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DON'T (NEVER)

Do not burn gasoline, ethanol, turpentine, xylene, lacquer thinner, racing fuels or mineral spirits etc. They are dangerous, not only in your heater, but also in your storage tank. It could turn your tank into a bomb with the smallest spark!

Do not use electric light to shine into fuel tank; there could be a spark that will blow up the vapors inside the tank and cover you with burning fuel, and throw you, and the tank, through the roof and toward the moon, burning all the way! Don't laugh. It has happened. Instead, use tape measure to check oil levels.

We recommend that you use a UL approved storage tank; do not ever weld, torch, or plasma cut on fuel tanks; they could explode and throw you through the roof, and toward the moon. If you think you must weld on the tank, please call first.

Do not put any fuels into your waste oil tank other than fuels listed in your manual.

Do not burn chlorinated solvents, brake fluids, or paint thinner. Burning any chlorinated substance is illegal, will damage your furnace, and will void your warranty.

Do not burn old electric transformer oils containing cancer-causing PCBs.

Do not mount heater or tanks on or near a combustible surface.

Do not store flammables (such as gasoline) in vicinity of heater.

Do not turn oil pressure up with a dirty nozzle and walk away from it, as it may unclog and burn fast (pressure systems only).

Do not remove burner unless power is off.

Do not touch 10,000 volt igniter posts; it will knock you off the ladder when the burner tries to fire.

Do not use a fine screen on exhaust cap as it will plug up, causing unit to overheat and shoot fire out the inspection door (very dangerous). (Clogging up the stack system can also void warranty.)

Do not use elbows (which may clog up easily), instead, use a tee for any corners.

Do not use aluminum-lined exhaust stack from old gas heaters, or single-wall stack, to go through flammables. Instead, use class A stainless, or code-approved stack, and screw all joints together. Keep stack and heater 3 feet from flammables. Install stack according to code.

Do not put joints in stack in the middle of floor joists or trusses etc. It could cause a spark/fire hazard.

Do not push the red reset button when oil mist is present in chamber, or when combustion chamber is hot (until chamber has cooled down for 15 minutes), and then only once, or explosion may occur. If it still doesn't quickly light, call for professional help.

Do not remove or bypass over-heat or safety switches.

Do not jumper (F) and (F) terminals during operation; this by-passes safety controller.

After first hook up, do not leave the shop until it is working safely and properly.

Do not put hot ash into flammable containers.

Do not run unit/heater with black smoke coming out of stack; call a repair person to find proper adjustment.

Do not operate heater with a crooked flame; nozzle could be bad; call for help.

Do not operate heater with back draft from a big wall exhaust fan in the building. It will not work properly. You must have sufficient air coming into the building to avoid a big vacuum in the building.

Do not operate unit if it is not running properly; call for professional help.

Do not change your fan to a smaller size; unit may overheat.

Do not duct your heater unless it has a squirrel cage blower. It will overheat.

Do not install the heater or pump where hazardous environments are present, or could occur.

Do not start burner unless it is locked/bolted in the firing position.

Do not let the pump run 24 hours a day. It should only run when the burner fires via the burner circuit.

DO (ALWAYS)

Clean ash from unit/heater every 250-500 hours of operation (depends on heater brand, size, and model; see owners manual or call for help), or no less than once a year. (If unit is not equipped with an hour meter, you can calculate the hours by gallons of oil used: 350,000 BTU heater ÷ 140,000 BTUs per gallon = 2.5 gallons per hour.) If your furnace never gets cleaned out, it will clog up with ash and self-destruct and could even smoke up your shop, making it all black inside. This ash can also catch on fire inside heater or stack system. If you do not understand, please call us. Warranty does not cover units damaged from lack of proper cleaning out of ash. Do not operate unit with a lot of soot in it. It may get saturated with oil and burn uncontrollably—very dangerous.

Do check flame size weekly and adjust as necessary.

Do wear safety goggles when opening inspection port.

Do keep boiler water treatment in boiler water.

Do fasten the heater to a permanent structure after installation, so that it doesn't fall over.

Do keep all shields in place over fan and fan belts. Fan starts automatically without warning!!!

Do keep your fingers away from fan and fan belts. Use a tool to check tension and only after power to unit is off.

Do check all safety controls and shut downs twice a year (and before first use).

Do be sure to read and understand instruction manual before using.

Do disable and disconnect burner power cord when servicing burner unit or opening heater, or, it could start automatically and burn you with fire.

Do turn power off to heater in summer so as not to cook oil in burner heater block all summer long.

Other Items

Keep all power off until safe installation is complete. No 3-phase or queer voltages are allowed. Make sure unit and pump is properly grounded. Install all electrical wiring according to codes, which may differ from this safety sheet.

The fan should come on to cool unit in 3-5 minutes of operation. If not, there could be a problem; call us for help.

Please try to make one main, knowledgeable, responsible person in charge of the care and maintenance of the unit-heater or boiler.

We recommend that you get a professional, experienced, waste oil service technician to install your unit, or inspect your system installation (for dangerous conditions and code/UL violations) before firing your furnace.

We recommend hiring a professional technician to perform yearly, overall, knowledgeable, preventative, maintenance service.

Be careful with Carlin safety controls. They are designed to try to re-fire after 1-2 minutes without warning.

Waste oil heaters need a dedicated chimney. Do not tie together with any other unit-heaters etc.

Check systems often when temperatures could fall below freezing, especially if it gets really cold, or power goes off, to avoid freezing things up.

Most of all, use common sense.

Please note, this is a fire machine—use it properly & safely!

This safety sheet is not all inclusive. Most important use common sense!!