

# **HSPF2 and SEER2 Better Homes and Home Renovation Rebate Program Update January 17, 2023**

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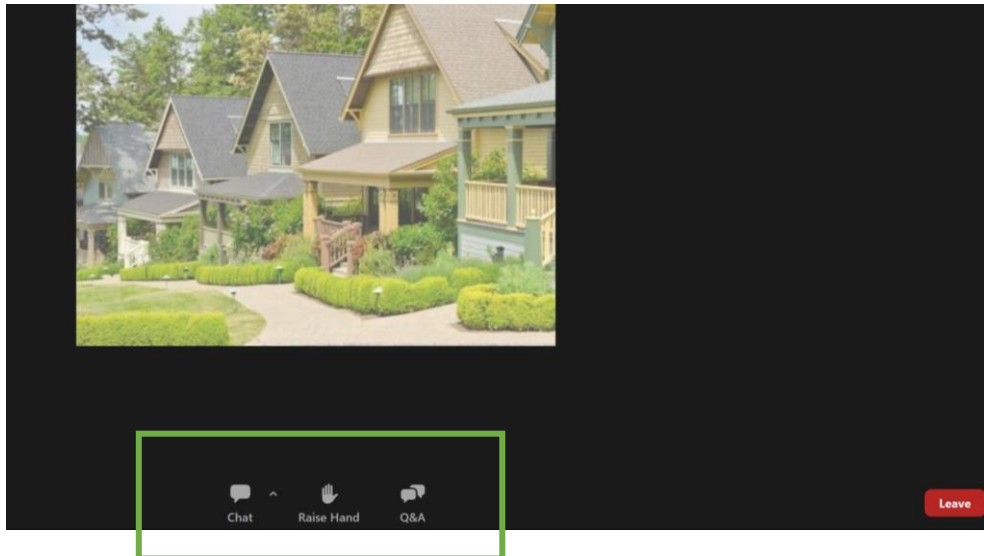
**Welcome – we'll get started soon**

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# Housekeeping

- Attendees are muted and videos off
- Use Q&A box for questions
  - Opportunity to raise your hand and be unmuted during Q&A later
- Use chat box for comments/other discussions
- Will be recorded and slides will be sent out



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# Introductions

## Government of BC

- Grant Moonie, Ministry of Energy, Mines and Low Carbon Innovation

## BC Hydro

## FortisBC

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# Agenda

1. Overview of M1 test standard (HSPF2 and SEER2)
2. Program Requirements and the new M1 standard
3. Helping your customers – Qualified Product List, Applications, Quotes and Invoices
4. Questions

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# NRCan and Dept of Energy (US)

- As of January 1, 2023, new heat pump test procedures have been implemented for residential heat pump products sold in the US.
- Canada has aligned with US under the Amendment 17 to the US Energy Efficiency Regulations.
- All residential types of air-to-air heat pump will be affected.
  - Centrally ducted heat pumps
  - Ductless mini- and multi-split heat pumps
  - Dual fuel ducted heat pumps

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# Energy Efficiency Regulation

- To be eligible to be imported and sold in Canada heat pumps manufactured on or after January 1, 2023, will have to be tested under the new M1 testing standard.
- Including heat pumps manufactured in Canada, USA, Europe and Asia.
- Heat pumps manufactured before January 1, 2023, that were tested under the old testing standard (M) can continue to be sold in Canada.

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# What is the M1 testing standard?

- Heat pumps tested by the Air-conditioning, Heating and Refrigeration Institute (AHRI) will be tested at a higher test standard to supply more realistic efficiencies.
- The testing changes will better represent conditions seen in Canada and the US.
- Results will be reflected in new energy efficiency data ratings:
  - Heating Seasonal Performance Factor 2 (HSPF2)
    - Lower performance ratings
  - Seasonal Energy Efficiency Rating 2 (SEER2)
    - Lower performance ratings

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# M and M1 testing examples

| AHRI #    | AHRI Type   | SEER | HSPF | SEER2 | HSPF2 |
|-----------|-------------|------|------|-------|-------|
| 207172942 | HRCU-A-CB   | 18   | 10   | 17.5  | 8.5   |
| 201754301 | HRCU-A-CB-O | 22   | 11   | 21.5  | 9.9   |
| 201921840 | HRCU-A-CB   | 18   | 10.5 | 17.5  | 8.7   |
| 8738638   | HRCU-A-CB-O | 20.5 | 11.5 | 20    | 9.5   |

## Notes

- There is no exact correlation between M (HSPF and SEER) and M1 (HSPF2 and SEER2)
- Heat pumps manufactured before January 1, 2023, may show M and M1 testing data
- Heat pumps manufactured after January 1, 2023, will only show M1 testing data

