

STEAM WORKSHEET

UL-FILE # E39545

NAT. BD# 140917

SERIAL # 140917

DATE (M/D/Y) 4 / 3 / 2025

WIRE DIAGRAM NO. _____ REV _____

CRN # _____



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NAMEPLATE RATINGS:

(TO BE COMPLETED BY THE SALES DEPARTMENT)

PART NUMBER HLR420K3F

MODEL HLR-420

POWER SUPPLY VOLTAGE 480

CONTROL VOLTAGE 120

PHASE 3

FREQUENCY (HZ) 60

MAX. W.P. _____

KILOWATTS 420

POWER SUPPLY WIRE SIZE 400

(TO BE COMPLETED BY THE ENGINEERING DEPARTMENT)

TESTING SEQUENCE (TO BE COMPLETED BY THE QUALITY CONTROL MANAGER/CERTIFIED INDIVIDUAL)

A. HYDROSTATIC TEST OF COMPLETED BOILER:

PSIG N/A PERFORMED BY N/A DATE N/A SATISFACTORY YES ☐ NO ☐

B. DIELECTRIC VOLTAGE WITHSTAND TEST: (IAW UL834)

VOLTS 2352 PERFORMED BY B. Butts DATE 4/3/25 SATISFACTORY YES ☒ NO ☐

C. SAFETY RELIEF VALVE: MANUFACTURER CONBRACO Model # RVW60-34100

STEAM 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 2,162,000 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) 1433040 BTU/HR

MAX. TEMPERATURE 250 °F

OPERATIONAL TEST PERFORMED BY B. Butts DATE 4/3/25 SATISFACTORY YES ☒ NO ☐

D. HEATING ELEMENT TESTING: AMPS 491.4 VOLTS 480 TOTAL KW 420

PERFORMED BY B. Butts DATE 4/3/25 SATISFACTORY YES ☒ NO ☐

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

OPERATIONAL TEST	SETTING	DATE	MANUFACTURER	MFG. MODEL #	PART#
LOW WATER CUTOFF	PSI/°F				
AUTO RESET	X				
MANUAL RESET	X	<u>4/3/25</u>	<u>REIMERS</u>	<u>04316-20</u>	<u>04316-20</u>
PRESSURE CONTROLS					
HIGH LIMIT					
OPERATING #1					
OPERATING #2					
TEMPERATURE CONTROLS					
HIGH LIMIT	<u>250</u>	<u>4/3/25</u>	<u>RESIDEO</u>	<u>L4008E1040</u>	<u>02378</u>
OPERATING CONTROL	<u>130</u>	<u>4/3/25</u>	<u>RESIDEO</u>	<u>L4008A1015</u>	<u>02599</u>

F. CHECKOUT: CHECKOUT LIST NO. _____ SATISFACTORY YES ☐ NO ☐

1408977

Rep. Reimers Electra Steam, INC. (Name) BRAO BUTTS

DATE 4/3/25 Signature Brad Butts

Rep. Installer Contractor (Name) _____

DATE _____ Signature _____



Reimers Electra Steam
4407 Martinsburg Pike
Clear Brook, VA 22624

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Replacement Parts List

Model Number: HLR420K3F
BOILER HLR420 480V 3PH 100#

<u>Part Number</u>	<u>Description</u>
02378	AQUASTATL4008A 1015 HW 100-24
02599	AQUASTATL4008E 1040 HW HI LIM
03445	CONTACTOR 35A 120V 2P DEFINITE
02530	CONTACTOR 50A 120V 3P DEFINITE
02630	ELECTRODE FITTING CAST 1" NPT
20721-HLR	ELECTRONIC BOILER CONTROL ASSY HLR
02609	ELEMENT 480V 30KW 3P 304SS SHE
02125	FUSE 250V 15A CLASS K5 FAST-AC
03470	FUSE 250V 3A CLASS K5 FAST-ACT
03350	FUSE 600V 50A CLASS J5 FAST-AC
05962	FUSE 600V 90A CLASS J5 FAST-AC
02569	PRESSURE GAUGE 2.5" 0-160# BRZ
04316-20	RELAY SOLID STATE 120V 30A 1P
05012	STEP CONTROL 4 STEP HONEYWELL
05019	STEP CONTROL EXPANSION MODULE
03201	VALVEAIR COCK .25" NPT BRZ TE
02657	VALVESAFETY .75" NPT BRZ 100#
02171	WIRE STRD #8 BLACK TEW TDC 600V
OPT-BMS-HLR	HOT WATER BOILER BACNET
20721-HLR-BMS	ELECTRONIC BOILER CONTROL HLR BMS
05272	TEMPERATURE SENSOR
OPT1012-HLR510	AUXILIARY LOW WATER CUTOFF
02512	FLOW SWITCH 1"
OPT1011-480HLR	TRANSFORMER 1.5KVA 480/120V
OPT-SCCR	100kA SHORT CIRCUIT RATING
