

Helix VLT
Available in 50 to 299 MBH
Built in Primary/Secondary Piping
95% AFUE



Helix VX
Available in 50 to 200 MBH
95% AFUE



Q90-100 Series IV
Cast Aluminum Gas
Condensing Boiler
90% AFUE



DCB
Available in 125 &
150 MBH
Heating Only or Combi
95% AFUE



H₂O Indirect
Stainless Steel
Indirect Water Heater
Lifetime Warranty



Plymouth Steam Boiler
Cast Iron Gas Boiler
Low Profile, Built-in
Draft Diverter
UP TO 82.7% AFUE



Excelsior EXB
3 Pass Cast Iron Oil Boiler
UP TO 86.5% AFUE



DXL
Cast Iron Gas Boiler
Low Profile, Built-In Draft
Diverter & LWCO
UP TO 83.5% AFUE



**Customer Service
Technical Support**
Phone: 800-325-5479
Fax: 315-724-9319/866-432-7329

Corporate Sales
Phone: 877-386-5475
Fax: 716-366-4670

Literature
literature@ecrinternational.com

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TERMS & CONDITIONS OF SALE - GENERAL TERMS

PRICES & SPECIFICATIONS: All pricing and specifications subject to change without notice. The prices herein supersede all prior quotations.

PAYMENT TERMS: Net 30 Days

ORDERS: Orders will be accepted on the basis of prices in effect at the time the order is received. No order or contract will become an obligation on our part until accepted by the General Sales Department. ECR International shall not be liable for any delay or failure in the delivery or shipment of goods due to any cause or causes beyond its control.

TAXES: Add to the prices and terms quoted any manufacturers' or sales tax payable on the transaction under any effective statute.

SHIPMENT

TRUCK LOADS: \$40,000 Net Order Value - Freight Prepaid. Indirect Water Heaters and Commercial Boiler lines can be added to any residential order for freight purposes.

Authorized Distributors can combine Argo, Airco, Dunkirk, EMI, Olsen, Pennco and Utica and on one purchase order to earn free freight.

Stop off charges of \$150 will apply to stop off locations within 100 miles of final destination. Please call for pricing for stop off special handling for a location further than 100 miles or for special handling pricing for services such as lift gate, unloading assistance, etc.

LESS THAN TRUCKLOAD SHIPMENT: F.O.B. ECR INTERNATIONAL - FACTORY OR WAREHOUSE**ORDER INFORMATION CHECKLIST**

The following information must be included on equipment or parts orders to insure proper shipment & invoicing:

- 1) Purchase Order Number
- 2) Bill To Address
- 3) Ship To Address
- 4) Method of Shipment (i.e. - trailer load, UPS, etc.)
- 5) Requested Ship Date
- 6) Special Instructions (i.e. - "Carrier to call...")
- 7) Pricing
- 8) Product Description (i.e. - Model, Size, Series, etc.)
- 9) Fuel Characteristics (i.e. Oil, Natural Gas, Propane)
- 10) Electrical Characteristics (i.e. - Operating Voltage, Cycles, Phases, etc.)
- 11) Non-Standard Equipment (Indicate "Optional" when substituted for standard equipment at extra cost listed. added to standard equipment).
- 12) Kits or Parts (Orders for kits or parts must indicate equipment size and series).
- 13) Send orders to:

E-Mail: ecrorderentry@ecrinternational.com

Fax: 315-724-9319

- 14) Please note the following Remit To Address:

**ECR International, Inc.
P.O. Box 8000 Department 039
Buffalo, NY 14267**

Continued on Next Page

TERMS & CONDITIONS OF SALE - GENERAL TERMS CONTINUED
U.S. DISTRIBUTOR - RETURN MATERIAL POLICY - EFFECTIVE 8/18/2014

guidelines to help you in the unlikely event that you will need to return merchandise purchased from us. These guidelines have been developed after carefully reviewing common industry practice. We trust that you find them fair and easy to follow.

Prior Approval Required - All returns for exchange, credit, repair service or warranty claim must be approved by ECR and require an RMA number prior to return of the material. A request must be completed via ECR International's online web portal. Please log on to www.ecrcustomerportal.com (hyperlink below) to complete your request for return. If you do not already have access to the customer web portal please contact ECR Customer Service at 1-800-325-5479 to be set-up.

Eligibility - An RMA Request must be received within 60 days from the date of invoice for returns of New & Unused product in original packaging. A restocking fee of 15% will be charged for all new and unused returns that are approved for return. Special Order Products (items not offered as standard in ECR trade price book) are not eligible for return as new and unused product. Request for Warranty Returns must be made within the period covered by the warranty and must fall under the terms and conditions specified in the warranty.

Repair Service - Request for repair or rework of product damaged by customer is classified as Repair Service. Repair Service is billed at \$75.00 per hour for labor and net price for parts used in repair/rework. ECR's Return Material (RM) department will evaluate the items returned for repair service. The customer will receive an estimate for the dollar amount, determined by ECR's RM department, required to complete the repairs requested. A Purchase Order (PO) from the customer for that amount will be required before any work is performed.

RMA Expiration - Once the RMA number is issued, the product must be returned within 90 days of the RMA date, or the RMA will be canceled. Products approved for return that are received after 90 days from the RMA date will not be accepted.

Shipping & Packaging - All returns must have a valid RMA number clearly displayed on the exterior of the package or the package will not be accepted. All returns of new and unused product must be in the original packaging. All returns must be shipped prepaid by the customer unless otherwise directed by ECR as indicated on the RMA Verification. Ship all approved return material to the facility indicated on the approved RMA Request by the date indicated.

Replacement Product - If replacement product is desired it must be indicated on the RMA Request. A PO# is required for the replacement shipment and must be indicated on the RMA Request. All replacement products will be invoiced at the time of shipment. ECR will pay the ground freight for all warranty replacements.

Application of Credit - Credit for returned product will be applied to the customer's account (less restocking fees for New and Unused returns) only after confirmation of receipt by ECR and inspection of the product. Issuance of a credit for a partial return of product does not relieve the customer from the obligation to remit payment for the merchandise not returned in accordance with the payment terms referenced on the customer's invoice(s). Customer will have the option to have any product that is denied for credit returned at their expense.

<http://www.ecrcustomerportal.com>

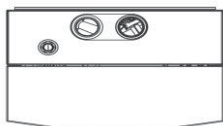
HELIX VLT SERIES

NATURAL OR PROPANE
MODULATING CONDENSING
HOT WATER BOILER

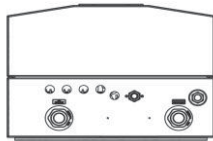
150 psi
MAWP



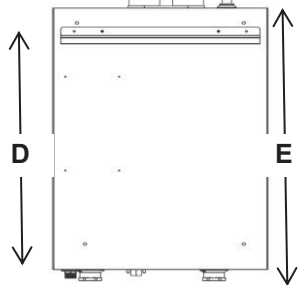
Top



Bottom



Back



All VLT models have an AFUE of 95% and meet the criteria for 2016 Most Efficient.



General Information (See IOM for complete instructions)

Clearances	Combustible Materials (Required) (1)		Service (2)			
	(1) Required distances measured from boiler.	Top	0" (0 cm)	14" (36 cm)		
Left Side		0" (0 cm)	0" (0 cm)			
Right Side		0" (0 cm)	0" (0 cm)			
Front		0" (0 cm)	6" (16 cm)			
Back		0" (0 cm)	0" (0 cm)			
Bottom		0" (0 cm)	12" (32 cm)			
(2) Service, proper operation clearance recommendation.	Combustion Air/Vent Piping		0" (0 cm)	6" (16 cm)		
	Combustion Air & Vent Pipe Equivalent Length					
(Schedule 40 PVC)						
		2" Pipe		3" Pipe		
		50	75/100	75/100	150/200	299
		6 Ft.	6 Ft.	6 Ft.	6 Ft.	6 Ft.
		(1.8 m)	(1.8 m)	(1.8 m)	(1.8 m)	(1.8 m)
		100 Ft.	50 Ft.	100 Ft.	100 Ft.	25 Ft.
		(30.5 m)	(15.2 m)	(30.5 m)	(30.5 m)	(7.7 m)
						299
						(30.5 m)

Dimensions		
Models	050	150
	075	200
	100	*299
Width "A"	20"	23"
	508 mm	584 mm
Height "B"	31"	42"
	787 mm	1067 mm
*Depth "C"	14-3/4"	16"/18.4"
	375 mm	406/467 mm
Bracket "D"	27.7"	38.7"
	704 mm	983 mm
Ht. w/ Piping "E"	32"	43"
	813 mm	1092 mm

Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.			
Connections	Return/Supply Water	Gas In	Cond. Drain
050/075/100	1-1/4" NPT	1/2" NPT	3/4" NPT
150/200/299	1-1/4" NPT	3/4" NPT	3/4" NPT
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)		
Water Content	050/075/100 - 1.1 Gallons, 150/200/299 - 1.8 Gallons		
*299 Dimensions are the same as 150/200 Models except for Depth which is 18.4"/467 mm for the 299 model.			

