

CRN# _____

NATL.BD# 72088SERIAL# 74070
Reimers®
 Electra Steam, Inc.

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 Clear Brook, VA 22624 F: 540-665-8101
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NAMEPLATE RATINGS:

 PART NUMBER HLR540J3F
 MODEL HLR-540
 POWER SUPPLY WIRE SIZE 250
 POWER VOLTS 415
 CONTROL VOLT 220
 PHASE 3
 HZ 50
 MAX. W.P. 150
 KILOWATTS 540
**CERTIFICATION & REPORTING (CG-500) CSD-1
 OPERATIONAL TEST/ELECTRIC AND STEAM**
DATE (M/D/Y) 8/25/2014UL FILE # E39545

WIRING DIAGRAM # _____ REV _____

DIELECTRIC VOLTAGE- WITHSTAND

TEST: (IAW U.L. 834)

 VOLTS 2196 SAT ☒ UNSAT _____
 PERFORMED BY B.S.B. DATE 8/25/14
HYDRO TEST OF
COMPLETE BOILER
 P.S.I.G. _____
 PERFORMED BY _____
 DATE _____

HEATING ELEMENT TEST

 VOLTS 415 AMPS 751.3
 TOTAL WATT 540K TEST 240V/27A

CHECKOUT

1. APPEARANCE ☒
2. BLOWDOWN MAN ☒ AUTO N/A
3. TRANSFORMER ☒
4. CONDENSATE TANK N/A
5. CONTROLS ☒
6. FEED WATER VALVES N/A
7. INSTRUCTION MANUAL ☒
8. LEAK INSPECTION N/A
9. PAINT ☒
10. PANEL ☒
11. PIPES ☒
12. SHEET METAL ☒
13. STEAM VALVE N/A
14. STEAM GAUGE N/A
15. STRAINER N/A
16. CHECK TORQUE ON TERMINAL STRIPS,
CONTACTORS AND FUSE BLOCKS ☒
17. WARNING LABELS ☒
18. WATER GAUGE FITTINGS N/A
19. WIRE TERMINALS TIGHT ☒
20. WIRING DIA. ☒
21. ELEMENT QTY. 18
22. ELEMENT VOLT/KW 415/30
23. NAMEPLATE ☒
24. JURISDICTION = VA
25. FUEL = ELECTRIC

SAFETY LIMIT CONTROLS (REF: ASME CSD-1, CG-500)

SAFETY RELIEF VALVE OPERATIONAL TEST PERFORMED ☒ DATE 8/25/14MANUFACTURER CONBRACOModel # 250-34-100STEAM BOILER ☐HOT WATER BOILER ☒

MAX. W. P. _____ PSIG (VALVE ASME PLATE)

MAX. W. P. 100 PSIG (VALVE ASME PLATE)

CAPACITY _____ PPH (VALVE ASME PLATE)

CAPACITY 2075,000 BTU/HR (VALVE ASME PLATE)

SIZE _____ IN

SIZE 3/4 IN

REQUIRED CAPACITY (PPH = 3.5 x kW) _____ PPH

REQUIRED CAPACITY (BTU/HR = 3412 x kW) 1842,480 BTU/HRMAX. TEMPERATURE 250 °F

OPERATIONAL TEST		SETTING	DATE	MANUFACTURER	MODEL #	PART#
LOW WATER CUTOFF	PERFORMED BY	PSI/°F				
AUTO RESET		X				
MANUAL RESET	<u>B. Butts</u>	X	<u>8/25/14</u>	<u>REIMERS</u>	<u>20721-HLR</u>	<u>20721-HLR</u>
PRESSURE CONTROLS						
HIGH LIMIT						
OPERATING #1						
OPERATING #2						
TEMPERATURE CONTROLS						
HIGH LIMIT	<u>B. Butts</u>	<u>250</u>	<u>8/25/14</u>	<u>HONEYWELL</u>	<u>L4008E1040</u>	<u>02599</u>
OPERATING CONTROL	<u>B. Butts</u>	<u>190</u>	<u>8/25/14</u>	<u>HONEYWELL</u>	<u>L4008A1015</u>	<u>02378</u>

Representing Reimers Electra Steam, INC. (Name) BRAD BUTTSDATE 8/25/14 Signature Brad Butts

Representing Installer Contractor (Name) _____

DATE _____ Signature _____

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0028491

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Work Order Traveler

SCHEDULED START: 05/13/14

0028491

DUE DATE: 05/30/14

ITEM NUMBER: **HLR540J3F**
DESCRIPTION: **BOILER HLR 540KW 415V 3PH 100#**
REVISION: 000
OPTION CODE:

QUANTITY: ~~5.00~~ 1.00
UNIT OF MEASUREMENT: EACH

MAKE FOR: I/M
PLANNER:

QTY	PART	DESCRIPTION	QTY	PART	DESCRIPTION
5	02378	AQUASTAT L4008A1015 HW 100-240	10	04237	NUT & SLEEVE .250" BRASSCRAFT
5	02599	AQUASTAT L4008E 1040 HW HI LIM	5	20376-8	PANEL INTERNAL (LG) EBOX 380V
10	02433	AQUASTAT WELL .5"W/CLIP HW	5	20376-7	PANEL INTERNAL (SM) EBOX 380V
10	02615	BLOCK POWER DISTRIBUTION DOUBL	5	02569	PRESSURE GAUGE 2.5" PANEL MOUN
20	03076	BOLT CARRIAGE .375-16X4 UNPLAT	5	04603	RELAY 1 PDT 120 V
160	04708	BOLT.25-20 X .5 HEX HEAD	5	HLR-900	SHELL HLR 900 DWG 20888 COMPLE
5	01776	BOX 4 X 2.125 X 1.875 STEEL CI	10	04529	STANDOFF HEX 1.5" X .375" FOR
5	02847	BOX COVER BLANK HANDY STEEL CI	5	05012	STEP CONTROL 4 STEP HW HLR
3	01904	BRASS ROD .25" (WELDING ROD)	10	05019	STEP CONTROL EXPANSION MODULE
5	02203	CEILING PLATE .375	0	04602	TEMPERATURE CONDUCTIVE PASTE
10	02205	CEILING PLATE .75" I.P.S. FLAN	5	20780	TERMINAL BLOCK 3 POLE 600V 50A
5	02206	CEILING PLATE 1" PIPE SIZE	5	02567	THERMOMETER REMOTE MT 2.5" DUA
120	02244	CONDUIT ALFLEX type SWA 1.25"	5	05018	THERMOWELL FOR 05012 STEP CONT
75	02240	CONDUIT ALFLEX type SWA .375"	5	03818	TICKET HOLDER FOR SHOP CLEAR F
30	02246	CONDUIT CONNECTOR .375" 90 DEG	5	02750	TRANSFORMER 1.5KVA"B"480-240/1
50	02250	CONDUIT CONNECTOR 1.25" 90 DEG	5	03209	VALVE BALL 1.25" 200#SWP SB584
20	02258	CONDUIT CONNECTOR 1.25" STRAIG	5	03201	VALVE DRAIN COCK .25" NPT
5	03445	CONTACTOR 35A 120V 2P UL/CSA	5	02657	VALVE SAFETY .75" 100# HOT WAT
95	02530	CONTACTOR 50A 120V 3P UL/CSA	10	20135E	WRAPPER END 38" PAINT & STORE
5	03132	CRATE 70W 83L 65H DOMESTIC W/S	5	20894	WRAPPER SET HLR540-900
5	20376	ELECTRICAL BOX 66" X 48" X 10.			
5	02630	ELECTRODE FITTING CAST WARRICK			
5	20721-HLR	ELECTRONIC BOILER CONTROL HLR			
90	02608	ELEMENT 240V 30KW 3P SS 304 SH			
5	05038	FILTER FAN KIT 120V/50-6-HZ 13			
60	03049	FLANGE 2" BLIND 150# A-105			
150	02022	FLANGE GASKET 2" RING			
5	02125	FUSE 250V 15A UL/CSA			
5	03470	FUSE 250V 3A UL/CSA			
5	04576	FUSE 250V 6 AMP PRNR-6 UL/CSA			
120	02137	FUSE 600V 100A UL/CSA			
5	04980	FUSE 600V 10A CC/UL (transform			
15	04647	FUSE 600V 25A UL CLASS CC			
15	02124	FUSE 600V 30A UL/CSA			
30	02518	FUSE 600V 50A UL/CSA			
5	02140	FUSE BLOCK 250V 30A 1P UL/CSA			
40	02620	FUSE BLOCK 600V 100A 3P UL/CSA			
5	04645	FUSE BLOCK 600V 30A UL CLASS C			
10	02614	FUSE BLOCK 600V 60A 3P UL/CSA			
5	20071	GAUGE PLATE HLR 24-550			
5	20861	LABEL MAX. TORQUE 10. LB IN /O			
5	02822	NIPPLE 1.25X10 BLACK EH SA106			

probe = 8 1/2