Invoices, including purchase and installation price, and
  - 4) Equipment specification sheets, including product manufacturer and model number.

## Individual HVAC Measure Incentive Totals

PTAC and PTHP Equipment (page 2) . . . . .	Total \$ _____
Unitary HVAC and Split Air Systems (page 2) . . . . .	Total \$ _____
Air-to-Air Heat Pump Systems (page 3) . . . . .	Total \$ _____
Water Source Heat Pump Systems (page 3) . . . . .	Total \$ _____
Differential Enthalpy Economizer Controls and DCV Sensors (page 4) . . . . .	Total \$ _____
<b>Grand Total HVAC Incentive Requested \$ _____</b>	

## Project Cost Information (Required)

Total cost of materials and labor for installed HVAC equipment . . . . . Total \$ \_\_\_\_\_

### Project Type *(Please check one)*

- New Construction or Major Renovation
- Replacement or Retrofit (Existing Facilities)

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## PTAC and PTHP Equipment Efficiency Levels and Incentive Amount

Measure Code	Unitary Equipment Size		Minimum Efficiency	Incentive
	Tons	Btu/h		
PTAC-1	≤ 0.58	≤ 7,000	11.7 EER / 3.3 COP Heating	\$45/ton
PTAC-2	> 0.58 to ≤ 0.8	> 7,000 to ≤ 9,500	11.3 EER / 3.2 COP Heating	
PTAC-3	> 0.8 to ≤ 1.25	> 9,500 to ≤ 15,000	10.7 EER / 3.1 COP Heating	
PTAC-4	> 1.25	> 15,000	9.6 EER / 3.0 COP Heating	

## PTAC and PTHP Equipment Incentive Calculation

Reason: N = New R = Replacement F = Failed	Measure Code	Manufacturer and Model Number	A Unit Size (Tons)	B Unit Efficiency (EER or SEER/COP)	C Incentive \$/ton (Table)	D Quantity	E Total Incentive (A x C x D)
<i>Example: N</i>	<i>PTAC-2</i>	<i>Acme, ABC123</i>	<i>0.75</i>	<i>11.5 EER/3.4 COP</i>	<i>\$45</i>	<i>20</i>	<i>(0.75 x 45 x 20) = \$675</i>
1.							
2.							
3.							
<i>(enter on page 1)</i> <b>Total PTAC and PTHP Equipment Incentive Requested</b>							<b>\$</b>

## Unitary HVAC and Split Air Systems Efficiency Levels and Incentive Amounts

Measure Code	Unitary Equipment Size		Minimum Efficiency	Incentive
	Tons	Btu/h		
U&SAC-1	Split System ≤ 5.4	≤ 65,000	14.0 SEER	\$125/ton
U&SAC-2	Single Package ≤ 5.4	≤ 65,000	14.0 SEER	\$125/ton
U&SAC-3	> 5.4 to ≤ 11.25	> 65,000 to ≤ 135,000	11.5 EER	\$80/ton
U&SAC-4	> 11.25 to ≤ 20	> 135,000 to ≤ 240,000	11.5 EER	\$80/ton
U&SAC-5	> 20 to ≤ 63	> 240,000 to ≤ 760,000	10.5 EER	\$50/ton
U&SAC-6	> 63	> 760,000	9.7 EER	\$50/ton

## Unitary HVAC and Split Air Systems Incentive Calculation

Reason: N = New R = Replacement F = Failed	Measure Code	Manufacturer and Model Number	A Unit Size (Tons)	B Unit Efficiency (EER or SEER/COP)	C Incentive \$/ton (Table)	D Quantity	E Total Incentive (A x C x D)
<i>Example: N</i>	<i>U&amp;SAC-2</i>	<i>CH 300</i>	<i>5</i>	<i>12.0 EER</i>	<i>\$125</i>	<i>1</i>	<i>\$625</i>
1.							
2.							
3.							
<i>(enter on page 1)</i> <b>Total Unitary HVAC and Split Air Systems Incentive Requested</b>							<b>\$</b>