HELIX VLT SERIES CONTINUED								
(NATURAL GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
DKVLT-50	VLT105003500203	\$3,825	50/10	46	40	95	2"	91/111
DKVLT-75	VLT107503500203	\$3,900	75/15	69	60	95	2" or 3"	91/111
DKVLT-100	VLT110003500203	\$4,080	100/20	91	79	95	2" or 3"	91/111
DKVLT-150	VLT115003500203	\$5,150	150/30	139	121	95	3"	157/182
DKVLT-200	VLT120003500203	\$5,500	200/40	185	161	95	3"	157/182
DKVLT-299	VLT129903500203	\$8,475	299/60	273	239	95	3" or 4"	195/225
(NATURAL GAS - LESS SYSTEM PUMP - HIGH ALTITUDE)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
DKVLT-50	VLT105003502203	\$3,825	50/10	46	40	95	2"	91/111
DKVLT-75	VLT107503502203	\$3,900	75/15	69	60	95	2" or 3"	91/111
DKVLT-100	VLT110003502203	\$4,080	100/20	91	79	95	2" or 3"	91/111
DKVLT-150	VLT115003502203	\$5,150	150/30	139	121	95	3"	157/182
DKVLT-200	VLT120003502203	\$5,500	200/40	185	161	95	3"	157/182
DKVLT-299	VLT129903502203	\$8,475	299/60	273	239	95	3" or 4"	195/225
(NATURAL GAS - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
DKVLT-50	VLT105003510203	\$3,959	50/10	46	40	95	2"	91/111
DKVLT-75	VLT107503510203	\$4,034	75/15	69	60	95	2" or 3"	91/111
DKVLT-100	VLT110003510203	\$4,214	100/20	91	79	95	2" or 3"	91/111
DKVLT-150	VLT115003510203	\$5,284	150/30	139	121	95	3"	157/182
DKVLT-200	VLT120003510203	\$5,634	200/40	185	161	95	3"	157/182

HELIX VLT SERIES CONTINUED								
(NATURAL GAS - WITH TACO SYSTEM PUMP - HIGH ALTITUDE)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
DKVLT-50	VLT105003512203	\$3,959	50/10	46	40	95	2"	91/111
DKVLT-75	VLT107503512203	\$4,034	75/15	69	60	95	2" or 3"	91/111
DKVLT-100	VLT110003512203	\$4,214	100/20	91	79	95	2" or 3"	91/111
DKVLT-150	VLT115003512203	\$5,284	150/30	139	121	95	3"	157/182
DKVLT-200	VLT120003512203	\$5,634	200/40	185	161	95	3"	157/182
(NATURAL GAS - WITH GRUNDFOS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
DKVLT-50	VLT105003520203	\$3,959	50/10	46	40	95	2"	91/111
DKVLT-75	VLT107503520203	\$4,034	75/15	69	60	95	2" or 3"	91/111
DKVLT-100	VLT110003520203	\$4,214	100/20	91	79	95	2" or 3"	91/111
DKVLT-150	VLT115003520203	\$5,284	150/30	139	121	95	3"	157/182
DKVLT-200	VLT120003520203	\$5,634	200/40	185	161	95	3"	157/182
Note: The DKVLT299 is only available less system pump.								
(NATURAL GAS - WITH GRUNDFOS SYSTEM PUMP - HIGH ALTITUDE)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
DKVLT-50	VLT105003522203	\$3,959	50/10	46	40	95	2"	91/111
DKVLT-75	VLT107503522203	\$4,034	75/15	69	60	95	2" or 3"	91/111
DKVLT-100	VLT110003522203	\$4,214	100/20	91	79	95	2" or 3"	91/111
DKVLT-150	VLT115003522203	\$5,284	150/30	139	121	95	3"	157/182
DKVLT-200	VLT120003522203	\$5,634	200/40	185	161	95	3"	157/182
Note: The DKVLT299 is only available less system pump.								

HELIX VLT SERIES CONTINUED		
VLT SERIES - VENTING OPTIONS/ADDITIONAL EQUIPMENT (USE PARTS MULTIPLIER)	PN	TRADE
050 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002303	\$46
075 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002304	\$46
100 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002305	\$46
150 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002306	\$46
200 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002307	\$46
299 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002799	\$48
2" CONCENTRIC VENT KIT	29570	\$218
3" CONCENTRIC VENT KIT	29571	\$218
MULTIPLE BOILER SENSOR KIT	550002186	\$78
FLOOR STAND KIT	240010266	\$587

VLT SERIES - STANDARD EQUIPMENT

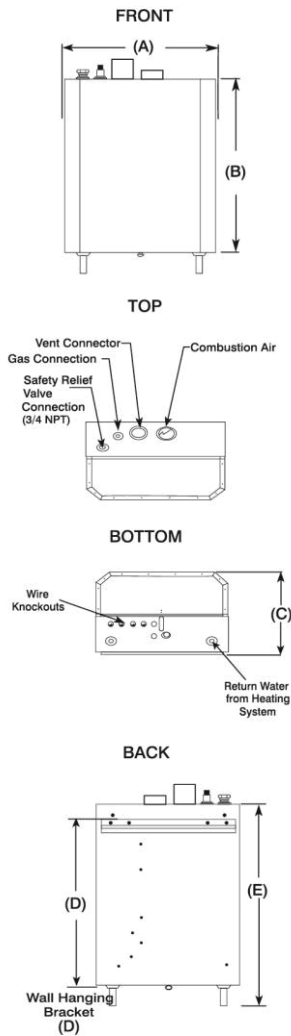
STANDARD EQUIPMENT:

- Wall Mounted: Bracket included.
- Boiler Control Module: Automatic Low Voltage/Intermittent Direct Spark Ignition/Modulating with a 5:1 combustion turn down ratio. For multiple boiler applications - the control module can stage up to 16 boilers.
- User Display interface: Easy programming with text display. Outdoor Temperature Sensor included.
- Heat Exchanger: High grade 316L/444 Stainless Steel Fin Coil with Flame Sight Glass.
- Built-in Primary/Secondary Manifold Piping and Pump.
- Combustion: Gas Valve with Premix Venturi and Blower, Durable Stainless Steel Mesh Modulating Burner with 5:1 turn down ratio, Direct Spark Igniter, Flame Sensor and LP Conversion Kit included.
- Electrical: Low Voltage Terminal Strip, High Voltage Junction Box and Transformer.
- Other: Factory installed probe-type Low Water Cut Off with test feature, 30 PSI Safety Relief Valve, Temperature Pressure Gauge, Boiler Drain Valve and Condensate Drain with built in trap.

VX SERIES

NATURAL OR PROPANE
MODULATING CONDENSING
HOT WATER BOILER

150 psi
MAWP



All VX models have an AFUE of 95% and meet the criteria for 2016 Most Efficient.



