SUBMITTAL DATA SHEET

JOB NAME:		DATE:	
LOCATION:			
ENGINEER:		_	
WHOLESALER:			3 39
CONTRACTOR:		-	
SUBMITTED TO:		-	
MODEL DESIGNATION:	FUEL:	-	

CHECK ONE: REFERENCE (NOT FOR PRODUCTION)

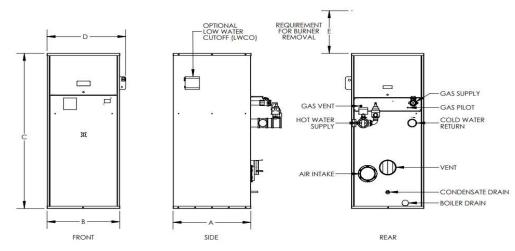
APPROVED (IMMEDIATE PRODUCTION)

APPROVED WITH CHANGES NOTED (IMMEDIATE PRODUCTION)

		RATINGS AI	ND TECHNICAL I	DATA		
INDUT	GROSS	THERMAL	HEATING	WATER	*FUEL	SHIPPING
INFUT	OUPUT	EFFICIENCY	SURFACE	CONTENT	<u>NAT. GAS / LP Gas</u>	WEIGHT
(MBH)	(MBH)	(%)	(SQ/FT)	(GAL.)	MIN / MAX	(LBS)
750	615	82.0%	131	15.9	7"-14" wc	1772
1000	820	82.0%	175	16.4	7"-14" wc	1260
1500	1230	82.0%	264	17.4	7"-14" wc	1402
2000	1640	82.0%	352	18.5	7"-14" wc	1536
	750 1000 1500	INPUT OUPUT (MBH) (MBH) 750 615 1000 820 1500 1230	GROSS THERMAL OUPUT EFFICIENCY (MBH) (MBH) (%) 750 615 82.0% 1000 820 82.0% 1500 1230 82.0%	INPUT GROSS THERMAL HEATING OUPUT EFFICIENCY SURFACE (MBH) (%) (SQ/FT) 750 615 82.0% 131 1000 820 82.0% 175 1500 1230 82.0% 264	INPUT OUPUT EFFICIENCY SURFACE CONTENT (MBH) (MBH) (%) (SQ/FT) (GAL.) 750 615 82.0% 131 15.9 1000 820 82.0% 175 16.4 1500 1230 82.0% 264 17.4	INPUT GROSS THERMAL HEATING WATER *FUEL OUPUT EFFICIENCY SURFACE CONTENT NAT. GAS / LP Gas (MBH) (%) (SQ/FT) (GAL.) MIN / MAX 750 615 82.0% 131 15.9 7"-14" wc 1000 820 82.0% 264 17.4 7"-14" wc

* Please refer to PRODUCT UPDATE issued June 6, 2024. This data supercedes data found on Table 3 of I&O Manual.

DIMENSIONS



	"A"	"B"	"C"	"D"	"E"	VENT / AIF	RINTAKE	GAS	SUPPLY	RETURN
volution EVSW Mode	LENGTH	WIDTH	HEIGHT	WIDTH	BURNER REMOVAL	VENT	AIR INTAKE	GAS	OUTLET	INLET
	(Inches)	(Inches)	(Inches)	(w/ LWCO)		(Inches)	(Inches)	(Inches)	NPT Male	NPT
EVSW-500	30 3/8	28 3/8	71 1/4	31	16	4	4	1	2	2
EVSW-750	30 3/8	28 3/8	60 15/16	31	16	4	6	1	3	3
EVSW-1000	30 3/8	28 3/8	67 3/8	31	16	6	6	11/2	3	3
EVSW-1500	30 3/8	28 3/8	79 7/16	31	19	6	8	1 1/2	3	3
EVSW-2000	30 3/8	28 3/8	91 7/8	31	31	6	8	1 1/2	3	3
EVSW-2000S*	40 1/8	38 1/8	70 1/2	40 3/4	13	6	8	1 1/2	4	4
EVSW-2500*	40 1/8	38 1/8	77 1/2	40 3/4	20	8	8	2	4	4
EVSW-3000*	40 1/8	38 1/8	84 1/2	40 3/4	16.5	8	8	2	4	4

* Features Double Row of Copper Fin Tubes!

