Looking for Ideas

Posted by Texasbonecrusher - 28 Dec 2012 13:57

I have an Endurance 50F.

I have tried all the heat settings 1-4, all the draft settings, 1-5, and all the auger settings to come up with a combination that will heat my 900 square foot ranch.

Right now, I am on heat setting 3, auger setting 3, draft setting 3. I have a thermometer in the plenum and I am getting 100 degrees.

Prior to these setting, I was using Heat setting 1, auger setting 5, and draft setting 3. I was still getting 100 degrees.

It seems to burn fine enough on heat setting 1. When I switch to heat setting 2 or 3, when the pellets drop. it dampens the flame level a bit. I have tried to adjust the draft settings also, but this really does not do any good.

On setting Heat level 2, it burns about 1.5 bags per day. Maybe 1.75

I was told this was only a 50,000 BTU furnace, and you will not get a lot of heat out of it.

Ideas please ????

Thanks in advance.

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Re: Looking for Ideas

Posted by Texasbonecrusher - 28 Dec 2012 15:10

Texasbonecrusher wrote:

I have an Endurance 50F.

I have tried all the heat settings 1-5, all the draft settings, 1-5, and all the auger settings to come up with a combination that will heat my 900 square foot ranch.

Right now, I am on heat setting 3, auger setting 3, draft setting 3. I have a thermometer in the plenum and I am getting 100 degrees.

Prior to these setting, I was using Heat setting 1, auger setting 5, and draft setting 3. I was still getting 100 degrees.

It seems to burn fine enough on heat setting 1. When I switch to heat setting 2 or 3, when the pellets drop. it dampens the flame level a bit. I have tried to adjust the draft settings also, but this really does not do any good. Just tried heat setting 4, draft setting 3, auger 3. The plenum temp is 120 degrees (I have a small thermometer that I stuck thru so that it is inside the plenum / have a register style vent on the face of the planum)

On setting Heat level 2, it burns about 1.5 bags per day. Maybe 1.75

I was told this was only a 50,000 BTU furnace, and you will not get a lot of heat out of it unless you crank it to a heat setting of 4.

It is not cost effective to have me burn 2 bags per day. I may as well just use my gas furnace and not have any cleaning or maintenance to do.

I did have a local dealer come out to look at it to see if he had any ideas. He had none. All he said was the 2 fans were operating ok, and in his opinion did not need any further cleaning of the exhaust fan. I specifically had him come out to rule out the possibility of the exhaust fan being bad.

Right now it is 20 degrees outside. I do have fresh air vent comming in from the outside. My pipe from the top of the 50F to the plenum of the gas furnace is only about 4 feet, and is heavily wrapped with insulation. I was thinking I should be getting more heat than I am getting into the plenum.

Ideas please ????

Thanks in advance.

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Re: Looking for Ideas
Posted by FirepotPete - 28 Dec 2012 16:47

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I don't know anything about your stove/furnace, but from what you post are you sure that it is actually feeding more fuel when you bump the controller up to a higher heat setting? Getting the same temp seems like it really isn't feeding more fuel or the exhaust is set to high and the heat is getting sucked out instead of heating the house.

Is it hooked up to a thermostat?

Check here if you haven't, it looks like they give pretty good support right from the factory. www.fahrenheittech.com/

Then let us know how it turns out. As you can see there aren't a lot of people posting about these stoves/furnaces, you could be our new expert once you get it running right.

Good luck and let us know how it turns out.

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Re: Looking for Ideas
Posted by pipelayer - 20 Jan 2013 15:00

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I'm heating 1700 sq ft upstairs and my basement with mine no problems on 3. No stat though.

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Re: Looking for Ideas
Posted by Dexterday - 25 Jan 2013 23:25

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What board does your 50F have? (What version)?

Also, when was the last time the unit was Cleaned really good (Combustion blower removed, clean out plate removed, area behind back plate (the entire Backside of firebox is Hollow and acts as an air chamber. From the top of the heat exchange area, to below the 2 exhaust ports behind ash pan)??

What color is the inside of the firebox? Grey/white? Or more black?

I get well over 170°-180° air temps about 10" above my plenum outlet on level 5 and about 130°-140° on level 3. I run mine on a stat with level 3 as the Heating level. My level 1 burn trims are at 5 and 5 so that I get max heat, even when its idling.