General Information (See IOM for complete instructions)

Clearances	Combustible Materials (Required) (1)		Service (2)	
	(1) Required distances measured from boiler jacket.	Top	0" (0 cm)	14" (36 cm)
Left Side		0" (0 cm)	0" (0 cm)	
Right Side		0" (0 cm)	0" (0 cm)	
Front		0" (0 cm)	6" (16 cm)	
Back		0" (0 cm)	0" (0 cm)	
Bottom		0" (0 cm)	12" (32 cm)	
(2) Service, proper operation clearance recommended.	Combustion Air/Vent Piping	0" (0 cm)	6" (16 cm)	
	Hot Wat. Piping	See Local Code	6" (16 cm)	
Combustion Air & Vent Pipe Equiv. Length	(Schedule 40 PVC)			
	2" Pipe		3" Pipe	
	50	75/100	75/100	150/200
Min. Length	6 Ft.	6 Ft.	6 Ft.	6 Ft.
	(1.8 m)	(1.8 m)	(1.8 m)	(1.8 m)
Max. Length	100 Ft.	50 Ft.	100 Ft.	100 Ft.
	(30.5 m)	(15.2 m)	(30.5 m)	(30.5 m)

Dimensions

Models	050		150	
		075	100	200
Width "A"	20"	23"		
	508 mm	584 mm		
Height "B"	27.75"	37.75"		
	705 mm	959 mm		
Depth "C"	14.75"	16.3"		
	375 mm	414 mm		
Bracket "D"	24.41"	35.6"		
	620 mm	904 mm		
Ht. w/Piping "E"	30.75"	40.75"		
	781 mm	104 cm		

Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.

Connections	Return/Supply Water	Gas In	Cond. Drain
050/075/100	3/4" Copper stub	1/2" NPT	3/4" NPT
150/200	1" Copper stub	3/4" NPT	3/4" NPT
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)		
Water Content	050/075/100 - 1.1 Gallons, 150/200 - 1.8 Gallons		

VX SERIES CONTINUED								
(NATURAL GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-50	HVX105003500103	\$3,155	50/10	46	40	95	2"	91/111
VX-75	HVX107503500103	\$3,250	75/15	69	60	95	2"	91/111
VX-100	HVX110003500103	\$3,350	100/20	91	79	95	2"	91/111
VX-150	HVX115003500103	\$4,525	150/30	139	121	95	3"	157/182
VX-200	HVX120003500103	\$4,725	200/40	185	161	95	3"	157/182
(NATURAL GAS - LESS SYSTEM PUMP - HIGH ALTITUDE)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-50	HVX105003502103	\$3,155	50/10	46	40	95	2"	91/111
VX-75	HVX107503502103	\$3,250	75/15	69	60	95	2"	91/111
VX-100	HVX110003502103	\$3,350	100/20	91	79	95	2"	91/111
VX-150	HVX115003502103	\$4,525	150/30	139	121	95	3"	157/182
VX-200	HVX120003502103	\$4,725	200/40	185	161	95	3"	157/182
(NATURAL GAS - TACO PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-50	HVX105003510103	\$3,289	50/10	46	40	95	2"	91/111
VX-75	HVX107503510103	\$3,384	75/15	69	60	95	2"	91/111
VX-100	HVX110003510103	\$3,484	100/20	91	79	95	2"	91/111
VX-150	HVX115003510103	\$4,659	150/30	139	121	95	3"	157/182
VX-200	HVX120003510103	\$4,859	200/40	185	161	95	3"	157/182

VX SERIES CONTINUED								
(NATURAL GAS - TACO PUMP - HIGH ALTITUDE)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-50	HVX105003512103	\$3,289	50/10	46	40	95	2"	91/111
VX-75	HVX107503512103	\$3,384	75/15	69	60	95	2"	91/111
VX-100	HVX110003512103	\$3,484	100/20	91	79	95	2"	91/111
VX-150	HVX115003512103	\$4,659	150/30	139	121	95	3"	157/182
VX-200	HVX120003512103	\$4,859	200/40	185	161	95	3"	157/182
(NATURAL GAS - GRUNDFOS PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-50	HVX105003520103	\$3,289	50/10	46	40	95	2"	91/111
VX-75	HVX107503520103	\$3,384	75/15	69	60	95	2"	91/111
VX-100	HVX110003520103	\$3,484	100/20	91	79	95	2"	91/111
VX-150	HVX115003520103	\$4,659	150/30	139	121	95	3"	157/182
VX-200	HVX120003520103	\$4,859	200/40	185	161	95	3"	157/182
(NATURAL GAS - GRUNDFOS PUMP - HIGH ALTITUDE)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-50	HVX105003522103	\$3,289	50/10	46	40	95	2"	91/111
VX-75	HVX107503522103	\$3,384	75/15	69	60	95	2"	91/111
VX-100	HVX110003522103	\$3,484	100/20	91	79	95	2"	91/111
VX-150	HVX115003522103	\$4,659	150/30	139	121	95	3"	157/182
VX-200	HVX120003522103	\$4,859	200/40	185	161	95	3"	157/182

VX SERIES CONTINUED		
VX SERIES - VENTING OPTIONS/ADDITIONAL EQUIPMENT (USE PARTS MULTIPLIER)	PN	TRADE
050 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002303	\$46
075 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002304	\$46
100 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002305	\$46
150 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002306	\$46
200 NATURAL TO LP AND LP TO NATURAL GAS CONVERSION KIT	550002307	\$46
2" CONCENTRIC VENT KIT	29570	\$218
3" CONCENTRIC VENT KIT	29571	\$218
MULTIPLE BOILER SENSOR KIT	550002186	\$78
FLOOR STAND KIT	240010266	\$587

VX SERIES - STANDARD EQUIPMENT

STANDARD EQUIPMENT:

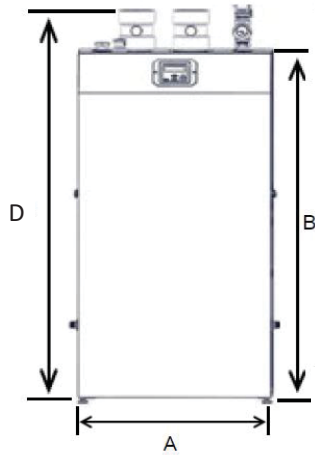
- Wall Mounted: Bracket included.
- Boiler Control Module: Automatic Low Voltage/Intermittent Direct Spark Ignition/Modulating with a 5:1 combustion turn down ratio. For multiple boiler applications - the control module can stage up to 16 boilers.
- User Display interface: Easy programming with text display. Outdoor Temperature Sensor included.
- Heat Exchanger: High grade 316L/444 Stainless Steel Fin Coil with Flame Sight Glass.
- Combustion: Gas Valve with Premix Venturi and Blower, Durable Stainless Steel Mesh Modulating Burner with 5:1 turn down ratio, Direct Spark Igniter, Flame Sensor.
- Electrical: Low Voltage Terminal Strip, High Voltage Junction Box and Transformer.
- Other: 30 PSI Safety Relief Valve, Temperature Pressure Gauge, Boiler Drain Valve and Condensate Drain with built in trap.

VX 399
 NATURAL OR PROPANE
 MODULATING CONDENSING
 HOT WATER BOILER

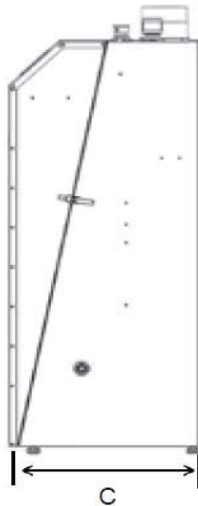
150 psi
 MAWP



Front



Side



The VX 399 model has a Thermal Efficiency of 96%



General Information (See IOM for complete instructions)

Clearances	Combustible Materials (Required) (1)		Service (2)
	1) Required distances measured from boiler jacket.	Top	
Left Side		0" (0 cm)	6" (15 cm)
Right Side		0" (0 cm)	6" (15 cm)
Front		0" (0 cm)	24" (61 cm)
Back		0" (0 cm)	0" (0 cm)
Bottom		0" (0 cm)	0" (0 cm)
(2) Service, proper operation clearance recommended.	Combustion Air/Vent Piping	0" (0 cm)	6" (16 cm)
	Combustion Air & Vent Pipe Equiv. Length	(Schedule 40 PVC)	
		4" Pipe	
Min. Length	6 Ft.		
	(1.8 m)		
Max. Length	100 Ft.		
	(30.5 m)		

Dimensions

Model 399 - Physical Data

Width "A"	27 - 1/8"
	688 mm
Height "B"	52"
	1320 mm
Depth "C"	21 - 1/8"
	537 mm
Ht. w/vent	56 - 1/4"
"D"	1439 mm

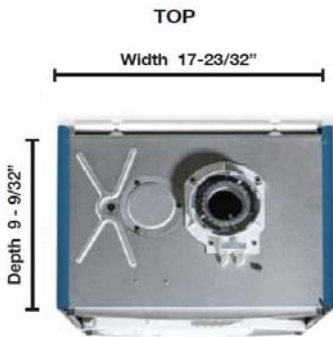
Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.

