RESOI	LUTION	NO.	2019-	
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Accepting bid to construct a post frame storage building at the Jefferson County Sheriff's Office Training Facility in Lake Mills

Executive Summary

The Jefferson County Sheriff's Office solicited bids from vendors to construct a post frame storage building at the Jefferson County Sheriff's Office Training Facility in Lake Mills. The Building and Grounds Committee met on March 6, 2019 and recommended forwarding this resolution to the County Board to accept the bid from Bos as the lowest responsible bidder at a cost not to exceed \$71,000.

WHEREAS, the Executive Summary is incorporated into this resolution, and

WHEREAS, the Jefferson County Sheriff's Office received bids to construct a post frame storage building at the Jefferson County Sheriff's Office Training Facility in Lake Mills, and

WHEREAS, bids were received with the following results:

Company	Bid Price
Bos Design Builders	\$70,495
Badgerland	\$109,610

AND WHEREAS, the Building and Grounds Committee has determined that Bos Design Builders is the lowest responsible bidder for this project.

NOW, THEREFORE, BE IT RESOLVED that the Jefferson County Board of Supervisors hereby accepts the bid from Bos Design Builders as the lowest responsible bidder to construct a post frame storage building at the Jefferson County Sheriff's Office Training Facility in Lake Mills at a cost not to exceed \$71,000.

Fiscal Note Account N		71,000 for th	iis project have	been allocate	ed in 2019 Sheriff	's Office Budget,
	Ayes	Noes	Abstain	Absent	Vacant	
_	by c Grounds Con ard: 03-5-19	ımittee			County Board	March 12, 2019
	REVIEWED	: Administr	ator ; Corr	oration. Cou	nsel; Financ	e Director

RESOI	LUTION	NO.	2019-
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Accepting bids to replace two boilers at the Human Services Workforce Development Building

Executive Summary

The Human Services Department solicited bids from vendors to replace two boilers at the Human Services Workforce Development Building. The Building and Grounds Committee met on March 6, 2019, and the Human Services Board met on March 12, 2019, and recommended forwarding this resolution to the County Board to accept the bid from Sun Mechanical as the lowest responsible bidder.

WHEREAS, the Executive Summary is incorporated into this resolution, and

WHEREAS, the Jefferson County Human Services Department received bids to replace two boilers at the Human Services Workforce Development Building, and

WHEREAS, original bids were received with the following results to replace the current boilers with high efficiency boilers:

Company	Bid Price
Sun Mechanical, LLC	\$50,500
General Heating and Air Conditioning, Inc.	\$53,995
1901, Inc.	\$58,250
Richter Heating and Air Conditioning, Inc	\$64,968
Illingworth-Kilgust Mechanical	\$65,483

AND WHEREAS, the Human Services Board and the Buildings and Grounds Committee have determined that Sun Mechanical is the lowest responsible bidder for this project.

NOW, THEREFORE, BE IT RESOLVED that the Jefferson County Board of Supervisors hereby accepts the bid from Sun Mechanical as the lowest responsible bidder to replace two boilers at the Human Services Workforce Development Building in the amount of \$50,500.

Fiscal Note: Funds of \$40,000 for this project have been allocated in 2019 Human Services Department Budget, Account Number 61169900.594822.65210.

Ayes	Noes	Abstain	Absent	Vacant

Requested by Brian Bellford Building & Grounds Committee/Human Services Board

3-12-19

REVIEWED: Administrator	; Corporation Counsel	; Finance Director



P.O. Box 259596 2920 Perry Street (53713) Madison, Wisconsin 53725-9596 (608) 271-3900 FAX (608) 271-0103

February 13, 2018

Jefferson County

Attn: Mr. Ryan Mundt

RE: New boilers for Human Services Boiler Replacement

We submit the following proposal to install two (2) new hot water boilers Base bid to match existing PK as close as what is available. Alternate boiler is condensing Lochinvar.

Included: Base BID

- Remove two existing PK boilers, boiler pumps and triple duty valves
- Provide and install two new PK Velox N750-VX, non-condensing boilers
- Provide and install two (2) new Armstrong pumps and Flo-Trex combo valves
- Disconnect and modify existing utilities as needed for new install (gas, venting, hot water piping)
- Patch Insulation as required
- Trucking
- Certificate of Insurance
- Permit/ Boiler registration
- Start up
- Work to be performed during normal hours M –F 6 AM 4 PM.

included: Alternate Boilers (if not noted, included same as base bid)

- New venting in PVC pipe
- Demo existing boiler venting
- Taco pumps and triple duty valves

Not Included:

- Engineering
- Electrical
- Controls
- Concrete pads
- Motor starters
- Bond
- Roofing
- Chemical Treatment
- Overtime including Saturdays, Sundays and Holidays

Total Price for PK Velox: \$46,950

Total Price for Lochinvar FTX725 Condensing boilers and Taco pumps: \$53,995

If you have any questions or need any clarifications please do not hesitate to contact Dean Horne at 608-271-3900.

Sincerely, General Heating & Air Conditioning

Dean Horne Project Manager



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/07/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

l n	MPORTANT: If the certificate holder in SUBROGATION IS WAIVED, subject this certificate does not confer rights !	to th	ne te	rms and conditions of t	he poll uch end	cy, certain p lorsement(s)	olicies may	require an endorsement	t. A st	atement on
PRO	DUCER				CONTA	CT Lisa Vincen	t	The state of the s		
P.C	GRIFF, SEIBELS & WILLIAMS, INC. . Box 10265 ningham, AL 35202				PHONE (A/C, No	ss: lvincent@r	-2211	FAX (A/C, Ho):		
Bill	ningnam, AL 35202				ADDRE					
						INS	URER(S) AFFOR	IDING COVERAGE	_	NAIC #
_					INSURE	R A :Travelers	Indemnity Com	pany of America		
	JRED neral Heating & Alr Conditioning, inc.				INSURE	R B :Travelers I	Property Casua	Ity Company of America		25674
292	0 Perry Street				INSURE	RC:				
Ma	ilson, WI 53713				INSURE	RD:				
					INSURE	RE:				
					INSURE	RF:				
	VERAGES CEF	RTIFIC	CATE	NUMBER:GP84GVXG				REVISION NUMBER:		
11 C E	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY RI ERTIFICATE MAY BE ISSUED OR MAY XCLUSIONS AND CONDITIONS OF SUCH	EQUIR PERTA	IEME AIN, CIES,	NT, TERM OR CONDITION THE INSURANCE AFFORD LIMITS SHOWN MAY HAVE	OF AN	Y CONTRACT THE POLICIE	OR OTHER I S DESCRIBE PAID CLAIMS,	DOCUMENT WITH RESPEC) ALL 1	WHICH THIS
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	CLAIMS-MADE X OCCUR							111211111111111111111111111111111111111	\$	5,000
				55				MED EXP (Any one person)	\$	1,000,000
	OSAN AGODEOATE UNIT ADDITED DED.							PERSONAL & ADV INJURY GENERAL AGGREGATE	\$	2,000,000
	POLICY X PRO-						1		\$	2,000,000
	POLICY X JECT LOC								\$	
A B	AUTOMOBILE LIABILITY			VTKCAP5794B309TIL18 (Ex	ec.)	04/01/2018	04/01/2019	COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000
В	X ANY AUTO		1	VTC2JCAP6794B310TIL18 (F	Fleet)				\$.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	OWNED SCHEDULED								\$	
	AUTOS ONLY AUTOS NON-OWNED	1						PROPERTY DAMAGE	\$	
	AUTOS ONLY AUTOS ONLY							(Per accident)	\$	
8	X UMBRELLA LIAB X OCCUR		-	VTSMJCUP5794B579TIL18		04/01/2018	04/01/2019	EACH OCCURRENCE	\$	5,000,000
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Å B	AND EMPLOYERS' LIABILITY Y/N		11 3	Part I WC excludes ND,OH,W Part II includes ND,OH,WA,W	A,WY;	0110112010	V # 0 11 11 11		^	1,000,000
	ANY PROPRIETOR/PARTNER/EXECUTIVE N	N/A		VTC2HUB2476X63618 (All O	ther		1	E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE	\$	1,000,000
	(Mandatory In NH) If yes, describe under DESCRIPTION OF OPERATIONS below			States excl. WI) Part I exclude ND,OH,WA,WY; Part II includ	9\$		1			1,000,000
_	DESCRIPTION OF OPERATIONS below	-	-	ND,OH,WA,WY.			1	E.L. DISEASE - POLICY LIMIT	\$	1,000,000
									\$ \$ \$	
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (A	CORD	101, Addillonal Remarks Schedu	ie, may be	altached If more	space la require	nd)		7
	Evidence Purposes Only		.,,_		, -		29			
CE	RTIFICATE HOLDER	_	_		CANC	ELLATION				
OL.	THE TOWNER				DANG					
					THE	EXPIRATION	N DATE THE	ESCRIBED POLICIES BE CA EREOF, NOTICE WILL B Y PROVISIONS.		
Evid	ence of Insurance				IOHTUA	NIZEO REPRESE	NTATIVE	16		
Mac	lson, WI 53704							Nother		

RICHTER

Heating & Air Conditioning Inc.

421 Water Tower Ct.. Watertown, WI 53094
Bill Richter 920-988-7050 Adam Richter 920-253-5458
Richter WAC@gmail.com Richter HVAC.com

Proposal for Jefferson County Workforce Development 874 Collins Road, Jefferson, WI Attn: Ryan Mundt Date Submitted ~ 2/15/19

HVAC Proposal to Replace Two Existing Patterson Kelley Boilers. All necessary primary pumps, valves, and near boiler piping. Intake and exhaust venting of boilers. Gas piping and regulators for boilers. Removal / Disposal of Existing Equipment. Proper Start Up of New Equipment.

