



# WEBSTER COMBUSTION

A Selas Heat Technology Company

## INSTALLATION AND BURNER SERVICE MANUAL

Serial Number: 131280A

UL/ULC Number: \_\_\_\_\_

Model Number: JBS3G/SG-150A-LMV52-M.25/M.30VRD-CSD1

Fuel Type: NATURAL GAS / DIGESTER GAS

Customer: SUPERIOR BOILER WORKS

Job Name: WICHITA WWTP #2

Location: WICHITA, KS

PO Number: 193003056

Date: 02/21/19

Tag Order: 19090347

**This manual should be kept with the equipment at all times  
for service and proper maintenance.**

# Customer BOM



3/7/2019 10:46:31 AM

<b>Job:</b> 402499-0000	<b>Job Date:</b> 11/14/2018
<b>Item:</b> JBS3G-131280	<b>Qty Released:</b> 1.000
JBS3G/SG-A-150-LMV52-S-M.25/M.30VRD-CSD-	<b>Sales Order:</b> 131280
<b>Customer:</b> 367 Superior Boiler Works	

SERIAL NO. 131280A-01  
MODEL: JBS3G/SG-A-150-LMV52-S-M.25/M.30VRD-CSD-1  
BOILER: SUPERIOR 250 HP MOHICAN  
 FIREBOX  SCOTCH  CAST IRON  FLEXTUBE  WATERTUBE  
FUEL: NATURAL GAS INPUT: 10460 MBH  
DIGESTER GAS INPUT: 10460 MBH  
INLET GAS PRESS: 5# NATURAL  
INLET GAS PRESS: 2# DIGESTER  
HIGH FIRE MANIFOLD PRESS: 10.9"wc NATURAL  
HIGH FIRE MANIFOLD PRESS: 13"wc DIGESTER  
(INCLUDES FURNACE PRESSURE)  
BOILER FURNACE PRESSURE AT HIGH FIRE: 4.0"wc  
OPERATION: LMV52 SIEMENS CONTROL  
VOLTAGE: 480/60/3  
AGENCY: CSD-1/ NO UL LABEL  
INVERT:  YES  NO  
CONTROL CABINET LOCATION:  TOP  
 BACK MOUNT  REMOTE 24"x24"x8" WALL MOUNT  
JUNCTION BOX LOCATION:  TOP  
 BACK MOUNT  
ORDER CONTACT: AARON  
ORDER WRITER: JT

JOB NAME: WICHITA WWTP #2  
LOCATION: WICHITA, KS

DIAGRAMS WIRING: SWD2-WO131280  
GAS PIPING: GT4-WO131280

**NOTES:**

SPRING RANGE 15-30" NATURAL - SUDS: 592051  
AGA22 6-48" AGA22 DIGESTER - SPUDS: 592180  
ORIFICE AGA25.2  
DIGESTER PREPIPED AND PREWIRED 3" STAINLESS STEEL GAS TRAIN  
NATURAL ON LEFT SIDE. DIGESTER ON RIGHT SIDE.  
SEAL TIGHT CONDUIT

<b>Job:</b> 402499-0000	<b>Sales Order:</b> 131280
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# Customer BOM