Connections	Return/Supply Water	Gas In	Cond. Drain
399	1-1/4" FPT	1" FPT	3/4" MPT
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 25 amps (15 amp circuit recommended)		
Water Content	2.2 Gallons		

VX SERIES CONTINUED								
(NATURAL AND LP GAS - LESS PRIMARY PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	THERMAL EFFIC. RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-399	HVX139903500103	\$10,607	399/80	379	329	96	4"	265/290
(NATURAL AND LP GAS - WITH GRUNDFOS PRIMARY PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	THERMAL EFFIC. RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-399	HVX139903520103	\$10,909	399/80	379	329	96	4"	265/290
VX 399 CONTINUED								
VX 399 - VENTING OPTIONS/ADDITIONAL EQUIPMENT (USE PARTS MULTIPLIER)					PN	TRADE		
4" CONCENTRIC VENT KIT					240011223	\$590		
MULTIPLE BOILER SENSOR KIT					550002186	\$78		
MANUAL RESET HIGH LIMIT KIT L4006E1109					550003143	\$166		
VX 399 - STANDARD EQUIPMENT								
<u>STANDARD EQUIPMENT:</u>								
-CSD-1* Control package includes: UL listed LWCO w/Manual Reset, High Temperature limit w/Manual reset. -Boiler Control Module: Automatic Line Voltage/Intermittent Direct Spark Ignition. For multiple boiler applications - the control module can stage up to 16 boilers. -User display interface: Easy programming with text display, Outdoor Temperature Sensor included. -Heat Exchanger: High grade 316L/444 Stainless Steel Fin Coil with Flame Sight Glass. -Combustion: Gas Valve with Premix Venturi and Blower, Durable Stainless Steel Mesh Modulating Burner with 5:1 turndown ratio, Direct Spark Igniter and Flame Sensor. -Electrical: Line Voltage & Low Voltage Terminal Strips, High Voltage Junction Box, Transformer, 3 Pump Relays -Other: 50 PSI Safety Relief Valve, Temperature Pressure Gauge, Boiler Drain Valve and Condensate Drain with built in trap, Leveling Legs.								
*Dunkirk's interpretation of CSD-1 requirements. Consult local code authorities prior to installation.								

DCB/DCC

NATURAL OR PROPANE
 MODULATING 7:1 ON COMBI 5.7:1 ON HEATING ONLY
 SPACE HEATING ONLY BOILER & COMBI UNIT WITH DHW



All DCB models have an AFUE of 95% and meet the criteria for 2016 Most Efficient.



General Information (See IOM for complete instructions)

Clearances	Combustible Materials (Required) (1)		Service (2)
	1) Required distances measured from boiler.	Top	0" (0 cm)
Left Side		1.77" (4.5 cm)	1.77" (4.5 cm)
Right Side		1.77" (4.5 cm)	1.77" (4.5 cm)
Front		1.57" (4.0 cm)	17.70" (45 cm)
Back		0" (0 cm)	0" (0 cm)
Bottom		0" (0 cm)	9.84" (25 cm)
(2) Service, proper operation clearance recomm.	Combustion Air/Vent Piping	0" (0 cm)	N/A













Note: Boiler requires special venting - Use only venting systems that have been approved. Refer to Page 14

Coaxial Venting	2-pipe Polypropylene venting- Boiler Adapter Kit Required	2-pipe CPVC UL1738/ULC S636 Boiler Adapter Kit Required
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Dimensions			DCC & DCB		DCC & DCB		DCC & DCB	
			Feet (Ft)	Meters (m)	Feet (Ft)	Meters (m)	Feet (Ft)	Meters (m)
Models	DCC-150	DCB-125	32.8 Ft.	10 m	196.8 Ft. Combined	60 m	196.8 Ft. Combined	60 m
Width	17-23/32"	17-23/32"			Intake Air can not exceed 49.2 Ft	15 m	Intake Air can not exceed 49.2 Ft	15 m
Height	30"	30"	Connections		Return/Supply Water		Gas In	
Depth	13-19/32"	13-19/32"	DCC-150 & DCB-125		3/4" SWT		3/4" FPT	
			DCC-150 DHW		1/2" SWT			
Weight (lbs)	103	102	Electrical					
			120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)					
			Water Content					
			125/150 - 0.95 Gallons					

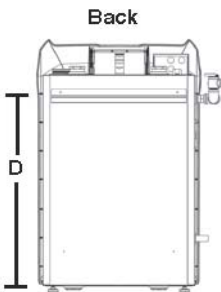
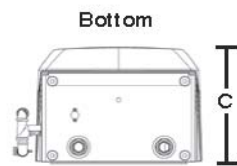
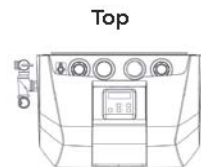
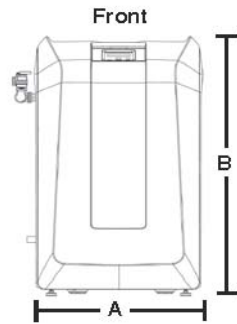
DCB/DCC SERIES CONTINUED*								
(NATURAL AND LP GAS - LESS SYSTEM PUMP, COMBI OR HEATING ONLY)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT RATE (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	VENTING COAXIAL	VENTING 2-PIPE
Space Heating Model								
DCB125	DCB112503600103	\$2,650	126	113	98	95.0	3.93"	3"
Combi Model								
DCC150	DCC115003600103	\$2,830	126	113	98	95.0	3.93"	3"
Central Heating Mode								
Domestic Hot Water Mode			153	136	N/A			
(NATURAL AND LP GAS - WITH TACO SYSTEM PUMP, COMBI OR HEATING ONLY)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT RATE (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	VENTING COAXIAL	VENTING 2-PIPE
Space Heating Model								
DCB125	DCB112503610103	\$2,784	126	113	98	95.0	3.93"	3"
Combi Model								
DCC150	DCC115003610103	\$2,964	126	113	98	95.0	3.93"	3"
Central Heating Mode								
Domestic Hot Water Mode			153	136	N/A			
(NATURAL AND LP GAS - WITH GRUNDFOS SYSTEM PUMP, COMBI OR HEATING ONLY)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT RATE (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	VENTING COAXIAL	VENTING 2-PIPE
Space Heating Model								
DCB125	DCB112503620103	\$2,784	126	113	98	95.0	3.93"	3"
Combi Model								
DCC150	DCC115003620103	\$2,964	126	113	98	95.0	3.93"	3"
Central Heating Mode								
Domestic Hot Water Mode			153	136	N/A			
DCB/DCC - STANDARD EQUIPMENT								
<p>STANDARD EQUIPMENT:</p> <ul style="list-style-type: none"> -Boiler Control Module: High Limit/Electronic Ignition Control. -User Display Interface: Digital Temperature Display with diagnostics and programmable settings. -Heat Exchanger: Stainless Steel -3-Way Water Diverting Valve <p>Combustion: Automatically modulating gas valve with 5.7:1 Turndown for CH & 7:1 for DHW, Stainless Steel Burner, Direct Spark Ignition, Separate Flame Sensor, 100% shutoff.</p> <ul style="list-style-type: none"> -Other: Assembled Boiler with Jacket, Induced Draft Fan, Circulator Pump, 30psi Relief Valve, Low Water Pressure Switch, Air Pressure Switch, Temperature/Pressure Gauge. <p>DCC-150 DHW Model: Domestic Hot Water (DHW) Brazed Plate: Stainless Steel with 3.5 GPM @ 70° F</p>								

* These boilers require Dunkirk vent accessories on Page 17.