Option #1 – IBC High Efficiency Boilers

- Three SL40-399 96% AFUE 40,000-399,000 BTUs 10:1 Turn Down Ratio, Stainless Heat Exchanger (See Enclosed for Specs)
- -Warranty: 5 yr. parts, 10 yr. pro-rated heat exchanger
- Built-in Outdoor Sensors, Low Water Cut Off and High Temp Limit
- Bacnet Compatible
- Three Grundfos UPS 43-44F Pumps
- Racking and Near Boiler Piping Manifolds for Boilers
- PVC Exhaust and Intake Venting

Price \$63,571.00

Option #2 - Patterson Kelley High Efficiency Boilers

- Two Patterson Kelley SC650 Sonic Boilers 94% AFUE 650,000 BTUs 5:1 Turn Down Ratio (See Enclosed for Specs)
- -Warranty: 1 yr. parts, 5 yr. burner, 10 yr. heat exchanger
- Built-in Outdoor Sensors and High Temp Limit
- Bacnet Converter
- Two Armstrong 4360-2B Flow Trex Combo Valves
- PVC Exhaust and Intake Venting

Price \$64,968.00

Option #3 – Patterson Kelley Standard Efficiency Boilers

- Two Patterson Kelley N750-VX Velox Boilers 85% AFUE 750,000 BTUs 1.2:1 Turn Down Ratio (See Enclosed for Specs)
- -Warranty: 1 yr. parts, 5 yr. burner, 10 yr. heat exchanger
- Built-in Outdoor Sensors and High Temp Limit
- Bacnet Converter
- Two Armstrong 4360-2B Flow Trex Combo Valves
- Connect to Existing Venting

Price \$52,703.00

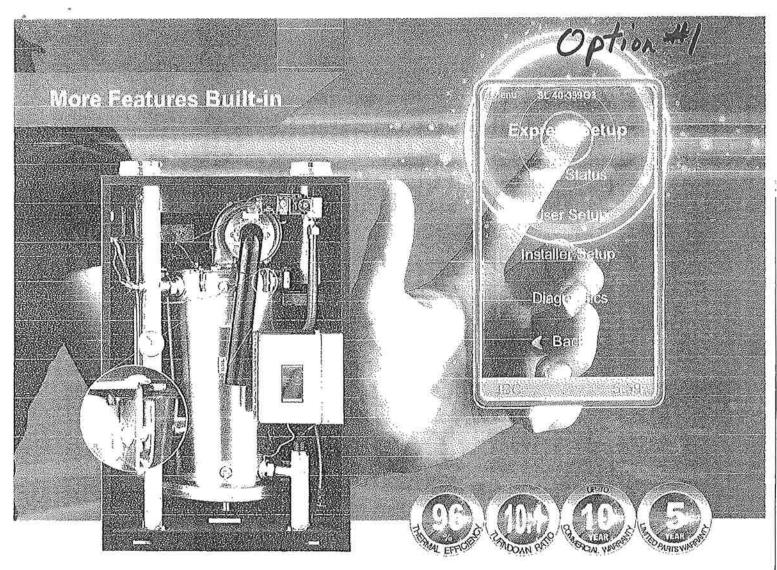
Option #4 - Move Existing Expansion Tank

- All Necessary Piping & Valves Price \$623.00

Changes can be made through change request forms. Valid for 30 days. Draws upon request.

AS REQUIRED BY THE WISCONSIN CONSTRUCTION LIEN LAW, CLAIMANT HEREBY NOTIFIES OWNER THAT PERSONS OR COMPANIES PERFORMING, FURNISHING, OR PROCURING LABOR, SERVICES, MATERIALS, PLANS, OR SPECIFICATIONS FOR THE CONSTRUCTION ON OWNER'S LAND MAY HAVE LIEN RIGHTS ON OWNER'S LAND AND BUILDINGS IF NOT PAID. THOSE ENTITLED TO LIEN RIGHTS, IN ADDITION TO THE UNDERSIGNED CLAIMANT, ARE THOSE WHO CONTRACT DIRECTLY WITH THE OWNER OR THOSE WHO GIVE THE OWNER NOTICE WITHIN 60 DAYS AFTER THEY FIRST PERFORM, FURNISH, OR PROCURE LABOR, SERVICES, MATERIALS, PLANS OR SPECIFICATIONS FOR THE CONSTRUCTION. ACCORDINGLY, OWNER PROBABLY WILL RECEIVE NOTICES FROM THOSE WHO PERFORM, FURNISH, OR PROCURE LABOR, SERVICES, MATERIALS, PLANS, OR SPECIFICATIONS FOR THE CONSTRUCTION, AND SHOULD GIVE A COPY OF EACH NOTICE RECEIVED TO THE MORTGAGE LENDER, IF ANY. CLAIMANT AGREES TO COOPERATE WITH THE OWNER AND THE OWNER'S LENDER, IF ANY, TO SEE THAT ALL POTENTIAL LIEN CLAIMANTS ARE DULY PAID.

Richter Heating & Air Conditioning, Inc.	
	Date
Bill Richter, President	
Acceptance of Proposal – The above prices, sp and are hereby accepted. You are authorized will be made within 30 days of completion.	ecifications and conditions are satisfactory to do the work as specified. Final payment
Acceptance Signature	Date







SL 40-39963

40,000 to 399,000 BTU/H

Commercial / Large Residential Condensing Boiler

- New Touch Screen V-10 Boiler Control
 - Express set up, Remote monitoring & diagnostics, Easy USB programmability, Optional true native BACnet, Intuitive alert system.
- Multi-boiler communication up to 9.5 million Btu/h (24 boilers) without additional controls.
- PVC/CPVC/PPs approved venting up to 400 feet.
- Built-in CSA/UL approved LWCO and manual reset high
- With 24 bollers tumdown ratio is 240:1 = min, firing rate range is 40,000 Btu/h all the way up to 9.5 million Btu/h in 1000 Btu/h increments.
- Built-in multiple zone pump control up to 4 zones replacing the need for external pump controls.
- Built-in outdoor reset control of water temperature.
- Technology: Patented moisture management system. Protects and ensures long life for all components in the boiler.
- New and innovative side bolt heat exchanger lid configuration.

- DDC Control 0-10 VDC or 4-20 mA without additional controls.
- Optional 316 Ti titanlum heat exchanger.
- DHW opt out priority for multi boller systems.
- Reverse flow detection.











Optional Accessories Available

- Description	Part No	Description	
Secondary Loop Gensor	240 033	ESULUM Float Style LWCO	182-059
S'a'rless Sled Well	180 OS3	TC4 ISU Test and Check	180-053
Ext. Water H. Limit Marcel Roset	180-054	LYICO Piping Kt - 399	P-198
2 1/2' Tridicator	180-019	BACnet - Activation	703-032
Condensate Nactivizer Tank	180-048	A'r Vent Piping Kit	P-1858
Condensate Neutralizer Refd	180-049	30 PSI R## V##	183-005
I' Al- Inlako Fiter	P-172	45 PSI Rafad Valve	183-076
FG-4 Flow Garch	180-079	60 PSI Rubal Valva	180-077
FS-40 Ron Switch	180-079D	75 PSI Refol Valve	180-078

. L	ow Loss Headers Part No.	May GPM
and a second second second second	NON ASUE RATED	
3' LL Header	180-055	124 GPM
4"11 Header	180-057	247 GPI.I
	ASUE RATED	
3"LL Header (ASIJE)	180 058	124 GPIJ
4'LL Header (ADME)	180-059	247 GPI.I
6" LL Header (ASME)	180-090	484 GPM





180-048 Condensale Neutralization Tank

P-172 Air Intake Filter mounted directly onto an SL 40-399 boller

SL 40-399 Technical Information

Specifications	SL 40-399G3
CSA Input (Hatural Gas or Propane ') - JIBH	40 - 389
CSA Input (Natural Gas or Propune *) - KW	11.7-117
CSA Output - UBH	38.4 - 383
CSA Dutp:A • KW	11.2 - 112
Combustion Efficiency (BTG-200) Thermal Efficiency)	₽6%
Din gas pressure (A'G or Propone) - inch w.c.	4
Uax gas pressure (NG or Propans) - Inch w.c.	14
Ambient temperature - Low ("FFC)	32°F / 0°C
Amblent temperature - High ('F/-C')	122°F / E0°C
Dax reistive humidity (non-condensing)	80%
Un water temperature	34°F / 1°C
Dax programmable water temperature find	190°F / 88°C
Nax water temperature lockout limit	2017F/94°C
Nax AT - supply / return (electronic fence)	40°F
Power use (120Y2c/60Hz) - Walls @ full five - Walts	(90 (less purps)
Weight (emply) - fbs/Kg	240/110
Heating Surface Area - ft ¹ /m ³	35,55/3,40
Pressure Vreset water content - USGALters	6,69/25,20
Dax boiler flow rate - USgam	45
D'in boiler flow rela - USgom	20
Dax operating pressure - peig	80
Din water pressure • palg	8
Approved Installation altitude - ASL	0 • 12,003
Naximum equivalent vent length, each side 4°	200*
(Natural Gas or Proparie)	4
Air intake options: either direct vent or indoor supply	

Sched A0; Rig'd PPa	Maximum equivalent length
47	200
90' Verlaton	alon 8' e phaisi
90, Foul avesb span	איטיב 5' איניים איניים איניים איניים איניים איניים
45° Ebox	allow 3' equivalent
PPs 87-93' E65%	use 8' equitaterá
3' SS Sidewal Terminal (SST)	ล้างพ.65° คุณวันใคณ์
3" CPVC (to adapt to the SST)	for each 1' afor 3.2' each aird
Fieribie PPs	
4" Flexible	160' mau, using 1,2 x fox equivalent length

	Distance from combustible surfaces	Recommended distance for installation and service
Front	2'	24'
Rest	U	O,
Left elde	l'	of (to non-combustibles)
Right side	11	4' [for electric and gas if required]
Τορ	12'	12" (for vent connection)
Bollom	12'	12" (for condensate trap and piping)



Better Boilers

IBC Technologies Inc

info@lbcboiler.com · www.lbcboiler.com

Toll Free: 1-844-HEAT JBC / 1-844-432-8422



British Columbia 8015 North Fraser Way Burnaby, BC V5J 5M8 Tet 604-877-0277 Fax: 604-877-0295 Ontario Unit 5, 1455 16th Ava., Richmond Hill, ON L4B 4W5 Tel: 905-918-0113 Fax: 604-877-0295



Wisconsin 4507 South Taylor Drive, Sheboygan, WI 53081 Tel: 920-783-8340 Fax: 920-783-8339 New Jersey Unit 1, 1100 Taylors Lane, Chmaminson, NJ 08077 Tet 856-887-0544 Fax 856-735-5584













P-K SONIC



Rep Name: Emall: Phone Number: Date: 5 11-14 [265] [4] 63-7/8 [1269] 11-1/8 [282] - 2-5/8 |68) 4-3/8 [112] R 25-1/4 [640] 2378 [60] 9-1/4 [82] 0.5/3 [91] CONTROLS 01 [] 攌 G2 5 CONTROLS 疆 [285] HIALL POWEIT R (IPM E-SONIC 16-34 [475] (220) 30.12 0 C 6-7/8 [173] G-7/8 [173] 61 [1295] X X FRONT
Primary dimensions are in inches. The sociolary dimensions, I in brackets, are in mitimaters. REAR LEFT

This SONIC bolar requires Category IV venting (condensing-positive pressure) or Category II venting! (condensing-negative pressure as defined in ANSI 2223.1/htFPA 54/CSA-8.149 latest edition.

