



**Vermont Department of Environmental Conservation**

Air Quality and Climate Division  
Davis Building, 2<sup>nd</sup> Floor  
One National Life Drive  
Montpelier, VT 05620-3802  
(802) 828-1288

*Agency of Natural Resources*

July 23, 2015

Keith Astrup  
Heatmor, Inc.  
105 Industrial Park Court NE  
Warroad, MN 56763

**SUBJECT:** Phase II Certification of Heatmor, Inc. Model 350X Outdoor Wood Boiler under Section 5-204 of the Vermont Air Pollution Control Regulations

Dear Mr. Astrup:

The Vermont Air Quality & Climate Division (AQCD) has completed its review of the information Heatmor, Inc. (Heatmor) submitted to this office, including the December 2014 test report (Report #0275WB011E.AD01) and the May 2015 test report (Report #0275WB011E.AD02) prepared by OMNI-Test Laboratories, Inc. (OMNI) regarding the Model 350X outdoor wood boiler (OWB). The test results indicate that the 350X particulate matter emissions were 0.31 lbs/million BTUs of heat output (year round weighted average), which is lower than Vermont's Phase II emission limit of 0.32 lbs/million BTUs of heat output. In addition, the test results indicate that the highest grams/hour emission rate for any individual test run was 16.9 which is lower than the 18 grams/hour maximum set by §5-204(e)(2)(ii) of the Air Pollution Control Regulations (APCR). USEPA has reviewed the OMNI test report and has approved the test methods and results. The test methods used by OMNI are also acceptable under APCR §5-204.

Thank you for providing this office with detailed engineering drawings and specifications for the 350X, as required by §5-204(e)(3)(i). We expect that all units designated as the 350X will have the same specifications, within acceptable manufacturing tolerances, and that any components of these units that may affect emissions will be composed of the same materials as those in the tested unit. Please let me know immediately if this assumption is not accurate.

Based on the AQCD's and USEPA's review of the information submitted by Heatmor and the conditions noted above concerning specifications and materials, the AQCD has determined that the Heatmor Model 350X OWB complies with the Phase II emission limit in §5-204(e)(2)(ii) of the APCR and that all units with the 350X model designation may be distributed or sold for use in Vermont on or after the date of your receipt of this letter. This certification shall expire five (5) years after the date of its issuance, unless revoked sooner pursuant to APCR §5-204(e)(4).

I would like to take this opportunity to remind you of a related obligation that Heatmor has under APCR §5-204(e)(5), "Notification by Manufacturers". When an OWB model is certified, this subsection requires the manufacturer to give written notification, within 30 days of receiving the certification, to its

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dealers and others who sell or may be selling your OWBs for use in Vermont. This notice should list all the OWB models being sold by Heatmor and specifically identify the Model 350X as having been approved to be distributed or sold for use in Vermont. Please provide a copy of this written notice and a list of the addressees and their locations to this office when the mailing is completed.

Thank you for Heatmor's interest in reducing the air contaminant emissions from OWBs. If you have any questions about this letter, please contact me or John Wakefield of my staff at (802) 828-1288.

Sincerely,



*for* Heidi Hales, Director  
Air Quality & Climate Division

cc: Amanda Aldridge, USEPA, OAQPS, RTP, NC  
Lisa Rector, NESCAUM

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