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Qty	GT	Item/Description
1		010110-GY PLATE,MTR MTG JB3 10HP 213TC & 215TC FR
1		010365-BL PLATE,INIV COVER JB3 BURNERS
1		010502 PLATE, SCANNER OPENING COVER
1		011291 PLATE,STIFFENER F/JB3 STL BLWR HSG,AIR
1		013509 PEDESTAL-W.A. F/JB3 BRNRS W/2"HALF COUPL
1		040084-PL BRKT,IGN TRANS CABLE PLATED
1		041469 KIT, BRKT & CPLR SQM48 SERVO TO LUCOMA L
1		050191 CONE,AIR INLET F/12.5" X 6-11/16"
1		050447 LB ADPTR, F/JBS3 W/12X12 LUCOMA, NO FGR
1		081431 COVER, ACCESS HD COMBUSTION F/12"W/HANDL
7		090505 SPUD,1/4"NPTX2.75"LG SCHD40 F/HI-SWIRL B
31		090509 SPUD,1/8"NPTX1.25"LG SCHD40 F/HI-SWIRL
7		090511 SPUD,1/8"NPTX3.25"LG SCHD40 F/HI-SWIRL B
31		090755 SPUD 1/4"NPTX3/4"LG SCH40 F/HI SWIRL
1		110195 GUARD,W/VINYL SEAL&EXP MTL,F/LUCOMA12X12
1		334137 VLV GAS SCC RP 2.5" SMNSLMV5 SRV/CPL/BRK
1		400212 LUCOMA LB 12" X 12" W/O SHFT EXT
1		430070-BL HOUSING,JB3 BLOWER,STEEL BLUE
1		510876 HEAD,COMB JBS3 12"/2"INS DUAL CAN NG&DG
1		520042 WHEEL,12-1/2"X6-11/16"SINGLE W/1-3/8"HUB
1		55231 TERMINAL, EBF STRAIGHT BAKELITE
1		775364 MTR 15HP 3600 208-460 3 PH 215TC OD BA
1		777018 MTR,MOD 177IN-LB,30S,FLOATNG,SQM48.497B9
1		904161 NIPPLE,3"X8" 316SS
5		913004 PLUG,1/8 MPT BRASS CSHEAD HEX LOC:058
5		913009 PLUG 1/4 MPT STAINLESS STEEL CSHEAD HEX
1		AGG2.120 ADAPTER,CONDUIT CONNECTION 3/4"NPSM THRD
1		AGG90.U ADAPTER RIGHT ANGLE FOR QRI2B2
1		QRI2B2.B180B FLAME DET SIDE VIEWING EXTERNAL MOUNT
1		VA45.2-NMB-300 VLV ASSY BIOGAS 3.0"MP SQM45 F/LMV5
1		011543 PLATE,RED 5.25" I.D. F/12" HI-SWIRL DIFF
1		060296 DIFF,HS-C.A.F/JBS3 12"HEAD 2"INS SM BLD
1		420286 DWR ASSY F/JBS3G W/2"INSERT, STL
1		040268 BRKT,CUTLER-HAMMER UNIVERSAL SWITCH
1		040822 BRACKET, INSERT MTG F/ SIEMENS LMV5
1		040826 BRACKET, TERMINAL STRIP MOUNTING 21" LG.
1		120031-001 ANGLE,JB INV 14X9 PANEL MTG LT
1		120031-002 ANGLE,JB INV 14X9 PANEL MTG RT