1 Cetegory II venting must include the optional combustion at damper

A	Combustion Air inlet	6' d/a, atub
	Condensate Drain	3/4" hose
E	Exhaust Vent	6'
G1	Propana Gas	1' NPT-F
G2	Hatural Gas	1" NPT-F
J	Wring Junction Boxes	krside cabinel
P	Pressure Refet Valve	see lst for options
R	Boler Return, Vietzofc® chmp	2' p'pe, progred
	Botor Supply, Victaulic clamp	2' p'pe, grooved
	Anchor Bott Locations	(4) 1/2" Box Hetes

SCO Hu Water Supply Bolter models terminate with 2" copper tube, growed

DOJLER GORTHOLD	
ASME CSD-1 is standard	DC.
Complex with: GE GAP (FR) guidelines GAP,4.1.0 and GAP,4.1.3	
FM Global 6-4 Section 1.0	normal por mar
Main Gas Train with Disal Shut-off	
Integrated Boiler Control, NURO Series	
Operating Thermostat, 42*-195°F (5.6*-91°C)	
High Limit Thermostat, Manual Reset, 1003-1973F (383-923C)	

High Exhaust Bock Pressure Switch LWCO/Flow Switch, Paddle Type (Optional LWCO, Probe Type) Condustion Air Proving Switch, Differential Pressure Type Combustion Biower, Variable Speed, 350 Watt (SC650-750-850) & 950 Watt (SC-1000)

A.S.M.E. SECTION IV	SC-650	SC-750	SC-850	SC-1000
DESIGN DATA	SC-65(0	SC-75CD	SC-850D	80-10000
Max Pressure		160	PSIG	
Max Alexable Temperature		210'F		
Max Operating Temperature		194'F		
Healed Wel Surface Area	76.2	76,2	87	87
Flou Rato @ 20°FAT	62	7.2	82	92
I.Cn Flow Rate @ Al Firing Rates (Flow Switch Setting)	25	25	30	30

Bolers	· WS	C-650	D SC-750		□ SC-850		D SC-1000 /	
Hot Water Supply Boters	□ SCD-650			13.SCD-750		C1 SCD-850		D-1000
Fuel Options		IL FUEL		IL FUEL		L FUEL		L FUEL
rua Opours	SING OLP		UNG	BÍb	UNG DUP		LJ.NG	DIP
Min Inlet Gas Pressive	#34.18.18			3,5	W.C.			
Max Infet Gas Prossure				14"	W.C		22	
I Aax Input (BTU/hz)	650,000		750,000		850,000		1,000,000	
Max Output (BTU/nr)	612,600		706,000		800,020		923,000	
Boler HP	18,3		21.1		23.9		27.5	
Min Input (BTUAV)	125	125,000		125,000		141,000		,060
Tumdown Rabo	. 5.	5.2:1		6:1		1	/	:1
Operating & Shipping Weight [†]	780 lbs.		780 bs.		800 lbs,		B10 fcs.	
Recovery Rate (gph)	73	4,4	B47.2		960		1107.8	
Boiler Water Content			•••	<10 g	ances			
Shipping Dimensions				84°x35'x5	7' (LxWxH)			
Pawer Supply		120V 1ph 60 Hz						
Operation Current			<5	Amps			< 10	Amps
Recommended Minimum Circuit Capacity		10 Amps						

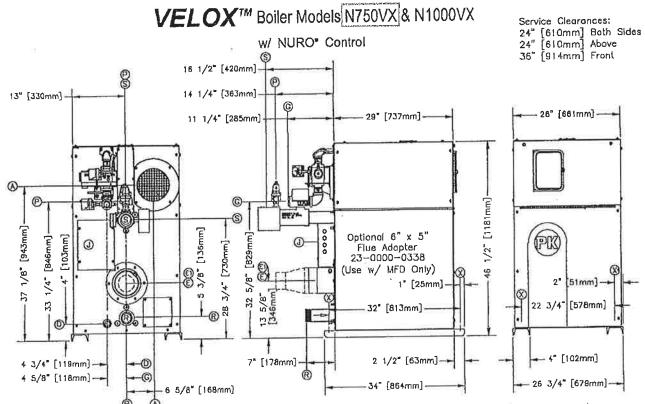
Act 50 Rs. to the Fated values when considering a dual fited models
PRESSURE RELIEF VALVE/PRESSURE-TEMPERATURE GAUGE Shipped Loose for Field Installation 0-100 psV30-240°F O 30 PSIG 1'x 1" O 50 PSIG 1'x 1-1/4" 0-100 psV30-240°F 0-100 ps/30-240°F 1 50 PSIO 1'x 1' 0-240 ps/30-240°F D 75PSIB I'x I' O 80 PSIG 1'x 1" 0-240 psV30-240"F 0-240 psi/30-240 F D 100 PSIG 1'x 1-1/4" 0-240 ps/30-240 f D 125 PSIG 1'x 1" 0-240 psV30-240'F m 150 PSIG 1'x 1'

COMMENDED CLE	ARANCE FOR SERVI	CE ACCESS	1000	
Front - 26"	Reat - 0'	Tob - 12"	Left Side - 24"	Right Side - 0"

- Victarijo is a registered trademark of Victarijo Company, Easton PA, USA
- -Kursco Industrial Palterson-Keitary reserves the right to make changes at any time wite out to difficultion
- -Dust first models are not designed to run both first's simultaneously



MODU-FIRE® Forced Draft Boiler Models N750MFD & N1000MFD



MODU-FIRE* FD boilers require Category II (condensing-negative pressure) or Category IV (condensing-positive pressure) venting and VELOX* boilers require Category I (non-condensing) venting as defined in ANSI Z223.1/NFPA 54/CSA-B.149 Latest Edition. Horseo Industrial, Following AND CAPACITIES

BOILER CONNECTIONS:	
Combustion Air Inlet	8" dio
	3/4" NPT-M
Drain (Fireside) Exhaust Vent	6" OD Nominal
@ Exhaust Vent (With Adopter	#F80rly)5"
Main Gas Connection	1 1/4" NPT-F
Wiring Junction Box	
Wiring Junction Box Pressure Relief Volve	see list for selection
® Boiler Water Return	2 1/2" NPT-N
S Boiler Water Supply	2 1/2" NPT-F
Anchor Bolt Location	(4) 3/4" dia holes

BOILER CONTROLS: ASME CSD-1 is standard. Complies with GE GAP (IRI) guidelines GAP.4.1.0 and GAP.4.1.3. Complies with FM Global 8-4/12-69 Section 1.0	
Main Gas Train: see gas train submittal	
Integrated Boiler Control, NURO* Series	
Operating Thermostat, 130°-220°F (54.4°-104°C)	
High Limit Thermostat, Manual Reset, 100-240'F (38'-116'C)	
High Exhaust Temperature Switch, Manual Reset	
High Exhaust Back Pressure Switch	
LWCO/Flow Switch, Poddle Type	
Air Switch, Differential Pressure Type	-
Combustion Blower, Variable Speed, 0.5hp	

A.S.M.E.	Section	IV	Design	Dota	_	"H"	Stamp	
Maximum			-	-				psig
Moximum	Temperatu	ıre					250	F
Heating S		-					116	sq ft

F/	ACTOR'	Y OP	TION	S:						
	Probe	Type	Low	Water	Cut	Off,	Monual	Reset	(factory	installed)
Ħ	Probe	Type	Low	Water	Cut	Off,	Manual	Reset	(shipped	loose)

C.S.A. CERTIFIED F	RATINGS AND C	APACITIES			
Max Input BTU/Hr	750,000	1,000,000 /			
Max Output BTU/Hr	638,000	850,000 /			
Boiler HP	19.0	25.4			
Max/Min Flow GPM	120/60	1,50/80			
MFD Boiler Model	N750MFD	N1000MFD			
Turndown Ratio	34	,55?·1			
Min Input BTU/Hr	150,000	1,66,000			
VELOX Boiler Model	N750VX	/N1000VX			
Turndown Ratio	1.2:1	1.6:1			
Min Input BTU/Hr	604,000	610,000			
Fuel	Notural Gas	☐Propone Gas			
Max Gos Pressure	14"				
Min Gas Pressure		′ LP-7″w.c.			
Device Requirements					
Power Requirements	ZUB-Z4UV, IPIT W/ HBULIUI, OUTIZ				
Max Operating Amps	Less that	n 6 Amps			
Operating Weight	800	Lbs.			
Water Content	6.2 0	Gallons			

Pressure Relief Valve/Pre Shipped Loose for Field I	nstallation
O 30 PSIG 1 1/4"	0-100psi//0-3201
50 PSIG 1"x 1 1/4"	0-100psi/70-320°F
© 60 PSIG 1"	0-100psi/70-320°F
75 PSIG 1"	0-240psi/70-320°F
N 80 PSIG 3/4"x 1"	0-240psi/70-320°F
100 PSIG 3/4"	0-240psi/70-320°F
125 PSIG 3/4"	0-240psî/70-320°F
150 PSIC 3/4*	0-240psi/70-320'F

INDUSTRIAL

Patterson-Kalley
N750MFD~N1000MFD&N750VX-N100VX _NURO
01.30.18

CERTIFICATE OF LIABILITY INSURANCE

DATE (MH/DD/YYYY) 06/07/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is if SUBROGATION IS WAIVED, subject this certificate does not confer rights to	ta th	a tar	na and conditions of th	TO DOHO	A' Calfaill ho	HUIUS HILLY	equire an endorsement	A st	atement on
	, 1110	COIL	nouto notati in tox of ot	CONTAC HAME:	Brandon	Mueller			
PRODUCER			18	PHONE (A/C, No.	(920) 2	62-9775	FAX (AC, No):	(920)	262-9761
Brandon Mueller Agency LLC			9 7 2"	E-MAIL ADDRES			- I AGGERATE		
206 South 3rd Street				ADDRES	8:		nulo coventos		HAIC#
XI	**						DING COVERAGE Ce Company		15091
Watertown		WI 53094	INSURE	RA: Rurai M	utuai mauram	Company			
INSURED				INSURE	RB:				
Richter Healing & Air Condillo	oning	inc.		INSURE	RC;				
421 Waler Tower Court			*	INSURE	RD;				
4.				INSURE	RE:				
Watertown			W1 53094	WSURE					
	TIEIC	ATE	MINEDER.				REVISION NUMBER:		
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INDICATED. NOTWITHSTANDING ANY RE	QUIK	EME	THE WELL AND CONDITION	ED BY	THE POLICIE	S DESCRIBED	HEREIN IS SUBJECT TO	ALL	THE TERMS,
EXCLUSIONS AND CONDITIONS OF SOCIAL		/ 1 - 0 - 1	PRINTED ALL ALL THE PARTY OF TH	BEENH	EDUCED BY	PAID CLAIMS.	10000000		
HISR LTR TYPE OF INSURANCE	AODL Inso	SUBR	POLICY NUMBER		POLICY EFF (MIMOD/YYYY)	(MINIODIYYYY)	LIMII	\$ 1,0	00.000
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CLAIMS-MADE X OCCUR					ş -		PREMISES (Ea occurrence)	\$ 50,	
CDUMS-TOUBE [7] GOOGH		1					MED EXP (Any one person)	\$ 5,0	
	N	N	CPPG142955		03/15/2018	03/15/2019	PERSONAL & ADVINJURY		00,000
A	1	"	011 011200			(1)	GENERAL AGGREGATE		00,000
GENL AGGREGATE LIMIT APPLIES PER:				- 1	ii l		PRODUCTS - COMPANY AGG	\$ 2,0	00,000
POLICY PRO LOC								\$	
OTHER:							COMBINED SINGLE LIMIT	\$ 1.0	00,000
AUTOHOBILE LIABILITY						<i>y</i>	(Ea accident) BODILY INJURY (Per person)	\$	
OTUA YAA				1		00/00/00/10	BODILY (NJURY (Per accident)	\$	
A OWNED SCHEDULED AUTOS AUTOS	N	N	BAPG134282	- 1	06/06/2018	06/06/2019	PROPERTY DAMAGE (Per accident)	8	
A AUTOS ONLY AUTOS NON-OWNED AUTOS ONLY AUTOS ONLY				/		2 :	(Per accident)	s	
AUTOS ONET									00.000
X UMBRELLA LIAB X OCCUR						1	EACH OCCURRENCE		00,000
<u> </u>	N	N	CPPG142955		03/15/2018	03/15/2019	AGGREGATE	\$ 2,0	00,000
			****					\$	
DED X RETENTION 10000	_	- 1					X PER OTH-		
AND EUDI OVEDS'I IARII ITY							E.L. EACH ACCIDENT	\$ 100	0,000
ANYPROPRIETORPARTNER/EXECUTIVE Y	N/A	N	WRKG134280		08/06/2018	08/08/2019	E.L. DISEASE - EA EMPLOYEE	5 10	0,000
I IMANGROPY IN NO.							E.L. DISEASE - POLICY LIMIT		0,000
If yes, describe under DESCRIPTION OF OPERATIONS below							E.C. DISENSE T GETS I MINIT	1	
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DESCRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (CORD	101, Additional Remarks Schede	ulo, may b	e atlached if mor	re spaco is requir	ed)		
DESCRIPTION OF OPERATIONS / LOOK (10/13) TELLIO			•						
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CERTIFICATE HOLDER				CAN	CELLATION				
CERTIFICATE HOLDER				T					LED DEFORE
				SHO	OULD ANY OF	THE ABOVE	ESCRIBED POLICIES BE (SANGEL	LED BEFORE
				THE	EXPIRATIO	N DATE IN DYN THE POLIC	CY PROVISIONS.	0E 0	
Jefferson County Human Se	rvice	S		ACC	ANDVIOR II	VE			
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1.#			WI 53549	2000	don Mueller	from .	A.M		
Jefferson			441 000-19	Bran	don Mueller	1061	CON CORPORATION	A11 -1 -	hio reconsed
					@1	988-2015 AC	ORD CORPORATION.	All IIE	ing lesalingu



