

MESTEX
START-UP FORM

Serial # \_\_\_\_\_ Model # \_\_\_\_\_ Date \_\_\_/\_\_\_/\_\_\_

Failure to submit a Start-Up form may affect the warranty. Basic Factory Warranty for most units is 12 months from date of shipment without Start-Up Form on file at the factory. With a completed Start-Up Form, Warranty is 12 months from Start-Up, not to exceed 18 months from date of shipment. In the event that controls are furnished by someone other than Factory, the controls supplier must be represented on the job at the time of Start-Up. DO NOT ATTEMPT START-UP WITHOUT READING THE INSTALLATION OPERATION AND MAINTENANCE MANUAL (S), refer to the burner and or furnace manufacturer's IOM for additional information. Only qualified, fully trained personnel who are equipped with the proper instrumentation and tools should perform Start-Up.

GENERAL

- 1. Make certain all packing material has been removed
2. Check bill of lading against material received
3. Inspect unit carefully for shipping and installation damage
4. Check that ductwork is properly installed and clear of loose items
5. Check that insulation inside unit is properly secured
6. Check that the unit is clear of flammable vapors and liquids
7. Check all dampers and linkage for tightness
8. Check all fans for free movement and clearance
9. Tighten setscrews and nuts on all pulleys, bearings and fans
10. Check belts for proper tension and alignment
11. Check that filters are clean, dry and properly installed
12. If equipped with isolation base, remove shipping bolts
13. Check that all manual gas valves are closed
14. Check that all piping connections and unions are tight
15. Check that accessories and field wiring is complete
16. Check that all safeties, limits and stats are properly set
17. Tighten all electrical terminals
18. All pre start-up items in the IOM are complete

MOTORS

- 1. Check supply voltage
2. Rating plate voltage
3. Check control voltage
4. Check rotation on all motors / Compressors
5. Check overload setting (refer to motor nameplate)
6. Supply fan motor #1 amps
7. Supply fan motor #2 amps
8. Supply fan motor #3 amps
9. Burner motor amps
10. Draft inducer motor amps

HEATING

- 1. Check operation of all dampers and actuators
2. Measured inlet gas pressure matches rating plate
3. Test operation of flame safety lockout
4. Measured pilot signal main flame signal DC / Microamps
5. Measured manifold pressure in high fire per rating plate
6. Test the complete pipe train for fuel leaks with burner in high fire
7. Check integrity of safety shut-off valves
8. Check operation of all safeties, limits, sensors and stats
9. Overfire draft
10. CO2 % in high fire (Indirect Fired)
11. CO % in high fire (Indirect Fired)
12. O2 % in high fire (Indirect Fired)
13. Net stack temp in high fire (Indirect Fired)
14. All heat start-up items in the IOM are complete

OIL BURNERS

Oil supply pressure not to exceed 3 psi Purge air from oil lines and prime pump Check oil pump shaft and coupling alignment
High fire vacuum reading at oil pump inlet
Oil nozzle supply pressure low fire high fire
Oil nozzle bypass pressure low fire high fire Bachrach scale smoke test in high fire

ELECTRIC COIL

Check coil for appearance of uniform heating Check operation of sequence controller All contactors open and close properly
Amp draw of stage #1 #2 #3 #4 #5 #6 #7 #8 #9 #10

STEAM-HOT WATER COILS

VIFB Coils: Shipping bolts are removed Flex connector installed correctly to allow Condensate Header to float freely
The steam / hot water pressure is per rating plate Coils are installed level Piping, components and controls installed per IOM
Check operation of all actuators, dampers and linkage All coil / unit start-up items in the IOM are complete

COOLING

- 1. Compressor #1 amps Suction psi Discharge psi Superheat at compressor
2. Compressor #2 amps Suction psi Discharge psi Superheat at compressor
3. Compressor #3 amps Suction psi Discharge psi Superheat at compressor
4. Compressor #4 amps Suction psi Discharge psi Superheat at compressor
5. Condenser motor amps #1 #2 #3 #4 #5 #6 #7 #8
Hot gas bypass operation Low pressure cutout switch(s) operation High pressure cutout switch(s) operation
Condenser fan pressure cycling switch(s) operation Operation of all dampers All cooling start-up items in the IOM are complete

REMARKS: \_\_\_\_\_

This unit has been checked and started in accordance with the above procedures and is operating satisfactorily

Return To:
4830 Transport Drive, Dallas, TX 75247
Phone: (214) 638-6010 Fax: (214) 905-0806
Attention: Technical Services Department

CONTRACTOR (PURCHASER)
REPRESENTATIVE
START-UP TECH (print)
PHONE NO.