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1	200298	INSERT PANEL F/ 24X24 HOFFMAN	
1	470003	SUBASY,GAS PILOT,325-3,SINGLE VALVE,10LB	
1	490030-BL	CAB,14X9X7 W.A. JUNCTION	
1	490398	CABINET,24X24X8,NEMA12,WALL MTG,HOFFMAN	
1	61663	GASKET,FOR PIEZO BELL 773001	
1	770001	SWITCH,AIR FLOW	
1	771044	RELAY 2PDT 120V AC W/ LED	
1	771045	BASE RELAY 2PDT	
1	772015	TRANS,IGN GAS, MUST HAVE GROUND LEADWIRE	
2	772032	FUSE,XFMR,3.2AMP 500 VOLT MIDGET	
1	772203	HOLDER,FUSE 30A 600V 2-POLE	
1	772210	TRANS,CNTL 500VA 208/240/480 60HZ	
1	773001	BELL,PIEZO WATERPROOF ALARM	
1	773044	LIGHT PILOT LQ TITE RED LED 120V	
3	773045	LIGHT PILOT LQ TITE AMBER LED 120V	
1	773046	LIGHT PILOT LQ TITE GREEN LED 120V	
1	776320	CONTACTOR MTR 38 AMP AF38-30-00-13	
1	776347	OVERLOAD 9-30A F/AF26-AF38 EF45-30	
1	776354	CONTACT AUX MOTR 1-N.O. FRONT MT CA4-10	
1	779002	SWITCH,7992K10 CTR LCK OFF 2PDT	
1	779043	SWITCH,2 POS MAINTAINED W/ 1-NO NEMA 4	
2	779046	SWITCH,PUSHBUTTON LT MOMENTARY N.O. RED	
1	790036	DISPLAY FOR LMV5 AZL52	
1	791064	CONTROL BASIC W/PID VFD 120V LMV52.240B1	
8	930007	JUMPER,F/TS+TSKK	
55	930008	KANT KUT CONNECTOR F/DIN 3 RAIL MOUNT	
4	930009	END SECTION F/DIN 3 RAIL MOUNT, MARATHON	
4	930010	BRACKET,END F/DIN 3 RAIL MOUNT MARATHON	
1	AGG5.110	CONNECTOR,CAN BUS,90DEG OFFSET W/STRAIN	
1	AGG5.210	TFX,F/LMV51 CAN BUS CIRCUIT 12-0-12V	
1	AGG5.635	CABLE,DISPLAY CAN BUS ,3M PRE-ASM	
1	AGG5.720	PLUG SET,STD CONN F/LMV5* 3-MTR O2 1XFMR	
1	012923	TERMINAL BOX MTG PLATE	
1	080045	COVER,PRE-WIRED GAS TRAIN ENC 490014	
2	100014	GASKET,3"150# NONASB RING	
2	140090	FLANGE, 3" 150# RF SO 316SS	
2	4	321037	VALVE,BALL,1/4",MAN,STAINLESS,T-HANDLE
2	11	333006-CGA	VALVE,LUB PLUG,3",MAN,GAS,W/HDLE
1	490014	CAB,ENCLOSURE PRE-WIRED G T ELECT	
1	770160	SWITCH-GAS PRESS, HI PRESS MR 12-60"WC	
1	770164	SWITCH-GAS PRESS, LO PRESS MR 12-60"WC	
2	904161	NIPPLE,3"X8" 316SS	

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2		904165	NIPPLE,3"X24" 316SS
4		904174	NIPPLE,1/4X3 1/2 316SS
2		906060	ELBOW,1/4" 90 DEGREE STAINLESS STEEL 316
3		930007	JUMPER,F/TS+TSKK
10		930008	KANT KUT CONNECTOR F/DIN 3 RAIL MOUNT
1		930009	END SECTION F/DIN 3 RAIL MOUNT, MARATHON
2		930010	BRACKET,END F/DIN 3 RAIL MOUNT MARATHON
1		AGA22	SPRING,6-48" GOLD(1.5-10PSI F/SKP25.4)
1		AGA25.2	ORIFICE, DAMPENING F/SKP25.
1	14	SKP15.013U1	ACTUATOR,ON-OFF
1	16	SKP25.011U1	ACTUATOR,REGULATING W/POC SWITCH
1		VRD40.080UF	VALVE,3" DOUBLE GAS 10# DIGESTER GAS
1		080158-BL	COVER,ACCESS C.A.14"X9"X7" CABINET
8		170002-PL	CLAMP,BURNER HEAD MTG LUG PLATED
2	4	321001	VALVE,BALL,1/4",MAN,BRASS,T-HANDLE
1	18	321005	VALVE,BALL,3/8",MAN,BRASS,LVR HANDLE
2	1	321012	VALVE,BALL,2-1/2",MANUAL W/ HANDLE
1	6	330049	VALVE,2.5"NC GAS SOL JB8214290 120/60
1	17	331111	VALVE,2-1/2" V710KBSV22 POC SAFETY GAS
1	17	332026	ACTUATOR-ASCO AH2E212S4 W/ 14 SEC POC
1	5	335022	REGULATOR 2-1/2" 210G-2020-0001 GPR
1		336041	SPRG,YELLOW R11110-1530 15-30"210G
1	9	770063	SWITCH,C6097A1038 12-60" MR LO GAS PRESS
1	8	770064	SWITCH,C6097B1002 12-60"MR HI GAS PRESS
1		774074	SENSOR,PRESS 0-60 PSI 4BF005EA1 4-20MA