February 15, 2019

Proposal #: 019700253-000

Project Location:

Jefferson, WI

Project Name: Jefferson County Workforce

Development

Following Scope of Work is based off bid advertisement dated 1-19-19

Scope of Work (Base Bid):

- PK Boiler/pumps

• Furnish and install 2 PK model N750-vx boilers9 (CSD-1)

• Furnish and install 2 Armstrong 4360-2b pumps

• Remove 2 existing PK boilers

• Reconnect new boilers to existing venting, gas piping, and hydronic piping

• Piping method to be grooved (Victaulic)

• Extend existing housekeeping pads

Controls

Owner provided
Sun Mechanical will coordinate with owner's controls contractor

Electrical

Owner provided Sun Mechanical will coordinate with owner's electrical contractor

Lead Time:

Boilers: 3-4 weeks

Pumps: 6-8 weeks

Estimated Completion Date:

• 5-1-19

Qualifications:

Both existing boilers will need to be removed for clearances of installation of both new boilers

Exclusions:

Tax (tax exempt project)

BASE BID TOTAL: \$40,100.00

ALTERNATE 1 (condensing boiler option):

- Boilers and pumps
 - Furnish and install 2 Lochinvar FTX725 boilers (CDS-1)
 - Furnish and install 2 Calefactio Neutralizer Kit (condensate piping to nearest floor drain included)
 - Furnish and install 2 Taco 1935 series pumps
 - Furnish and install 2 new Multipurpose valves
 - Furnish and install 2 new low water cutoffs
 - Remove existing PK boilers
 - Furnish and install PVC exhaust and intake piping
 - Extend housekeeping pad for both boilers
 - Piping method to be grooved (Victaulic)
- Controls
 - Owner provided
 - Sun Mechanical will coordinate with owner's controls contractor
- Electrical
 - Owner provided
 - Sun Mechanical will coordinate with owner's electrical contractor
- Focus on Energy
 - Boilers are eligible for Focus on Energy
- Permit
 - Included in proposal
- Lead Time:

Boilers: 3-4 weeksPumps: 6-8 weeks

Estimated Completion Date:

• 5-1-19

Qualifications:

• Both existing boilers will need to be removed for clearances of installation of both new boilers

Exclusions:

Tax (tax exempt project)

ALTERNATE TOTAL (ADD TO BASE BID): \$50,500.00

If you	have any	questions, p	lease d	o not	hesitate	e to cal	l me
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Sincerely,

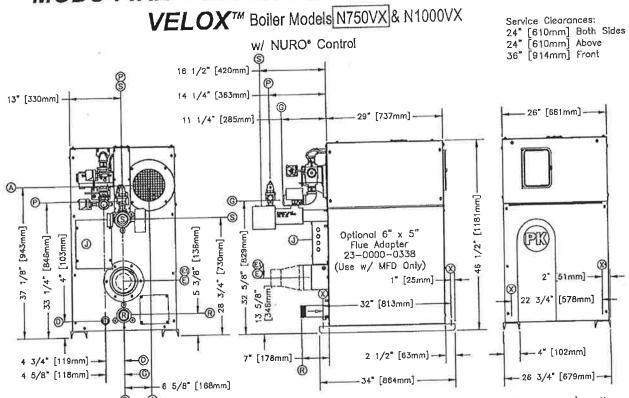
Ronak Patel

Project Manager

Please	Sign	for	Acceptance
--------	------	-----	------------

Signature:	Date:
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MODU-FIRE® Forced Draft Boiler Models N750MFD & N1000MFD



MODU-HRE* FD boilers require Category II (condensing-negative pressure) or Category IV (condensing-positive pressure) venting and VELOX** boilers require Category I (non-condensing) venting as defined in ANSI Z223.1/NFPA 54/CSA-B.149 Latest Edition. Horseo Industrial, Politerson-Kalay reserves the right to make changes at any time atthout notification.

BOILER CONNECTIONS:	8° dia
Combustion Air Inlet	
Drain (Fireside)	3/4" NPTM
© Exhoust Vent	6" OD Nominal
Exhaust Vent (With Adapter - MFD Only)) 5 *
Drain (Fireside) Exhaust Vent Exhaust Vent (With Adapter MFD Only) Main Gos Connection Wiring Junction Box Pressure Relief Valve Boiler Water Return	1 1/4" NPT-F
Wiring Junction Box	
Pressure Relief Valve	see list for selection
R Boiler Water Return	2 1/2" NPT-M -
S Boiler Water Supply	2 1/2" NPT-F
(X) Anchor Bolt Location	(4) 3/4" die holes

DILER CONTROLS: ASME CSD-1 is standard. Implies with GE GAP (IRI) guidelines GAP.4.1.0 and GAP.4.1.3. Implies with FM Global 6-4/12-69 Section 1.0	
oln Gas Train: see gas train submittal	
tegrated Boiler Control, NURO' Series	
perating Thermostat, 130'-220'F (54.4'-104'C)	
gh Limit Thermostot, Manual Reset, 100-240'F (38'-116'C	Ř.
gh Exhaust Temperature Switch, Manual Reset	
gh Exhaust Back Pressure Switch	
/CO/Flow Switch, Paddle Type	
r Switch, Differential Pressure Type	
ombustion Blower, Variable Speed, 0.5hp	

A.S.M.E. Section IV Design Data	- "H" Stamp
Maximum Pressure	160 psig
Maximum Temperature	250'F
Heating Surface	116 sq ft

F/	ACTOR'	Y OP	TION	S:						5
T	Probe	Туре	Low	Woter	Cut	Off,	Manual	Reset	(factory	installed)
뒥	Probe	Type	Low	Water	Cut	Off,	Monual	Reset	(shipped	loose)

Mox Input BTU/Hr	750,000	1,000,000 /
Mox Output BTU/Hr	638,000	850,000
Boiler HP	19.0	25.4
Max/Min Flow GPM	120/60	150/80
MFD Boiler Model	N750MFD	N1000MFD
Turndown Ratio	>3:4<	5:\
Min Input BTU/Hr	150,000	166,000
VELOX Boiler Model	N750VX	N1000VX
Turndown Ratio	1.2:1	1.6:1
Min Input BTU/Hr	604,000	610,000
Fuel	Notural Gas	Propone Gas
Max Gas Pressure		w.c.
Min Gas Pressure		/ LP-7"w.c.
Power Requirements	☐ 208-240v,1	v,1ph,60hz ph_w/neutral,60hz
Max Operating Amps	Less the	an 6 Amps
Operating Weight	801) Lbs.
Water Content	6.2	Gallons

Sh	ripped Loose for f	e/Press—Temp Gauge Tield Installation
	30 PSIG 1 1/4"	0-100psi//0-320 F
d		/4" 0-100psi/70-320'F
		0-100psi/70-320°F
듬	75 PSIG 1"	0-240psi/70-320'F
片	80 PSIG 3/4"x 1"	0-240psi/70-320°F
님	100 PSIG 3/4"	0-240psi/70-320'F
片	125 PSIG 3/4"	0-240psi/70-320°F
님	150 PSIG 3/4"	0-240psi/70-320'F

HARSCO

Patterson-Kelley N750MFD-N1000MFD&N750VX-N100VX _NURO 01.30.18



FTXL FIRE TUBE CONDENSING BOILER

Submittal Sheet

FTX-Sub-03

FTXL FIRE TUBE COMMERCIAL BOILERS

Job Name:	Jefferson County	Model No.	
Location:	AND COMME	Type Gas:	
Engineer:		Equipment Tag(s):	
Wholesaler:			
Contractor:	Sun Mechanical		

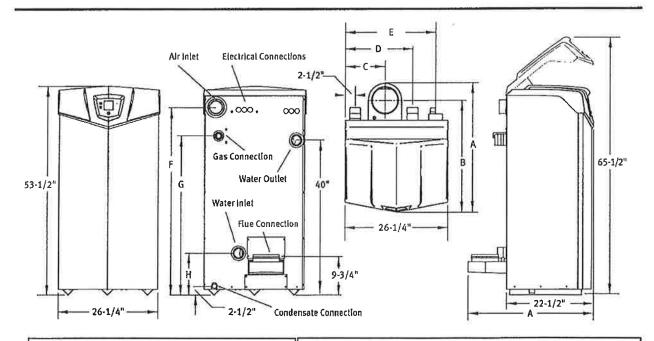
NOTES:

FOR EASE IN ORDERING BY MODEL NUMBER

FTX 850 N M13

This model is:

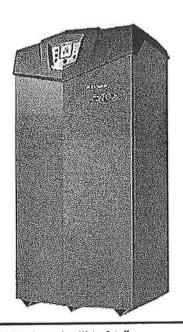
- FTXL Fire Tube boiler
- 850,000 Btu/hr
- Natural gas
- M13 Flring Controls