(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)			
DCB/DCC VENTING MATERIALS			
COAXIAL VENTING			
VENTING COAXIAL	DESCRIPTION	ITEM	TRADE PRICE
	Coaxial Pipe 3.28' (1m) Long	KUG714059511	\$36
	Coaxial 90 Elbows	KUG714059711	\$26
	Coaxial 45 Elbows	KUG714059811	\$26
	Horizontal Vent Termination	KUG714059611	\$44
	Vertical Vent Termination	KUG714135812	\$104
TWIN PIPE POLYPROPYLENE VENTING			
POLYPROPYLENE VENTING	DESCRIPTION	ITEM	TRADE PRICE
	Boiler Appliance Twin Pipe Adapters For Polypropylene	KHG714059113	\$16
	Polypropylene Pipe 3.28' (1m) Long	KUG714132610	\$15
	Polypropylene 90 Elbows	KUG714132410	\$10
	Polypropylene 45 Elbows	KUG714132310	\$10
	Horizontal Vent Termination	KUG714132010	\$17
	Vertical Vent Termination	KUG714132110	\$43
TWIN PIPE CPVC UL1738 / S636 VENTING ADAPTERS			
	DESCRIPTION	ITEM	TRADE PRICE
	Boiler Appliance Twin Pipe Adapters For 3" CPVC UL1738 / S636	550003184	\$53
OPTIONAL ITEMS			
		PN	TRADE
OUTSIDE AIR SENSOR		BD710487302V	\$32
DHW SENSOR KIT		550003189	\$53
FLOOR STAND KIT		240010266	\$587

ECR97GB SERIES
 NATURAL OR PROPANE
 MODULATING CONDENSING
 HOT WATER BOILER
 FLOOR/WALL MOUNT

150 psi
 MAWP



Floor Mount Capable



General Information (See IOM for complete instructions)

Clearances	Combustible Materials (Required) (1)		Service (2)	
	1) Required distances measured from boiler.	Top	0" (0 cm)	14" (36 cm)
Left Side		6" (16 cm)	6" (16 cm)	
Right Side		0" (0 cm)	1-1/2" (4 cm)	
Front		0" (0 cm)	6" (16 cm)	
Back		0" (0 cm)	0" (0 cm)	
Bottom		0" (0 cm)	12" (32 cm) for Bottom Piped	
(2) Service, proper operation clearance recommended.	Combustion Air/Vent Piping		6" (16 cm)	
	(Schedule 40 PVC)			
Combustion Air & Vent Pipe Equiv. Length	2" Pipe	3" Pipe		
	075/100	075/100		
Min. Length	6 Ft.	6 Ft.		
	(1.8 m)	(1.8 m)		
Max. Length	50 Ft.	100 Ft.		
	(15.2 m)	(30.5 m)		
Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.				
Models	075/100	Return/Supply Water	Gas In	Cond. Drain
		075/100	1-1/4" NPT	1/2" NPT
Electrical		120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)		
Water Content		075/100 - 1.1 Gallons		

Dimensions

Width "A"	22-1/16" (560 mm)
Height "B"	35-5/8" (905 mm)
Depth "C"	16-3/16" (411 mm)
Bracket "D"	27-1/2" (969 mm)

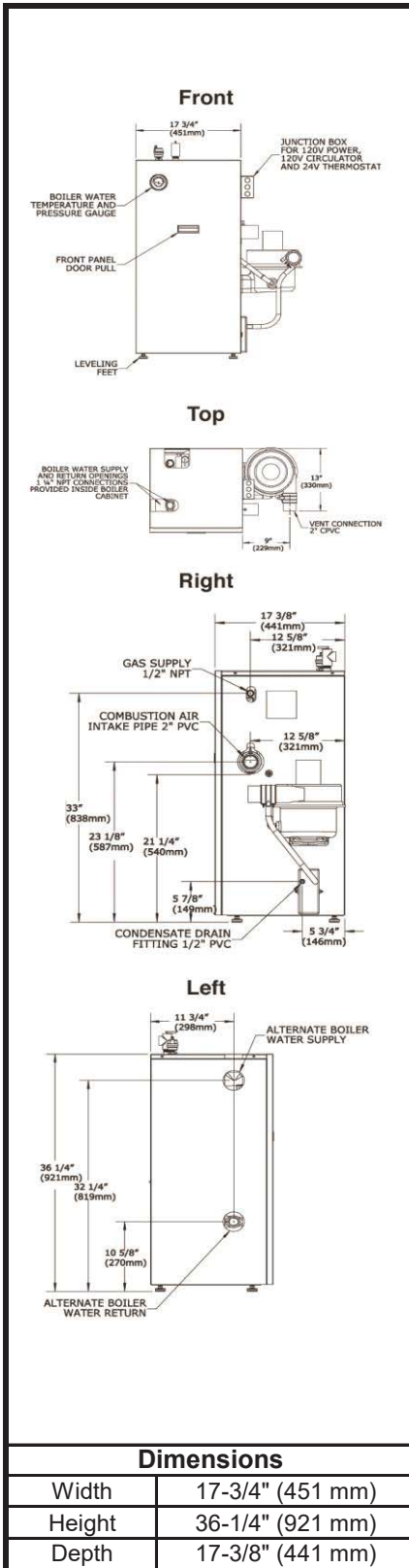
ECR97GB SERIES CONTINUED								
(NATURAL GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
ECR97-075	ECR97A075N000DK	\$3,900	75	15	60	95	2" or 3"	140
ECR97-100	ECR97A100N000DK	\$4,080	100	20	79	95	2" or 3"	140
(NATURAL GAS - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
ECR97-075	ECR97A075N100DK	\$4,034	75	15	60	95	2" or 3"	140
ECR97-100	ECR97A100N100DK	\$4,224	100	20	79	95	2" or 3"	140
(NATURAL GAS - WITH GRUNDFOS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
ECR97-075	ECR97A075N300DK	\$4,034	75	15	60	95	2" or 3"	140
ECR97-100	ECR97A100N300DK	\$4,224	100	20	79	95	2" or 3"	140
ECR97GB SERIES CONTINUED								
ECR97GB SERIES - VENTING OPTIONS/ADDITIONAL EQUIPMENT (USE PARTS MULTIPLIER)						PN	TRADE	
ECR97 075 GAS CONVERSION KIT (NAT. TO LP AND LP TO NAT.)						550002171	\$49	
ECR97 100 GAS CONVERSION KIT (NAT. TO LP AND LP TO NAT.)						550002172	\$34	
2" CONCENTRIC VENT KIT						29570	\$218	
3" CONCENTRIC VENT KIT						29571	\$218	
MULTIPLE BOILER SENSOR KIT						550002186	\$78	
ECR97GB SERIES - STANDARD EQUIPMENT								
STANDARD EQUIPMENT:								
<ul style="list-style-type: none"> - Mounting Floor/Wall: Leveling Legs and Wall Bracket both included. - Boiler Control Module: Automatic Low Voltage/Intermittent Power Reset. Controls up to 16 boilers for multiple boiler applications. - User Display interface: Easy programming with text display. Remote mount option utilizes standard thermostat conductor wiring. - Heat Exchanger: High grade 316L/444 Stainless Steel Fin Coil with Flame Sight Glass. Built-in Primary/Secondary Manifold Piping and Pump. - Combustion: Gas Valve with Premix Venturi and Blower, Durable Stainless Steel Mesh Burner, Direct Spark Igniter, Flame Sensor and LP Conversion Kit included. - Electrical: Detachable Low Voltage Terminal Strip, High Voltage Junction Box, Transformer, Lighted Power Switch and Auxiliary Service Power Outlet. - Other: Low Water Cut Off with test feature, Outdoor Temperature Reset, 30 PSI Safety Relief Valve, Boiler Drain Valve and Condensate Drain with built in trap. 								