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# Program Requirements

| Heat Pump Type       | SEER | HSPF | SEER2 | HSPF2 | Variable Speed |
|----------------------|------|------|-------|-------|----------------|
| Central ducted       | 16   | 10   | 15.2  | 8.5   | Required       |
| Ductless mini-split  | 16   | 10   | 15.2  | 8.5   | Required       |
| Ductless multi-split | 16   | 10   | 15.2  | 8.5   | Required       |
| Dual fuel ducted     | 16   | 10   | 15.2  | 8.5   | Not required   |

- Heat pump must meet the HSPF and SEER requirement or meet the HSPF2 and SEER2 requirement
- Either the M or M1 testing standard will be accepted by the programs
- Required for the Better Homes and Home Renovation Rebate Program and the CleanBC Income Qualified Program

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# Program Requirements

| Heat Pump Type     | SEER | HSPF | SEER2 | HSPF2 | Variable Speed |
|--------------------|------|------|-------|-------|----------------|
| Central ducted     | 16   | 10   | 15.2  | 8.5   | Required       |
| Ducted mini-split  | 16   | 10   | 15.2  | 8.5   | Required       |
| Ducted multi-split | 16   | 10   | 15.2  | 8.5   | Required       |
| Dual fuel ducted   | 16   | 10   | 15.2  | 8.5   | Not required   |

- All heat pumps must have a minimum capacity of 1 ton, have an AHRI certified reference number, be on the qualified product list, be sized to act as the primary heating system and serve a main living area
- Ducted mini-split – Home must be 1,200 sq ft or less.
- Dual fuel ducted – Must complete a heat load calculation and installed using the required switch over set points

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# Qualified Product List - Currently

- The QPL will continue to provide the M (HSPF and SEER) testing standard for all heat pumps tested to that standard
- If a heat pump was tested to both standards, we will show the M testing standard details
- If a heat pump is tested to the M1 (HSPF2 and SEER2) testing standard only and meets the requirements, it will be added to the list
- In these situations, we will temporarily present the HSPF and SEER fields with a value of 999
  - A footnote will be added stating that heat pumps with a 999 will meet the program requirements

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|  |   |
|--|---|
| AHRI#  | 209424905   |
| Heat Pump Type                                 | Ductless multi-split heat pump  |
| Make   | MITSUBISHI ELECTRIC   |
| Outdoor Unit Model                             | MXZ-3C30NAHZ4***  |
| Indoor Unit Model                              | Non-Ducted Indoor Units   |
| Furnace Model (if applicable)                  |   |
| SEER   | ? 999.00  |
| HSPF   | ? 999.00  |
| Coefficient of Performance (COP) @ -15°C       | ?   |
| Capacity Maintenance % (Max -15°C/Rated 8.3°C) | ?   |
| Rebate Eligibility Notes                       | Available to electrically heated customers and/or customers converting from fossil fuel heating to a heat pump. Proof of removal required if converting from fossil fuel. |

## SEER

A value of 999 will temporarily be displayed for products eligible under new SEER2 testing standard criteria.



# Qualified Product List - In the future

- In the future, we will be adding the HSPF2 and SEER2 fields showing the energy efficiency of those M1 tested heat pumps
- We will not require contractors and manufacturers to send updates to the list
- If the heat pump meets the M or M1 program requirements, we will have it added to the list
- We will download all heat pumps from the AHRI database on a monthly basis

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# Online Rebate Applications

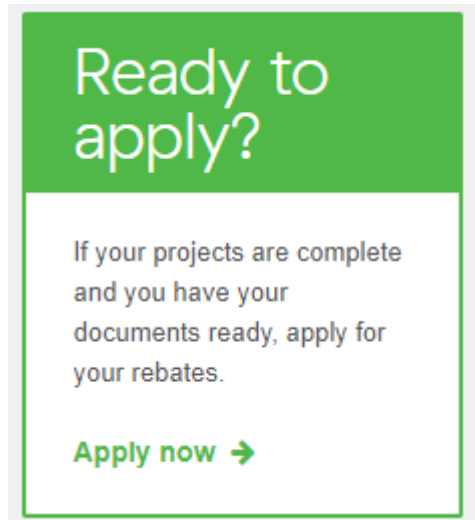
- The BC Hydro and FortisBC applications will accept all program eligible M and M1 heat pumps
- Customers will be required to enter the AHRI number as they have in the past
- A BC Hydro Electric customer that is completing an electric system upgrade to a heat pump should apply at [BC Hydro online application](#)
- A BC Hydro Electric customer that is converting to a heat pump from natural gas, propane, oil or wood should apply at [BC Hydro online application](#)
- A FortisBC Electric customer that is completing an electric system upgrade to a heat pump should apply at [FortisBC online application](#)