SUBMITTAL DATA SHEET

STAND	ARD EQUIPMENT		
PRESSURE VESSEL DESIGN		BOILER EQUIP	MENT
Copper Fin-tube construction	Thermal Solution	s Boiler Control (TS	
Carbon steel or cast iron header design		•	emperature control
Gasketless heat exchanger	Water flow swtic		
ASME Section IV certified "H" stamp			et safety controller
MAWP 160 PSI & max design temp 250°F		nperature sensor	
5-year heat exchanger warranty	Combustion air	•	
20-year thermal shock warranty		nperature gauge	
		e (optional pressures 30	1-150 PSI)
COMBUSTION DESIGN			lable in 1 or 3 phase; See
Maintenance-free ceremic burner	below for details		
Ultr-low NOx emissions (<10ppm)		,	
Whisper quet operation (<50 dBA)		BURNER EQUIP	MENT
Industustrial-grade combustion air filter, 99% efficient	UL/FM/CSD-1 gc		
Industrial cast aluminum blower assembly	Reliable Turndov		
Variable frequency drive	Natural or LP ga		
Electric spark-to-pilot ignition system	•	Pilot gas regulator	
10-year burner warranty	Siemens SKP-75	0 0	
Robust UV-Scanner		5	es with manual reset
VENTING Sealed or room air combustion	Advanced Boile	TSBC Control Key	reditires
Direct vent (sidewall or vertical) (Cat IV)		ement System Inte	rface
Conventional ventinting (Cat II)	Outdoor air tem	,	nace
NOTE: This is NOT a Cat 1 Vent appliance.		emperature moni	toring
	-		loning
	ONAL EQUIPMENT	N 42 alada 750 0000 Oral	
Low gas pressure venturi, allows operation do			
Double block & bleed (DB&B) Gas Train - (1) r	motorized & (1) solenoid v	alve & N.O. vent valve	2
IRI with Proof of Closure Gas Train - (2) motori			
IRI with Proof of Closure Gas Train - (2) motori Honeywell 7800 Series display with ModBus M	ized valves w/ POC & N.C		
Honeywell 7800 Series display with ModBus M	ized valves w/ POC & N.C odule	. vent valve	
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protec	ized valves w/ POC & N.C odule	. vent valve	
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protection Electrical Power Supply:	ized valves w/ POC & N.C odule Ction for the blower's VF	. vent valve D. (<u>Highly recomme</u>	ended .)
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protec Electrical Power Supply:	ized valves w/ POC & N.C odule ction for the blower's VF <u>Y1</u> 208/60	. vent valve D. (<u>Highly recomme</u> /1 2	<u>ended</u> .) 30/60/1
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 120/60/1 (<u>Sizes 500-2000 ONL</u> 208/60/3	ized valves w/ POC & N.C odule Ction for the blower's VF	. vent valve D. (<u>Highly recomme</u> /1 2	ended .)
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protec Electrical Power Supply:	ized valves w/ POC & N.C odule ction for the blower's VF <u>Y1</u> 208/60	. vent valve D. (<u>Highly recomme</u> /1 2	<u>ended</u> .) 30/60/1
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 120/60/1 (<u>Sizes 500-2000 ONL</u> 208/60/3	ized valves w/ POC & N.C odule ction for the blower's VF <u>Y1</u> 208/60	. vent valve D. (<u>Highly recomme</u> /1 2	<u>ended</u> .) 30/60/1
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply:	ized valves w/ POC & N.C odule Ction for the blower's VF <u>Y1</u> 208/60 230/60	. vent valve D. (<u>Highly recomme</u> /1	ended .) 30/60/1 60/60/3
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply:	ized valves w/ POC & N.C odule ction for the blower's VF <u>Y1</u> 208/60 230/60	. vent valve D. (<u>Highly recomme</u> /1 2 /3 2 4 	ended .) 30/60/1 60/60/3
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply:	ized valves w/ POC & N.C odule ction for the blower's VF <u>Y1</u> 208/60 230/60	. vent valve D. (<u>Highly recomme</u> /1 2 /3 2 4 	ended .) 30/60/1 60/60/3
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 120/60/1 (Sizes 500-2000 ONL) 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer:	ized valves w/ POC & N.C odule ction for the blower's VF 208/60 230/60 50 PSI 125 PSI	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI	ended .) 30/60/1 60/60/3
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH	ized valves w/ POC & N.C odule tion for the blower's VF <u>YI</u> 208/60 230/60 50 PSI 125 PSI 125 PSI	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI 150 PSI	ended .) 30/60/1 60/60/3 75 PSI
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump	ized valves w/ POC & N.C odule tion for the blower's VF <u>YI</u> 208/60 230/60 50 PSI 125 PSI 125 PSI	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI 150 PSI	ended .) 30/60/1 60/60/3 75 PSI