Q90-100 SERIES IV

NATURAL OR PROPANE

CONDENSING HOT WATER BOILER

50 psi
MAWP



General Information (See IOM for complete instructions)

Clearances	Combustible Materials (Required) (1)				Service (2)	
	(1) Required distances measured from boiler.	Top		1" (26 mm)	8" (204 mm)	
Left Side		1" (26 mm)	N/A			
Right Side		11" (280 mm)	N/A			
Base		1" (26 mm)	N/A			
Front		1" (26 mm)	24" (610 mm)			
Back		1" (26 mm)	N/A			
(2) Service, proper operation clearance recommendation.	Combustion Air/Vent Piping		0" (0 mm)	N/A		
Combustion Air & Vent Pipe Equivalent Length (Schedule 40 PVC)	Min. Length	2" Pipe	2" Pipe	3" Pipe	3" Pipe	
		050	100	050	100	
	Max. Length	2 Ft.	2 Ft.	20 Ft.	15 Ft.	
		(.61 m)	(.61 m)	(6.09 m)	(4.57 m)	
		26 Ft.	21 Ft.	112 Ft.	92 Ft.	
		(7.92 m)	(6.40 m)	(34.14 m)	(28.04 m)	
Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.						
Connections	Return/Supply Water		Gas In	Condensate Drain		
Dimensions	050/075/100		1-1/4" NPT	1/2" NPT	1/2" CPVC Stub	
Width	17-3/4" (451 mm)		Electrical 120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)			
Height	36-1/4" (921 mm)					
Depth	17-3/8" (441 mm)					
Water Content		050/075/100 - 2.6 Gallons				

Q90-100 SERIES IV CONTINUED								
(NATURAL GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
Q90-50	Q90205003200403	\$3,149	50	45	39	90	2" or 3"	256
Q90-75	Q90207503200403	\$3,149	75	68	59	90	2" or 3"	256
Q90-100	Q90210003200403	\$3,149	100	90	78	90	2" or 3"	256
(NATURAL GAS - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
Q90-50	Q90205003210403	\$3,214	50	45	39	90	2" or 3"	256
Q90-75	Q90207503210403	\$3,214	75	68	59	90	2" or 3"	256
Q90-100	Q90210003210403	\$3,214	100	90	78	90	2" or 3"	256
(NATURAL GAS - WITH GRUNDFOS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
Q90-50	Q90205003220403	\$3,214	50	45	39	90	2" or 3"	256
Q90-75	Q90207503220403	\$3,214	75	68	59	90	2" or 3"	256
Q90-100	Q90210003220403	\$3,214	100	90	78	90	2" or 3"	256
(LP GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
Q90-50	Q90205013200403	\$3,149	50	45	39	90	2" or 3"	256
Q90-75	Q90207513200403	\$3,149	75	68	59	90	2" or 3"	256
Q90-100	Q90210013200403	\$3,149	100	90	78	90	2" or 3"	256
(LP GAS - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
Q90-50	Q90205013210403	\$3,214	50	45	39	90	2" or 3"	256
Q90-75	Q90207513210403	\$3,214	75	68	59	90	2" or 3"	256
Q90-100	Q90210013210403	\$3,214	100	90	78	90	2" or 3"	256
(LP GAS - WITH GRUNDFOS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
Q90-50	Q90205013220403	\$3,214	50	45	39	90	2" or 3"	256
Q90-75	Q90207513220403	\$3,214	75	68	59	90	2" or 3"	256
Q90-100	Q90210013220403	\$3,214	100	90	78	90	2" or 3"	256

Q90-100 SERIES IV CONTINUED		
(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)	PN	TRADE
CONCENTRIC VENT KIT 3"	29571	\$218
CONCENTRIC VENT KIT 2"	29570	\$218
ARGO AMB MULTIPLE BOILER CONTROL (INCLUDES OUTDOOR RESET, PRIORITY OVERRIDE, LEAD BOILER RUN TIME ROTATION):		
AMB4A TO ALLOW STAGE FIRING OF UP TO 4 BOILERS	AMB4AD	\$1,000
AMB8A TO ALLOW STAGE FIRING OF UP TO 8 BOILERS	AMB8AD	\$1,450
CONVERSION KIT NAT. TO LP Q90-50 (Series IV) 0' - 10,000'	550002631	\$75
CONVERSION KIT NAT. TO LP Q90-75 (Series IV) 5,000' - 10,000'	550002629	\$75
CONVERSION KIT NAT. TO LP Q90-75 (Series IV) 0' - 5,000'	550002630	\$75
CONVERSION KIT NAT. TO LP Q90-100 (Series IV) 0' - 10,000'	550002700	\$75
CONVERSION KIT LP TO NAT. Q90-50 (Series IV) 0' - 10,000'	550002635	\$75
CONVERSION KIT LP TO NAT. Q90-75 (Series IV) 0' - 10,000'	550002634	\$75
CONVERSION KIT LP TO NAT. Q90-100 (Series IV) 0' - 10,000'	550002701	\$75
2" CPVC 45° ELBOW (Q90-100 Series)	14631702	\$37
2" CPVC 90° ELBOW (Q90-100 Series)	240009663	\$26
2" CPVC TEE, SCHEDULE 80 (Q90-100 Series)	240006819	\$36
2" CPVC COUPLING (Q90-100 Series)	240006822	\$23
FILL-TROL #110 FOR WATER BOILERS 150 MBH OR LESS	14624002	\$291
FILL-TROL #111 FOR WATER BOILERS OVER 150 MBH	14624003	\$392
Q90-100 SERIES IV - STANDARD EQUIPMENT		
<p><u>STANDARD EQUIPMENT:</u></p> <ul style="list-style-type: none"> - Boiler Control Module: HSI Integrated Boiler Control - Combination Hydrolevel High Limit with LWCO with boiler water temperature reset feature - Heat Exchanger: Cast Aluminum Heat Exchanger - Combustion: Stainless Steel Premix Burner - Induced Draft Blower with adjustable exhaust (front, right side or rear), Inducer Motor Assembly, includes 5' schedule 80 2" CPVC and CPVC Tee - Electrical: Junction Box, Transformer and Wiring Harness - Textured painted steel jacket - Other: Temperature/Pressure Gauge, 30 PSI Safety Relief Valve, Pressure Switch(es), Low Profile Condensate Trap and Air Vent 		

DWB SERIES

NATURAL OR PROPANE (WITH CONVERSION KIT)

MODULATING 3:1

SPACE HEATING ONLY BOILER & COMBI UNIT WITH DHW

(CHIMNEY/SIDEWALL VENTED)



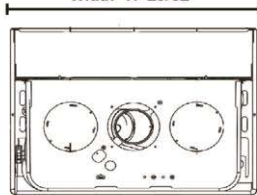
43.5 psi MAWP

**DWB Combi Unit
(CCB-150) Shown**

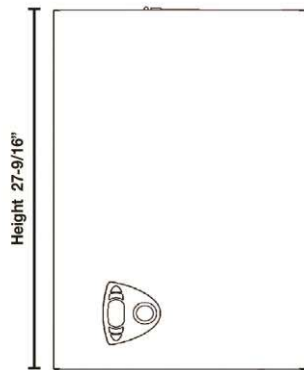
See IOM for dimensions
on other models.

TOP

Width 17-23/32"



FRONT



Height 27-9/16"

SIDE

Depth 13"



General Information (See IOM for complete instructions)

Clearances		Combustible Materials (Required) ⁽¹⁾	Service ^{(1) (2)}
(1) Required distances measured from boiler jacket. (2) Service, proper operation clearance recommendation.	Top	16" (41 cm)	16" (41 cm)
	Left Side	0" (0 cm)	1" (3 cm)
	Right Side	0" (0 cm)	1" (3 cm)
	Front	0" (0 cm)	1" (3 cm)
	Back	0" (0 cm)	0" (0 cm)
	Bottom	0" (0 cm)	12" (30 cm)
	Combustion Air/Vent Piping	0" (0 cm)	3/8" (1 cm)
	Vent Piping	6" (15 cm)	6" (15 cm)

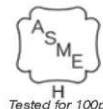
Connections	
CCB-150	Return/Supply Water 1", Gas In 3/4" NPT, Domestic Hot Water Inlet/Outlet 3/4" NPT
CHB-100, CHB-130 & CHB-150	Return/Supply Water 1", Gas In 3/4" NPT, Indirect Tank 3/4" NPT
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)
Water Content	CCB-150/CHB-150 - .396 Gallons, CHB-130 - .317 Gallons, CHB-100 - .211 Gallons

Dimensions			
Model	Width	Height	Depth
CCB-150/CHB-150	17-23/32"	27-9/16"	13"
CHB-130	15-3/4"	27-9/16"	13"
CHB-100	15-3/4"	27-9/16"	13"

