

Raypak *Heating* Boiler Pre-startup Checklist

The installer should complete this checklist before calling Raypak to schedule start up of the heater. Please check each item carefully for completion. The project manager or supervisor on site should sign and date this agreement and fax it to Raypak's service department: **Attention Dispatcher.**

Section 1 Please check the one appropriate box

The boiler is applied one of the heating applications listed below:

- Fan coil system
- Hydronic or baseboard heat application
- Reheat system
- Water source heat pump system

Section 2 Please check each box as they are complete

- Water connections made to heater, in full pipe diameter (no reduction from the header connection size).
- Unions and isolation valves at the piping connections to the heater.
- Heater waterways flooded and completely purged of air.
- The System's expansion tank is charged and plumbed to point of lowest pressure in the circuit. (UPC and UMC code requirement)
- The System has an automatic air eliminator or manual air vent at the highest point of the piping.
- PRV plumbed to drain in copper.
- System will not violate "cold start" requirement, with inlet temps kept above 105° F.
- Installed clearances as specified in the manual.
- Heater installed with back of unit facing nearest wall, or against "back wall" of building.
- Heater installed on a housekeeping pad equal to or larger than the footprint of the unit and made from non-combustible material. A unit equipped with Raypak's optional combustible floor base may be installed on a combustible floor.

Note : The wooden shipping pallet is not acceptable for installation under any circumstances.

- Power connected to the heater, with adequate wire gauge and breaker capacity for that appliances' total load.
- Breakers energized, or easily accessible for power up at start-up.
Note: Pumps that require 230 volts cannot operate on 208 volts. Verify with electrician or the installer that 208 voltage has not been applied to any Raypak product.
- Fuel supply plumbed to heater.
Note: line should have adequate Dynamic capacity for the appliance, including sizing the gas pressure regulator(s) as well as the gas meter.
- Air purged from the gas line; fuel to the heater's first shut-off valve.
- Gas valve bleed and vent lines run from heater jacket to outside of installation room (indoor installations only).
- Operating control located and wired as specified in Raypak manual.
Notes:
 - **Contact Raypak Technical Support at 805.278.5300 for help with systems that utilize operating controls other than those supplied by Raypak. (For example, the site's automated controls or integrated energy management system.)**
 - **If the BMS or EMS system will control the start-stop function and will be wired to the boiler before the time of start-up, those functions should be operable and tested as well.**
- Venting and flue in place.
Note: The size and type of the venting material must meet code requirements for the specific venting category of the heater installed. Check the manual or consult with the factory for suggested vent terminations.
- Permanent test port installed in venting (stack)) for XTherm, MVB or Hi Delta.
Note: In most instances, code does not allow small perforations of the vent to take combustion samples.
- Combustion air and ventilation openings meet specified requirements for an indoor installation.

Note: The Raypak manual contains sizing charts and tables. The national fuel gas code also contains information about combustion and venting.

Manual supplied with heater is available at jobsite.

Note: If you cannot locate the original manual, please advise Raypak when you call in to schedule your start up. Raypak will provide a fresh copy.

Please allow a minimum of **3** business days for scheduling the startup of a boiler located within Southern California, **5** days for boilers located outside that area. Please contact the Raypak Service Dispatcher at 805.278.5422 or 805.278.5417 to make an appointment for startup.

Please verify that the boiler(s) and the site are ready prior to the time that Raypak's technician arrives to do the startup. It may be necessary to schedule one or more return visits. **Raypak charges \$155.00 for any return visits that may result from lack of preparation of the boiler or jobsite.**

Payment by credit card for the amount presented to the invoiced party will be the only acceptable form of payment if a return trip is necessary.

By signing this agreement below, the signing party agrees to pay for services by Raypak, Inc. as incurred; should a second or further return visits be required.

Job Site Name _____

Job site Address _____

Contact Name, Phone# (and title) on site _____

Heater Model Number(s) _____

Quantity of heaters to start _____

Serial Numbers #1- _____
 #2- _____
 #3- _____
 #4- _____
 #5- _____
 #6- _____

Comments or notes regarding access or start times: _____

Project Manager, Contractor or Supervisor's name _____

Date _____ Signature _____
(Person authorized to agree to the terms and conditions of this agreement)

Please sign, date and complete this form, then fax it to Raypak's dispatcher @ (805) 278-5496. Someone from Raypak will respond within 1 business day to have the work scheduled.