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH	ized valves w/ POC & N.C odule tion for the blower's VF <u>YI</u> 208/60 230/60 50 PSI 125 PSI 125 PSI	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI 150 PSI	ended .) 30/60/1 60/60/3 75 PSI
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump	ized valves w/ POC & N.C odule tion for the blower's VF <u>YI</u> 208/60 230/60 50 PSI 125 PSI 125 PSI	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI 150 PSI	ended .) 30/60/1 60/60/3 75 PSI
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 208/60/1 (Sizes 500-2000 ONL 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump Annual Maintenance Kit	ized valves w/ POC & N.C odule ction for the blower's VF 208/40 208/40 230/60 50 PSI 50 PSI 125 PSI 1,200 MBH Flange Kit and Condenso	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI 2,000 MBH te Neutralizer) Sized B	ended .) 30/60/1 60/60/3 75 PSI 5,000 MBH Dassed on a 20°F \triangle T
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 120/60/1 (Sizes 500-2000 ONL 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump Annual Maintenance Kit Supply system temperature sensor ModBus communication for Siemens RWI	ized valves w/ POC & N.C odule tion for the blower's VF 208/60 230/60 50 PSI 50 PSI 125 PSI 1,200 MBH Flange Kit and Condenso	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI 2,000 MBH te Neutralizer) Sized B	ended .) 30/60/1 60/60/3 75 PSI 5,000 MBH Dassed on a 20°F \triangle T
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Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 208/60/3 Safety Relief Valve Options: 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump Annual Maintenance Kit Supply system temperature sensor ModBus communication for Siemens RWI Universal communications gateway (BacNet Local / remote switch	ized valves w/ POC & N.C odule tion for the blower's VF 208/60 230/60 50 PSI 50 PSI 125 PSI 1,200 MBH Flange Kit and Condenso	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI 2,000 MBH te Neutralizer) Sized B	ended .) 30/60/1 60/60/3 75 PSI 5,000 MBH Dassed on a 20°F \triangle T
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 208/60/3 Safety Relief Valve Options: 208/60/3 Safety Relief Valve Options: 100 PSI Outdoor Air Sensor Condensate neutralizer: Condensate neutralizer: BS0 MBH Hydronic Kit (Boiler Circulation Pump, Pump Annual Maintenance Kit Supply system temperature sensor ModBus communication for Siemens RWI Universal communications gateway (BacNet Local / remote switch Alarm bell with silencing switch	ized valves w/ POC & N.C odule ction for the blower's VF y1 200/60 50 PSI 125 PSI 1,200 MBH Flange Kit and Condensc F55 and Honeywell Flar MS/TP, BacNet/IP, LonWo	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI 2,000 MBH te Neutralizer) Sized B	ended .) 30/60/1 60/60/3 75 PSI 5,000 MBH Dassed on a 20°F \triangle T
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 208/60/3 Safety Relief Valve Options: 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump Annual Maintenance Kit Supply system temperature sensor ModBus communication for Siemens RWI Universal communications gateway (BacNet Local / remote switch	ized valves w/ POC & N.C odule tion for the blower's VF 208/60 230/60 50 PSI 50 PSI 125 PSI 1,200 MBH Flange Kit and Condenso	. vent valve D. (<u>Highly recomme</u> /1 2 /3 4 60 PSI 150 PSI 2,000 MBH te Neutralizer) Sized B	ended .) 30/60/1 60/60/3 75 PSI 5,000 MBH Dassed on a 20°F \triangle T
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Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 120/60/1 (Sizes 500-2000 ONL 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutrolizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump Annual Maintenance Kit Supply system temperature sensor ModBus communication for Siemens RWI Universal communications gateway (BacNet Local / remote switch Alarm bell with silencing switch Relays: General Alarm Conductor Sequencing Panel: (Required f	ized valves w/ POC & N.C odule ction for the blower's VF Y1 208/60 230/60 50 PSI 125 PSI 1,200 MBH Flange Kit and Condenso F55 and Honeywell Flar MS/TP, BacNet/IP, LonWo Boiler Status for multiple EVA boiler applica- helps improve system efficie gle point boiler plant Energy I	. vent valve D. (<u>Highly recomme</u> /1 2 /3 2 60 PSI 150 PSI 2,000 MBH te Neutralizer) Sized t ne Safeguard Contr rks) ations without BMS); Con- re heat output, new and ncy by selecting and m- vlanagement System (E/	ended .) 30/60/1 60/60/3 ☐ 75 PSI ☐ 5.000 MBH based on a 20°F △T rol (Boiler to BMS System) htact Regional Manager with d/or existing boilers (full modulation odulating the right boiler to match MS) interface including Modbus