I have a 2,180 sq ft house and the Fahrenheit is in the Basement (an 800 sq ft area). So my Fahrenheit is heating roughly 3,000sq to 71°-73°. I have a wood stove about 20' away, but its not Needed to maintain temps. I use it to reduce my pellet consumption (2 ton last year, but it was Mild).

A good cleaning and possibly some mods (there are newer High flow parts. Such as a Sail switch for the intake, a High flow Manifold for the Exhaust, etc). I bought the sail switch and manifold and it really opened the furnace up.

There are a few mods that I did for better airflow, but clean the unit and check the gaskets for tightness first (open ash pan and firebox door ajd place a dollar bill between door and gasket surface area, then close door and see if dollar pulls out easily. If there is little resistance, then tighten door latch or replace gasket. Also, a gasket can be applied to the burnpot to tighten it up (its a Loose mess) the hopper gasket (under the body of stove, inside of hopper top). If your flame has tall sides, but lower in the middle? Or looks like a heart? Then the hopper gasket may be bad? Or the auger flight/drop tube may be leaking? The tall sides are because air is leaking through the auger drop chute and not.going through the pot.

Any little burn pot bypass will prevent air from going through the pot....

Anyways. Lots of things can rob (or block) air. The more air, the hotter a flame will be. Combustion needs Oxygen. And pellet stoves run a fine line between running great and not. Run the air to fuel ratio a little to one side or the other, and all goes haywire!!

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Re: Looking for Ideas

Posted by WNYcorn - 26 Jan 2013 13:01

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Dexterday-

Your note sounds like you have done some serious cleaning on your Fahrenheit 50, much more than the manual shows. I have a '50' also, for 3-4 years , quite pleased, but I have never done any cleaning except the normal front door access area. I have the older style control board.

Did you just dig into your stove cleaning, or have you found a better manual? Also - you mentioned 'High flow' parts. Factory available? Burnpot gasket?

I believe I have seen some of your posts on the Pellet Burner's forum. Thanks for joining this group.

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Re: Looking for Ideas

Posted by Dexterday - 06 Feb 2013 03:22

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WNYcorn wrote:

Dexterday-

Your note sounds like you have done some serious cleaning on your Fahrenheit 50, much more than the manual shows. I have a '50' also, for 3-4 years , quite pleased, but I have never done any cleaning except the normal front door access area. I have the older style control board.

Did you just dig into your stove cleaning, or have you found a better manual? Also - you mentioned 'High flow' parts. Factory available? Burnpot gasket?

I believe I have seen some of your posts on the Pellet Burner's forum. Thanks for joining this group.

The entire back wall of the Fahrenheit is "hollow". This is part of the heat exchange/exhaust path. You need a small flexible brush and/or compressed air works well.

If you read the manual, the combustion blower and its manifold should be removed yearly. Also, there is a clean out cover (on left side, if facing front of furnace) remove the 4 bolts and this is an exhaust channel that takes the gases from the firebox (2 tubes behind ash pan lead to this channel) to the exhaust manifold.

This Manifold I speak of, is now outdated and the new units produced use a different model (High Flow model). This manifold and a new Sail Switch (acts as a vacuum switch/ this switch is located just inside the intake of your furnace) have really improved my airflow. Almost double the airflow. My flame is very ferocious and active. Firebox is completely white and has light ash throughout.

Lots of little things that need checked on them. The large hopper causes the interior gasket (under the

main body) to separate. Also, the lid is less than desirable, at sealing the hopper. The ash pan gasket isn't thick enough and door is pretty sloppy. I spent all last year doing upgrades and I heat just over 3,000 sq with mine. On a 30* day, I run it on level 1 (manual) with draft at 5 and auger at 5 for Max heat on the lowest setting. When it's below 25* I run it on the stat at Level 3, but the most part of the day it's on level 1 (idling). Around 10* outside and it's on 3 for quite some time.

Any more questions don't hesitate to ask...

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Re: Looking for Ideas

Posted by Dexterday - 06 Feb 2013 03:25

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As for the "Other Forum", yes. I have MANY Detailed posts over there. It being Pellet related, is where I spend my time.

I try not to talk about this Forum over there and will try and do the same here.

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