DWB SERIES CONTINUED									
(NATURAL GAS - LESS SYSTEM PUMP, COMBI WITH DOMESTIC HOT WATER)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT RATE (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I (Min. Size)	SIDE-WALL CAT. III	SHIP WGT.
CCB150	CCB0150000103	\$2,142	150	127	110	85.0	4"	3"	78
(NATURAL GAS - LESS SYSTEM PUMP, SPACE HEATING ONLY)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT RATE (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I (Min. Size)	SIDE-WALL CAT. III	SHIP WGT.
CHB100	CHB0100000103	\$1,658	100	85	73	85.0	4"	3"	65
CHB130	CHB0130000103	\$1,839	130	110	96	85.0	4"	3"	69
CHB150	CHB0150000103	\$1,945	150	130	110	85.0	4"	3"	73
(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)						PN	TRADE		
NATURAL TO LP CONVERSION KIT (CCB150 & CHB150)						FE3980C150	\$20		
NATURAL TO LP CONVERSION KIT (CHB130)						FE3980B950	\$18		
NATURAL TO LP CONVERSION KIT (CHB100)						FE3980C300	\$14		
DIRECT VENT KIT						5612601	\$142		
OUTSIDE AIR SENSOR						FE013018X0	\$26		
DHW SENSOR KIT						550002958	\$53		
FLOOR STAND KIT						240010266	\$587		
DWB SERIES - STANDARD EQUIPMENT									
<u>STANDARD EQUIPMENT:</u>									
-Boiler Control Module: High Limit/Electronic Ignitional Control. -User Display Interface: Digital Temperature Display with diagnostics and programmable settings. -Heat Exchanger: Copper Fin Tube. (CCB-150 combination boiler includes a stainless steel brazed plate heat exchanger - 3.6 gpm at 70°F Temperature Rise, 6.3 gpm at 40°F Temperature Rise) Valve: 3-Way Water Diverting Valve -Combustion: Completely Installed and Wired Modulating Gas Control System (100% to 33%) with Stainless Steel Burners and Manifold consisting of: Automatic Modulating Gas Valve, Direct Spark Ignition Control, 100% Shut Off, Combination Spark Electrode/Flame Sensor. -Safety: Pressure Switch (vent safety shutoff). -Other: Assembled Boiler with Jacket, Induced Draft Fan, Combination Temperature/ Pressure Gauge, Circulator Pump. Gas Shut Off Valve and Field installed - 30lb. ASME Relief Valve.									

DXL SERIES

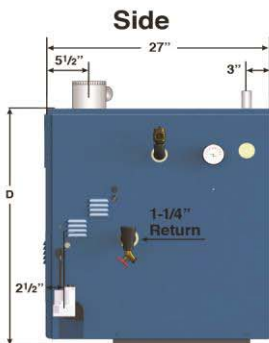
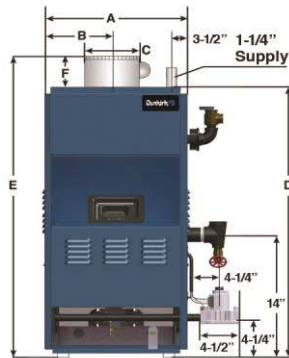
NATURAL OR PROPANE
HOT WATER BOILER
CHIMNEY VENTED
(ENCLOSED CONTROLS)



Tested for 100psi
ASME Working Pressure



Front



Note: For sizes greater than 200 MBH, utilize WPSB Boilers.

General Information (See IOM for complete instructions)

Clearances		Combustible Materials (Required) (1)
		18" (457 mm)
(1) Required distances measured from boiler.	Top	18" (457 mm)
	Front	Alcove*
	Flue Connector	6" (152 mm)
	Rear	4" (102 mm)
	Right Side	9" (229 mm)
	Other Side	3" (76 mm)

*Definition of Alcove is three sided space with no wall in front of boiler. ANSI standard for alcove is 18 inches from appliance to leading edge of side walls as shown in IOM.

Connections	Return/Supply Water	Gas In 050/075/100/125/150	Gas In 170/200
All Models	1-1/4" NPT	1/2" NPT	3/4" NPT
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)		
Water Content	50 - 2.4 Gallons, 75/100 - 4.0 Gallons, 125/150 - 5.6 Gallons, 170/200 - 7.2 Gallons		

Dimensions

Model	A	B	C	D	E	F
DXL-50	11-1/8"	5-1/2"	4"	30-3/4"	36-3/4"	6"
DXL-75	15"	7-1/2"	5"	30-3/4"	36-3/4"	6"
DXL-100	15"	7-1/2"	6"	30-3/4"	37-1/4"	6-1/2"
DXL-125	18-7/8"	9-1/2"	6"	30-3/4"	37-1/4"	6-1/2"
DXL-150	18-7/8"	9-1/2"	7"	30-3/4"	37-3/4"	7"
DXL-170	22-3/4"	11-1/2"	7"	30-3/4"	38-3/4"	7"
DXL-200	22-3/4"	11-1/2"	8"	30-3/4"	38-3/4"	8"

DXL SERIES CONTINUED								
(NATURAL GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205003200203	\$1,926	50	42	37	83.5	4"	205
DXL-75	DXL307503200203	\$2,163	75	63	55	83.1	5"	253
DXL-100	DXL310003200203	\$2,264	100	83	72	83.0	6"	253
DXL-125	DXL412503200203	\$2,460	125	104	90	82.0	6"	315
DXL-150	DXL415003200203	\$2,561	150	124	108	83.0	7"	315
DXL-170	DXL517003200203	\$3,019	170	139	121	82.0	7"	377
DXL-200	DXL520003200203	\$3,202	200	165	143	82.0	8"	377
(NATURAL GAS - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205003210203	\$1,997	50	42	37	83.5	4"	205
DXL-75	DXL307503210203	\$2,234	75	63	55	83.1	5"	253
DXL-100	DXL310003210203	\$2,335	100	83	72	83.0	6"	253
DXL-125	DXL412503210203	\$2,531	125	104	90	82.0	6"	315
DXL-150	DXL415003210203	\$2,632	150	124	108	83.0	7"	315
DXL-170	DXL517003210203	\$3,090	170	139	121	82.0	7"	377
DXL-200	DXL520003210203	\$3,273	200	165	143	82.0	8"	377
(NATURAL GAS, HIGH ALTITUDE - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205003212203	\$1,997	50	42	37	83.5	4"	205
DXL-75	DXL307503212203	\$2,234	75	63	55	83.1	5"	253
DXL-100	DXL310003212203	\$2,335	100	83	72	83.0	6"	253
DXL-125	DXL412503212203	\$2,531	125	104	90	82.0	6"	315
DXL-150	DXL415003212203	\$2,632	150	124	108	83.0	7"	315
DXL-170	DXL517003212203	\$3,090	170	139	121	82.0	7"	377
DXL-200	DXL520003212203	\$3,273	200	165	143	82.0	8"	377
(NATURAL GAS - WITH GRUNDFOS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205003220203	\$1,997	50	42	37	83.5	4"	205
DXL-75	DXL307503220203	\$2,234	75	63	55	83.1	5"	253
DXL-100	DXL310003220203	\$2,335	100	83	72	83.0	6"	253
DXL-125	DXL412503220203	\$2,531	125	104	90	82.0	6"	315
DXL-150	DXL415003220203	\$2,632	150	124	108	83.0	7"	315
DXL-170	DXL517003220203	\$3,090	170	139	121	82.0	7"	377
DXL-200	DXL520003220203	\$3,273	200	165	143	82.0	8"	377