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 120/60/1 (Sizes 500-2000 ONL 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump Annual Maintenance Kit Supply system temperature sensor ModBus communication for Siemens RWI Universal communications gateway (BacNet Local / remote switch Alarm bell with silencing switch Relays: General Alarm Conductor Sequencing Panel: (Required f Questions.) The Conductor Manages multiple condensing & r or on-offl, and steam or hot water applications. It operating conditions. The Conductor offer a sing TCP/IP, Modbus RTU R\$485, BACnet/IP and BACnet	ized valves w/ POC & N.C odule ction for the blower's VF Y1 208/60 230/60 50 PSI 125 PSI 1,200 MBH Flange Kit and Condenso F55 and Honeywell Flar MS/TP, BacNet/IP, LonWo Boiler Status for multiple EVA boiler applica- helps improve system efficie gle point boiler plant Energy I	. vent valve D. (<u>Highly recomme</u> /1 2 /3 2 60 PSI 150 PSI 2,000 MBH te Neutralizer) Sized t ne Safeguard Contr rks) ations without BMS); Con- re heat output, new and ncy by selecting and m- vlanagement System (E/	ended .) 30/60/1 60/60/3 ☐ 75 PSI ☐ 5.000 MBH based on a 20°F △T rol (Boiler to BMS System) htact Regional Manager with d/or existing boilers (full modulation odulating the right boiler to match MS) interface including Modbus
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 120/60/1 (Sizes 500-2000 ONL 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump Annual Maintenance Kit Supply system temperature sensor ModBus communication for Siemens RWI Universal communications gateway (BacNet Local / remote switch Alarm bell with silencing switch Relays: General Alarm Conductor Sequencing Panel: (Required f Questions.) The Conductor manages multiple condensing & r or on-off), and steam or hot water applications. It operating conditions. The Conductor offers a sing TCP/IP, Modbus RTU RS485, BACnet/IP and BACnet Extended Warranty:	ized valves w/ POC & N.C odule ction for the blower's VF y1 208/60 230/60 50 PSI 125 PSI 125 PSI 1,200 MBH Flange Kit and Condenso F55 and Honeywell Flar MS/TP, BacNet/IP, LonWo Boiler Status for multiple EVA boiler applic helps improve system efficie jle point boiler plant Energy j t MSTP standard. If Lonworks	. vent valve D. (Highly recomme /1 2 /3 2 /3 4 60 PSI 150 PSI 2.000 MBH te Neutralizer) Sized B ne Safeguard Contr rks) ations without BMS); Cor re heat output, new and ncy by selecting and m vanagement System (Er needed, add for the se	ended .) 30/60/1 60/60/3 ☐ 75 PSI ☐ 5,000 MBH based on a 20°F △T rol (Boiler to BMS System) htact Regional Manager with 4/or existing boilers (full modulation odulating the right boiler to match odulating the right boiler to match odulating the right boiler to match solution the right boiler to match solution the right boiler to match solution the right boiler to match
Honeywell 7800 Series display with ModBus M Line Reactor Adds voltage / spike protect Electrical Power Supply: 120/60/1 (Sizes 500-2000 ONL 208/60/3 Safety Relief Valve Options: 30 PSI 100 PSI Outdoor Air Sensor Condensate neutralizer: 850 MBH Hydronic Kit (Boiler Circulation Pump, Pump Annual Maintenance Kit Supply system temperature sensor ModBus communication for Siemens RWI Universal communications gateway (BacNet Local / remote switch Alarm bell with silencing switch Relays: General Alarm Conductor Sequencing Panel: (Required f Questions.) The Conductor Manages multiple condensing & r or on-offl, and steam or hot water applications. It operating conditions. The Conductor offer a sing TCP/IP, Modbus RTU R\$485, BACnet/IP and BACnet	ized valves w/ POC & N.C odule ction for the blower's VF Y1 208/60 230/60 50 PSI 125 PSI 1,200 MBH Flange Kit and Condenso F55 and Honeywell Flar MS/TP, BacNet/IP, LonWo Boiler Status for multiple EVA boiler applica- helps improve system efficie gle point boiler plant Energy I	. vent valve D. (<u>Highly recomme</u> /1 2 /3 2 60 PSI 150 PSI 2,000 MBH te Neutralizer) Sized t ne Safeguard Contr rks) ations without BMS); Con- re heat output, new and ncy by selecting and m- vlanagement System (E/	ended .) 30/60/1 60/60/3 □ 75 PSI □ 5.000 MBH Dased on a 20°F △T rol (Boiler to BMS System) htact Regional Manager with d/or existing boilers (full modulation odulating the right boiler to match MS interface including Modbus sparate Lonworks gateway.