				FTXI	Boile	er		AHR	lggi	μįρ.				Dlı	nensi	ons a	nd Sp	ecific	ation	5			
Mor	del o.	Min i	Pul Mox MBH	Thermol	Gross Output MBH	NET AHRI Rating MBH	Turn down	(GP	ow 'M) Mox	HEX Water Volume	A	8	ć	D	E	F	G	Н	Water Conn.	Vent Size	Air Intake	Gas Conn.	Ship Wt. (lbs.)
mw	C(KL)	40.0	391.5	12.0%	332	341	10:1	10	105	13	30-1/7	27-1/T	10-1/4"	17"	23-1/4"	(6-1/1"	39-1/2"	10-3/4"	Ť	4'	4"	1"	435
FIXS%	(KI)	50.0	500.0	97.J%	459	425	10:1	15	105	12	30-1/7	27-1/2	14-1/4"	17'	23-1/4"	45-1/4"	3)-1/2"	103/1	T	4'	4"	1.	410
HIMO	(X,X,1)	45,0	600,0	97.5%	585	9A	7:1	15	105	12	30-1/7	27-1/Y	14-1/4"	17'	23-1/4"	45-1/4"	33-1/2"	103/4"	r	4"	4"	1"	470
mos	(U)(R	103.5	725.0	\$7.2%	705	1)3 E	1.1	พ	150	17	33"	21-1/2	10-1/2	11-1/1	131/2	11.1/1	41-1/4	111	1.1/2		1	P.	510
MIX	(IXX	121.5	\$50.0	\$7.UX	\$25	717	7:1	25	150	16	33"	23-1/2	10-1/2"	17-1/7	231/1	45-1/7	41-1/4"	11.	2-1/T	8"	4'	ľ	535



CON-X-US® REMOTE CONNECT CAPABLE CASCADING SEQUENCER LOCH-N-LINKTM USB DRIVE SETUP 5 INPUTS FROM 399,999 TO 850,000 BTU/HR UP TO 10:1 TURNDOWN RATIO COMMON VENT AND PVC DIRECT-VENTING FLOW RATES FROM 10 TO 150 GPM SMALL 6.2 SQ. FT. FOOTPRINT 4 PUMP CONTROL WIRELESS OUTDOOR SENSOR CAPABLE



Smart System Features

- > Smart System Digital Operating Control Multi-Color Graphic LCD Display w/Navigation Dial
- > Loch-N-LinkTM USB Thumb Drive Port for Easy Programming
- > Cascading Sequencer with Built-in Redundancy Selectable Cascade Type:

Lead Lag/Efficiency Optimization Multiple Size Bollers Front-End Loading

- > 3 Reset Temperatures Inputs w/Independent **Outdoor Reset Curves for Each Outdoor Sensor**
- > Four-Pump Control

System Pump with Parameter for Continuous Operation Boiler Pump with Variable-Speed Control Domestic Hot Water Boller Pump Domestic Hot Water Recirculation Pump Control with Sensor

- > Building Management System Integration 0-10 VDC input to Control Modulation or Setpoint 0-10 VDC input from Variable-Speed System Pump 0-10 VDC Modulation Rate Output Signal 0-10 VDC Enable/Disable Signal
- > Programmable System Efficiency Optimizers Space Heating Night Setback DHW Night Setback Anti-Cycling Ramp Delay Boost Time and Temperature
- > High-Voltage Terminal Strip 120 VAC/60 Hertz/1 Phase Pump Contacts for 3 Pumps
- > Low-Voltage Terminal Strip Building Recirculation Pump Start/Stop **Building Recirculation Return Temp Sensor** Contacts **Proving Switch Contacts** Flow Switch Contacts Alarm Contacts

Runtime Contacts 3 Space Heat Thermostat Contacts **Tank Thermostat Contacts** System Sensor Contacts Tank Sensor Contacts **Cascade Contacts** 0-10 VDC BMS Contacts 0-10 VDC Boller Rate Output Contacts 0-10 VDC Boller Pump Speed Contacts 0-10 VDC System Pump Speed Contacts ModBus Contacts

- > Time Clock
- > Data Logging Ignition Attempts Last 10 Lockouts Space Heat Run Hours **Domestic Hot Water Run Hours**

Standard Features

- > 97%-98% Thermal Efficiency
- > Modulating Burner with up to 10:1 Turndown Direct Spark ignition Low NOx Operation Sealed Combustion Low Gas Pressure Operation
- > Stainless Steel Fire-Tube Heat Exchanger ASME-Certified, "H" Stamped 160 psi Working Pressure 50 psi Relief Valve Combustion Analyzer Test Port Fully Welded Design
- > Vertical and Horizontal Direct Vent Direct Vent up to 100 feet PVC, CPVC, Polypropylene or AL29-4C Factory Supplied Sidewall Vent Termination
- > Smart System Control
- > Other Features On/Off Switch Adjustable High Limit with Manual Reset Automatic Reset High Limit

Manual Reset Low Water Cutoff Flue Temperature Sensor Low Air Pressure Switch Temperature and Pressure Gauge Condensate Trap Zero Service Clearances 10-Year Limited Warranty Low Water Cutoff **Custom Maintenance Reminder with Contact** Password Security **Customizable Freeze Protection Parameters**

Optional Equipment

- CON-X-US Remote Connectivity
- ☐ ModBus Communication BMS Gateway to BACnet or LonMark
- SMART SYSTEM PC Software
- ☐ Alarm Bell
- ☐ Motorized Isolation Valve
- ☐ Wireless Outdoor Temperature Sensor
- Multi-Temperature Loop Control
- ☐ Variable-Speed Boller Circulator
- ☐ Constant-Speed Boller Circulator
- Condensate Neutralization Kit
- ☐ Concentric Vent Kit (FTX400·FTX600)
- Common Vent Kits
- 🔁 High and Low Gas Pressure Switches w/Manual Reset (FTX500-FTX850)
- 30 psl ASME Relief Valve
- 575 pst ASME Rellet Valve 50 251 Asma ocalies
- ☐ 100 psi ASME Relief Valve
- ☐ 125 psi ASME Relief Valve
- ☐ 150 psl ASME Relief Valve
- > Firing Controls
- ☐ M9 · Standard Construction
- M13 · CSD-1/FM/GE Gap (FTX500-FTX850)



Lochlmar, LLC 300 Maddox Simpson Parkmay Lebanon, Teanessee 37090 Pt 615.589.8900 / Ft 615.547.1000

tochinyar,com











CERTIFICATE OF LIABILITY INSURANCE

DATE (MIA'00YYYY) 02/14/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER State Farm		CONT	Don Gerh	arz		
305 S Main St		I PHON	0 exti: 608-74	1-1122	PAX Not:	608-741-1124
Janesville, WI 53545		ADOR	iss: don.gema	arz.g6j8@stat	tefarm.com	
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(the same of the		INSUR	ER A : Stato Far	rm Fire and Ca	sually Company	25143
SUN MECHANICAL LLC		เมเรบค	ER B I			
2340 CHAPARREL DR		NISUR	ERCI			
JANESVILLE WI 53546	8-3130	1	ERD!	SHEET SHEET		
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		PISUR			**** (** *** * * * * *	
	TIFICATE NUMBER:				REVISION NUMBER:	
THIS IS TO CERTIFY THAT THE POLICIES INDICATED, NOTWITHSTANDING ANY RECERTIFICATE MAY BE ISSUED OR MAY EXCLUSIONS AND CONDITIONS OF SUCH	PERTAIN, THE INSURANCE POLICIES, LIMITS SHOWN	CONDITION OF AN	Y CONTRACT THE POLICIE REDUCED BY	OR OTHER ES DESCRIBE PAID CLAIMS	DOCUMENT WITH RESPE	OT TO MAHOU THE
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					GENERAL AGGREGATE	\$ 4,000,000
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AUTOMOBILE LIADIUTY			1		COMBINED SINGLE TIMIY	
OTUA YMA					BODILY INJURY (Per person)	5
ALLOWNED SCHEDULED AUTOS	1 1				EXHILY INJURY (Per secident)	<u>s</u>
IBRED AUTOS NON-OANED AUTOS					PROPERTY DANAGE (Per accident)	9
A5103					(Per accident)	.5
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EXCESS LIAB CLAIMS MACK					EACH OCCURRENCE	\$
DEO RETEMBONS					ACCREGATE	\$
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AND EMPLOYERS' LIABILITY ANY PROPRIETOR PARTHER EXECUTIVE YIN			f I		TORY LIMES ER	
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Web: www.1901inc.com

Phone: 608.273.3434 Fax: 608.273.9654



Mailing Address: 2801 Syene Road Madison, WI 53713-3203

DATE:

Feb. 15, 2019

QUOTATION

TO:

JEFFERSON COUNTY

Ryan Mundt, Maintenance Supervisor

RE:

Replacement Two Boilers at Workforce Development

We are pleased to offer our quotation for the replacement work based on the following scope of work:

Including:

Provide boilers, pumps, triple duty valves disconnection and removal as required

 Provide Two PK model N750-VX Velox non-condensing boilers, 750,000 BTU/Hr input, direct replacements

Furnish Protonode BACnet protocol converter with boilers

Provide hot water, gas, flue and combustion air pipe reconnections

Provide two new boiler recirculation pumps and two new triple duty valves

Test, Adjust and Balance two new pumps

Pipe Insulation as required

Local HVAC Permit Fees

Test, Startup and one-year warranty all parts and labor

Owner Training

Exclusions:

- Cost of bond
- Sales Taxes
- Electrical disconnections and reconnections
- Temperature Controls work
- Temporary heat or ventilation
- Asbestos and Lead abatement
- Removal of hazardous / toxic materials
- Concrete work at pads (if needed)
- Overtime
- MBE participation

Web: www.1901inc.com

Phone: 608.273.3434 Fax: 608.273.9654



Mailing Address: 2801 Syene Road Madison, WI 53713-3203

TOTAL BASE BID PRICE:

\$49,280.00

ALTERNATE ADD TO BASE BID:
TWO NEW HI EFFICIENCY 600,000 CONDENSING BOILERS

\$8,970.00

Additional work required over and beyond Base Bid items:

- We disconnect and remove existing boilers flues and combustion air piping
- Provide new boilers exhaust flues and combustion air to area well per code
- Provide acid neutralization at each new boiler
 Note concrete pads need to be extended by owner

Estimating Direct Phone: 608-268-5963

Please call the undersigned if we can be of any assistance. We look forward to working with you on this project.