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## Air-to-Air Heat Pump Systems Efficiency Levels and Incentive Amounts

Measure Code	Unitary Equipment Size		Minimum Efficiency	Incentive
	Tons	Btu/h		
ASHP-1	Split System ≤ 5.4	≤ 65,000	14.0 SEER / 12 EER / 8.5 HSPF	\$125/ton
ASHP-2	Single Package ≤ 5.4	≤ 65,000	14.0 SEER / 11.6 EER / 8.0 HSPF	\$125/ton
ASHP-3	> 5.4 to ≤ 11.25	> 65,000 to ≤ 135,000	11.5 EER	\$80/ton
ASHP-4	> 11.25 to ≤ 20	> 135,000 to ≤ 240,000	11.5 EER	\$80/ton
ASHP-5	> 20 to ≤ 63	> 240,000 to ≤ 760,000	10.5 EER	\$50/ton

## Air-to-Air Heat Pump Systems Incentive Calculation

Reason: N = New R = Replacement F = Failed	Measure Code	Manufacturer and Model Number	A Unit Size (Tons)	B Unit Efficiency (EER or SEER/COP)	C Incentive \$/ton (Table)	D Quantity	E Total Incentive (A x C x D)
<i>Example: N</i>	<i>ASHP-3</i>	<i>ABC105</i>	<i>6</i>	<i>12.0 EER</i>	<i>\$80</i>	<i>1</i>	<i>\$480</i>
1.							
2.							
3.							
<i>(enter on page 1)</i> <b>Total Air-to-Air Heat Pump Systems Incentive Requested</b>							<b>\$</b>

## Water Source Heat Pump Systems Efficiency Levels and Incentive Amount

Measure Code	Unitary Equipment Size		Minimum Efficiency	Incentive
	Tons	Btu/h		
WSHP-1	< 20	< 240,000	14.0 EER / 4.6 COP	\$80/ton

## Water Source Heat Pump Systems Incentive Calculation

Reason: N = New R = Replacement F = Failed	Measure Code	Manufacturer and Model Number	A Unit Size (Tons)	B Unit Efficiency (EER or SEER/COP)	C Incentive \$/ton (Table)	D Quantity	E Total Incentive (A x C x D)
<i>Example: N</i>	<i>WSHP-1</i>	<i>K2-150</i>	<i>8</i>	<i>14.6 EER</i>	<i>\$80</i>	<i>1</i>	<i>\$640</i>
1.							
2.							
3.							
<i>(enter on page 1)</i> <b>Total Water Source Heat Pump Systems Incentive Requested</b>							<b>\$</b>

Differential Enthalpy Economizer Controls and DCV Sensors Incentive Amounts and Calculation						
Measure Description and Eligibility Criteria	Measure Code	Model #	Manufacturer	Count	Unit Incentive	Total Incentive
<b>Differential Enthalpy Economizer Control System</b> <ul style="list-style-type: none"> <li>Installed with economizer logic module</li> <li>Solid state electronic enthalpy sensors only</li> <li>Electromechanical sensors are not eligible</li> </ul>	DEC-1				\$150	
<b>Single Demand Controlled Ventilation (DCV)</b> <ul style="list-style-type: none"> <li>Carbon dioxide sensor must be installed in conjunction with a fully functioning controls-governed economizer</li> </ul>	DCV-1				\$200 per sensor	
<b>Differential Demand Controlled Ventilation (DCV)</b> <ul style="list-style-type: none"> <li>Must have two sensors providing both indoor air and outdoor air carbon dioxide sensing</li> <li>Must be installed in conjunction with a fully functioning controls-governed economizer</li> </ul>	DCV-2				\$400 per system (\$200 per sensor)	
<i>(enter on page 1)</i> <b>Total Differential Enthalpy Economizer Controls and DCV Sensors Incentive Requested</b>						<b>\$</b>