



Norbert Senf <norbert.senf@gmail.com>

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## report on performance of a two-story heater

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Alex Chernov <alex\_stovemaster@yahoo.ca>

Mon, Jan 26, 2015 at 10:19 PM

Reply-To: Alex Chernov <alex\_stovemaster@yahoo.ca>

To: Norbert Senf <mheat@heatkit.com>

Hi, Norbert.

I have just got a report on performance of one of our two-story heaters from one of my clients. Since it is rare to get a detailed meaningful report from any client, I find Kevin's thorough approach very valuable and want to share it.

This may be of special interest to our group since many people liked the two-story heater models I have shown, but seems to have had doubts in performance of such heaters.

The heater is identical to one I described in my Power Point presentation at the Wild Acres last year (pics of that heater are attached; this one is different finish, but exactly the same core). The house it is built in consists of a 860ft<sup>2</sup> old portion and the same size addition, resulting in total of about 1700ft<sup>2</sup> area. 2x4 stud walls of the original part were insulated with blown in cellulose. The addition has 2x4 with blown-in cellulose plus 2" of polystyrene on outside under siding. Overall, about moderate insulation levels. Here is Kevin's email:

Alex,

*Here's an FYI on our recent heating results for the last 9 days:*

*Outside temperatures in F:*

	High (F)	Low (F)
<b>Fri</b> <b>1/16/2015</b>	29°	12°
<b>Sat</b> <b>1/17/2015</b>	38°	13°
<b>Sun</b> <b>1/18/2015</b>	34°	26°
<b>Mon</b> <b>1/19/2015</b>	26°	19°
<b>Tue</b> <b>1/20/2015</b>	23°	17°
<b>Wed</b> <b>1/21/2015</b>	24°	19°
<b>Thu</b> <b>1/22/2015</b>	29°	4°
<b>Fri</b> <b>1/23/2015</b>	32°	25°

<b>Sat</b> <b>1/24/2015</b>	35°	20°
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*During that time, the heater was fired once per day in "maximize heat to upstairs" mode. The one exception was Thursday night, when I started an evening fire.*

*This heated the whole house sufficiently - usually to 72 in the living room, 68 in the further reaches. I've been able to limit our bedroom to the desired 65 by keeping the heater opening partially blocked (part of the heater walls, exposed to the bedroom - Alex). Our forced air furnace never ran during these days and to my knowledge no electric baseboards did either. I heard the in-floor radiant fire once or twice to keep the concrete slab to a minimum of 68 or 70.*

*No doubt the cellulose I had packed into the original 2x4 walls are helping make this possible. But the heater is proving to be well-designed and a good fit for our house. Thanks again!*

*- Kevin*

Thanks,

Alex Chernov  
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### 3 attachments



**Horton\_finished01.jpg**  
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**Horton\_finished02.jpg**  
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**Horton\_finished03.jpg**  
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