Sincerely,

1901 Mechanical & Plumbing

Mike Casper

Project Estimator

mcasper@1901inc.com



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 1/9/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed.

l if	SUBROGATION IS WAIVED, subjectils certificate does not confer rights	to t	he tel	rms and conditions of th	re polic	y, certain po	olicies may : \.	require an endorsement	t. Asta	atement on	
-	DUCER	io tin	COIL	incate noider in ned of 30	CONTA	CT Kimbarly 7	immormon				
MS	Insurance Solutions, Inc.				CONTACT NAME: Kimberly Zimmerman PHONE (A/C, No. Ext): 608-288-2738 (A/C, No.):						
	8 John Nolen Drive				PHONE (AIC, No. Ext); 608-288-2738 (AIC, No.): E-MAIL ADDRESS: kimberly.zimmerman@m3ins.com						
Madison WI 53713				ADDRESS: KIMBERY.ZIMMERMAN@M3IRS.COM INSURER(S) AFFORDING COVERAGE					VIII0 7		
										NAIC #	
	11782	LIPLIA	1DU-01			RA: Amerîsur					
	red Of Inc	LIOU III	10-01			RB: Naullus					
28	01 Syene Road				INSURE	Rc: Amerisur	re Mutual Ins	urance			
Ma	dison WI 53713				INSURE	RD:					
					INSURE	RE:					
					INSURE	RF:					
				NUMBER: 1591648907				REVISION NUMBER:			
CE	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY REETIFICATE MAY BE ISSUED OR MAY XCLUSIONS AND CONDITIONS OF SUCH	EQUIF PERT POLI	REMEI AIN, CIES.	NT, TERM OR CONDITION THE INSURANCE AFFORD LIMITS SHOWN MAY HAVE	OF ANY	CONTRACT THE POLICIES SEDUCED BY	OR OTHER IS DESCRIBED PAID CLAIMS.	DOCUMENT WITH RESPE O HEREIN IS SUBJECT TO	CT TO V	WHICH THIS	
INSR LTR	TYPE OF INSURANCE	INSD	SUBR	POLICY NUMBER		POLICY EFF (JUM/DD/YYYY)	POLICY EXP (MIM/DD/YYYY)	LUAIT	S		
Α	X COMMERCIAL GENERAL LIABILITY			CPP21038040201		1/1/2019	1/1/2020	EACH OCCURRENCE	\$1,000,	000	
	CLAIMS-MADE X OCCUR							PREMISES (Ea occurrence)	\$100,00	00	
								MED EXP (Any one person)	\$ 5,000		
								PERSONAL & ADV INJURY	\$1,000,	000	
	GEN'L AGGREGATE LIMIT APPLIES PER:				1			GENERAL AGGREGATE	\$2,000,	000	
	POLICY X PRO- X LOC	1			- 1	- 1		PRODUCTS - COMP/OP AGG	\$2,000,	000	
	OTHER:								\$		
С	AUTOMOBILE LIABILITY			CA21038030202		1/1/2019	1/1/2020	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,	000	
	X ANY AUTO							BODILY (NJURY (Per person)	\$		
	OWNED SCHEDULED					1		BODILY INJURY (Per accident)	\$		
	X HIRED X NON-OVINED					- 1		PROPERTY DAMAGE	s		
	AUTOS ONLY AUTOS ONLY				1			(Per accident)	s		
С	X UMBRELLALIAB X OCCUR			CU21038050202	-	1/1/2019	1/1/2020	TABLE COCHODENCE	\$10,000	000	
C	H			CU21030030202	1	11 1120 18	1/1/2020	EACH OCCURRENCE		J,000	
	I VI				- 1	1		AGGREGATE	\$		
A	DED X RETENTIONS O			14/02/0200002		1/1/2019	1/1/2020	X PER OTH-	\$		
^	AND EMPLOYERS' LIABILITY VIN			WC210380602		(71/2019	17172020		+ 400 0		
	ANYPROPRIETOR/PARTNER/EXECUTIVE N	N/A			- 1	1		E.L. EACH ACCIDENT	\$100,00		
	(Mandatory in NH)							E.L. DISEASE - EA EMPLOYEE			
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$ 500,00		
A	ProLIPollution Leased/Rented Equip Installation			CCP2016441 CPP21038040201		1/1/2019 1/1/2019	1/1/2020 1/1/2020	Prof./Pollution Leased/Rented Equip Installation Floater	2,000, 100,00 650,00	00	
190	PRIPTION OF OPERATIONS / LOCATIONS / VEHIC 1 Inc. will meet any higher insurance re -contributory language by endorsement	ouire	ments	by combining the primary	e, may be underly	attached if more ring policy wil	space Is require h our Umbrel	d) la limit, which contains pri	imary &		
CE	TIEICATE HO! DED				CANO	ELLATION					
CERTIFICATE HOLDER				SHOUTHE	JLD ANY OF T	DATE THE	ESCRIBED POLICIES BE CARREST NOTICE WILL E	NCELL	ED BEFORE IVERED IN		
	Master Certificate				Кий	aly Li	ITATIVE				

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Milwaukee: 11217 West Becher Street

West Allis, WI 53227-1032 Phone: 414.476.5790

Fax: 414.476.0916 www.illingworth-kligust.com February 14, 2019

Mr. Ryan Mundl Jefferson County Human Services 1541 Annex Road Jefferson County, WI 53549 E: ryanmu@jeffersoncountywi.gov

Re:

Workforce Devolvement Boiler Replacements

Dear Mr. Mundt:

We are pleased to provide our proposal for the above referenced project. We include the following:

OPTION 1

NON-CONDENSING BOILERS

Two (2) Patterson-Kelley Model VELOX N750VX NON-CONDENSING hot water boller. Each boiler is equipped with integral burner and burner control system, is completely preassembled, piped, wired, factory fire tested, bears the AGA certification, and will be equipped in accordance with factory specifications, including these special features:

- Full Modulation Burner w/ 1.75:1 turndown 637.5 MBH to 513 MBH output
- 6" vent connection, Category I, CAN RE-USE EXISTING VENTING
- 115/1/60 ELECTRICAL
- Gas Train, including: motorized shut-off valves, low & high gas pressure switches
- 160 PSIG design pressure with 60 PSIG relief valve and trim
- Microprocessor controller for Flame and Combustion Management. Color touch screen display for
 operating information set up info, and fault information with trouble shooting guides on screen. Functions
 include outdoor reset, lead-lag, and auto rotation. Sensors for outdoor air temperature and supply header
 temperature are shipped loose.
- Main gas pressure regulator (7" W.C. min. 14" W.C. max.).
- Boiler Pump Delay Relay (pllot duty).
- Terminals for 0-10 Vdc for external enable and control of either firing rate or set point.
- One (1) START UP and operator training
- Two (2) BOILER CIRCULATING PUMPS, ARMSTRONG Series: E24 In-Line Boiler Pump, 1-1/2" flanged, 64 gpm @ 18 TDH, 0.4 hp 3400 rpm, 115/1/60, ODP Tag: B1, B-2
- Two (2) TRIPLE DUTY VALVES, ARMSTRONG, 2-1/2* flanged Tag: B-1, B-2

Not included in the above proposal on OPTION 1:

- Asbestos Identification or Abatement.
- Taxes
- Premium Time.

Plumbing

Piping

Sheet Metal

Controls

Service

Engineering

Design

Auto Cad

Green Buildings

OPTION 2

OPTIONAL IF CURRENT VENTING IS AL29-4C STAINLESS

In lieu of two (2) Model N750VX, provide Model N750MFD with 5:1 tumdown full modulation burners. All other components remain the same as above non-condensing option, however the ELECTRICAL IS 208/230/3/60 FOUR WIRE.

Provide and Install new Stalnless Steel Venting on (2) Boilers.

Not included in the above proposal on OPTION 2:

- Electrical
- Asbestos Identification or Abatement.
- Taxes
- Premium Time.

This proposal is based on work being performed during normal working hours unless otherwise noted above. Normal working hours are considered to be between 7:00 a.m. and 4:30 p.m., Monday through Friday.

To the extent this quotation/proposal includes materials and/or equipment that contain or are comprised of steel, the price set forth herein for such items is guaranteed for a period of 15 days from the date of this quotation/proposal. After such time, Illingworth-Kilgust Mechanical reserves the right to increase the price set forth herein for such items when the parties enter a contract for the work or when Illingworth-Kilgust Mechanical actually orders such items, whichever the later, to reflect the then-current price of such items, as such pricing may be affected by market conditions including, but not limited to, tariffs, quotas, and/or duties. The parties agree that the pricing for such items in this quotation/proposal is guaranteed only for such time, and Customer assumes the risk of any such price increases for such items after such time.

If customer fails to sign this quotation/proposal within fifteen (15) days from the date of this quotation/proposal, this quotation/proposal shall be deemed void, withdrawn, and canceled.

We thank you for the opportunity to provide you with this proposal and look forward to working with you on this project. Should you have any questions, please do not hesitate to contact us.

Sincerely,

Lou Garcia

Project Manager

Illingworth-Kilgust Mechanical, Inc.

Direct: 414.431.7128

Igarcia@ikmechanical.com

LG/sb

This Propo	sal Accepted By:	
	(Signalure)	
	(Dəle)	
	(P.O. Number)	



CERTIFICATE OF LIABILITY INSURANCE

DATE (MINDD/YYYY) 09/05/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER		CONTACT NAME:	
""MARSH USA INC	1010	PHONE	FAX (A/C, No):
1166 AVENUE OF THE AMER NEW YORK, NY 10038 Phone: 866-966-4664	ICAS	(A/C, No, Ext): E-MAIL ADDRESS:	TINO/NON
Emcor.Certrequest@marsh.cor	n / Fax: 203-229-6787	INSURER(S) AFFORDING COVERAGE	NAIC #
498638-Illin-Corp-18-19		INSURER A : Continental Casualty Company	20443
INSURED INCLUDE LINE LINE LINE LINE LINE LINE LINE LIN	TIANDAI	INSURER в : American Casualty Company Of Reading, Pa	20427
ILLINGWORTH-KILGUST MEC	HANICAL	INSURER C: Transportation Insurance Co	20494
WEST ALLIS, WI 53227		INSURER D : Continental Insurance Company	35289
		INSURER E :	
		INSURER F:	
COVERAGEO	OFFICIOATE MUNICIPA	ANC CORREGER OF DEVICION MILE	MDED: 11

COVERAGES

CERTIFICATE NUMBER: NYC-008932868-20

HEVISION NUMBER: 11

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR		TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP	LIMIT	s
A	Х	COMMERCIAL GENERAL LIABILITY		-	GL 6072246207	10/01/2018	10/01/2019	EACH OCCURRENCE	\$ 2,000,000
		CLAIMS-MADE X OCCUR			(14 10	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000
					1			MED EXP (Any one person)	\$ 25,000
					/			PERSONAL & ADV INJURY	\$ 2,000,000
	GEN	NL AGGREGATE LIMIT APPLIES PER:			(GENERAL AGGREGATE	\$ 6,000,000
		POLICY X PRO-			f			PRODUCTS - COMP/OP AGG	s 14,000,000
		OTHER:							\$
Ā	AUT	OMOBILE LIABILITY			BUA 6072246269	10/01/2018	10/01/2019	COMBINED SINGLE LIMIT (Ea accident)	\$ 2,000,000
	Х	ANY AUTO			1			BODILY INJURY (Per person)	\$
		OWNED SCHEDULED AUTOS			1			BODILY INJURY (Per accident)	\$
	Х	HIRED X NON-OWNED AUTOS ONLY			(PROPERTY DAMAGE (Per accident)	\$
		AUTOS ONE.						Auto Physical Damage	\$ Included
0	х	UMBRELLA LIAB X OCCUR			CUE 6050250605	10/01/2018	10/01/2019	EACH OCCURRENCE	\$ 5,000,000
		EXCESS LIAB CLAIMS-MADE			[∞			AGGREGATE	\$ 5,000,000
1		DED X RETENTIONS 10,000							\$
В		KERS COMPENSATION			WC 6072290921 (AOS)	10/01/2018	10/01/2019	X PER OTH-	
В	ANYF	PROPRIETOR/PARTNER/EXECUTIVE 7/11			WC 6072336019 (CA)	10/01/2018	10/01/2019	E.L. EACH ACCIDENT	\$ 1,000,000
С	(Man	idatory in NH)	N/A		WC 6072378738 (AZ, OR, WI)	10/01/2018	10/01/2019	E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
	If yes	s, describe under CRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
		*							

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) EVIDENCE OF COVERAGE

CERTIFICATE HOLDER	CANCELLATION
ILLINGWORTH-KILGUST MECHANICAL 11217 W. BECHER ST. - WEST ALLIS, WI 53227	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE of Marsh USA Inc.
16	Manashi Mukherjee Manashi Mukherjee

AGENCY CUSTOMER ID: 498638

LOC #: Norwalk



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY "MARSH USA INC		NAMED INSURED ILLINGWORTH-KILGUST MECHANICAL 11217 W. BECHER ST.	
POLICY NUMBER		WEST ALLIS, WI 53227	
CARRIER	NAJC CODE		
1		EFFECTIVE DATE:	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

Auto Physical Damage Comp / Coll Deductible \$500

In the event of cancellation or material change that reduces or restricts the insurance afforded by this Coverage Part (other than the reduction of eggregate limits through payment of claims as applicable), insurer agrees to mail prior written notice of cancellation or material change to: Certificate Holder

Schedule

1. Number of days advance notice; For any statutorily permitted reason other than non-payment of premium, the number of days required for notice of cancellation as provided in paragraph 2 of either the Cancellation Common Policy Conditions or as amended by the applicable state cancellation endorsement is increased to the lesser of 60 days or the number of days required in a written contract.

