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Check List for Furnace Inspection Safety Controls, Technical Data, and over-all operating condition

Ser.	#	

Electrical Inspection	
1. Check calibration of fan limit control at room temperature	Failed: [] Passed: []
2. Check settings on fan limit control Fan on @ 130°	
Fan off @ 100°	
Limit off @ 200°	Failed: [] Passed []
3. Make sure fan limit control is properly wired and will stop burner/flame	in the event of fan failure.
(Physically check fan limit control; or unhook wires to verify.)	
4. Check electrical wiring for burned/naked/incorrect/loose wiring on burner	Failed: [] Passed: []
5. Check electrical wiring for burned/naked/incorrect/loose wiring on pump	
6. Check electrical wiring for burned/naked/incorrect/loose wiring on heater cab	oFailed: [] Passed: []
7. Check electrical wiring for burned/naked/incorrect/loose wiring on term. strip	osFailed: [] Passed: []
8. Check for cracks in printed circuit board (Honeywell/Carlin oil primary). N/A	A:[] Failed: [] Passed: []
9. Check for broken plastic terminal strip holder clip (only on H-S burner). N/A	A:[] Failed: [] Passed: []
10. Check quick disconnect cord prongs and receptacle plug for burnout N/A:	[] Failed: [] Passed: []
Burner Condition	
11. Check nozzle for wear or damage.	Failed: [] Passed: []
12. Check retention head for cleanliness and proper vortex (bend on fins)	
13. Check electrical heaters in burner for proper operation and amperage	
14. Check preheater block temperature calibration.	
15. Check for external oil and air leaks on the burner.	
16. Check switches for bad connections and loose posts etc.	
17. Check electrodes for wear or damage.	
18. Check for dirty preheater block screens. (Reznor only)Not Applicable:	[] Failed: [] Passed: []
Cabinet Condition	
19. Check belt condition and tension on squirrel cage (if applicable)N/A:	[] Failed: [] Passed: []
20. Check furnace tubes and chamber for ash.	
21. Check the inside and the outside of the chamber, fire-drum, flame wall, tuber	
cracks, rusting out, warping, and weak spots.	_
22. Check target for cracks and deterioration	
23. Check baffles for burnout	
24. Check the exhaust outlets for holes/exhaust leaking.	
25. Check the clean-out doors, seals, and surfaces to make sure they are not crack	ted,
crooked, warped or leaking exhaust.	
26. Check burner fasteners to be sure everything is fastened securely	Failed: [] Passed: []
Furnace Running	
27. Check Ohms on electric eye to verify proper operation(Ohm	ns) Failed [] Passed: []
28. Check time out on oil primary/flame controller to verify burner will shutdown	n in event of
flame out(Seco	nds) Failed: [] Passed: []
flame out(Seco 29. Check air proving switch to verify shutdown in the event of loss of air pressure	re. Failed: [] Passed: []
30. Check air compressor (if applicable)	[] Failed: [] Passed: []
31. Check burner blower motor condition for noisy bearings, balance, and full spe	
32. Check voltage output on transformer or igniter.	
33. Check high voltage electrodes for proper high voltage ignition spray pattern in	
does not arc on top of nozzle when running (check with mirror).	
34. Check flame vortex pattern with flame running to see that flame runs at co	
head. (Check with mirror.)	

35. Check operating air and oil adju	stments etc.	Failed: [] Passed: []
36. Check diagnostic lights for brig	htness and proper operation	Failed: [] Passed: []
37. Check the unit's fan/blower mot	tor condition.	
		Failed: [] Passed: []
		Failed: [] Passed: []
		lyFailed: [] Passed: []
		rner stopsFailed: [] Passed: []
41. Check pump motor condition:	Full speed/noisy bearings:	Failed: [] Passed: []
42. Check for excessive noise		Failed: [] Passed: []
43. Check for clean exhaust emission	ons	Failed: [] Passed: []
44. Check for normal heat output		Failed: [] Passed: []
45. Check total amperage draw who	en unit is running. [amps]Failed: [] Passed: []
Inspected by: X		Date:
Sold to:		
Address:		
Phone #		
Customer has received copy of finished checklist back to us to validate		on & instructions & agrees to send his
Print:	Sign:	Date:

Model # Customer's Responsibility Before, During, and After Inst	stallation Ser.#:
1. Mount heater out of the shop driving lane for driving, backing, and forklift tr	
dangerous semi-truck drivers have backed in shops at a wrong angle and have	
ceiling while it was running. Not a good idea.	
2. Mount heater minimum 3' down from ceiling, and 3' away from wall (in all di	
needed and for heat / fire protection. Do not store cardboard boxes, sawdust, s	
the vicinity of the heater (minimum 30' away).	
3. Fasten furnace and stack system, so that it doesn't fall down.	
· · · · · · · · · · · · · · · · · · ·	raned. [] rassed. []
Check Exhaust Pipe for Proper Installation	00 -11 f1 Cl A -41-
4. When going through the ceiling or side wall, you must use triple wall, 2,10	
(chimney). Don't Know: [
5. Cut insulation back (or use insulation guard) in attic to prevent hot stack fire	
Don't Know: [
6. Check exhaust pipe to be sure joints are screwed together.	
7. Stack and elbows clean inside, and rain cap clean outside.	
8. Check for rusting and damage/leaking/all codes properly metDon't know: [] Failed: [] Passed: []
Oil Pumping System	
9. Make sure the oil suction lines are hooked up correctly (especially on meter pum	
• suction lineflared copper only-minimum size ½" o.d. (no o-rings, swivels	
splices at top of tank, or Teflon tape allowed (use Permatex)	Failed: [] Passed: []
short suction line (no more than 6 feet lift).	Failed: [] Passed: []
10. Check for proper oil line size (pressure side), must be large enough for the distar	nce
See Meter Pump Manual.	
11. Oil pressure line should go uphill all the way, so that air will bleed out properly.	
(If you must go downhill to get to your furnace/burner, call us. This is ver	
us at: 330-674-0142.)	y important. If famed, can
·	
Electrical Installation Safety Inspection	alastnisian fan musuum an sima
12. Use proper breaker size. Proper size is: [fill in: amps]. Check with an	
wires and breaker, especially on units with squirrel cage blower (high amperag	
properly grounded.	
13. Use proper size feed wire for the distance. Feed wire size is:[fill in:]	
Distance is: [fill in: <u>feet</u>]	
14. Remove incoming "temporary purple power tail" and power heater with circuit be	
up the same as it was hooked up when you got the heater (disconnect and reco	
Or see diagram.	Failed: [] Passed: []
• Do not connect burner feed electrical wire to circuit breaker wire. This by-pas	
is dangerous. In the event of fan failure, it will never shut flame off, and u	nit will get red hot when
unattended!!! Warning, this is a recipe for a shop fire.	
 Do not "hot wire" burner feed wire. It must first go through the overheat circuit 	safety shutdown switches
before it goes to feed burner with power.	
15. Remove outgoing "temporary orange pump tail" and reconnect wires going out	
Disconnect & reconnect one wire at a time.	
16. Never power heater via the pump circuit. Doing so will bypass over-heat circ	cuit. Do not bypass; very
dangerous.	Failed: [] Passed: []
17. Start burner flame, then verify unit blower or fan comes on after first 3-5 minute	s of flame running time. If
not, call us at: 330-674-0142.	
18. Run heater for 15-20 minutes continuously. Verify that the ignition controller	
automatic safety shutdown. This is to see if the electric eye is working proj	
	Jerry. If common mips red
button, clean electric eye or call us. Do not bypass.	

	beed/horsy bearings	N/A.: [] Failed:[] Passed: []
20. Check for over-the-fire draft when heater	er is running	Failed: [] Passed: []
21. Check for clean exhaust emissions/exha		
22. Check for sufficient heat output/excession		
23. Check total amperage draw when unit is	s running.[fill in:	<u>amps</u>]. Failed: [] Passed: []
24. Check pump for visible leaks and pressu	ure or vacuum problem	sFailed: [] Passed: []
25. Check for plugged filters on suction side	e of pump after running	g 5 - 20 min. Failed: [] Passed: []
26. Check for proper flame length after hear	ter has been running for	r 30 minutes. Approximate length is
		Failed: [] Passed: []
		er air temperature must not exceed 200° or
		2Failed: [] Passed: []
		is still running, check to see that thermostat
		Failed: [] Passed: []
		on to make flame and pump shut off? If not,
		all us at: 330-674-0142.
20 Doog oil numn run 24/7 oven with no	floma? If an it is not v	Failed: [] Passed: []
30. Does on pump run 24/7, even with no 1	name? II so, it is not v	wired properly and is dangerous. Call us at:
		Failed: [] Passed: []
		flip pump switch to "prime position" to run
		il should not leak into fire chamber. Check
inside chamber with spotlight. If it leak	ks oil into the chamber,	the solenoid is either not working properly,
or you may have dirt in it. Call us at: 33	30-674-0142 as this is d	dangerousFailed: [] Passed: []
32. Be sure installation meets all app	olicable codes (electr	rical/stack system/oil storage and hook-
up)	`	, c
$\omega_{\mathcal{V}_{\mathcal{I}}}$		
1 /		Failed: [] Passed: []
1 /		Failed: [] Passed: []
		Failed: [] Passed: [] your unit/installation installed or inspected
	commends that you get	your unit/installation installed or inspected
Central Ohio Heaters, Ltd. also rec by a licensed heating contractor to make sure in	commends that you get estallation is safe and al	your unit/installation installed or inspected ll codes are met etc.
Central Ohio Heaters, Ltd. also rec by a licensed heating contractor to make sure in Firm Name:	commends that you get istallation is safe and al	your unit/installation installed or inspected ll codes are met etc.
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Millersburg, OH 44654