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# Application Process

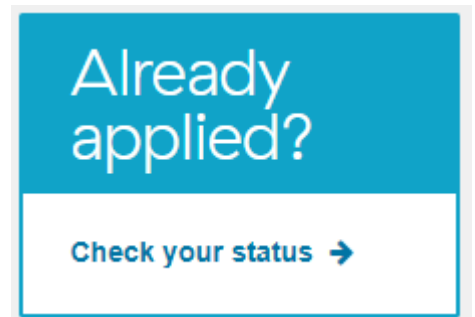
- Customers must:
  - Apply online within six (6) months of invoice date
  - Provide copies of all required documentation including invoices
  - Meet the minimum electricity consumption requirement for BC Hydro customers.
  - Complete the application form at **[bchydro.com/hero](https://bchydro.com/hero)**
- Applications processed within 90 days
- Customers can check status online



Ready to apply?

If your projects are complete and you have your documents ready, apply for your rebates.

[Apply now →](#)



Already applied?

[Check your status →](#)

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# Invoice Requirements

- Heat pump invoices must include:
  - Make & model numbers for all components
  - AHRI number or copy of AHRI certificate
  - HSPF and SEER or HSPF2 and SEER2 testing standard data
  - Capacity of the system (BTU)
  - Invoice date, customer & company information including GST number
- Providing the required details will ensure rebate applications are processed without delay

**Sample Invoice**

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 The ASHP Company <sup>1</sup>  
123 Main Street Vancouver, BC V2M 4L8  
1 (866) 875-2736 <sup>2</sup>  
hello@ashpc.com

<sup>3</sup> PO#: 112099  
GST 123456789 RT 0001

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INSTALLATION ADDRESS <sup>4</sup> INVOICE DATE PLEASE PAY DUE DATE

<sup>5</sup> Mr. Joe Bewarm  
4353 Ontario Street  
Vancouver, BC  
V2M 4L8

15/04/2022 \$13,440.00 15/05/2022

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| DESCRIPTION  | HRS/QTY | RATE        | SUBTOTAL                           |
|--|---------|-------------|------------------------------------|
| <sup>6</sup> Supply and installation of new SEER 16 and HSPF 9.30 central ducted heat pump:                                      | 1       | \$11,000.00 | \$11,000.00                        |
| <sup>7</sup> Make: WarmAir<br>Outdoor Model: KW30-898UX-012<br>Indoor Model(s): KWV060UX<br><sup>8</sup> AHRI number: 1234567    |         |             |                                    |
| Number of tons: 2.5  |         |             |                                    |
| <sup>9</sup> Removal and or decommission of fossil fuel system including applicable tank(s) from customer premise on 15/04/2022. | 1       | \$1,800.00  | \$1,800.00                         |
|  |         |             | SUBTOTAL \$12,800.00 <sup>10</sup> |
|  |         |             | GST (5%) \$640.00                  |
|  |         |             | TOTAL \$13,440.00                  |



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# Helping your Customers

- To reduce confusion, we suggest:
  - Identifying the M (HSPF and SEER) or M1 (HSPF2 and SEER2) on all quotes and invoices
  - Explain the difference, so customers know that the heat pump they are purchasing meets the requirements and they can easily compare competing quotes
  - Provide customer with the AHRI number or certificate
  - Ensure the heat pump you are quoting is on the QPL
  - Suggest manufacturers update websites, literature and spec sheets showing what test standard is being referenced.

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# Program Support

## Customers

- Direct customers to contact a Better Homes energy coach, available M-F, 9am to 5pm
  - Hotline: 1-844-881-9790
  - Email: [ask@betterhomesbc.ca](mailto:ask@betterhomesbc.ca)

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# Program Support

| BC Hydro   | CleanBC  | FortisBC   |
|--|--|--|
| Home Renovation Rebate<br><a href="mailto:alliance@bchydro.com">alliance@bchydro.com</a> | Better Homes<br><a href="mailto:betterhomes@gov.bc.ca">betterhomes@gov.bc.ca</a> | Home Renovation Rebate<br><a href="mailto:homereno@fortisbc.com">homereno@fortisbc.com</a> |
| <a href="http://www.bchydro.com/contractors">www.bchydro.com/contractors</a>             | <a href="http://www.betterhomesbc.ca/">www.betterhomesbc.ca/</a>                 | <a href="http://www.fortisbc.com/rebates">www.fortisbc.com/rebates</a>                     |

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# Your Questions



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# Thank you

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