For non-payment of premium, The greater of (1) the number of days required by state law or (2) the number of days required by written contract.

Notice will be mailed to: Certificate holder



CERTIFICATE OF LIABILITY INSURANCE

DATE (MIM/DD/YYYY) 09/05/2018

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AGENCY CUSTOMER ID: 498638

LOC#: Norwalk



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY "MARSH USA INC		NAMED INSURED ILLINGWORTH-KILGUST MECHANICAL 11217 W. BECHER ST.
POLICY NUMBER		WEST ALLIS, WI 53227
CARRIER	NAIC CODE	
		EFFECTIVE DATE:

ADDITIONAL REMARKS

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FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

Auto Physical Damage Comp / Coll Deductible \$500

In the event of cancellation or material change that reduces or restricts the insurance afforded by this Coverage Part (other than the reduction of aggregate limits through payment of claims as applicable), insurer agrees to mail prior written notice of cancellation or material change to: Certificate Holder

1. Number of days advance notice: For any statutority permitted reason other than non-payment of premium, the number of days required for notice of cancellation as provided in paragraph 2 of either the Cancellation Common Policy Conditions or as amended by the app\(\text{Teach} \) cancellation endorsement is increased to the lesser of 60 days or the number of days required in a written contract.

For non-payment of premium, The greater of (1) the number of days required by state law or (2) the number of days required by written contract.

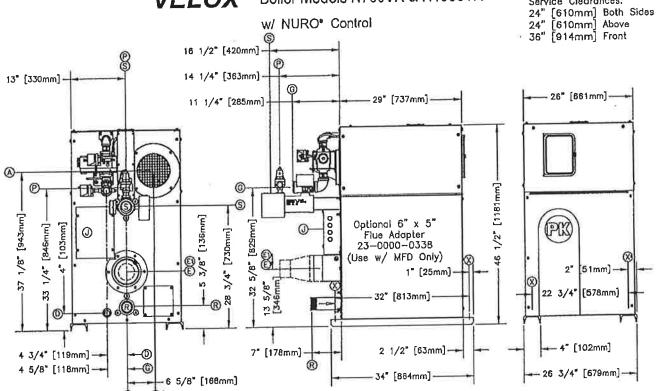
Notice will be malled to: Certificate holder

CIPTION 4

MODU-FIRE® Forced Draft Boiler Models N750MFD & N1000MFD

VELOX[™] Boiler Models N750VX & N1000VX

Service Clearances:



MODU-FIRE* FD boilers require Category II (condensing—negative pressure) or Category IV (condensing—positive pressure) venting and VELOX* boilers require Category I (non—condensing) venting as defined in ANSI Z223.1/NFPA 54/CSA—B.149 Latest Edition. Horsco Industrial, Pollerson-Kelley reserves the right to make changes at any time without notification.

BOILER CONNECTIONS:	
(A) Combustion Air Inlet	8" dia
(ii) Drain (Fireside)	3/4" NPT-M
E Exhaust Vent	6" OD Nominal
(i) Exhaust Vent (With Adapter - MFD Only)	5*
(A) Combustion Air Inlet (D) Drain (Fireside) (E) Exhaust Vent (E) Exhaust Vent (E) Exhaust Vent (E) Main Gas Connection (D) Wiring Junction Box (E) Pressure Relief Valve (E) Boiler Water Return (E) Boiler Water Supply (E) Anchor Bolt Location	1 1/4" NPT-F
Wiring Junction Box	
P Pressure Relief Valve	see list for selection
Roiler Water Return	2 1/2" NPT-M
Boiler Water Supply	2 1/2" NPT-F
Anchor Bolt Location	(4) 3/4" dia holes

BOILER CONTROLS: ASME CSD-1 is standard, Complies with GE GAP (IRI) guidelines CAP.4.1.0 and GAP.4.1.3. Complies with PM Global 6-4/12-69 Section 1.0
Main Gos Train: see gas train submittal
ntegrated Boiler Control, NURO* Series
Operating Thermostat, 130'-220'F (54.4'-104'C)
ligh Limit Thermostat, Manual Reset, 100-240'F (38'-116'C
ligh Exhaust Temperature Switch, Manual Reset
High Exhaust Back Pressure Switch
WCO/Flow Switch, Paddle Type
Air Switch, Differential Pressure Type
Combustion Blower, Variable Speed, 0.5hp

A.S.M.E. Section IV Design Date	a — "H" Stamp
Maximum Pressure	160 psig
Moximum Temperature	250'F
Heating Surface	116 sq ft

FACTORY OF	TIONS:					
Probe Type	Low Water	Cut	Off,	Manual	Reset	(factory installed)
Probe Type	Low Woter	Cut	Off,	Manual	Reset	(shipped loose)

C.S.A. CERTIFIED F	RATINGS AND CAPACITIES				
Max Input BTU/Hr	750,000 1,000,000				
Max Output BTU/Hr	638,000 850,000				
Boller HP	19.0	25.4			
Mox/Min Flow GPM	120/60	150/80			
MFD Boiler Model	N750MFD N1000MFD				
Turndown Ratio	5:1 5:1				
Min Input BTU/Hr	150,000 166,000				
VELOX Boller Model	N750VX N1000VX				
Turndown Ratio	1.2:1 1.6:1				
Min Input BTU/Hr	604,000 610,000				
Fuel	☐ Natural Gas ☐ Propane (
Max Gas Pressure	14" w.c.				
Min Gas Pressure	NG-3.5" / LP-7"w.c.				
	120v,1ph,60hz				
Power Requirements	□ 208-240v,1ph w/neutral,60hz				
Max Operating Amps					
Operating Weight		O Lbs.			
Water Content	6.2	Gallons			

Pressure Relief Valve/P Shipped Loose for Field	Installation
	0-100psi/70-320°F
30 PSIG 1 1/4" 50 PSIG 1"x 1 1/4"	0-100psi/70-320°F
☐ 60 PSIG 1"	0-100psi/70-320°F
75 PSIG 1"	0-240psi/70-320°F
□ 80 PSIG 3/4"x 1"	0-240psi/70-320°F
100 PSIG 3/4"	0-240psi/70-320°F
□ 125 PSIG 3/4"	0-240psi/70-320'F
☐ 150 PSIG 3/4"	0-240psl/70-320'F

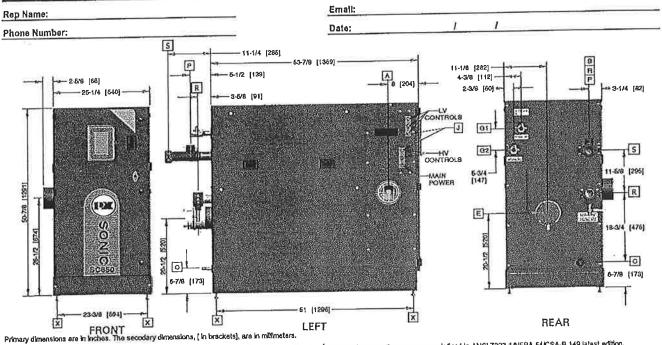
INDUSTRIAL

Patterson-Kelley N750MFD-N1000MFD&N750VX-N100VX_NURO 01.30.18

P-K SONIC®

CD-050 & CCD-1000





This SONIC boller requires Category IV venting (condensing-positive pressure) or Category II venting (condensing -negative pressure as defined in ANSI 2223.1/NFPA 54/CSA-B.149 latest edition. ¹Category II venting must include the optional combustion air damper

A	Combustion Air Inlet	6" dia. stub
Ċ	Condensate Drain	3/4" hose
F	Exhaust Vent	6'
	Propane Gas	1" NPT-F
	Natural Gas	1° NPT-F
	Wiring Junction Boxes	inside cabinet
	Pressure Relief Valve	sea list for options
	Božer Return, Victauto® clamp	2" přpe, grooved
el	Bočer Supply, Victautic clamp	2° pipe, grooved
	Anchor Bolt Locations	(4) 1/2' Bolt Holes

V LANGER BANGACTURE	
SCD Hot Water Supply Boder models the	rminate with 21 copper tube, proyed

BOILER CONTROLS	
ASAIE CSD-1 is standard Compties with: GE GAP (IRI) guidelines G/ FM Global 6-4 Section 1.0	AP.4.1.0 and GAP.4.1.3
Main Gas Train with Dual Shut-off	
Integrated Boller Control, NURO Series	
Operation Thermostat, 42*-195°F (6.6*-91*	(C)
High Limit Thermostat, Manual Reset, 100	2-197°F (38°-92°C)
High Exhaust Back Pressure Switch	
LWCO/Flow Switch, Paddle Type (Optiona	I:LWCO, Probe Type)
Combustion Air Proving Switch, Differentia	Pressure Type
Combustion Blower, Variable Speed, 350 \	Vall (SC650-750-850)
8. 950 Watt (SC-1000)	

		1		
A.S.M.E. SECTION IV	SC-650	SC-750	SC-850	SC-1000
DESIGN DATA	SC-650D	SC-7500	SC-8500	SC-10000
Max Pressure		160	PSKG	
Max Akowable Temperature		21	0°F	
Max Operating Temperature		19	4°F	
Heated Wel Surface Area	76.2	76.2	87	87
Flow Rate @ 20 FAT	62	72	82	92
Min Flow Rate @ All Firing Rates (Flow Switch Setting)	25	25	30	30