SUBMITTAL DATA SHEET

TCBC CONTROL FEATURES



Flexible, Field Selectable Control

- Remote Setpoint Control
- Factory defaults simplify field programming
- Eleven settings to help control oversizing

Temperature Demand Inputs

- Time of Day Setback Capability

(Enviracom Thermostat must be installed)

Boiler Monitoring and Diagnostic Displays

- Boiler inlet and outlet sensors
- (OPTIONAL) System header sensor
- (OPTIONAL) Outdoor air sensor
- Modulation rate setpoint & modulating percent
- Mixing valve demand percent
- Boiler sequencing messages, alarms, hold & lockout messages
- Event history Up 10 alarm messages & data

Modulation Rate

- Various boiler modulation control options
- Choice of six different control modes
- Adjustable PID for local or remode control

Advanced Availability

- If an optional header sensor fails, TSBC automatically changes to a control mode to allow continued boiler operation

Outdoor Air Reset

- Fine tune the water temp based on outdoor air temp for maximized comfort and fuel savings. <u>Requires optional outdoor air temp sensor.</u>
 - Frost protection enabled with optional outdoor air sensor

Pump Control

- Domestic Hot Water (DHW) Pump

- System Pump
- Alternative Control to Combustion Air Damper or Standby Loss
- Damper
- Pump Overrun for Heat Dissipation
- Pump Exercise
- Pump Rotor Seizing Protection

Peer-to-Peer Network

- Lead-lag sequencing for up to eight (8) boilers.
- Selectable Lead boiler rotation, 8-720 hours
- RJ45 plug in connections between units (Requires splitter)
- Rotation off feature for complex installations

Warm Weather Shutdown (WWSD)

- Boilers used primarily for building heat automatically shutdown when outdoor air temperature is warm.

- Saves energy by preventing boiler, pump and / or system pump from starting

- Requires the optional outdoor air sensor

Other Features

- Domestic Hot Water Priority (DHWP)
- Combustion Air damper Outputs
- Factory configured RS485 Modbus interface for EMS or SCADA available
- Rotation enable and disable
- Low fire only w/external contact closure
- Setpoint adjustable up to 230F for boilers and 200F for water heaters
- Defineable min setpoint to reduce chance of condensing
- 3 pump control capable, Boiler, DHW, System