MODEL SELECTION									
Bolers	₩ S	-650	□ SC-750 □ SC-850				□ SC-1000		
Hot Water Supply Boders		D-650	□ SC	D-750	☐ SCD-850		☐ \$CD-1000		
		LFUEL	D DUA	DUAL FUEL DUA		D DUAL FUEL		D DUAL FUEL	
Fuel Options	MANG		DNG	OLP	DNG	□ LP	□NG	[] LP	
Min Intel Gas Pressure					W.C.				
Max Inlet Gas Pressure			14" W.C.				1 100	A 000	
Max Input (BTUffv)	650	,000	750,000		850,000		1,000,000		
Max Output (BTU/fiv)	612	,000	708,000		800,000		923,000		
Boller HP	1	3.3	21.1		23.9		27.5		
Min input (BTU/hr)	125	,000	125,000		141,000		143,000		
Turndown Ratio	5.	2:1	6:1		6:1		1	:1	
Operating & Shipping Weight †	780	los.	780 Rrs.		800 lbs.			lbs.	
Recovery Rate (9ph)	73	4.4	847.2 960			110	07.6		
Boller Water Content	<10 gations								
Shipping Dimensions	84"x36"x57" (LxWxH)								
Parker Supply	120V 1ph 60 Hz								
Operating Current	< 5 Amps < 10 Amps					Amps			
Recommended Minimum				10.	Amps				
Circuit Capacity		dea a And for	of madels	10.	Amps			- 741mmA3	

Shipped Loose for Fleid Installation [30 PSIG 1'x 1'	0-100 psl/30-240°F
50 PSIG 1"x 1-1/4"	0-100 psl/30-240°F
€ 60 PSIG 1"x 1"	0-100 psl/30-240'F
76 PSIG 1'x 1'	0-240 psl/30-240 F
80 PSIG 1"x 1"	0-240 psl/30-240°F
100 PSIG 1'x 1-1/4"	0-240 psl/30-240°F
125 PSIG 1'x 1'	0-240 psl/30-240 F
150 PSK3 1'x 1'	0-240 ps/30-240°F

ECOMMENDED CLE	ARANCE FOR SERVI	CE ACCESS		
	Party Commission of the Commis	A STATE OF THE PARTY OF THE PAR	Left Side - 24*	Right Side - 0*

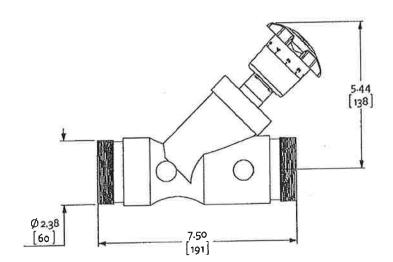
Victaville is a registered trademark of Victavillo Company, Easton PA, USA

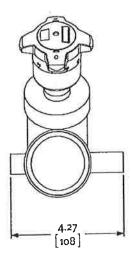
⁻Dual fuel models are not designed to run both fuels simultaneously



⁻Harson Industrial Patterson-Kelley reserves the right to make changes at any time without notification

Front vlew





Not to scale
Units of measure: inches [millimeters]
Tolerance of +/- 0.125 inch (+/- 3 mm) should be used
For certified dimensions, please contact your Armstrong representative



Submittal

Ref. #: 712623.1 rev1

E.2 series dry motor circulator

Model: Series E24.2 cl 120V

Part number: 182212-653

Project name:

JEFFERSON COUNTY HUMAN SERVICES

Representative:

Location: Date submitted:

2/9/2019 12:08:23 PM

Phone number:

Heat & Power Products Inc

Engineer:

e-mall:

Csachs@gohpp.com

Contractor:

Submitted by:

Chuck Sachs

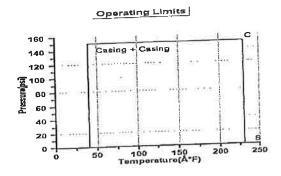
pplication design data		Pipe orientation:	Single
Tag number:	BP-1, BP-2		0 ft
170.00	BOILER CIRCULATORS	Suction pressure:	
Service:		Fluid:	Water:
Location:		Operating temperature:	60 F
Quantity:	2		31 SSU
Duty flow per pump:	64 USgpm	Viscosity:	1.0000
Duty head:	18 ft	Specific gravity:	1,0000
Total dissolved solids:	0 ppm	1	

Materials of constructi	on	Parameters and the second seco	30% Glass-filled Noryl
Construction:	STD125	Impeller:	Permanently lubricated SS
	Not applicable	Bearings:	Felinatiantly lebileates
Rating: Connections:	1.5 In. Dia. 2-Bolt flanges	ľ	

vkleal agail data			OW Orrhido		
Mechanical seal data Manufacturer:	Armstrong	Seal:	Sillcon Carbide		
Seal type:	Bellows-style Silicon Carbide				

Motor electrical data		Insulation class:	Not applicable
Supplier:	Factory Choice	Inverter motor type:	Not applicable
Size:	0.4 hp		Std
Frame number:	Not applicable	Efficiency:	3350 rpm
	ODP -	Speed:	
Enclosure: Motor Electrics:	115/1/60	(4)	

Operating limits (temperature - pressure)

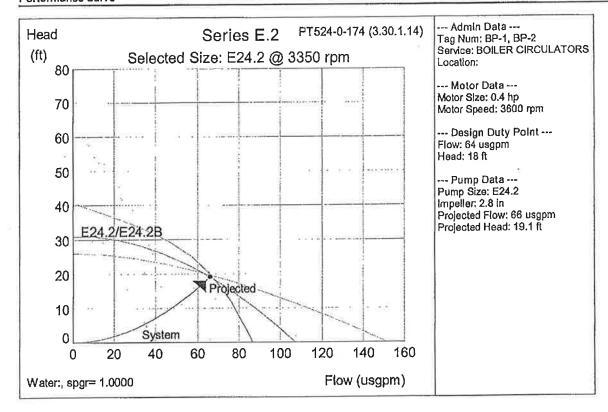


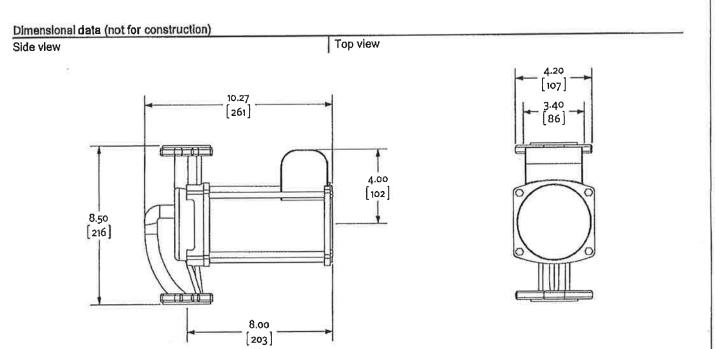
Maximum pressure:

150 psl

Maximum temperature:

230 F





Weight: 23 lb

Not to scale

· Units of measure: Inches [millimeters]

• Tolerance of ± 0.125 Inch (± 3 mm) should be used

• For certified dimensions, please contact your Armstrong representative

* Connection details

					7 7 1
Size	Rating	OD	Boit quantity*	BCD	Bolt size
15	N/A	5	4	3.88	0.5
1.5		5	4	3.88	0,5
	Size 1.5	1.5 N/A	1.5 N/A 5	15 N/A 5 4	1.5 N/A 5 4 3.88

^{*}Equally spaced straddling centreline

Special instructions



Submittal

Ref. #: 712623.1 rev1

Flo-trex valve

Model:

Project name:

Date submitted:

JEFFERSON COUNTY HUMAN SERVICES

Location:

Representative:

Heat & Power Products Inc

2/9/2019 12:08:23 PM

Phone number:

Engineer:

e-mail:

Csachs@gohpp.com

Contractor:

Submitted by:

Chuck Sachs

Application design data

Tag	Qly	Model	Size	Config	Flange rating	Design flowrate	Pressure Drop*	Associated pump
BP-1, BP-2	2	FTV-2TS	2 in	Straight Threaded	None	0.0 USgpm	0.0 psi	

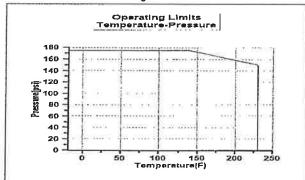
^{*}at design flow

Materials of construction

TV-2TS-Flo-	Trex Valve-Straight Threaded		FTV1.25-2	
Body:	SS 304 A351	Spring:	SS ASTM A-313 TYPE 302-(18-8)	
Disc:	Brass C46500	O rings:	EPDM	
Stem: Brass C46500	Brass C46500	2 metering ports:	Brass Body with EPDM Check and Gasketed Cap	
		2 drain tappings:	1/4" NPT with SS 304 Plug	

Operating limits (temperature - pressure)

FTV-2TS-Flo-Trex Valve-Straight Threaded



Maximum pressure:

175 psl

Maximum temperature:

230 F

Dimensional data (not for construction)

2019 WDC Boiler Replacement Tally

Sc	ope of work	Genera	l Heating	Sun M	echanical	Illingwo	th-Killgust	Richter	1901
	mpliant with RFP ecifications	$\sqrt{}$		$\sqrt{}$		$\sqrt{}$		$\sqrt{}$	$\sqrt{}$
	move boilers, pumps d tripple duty valves	$\sqrt{}$		V		$\sqrt{}$		$\sqrt{}$	$\sqrt{}$
	tall 2 - PK Velox, 50-VX	V		V		V		V	V
and	tall 2 new pumps d 2 new tripple duty ves	1		V		√ √		No tripple duty valves	V
H20	dify gas, venting, O piping as needed installation	√		√		√ √		$\sqrt{}$	√
Pat	ch insulation	$\sqrt{}$						$\sqrt{}$	$\sqrt{}$
	rt up with controls tractor	V		V		V		V	V
	w gas pressure ulator	$\sqrt{}$		Reuse o	ld regulators	V		V	•
Note	es	\$900/boile	er deduct if ot needed	Add \$170 bacnet conneeded	0/boiler if ards are	Cond, Add	ating PK non \$625/boiler if ds are needed	Boilers are bacnet capable from factory	Add \$1,100/boiler for bacnet cards
Estimate Total		\$	46,950.00	\$	40,100.00	\$ credit of 2,2 pump	49,165.00 235.00 Alt.	\$ 52,703.00	\$ 49,280.00
	move boilers, pumps I tripple duty valves	$\sqrt{}$				$\sqrt{}$		$\sqrt{}$	$\sqrt{}$
	all 2 - Lochinvar (725	$\sqrt{}$				V		Install 2 PK H ₁ E ₁	
	all 2 new pumps 2 new tripple duty es	$\sqrt{}$		$\sqrt{}$				$\sqrt{}$	$\sqrt{}$
Mod	inless steel venting dity gas, demo	NA		NA		$\sqrt{}$		NA	NA
vent	ting, new pvc ting, H2O piping as ded per installation	$\sqrt{}$		$\sqrt{}$		No pvc ven	ting	$\sqrt{}$	$\sqrt{}$
Pato	ch insulation	$\sqrt{}$		$\sqrt{}$		$\sqrt{}$		$\sqrt{}$	$\sqrt{}$
	rt up with controls tractor	$\sqrt{}$		$\sqrt{}$		$\sqrt{}$		$\sqrt{}$	V
			er deduct if	Add \$170 bacnet ca			\$625/boiler if	Credit of \$915/boiler if not using	No backnet
Note		bacnet no	t needed	needed		bacnet card	ds are needed	bacnet cards	card needed
	us on energy credit uded	No		No		No		No	No

Committee Meeting Sign-In Sheet

Committee/Board Name:		Date of Meeting:					
Name (Please Print)	City or Township	Person/Firm Representing	Item # or General Comment				
Brian Bill Ford		Jefferson Courty thomas					
		ne produce a service					
	-						