DXL SERIES CONTINUED								
(NATURAL GAS, HIGH ALTITUDE WITH GRUNDFOS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205003222203	\$1,997	50	42	37	83.5	4"	205
DXL-75	DXL307503222203	\$2,234	75	63	55	83.1	5"	253
DXL-100	DXL310003222203	\$2,335	100	83	72	83.0	6"	253
DXL-125	DXL412503222203	\$2,531	125	104	90	82.0	6"	315
DXL-150	DXL415003222203	\$2,632	150	124	108	83.0	7"	315
DXL-170	DXL517003222203	\$3,090	170	139	121	82.0	7"	377
DXL-200	DXL520003222203	\$3,273	200	165	143	82.0	8"	377
(NATURAL GAS - WITH B & G SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205003230203	\$1,997	50	42	37	83.5	4"	205
DXL-75	DXL307503230203	\$2,234	75	63	55	83.1	5"	253
DXL-100	DXL310003230203	\$2,335	100	83	72	83.0	6"	253
DXL-125	DXL412503230203	\$2,531	125	104	90	82.0	6"	315
DXL-150	DXL415003230203	\$2,632	150	124	108	83.0	7"	315
DXL-170	DXL517003230203	\$3,090	170	139	121	82.0	7"	377
DXL-200	DXL520003230203	\$3,273	200	165	143	82.0	8"	377
(LP GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205013200203	\$1,976	50	42	37	83.5	4"	205
DXL-75	DXL307513200203	\$2,212	75	63	55	83.1	5"	253
DXL-100	DXL310013200203	\$2,313	100	83	72	83.0	6"	253
DXL-125	DXL412513200203	\$2,509	125	104	90	82.0	6"	315
DXL-150	DXL415013200203	\$2,610	150	124	108	83.0	7"	315
DXL-170	DXL517013200203	\$3,068	170	139	121	82.0	7"	377
DXL-200	DXL520013200203	\$3,251	200	165	143	82.0	8"	377
(LP GAS - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205013210203	\$2,046	50	42	37	83.5	4"	205
DXL-75	DXL307513210203	\$2,283	75	63	55	83.1	5"	253
DXL-100	DXL310013210203	\$2,384	100	83	72	83.0	6"	253
DXL-125	DXL412513210203	\$2,580	125	104	90	82.0	6"	315
DXL-150	DXL415013210203	\$2,681	150	124	108	83.0	7"	315
DXL-170	DXL517013210203	\$3,139	170	139	121	82.0	7"	377
DXL-200	DXL520013210203	\$3,322	200	165	143	82.0	8"	377

DXL SERIES CONTINUED								
(LP GAS - WITH GRUNDFOS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205013220203	\$2,046	50	42	37	83.5	4"	205
DXL-75	DXL307513220203	\$2,283	75	63	55	83.1	5"	253
DXL-100	DXL310013220203	\$2,384	100	83	72	83.0	6"	253
DXL-125	DXL412513220203	\$2,580	125	104	90	82.0	6"	315
DXL-150	DXL415013220203	\$2,681	150	124	108	83.0	7"	315
DXL-170	DXL517013220203	\$3,139	170	139	121	82.0	7"	377
DXL-200	DXL520013220203	\$3,322	200	165	143	82.0	8"	377
(LP GAS - WITH B & G SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
DXL-50	DXL205013230203	\$2,046	50	42	37	83.5	4"	205
DXL-75	DXL307513230203	\$2,283	75	63	55	83.1	5"	253
DXL-100	DXL310013230203	\$2,384	100	83	72	83.0	6"	253
DXL-125	DXL412513230203	\$2,580	125	104	90	82.0	6"	315
DXL-150	DXL415013230203	\$2,681	150	124	108	83.0	7"	315
DXL-170	DXL517013230203	\$3,139	170	139	121	82.0	7"	377
DXL-200	DXL520013230203	\$3,322	200	165	143	82.0	8"	377
(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)						PN	TRADE	
COMBUSTIBLE FLOOR PLATE DXL-50						325-2-8.01	\$212	
COMBUSTIBLE FLOOR PLATE DXL-75						325-2-8.02	\$222	
COMBUSTIBLE FLOOR PLATE DXL-100						325-2-8.02	\$222	
COMBUSTIBLE FLOOR PLATE DXL-125						325-2-8.03	\$244	
COMBUSTIBLE FLOOR PLATE DXL-150						325-2-8.03	\$244	
COMBUSTIBLE FLOOR PLATE DXL-170						325-2-8.04	\$244	
COMBUSTIBLE FLOOR PLATE DXL-200						325-2-8.04	\$244	
CONVERSION KIT NAT. TO LP DXL-50						550002663	\$82	
CONVERSION KIT NAT. TO LP DXL-75						550002664	\$82	
CONVERSION KIT NAT. TO LP DXL-100						550002663	\$82	
CONVERSION KIT NAT. TO LP DXL-125						550002665	\$82	
CONVERSION KIT NAT. TO LP DXL-150						550002663	\$82	
CONVERSION KIT NAT. TO LP DXL-170						550002665	\$82	
CONVERSION KIT NAT. TO LP DXL-200						550002663	\$82	
CONVERSION KIT LP TO NAT. DXL-50						5611902	\$100	
CONVERSION KIT LP TO NAT. DXL-75						5611903	\$102	
CONVERSION KIT LP TO NAT. DXL-100						5611904	\$102	
CONVERSION KIT LP TO NAT. DXL-125						5611905	\$104	
CONVERSION KIT LP TO NAT. DXL-150						5611906	\$104	
CONVERSION KIT LP TO NAT. DXL-170						5611905	\$104	
CONVERSION KIT LP TO NAT. DXL-200						5611908	\$106	
FILL-TROL #110 FOR WATER BOILERS 150 MBH OR LESS						14624002	\$291	
FILL-TROL #111 FOR WATER BOILERS OVER 150 MBH						14624003	\$392	

DXL - STANDARD EQUIPMENT

STANDARD EQUIPMENT:

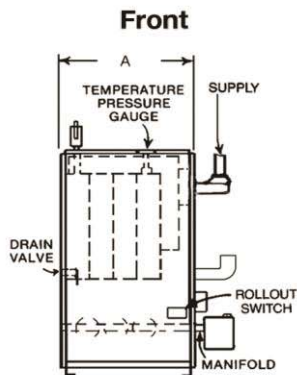
- Boiler Control Module: Recessed Fuel Smart Hydrostat Temperature Limit, LWCO and Boiler Reset Control with Circulator Relay and Domestic Hot Water Input Override.
- User Display Interface: Temperature LED display with dial-type settings and diagnostic indicator lights.
- Heat Exchanger: Cast Iron Sections with Cast Iron Push Nipples.
- Combustion: Completely Installed and Wired Gas Control System with Burners and Manifold consisting of Stainless Steel Burners, Automatic Redundant Combination Gas Valve, 24 Volt Intermittent Pilot Control, Continuous Retry 100% Shut-Off, Combination Pilot Burner/Electrode/Sensor.
- Electrical: 24v Transformer
- Safety: Flame Roll-Out Safety Shut-Off and Manual Reset Blocked Vent Safety Shut-Off.
- Other: Boiler Jacket, Integral Draft Diverter, Combination Temperature/Pressure Gauge, Circulator Pump, 3/4" Drain Valve, 30lb. ASME Relief Valve.

XEB SERIES II

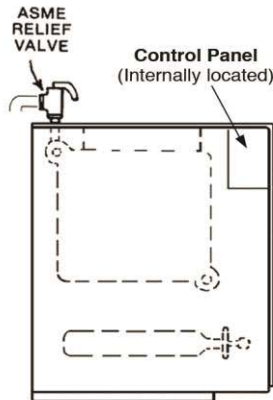
NATURAL OR PROPANE
HOT WATER BOILER
INDUCED DRAFT
(CHIMNEY/SIDEWALL VENTED)



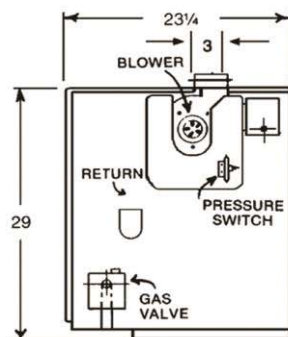
Tested for 50 psi. ASME
Working Pressure



Left Side



Right Side



General Information (See IOM for complete instructions)

Clearances		Combustible Materials (Required) (1)
		(1) Required distances measured from boiler.
	Top	6" (152 mm)
	Rear	6" (152 mm)
	Right Side	8" (203 mm)
	Opposite Side	6" (152 mm)
	Front (Alcove)*	18" (457 mm)
	Flue Connector	6" (152 mm)

*Definition of Alcove is three sided space with no wall in front of boiler. ANSI standard for alcove is 18 inches from appliance to leading edge of side walls as shown in IOM.

Connections	Return/Supply Water	Gas In
All Models	1-1/4" NPT	1/2" NPT
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)	
Water Content	XEB-2 - 1.75 Gallons, XEB-3 - 3.00 Gallons, XEB-4 - 4.25 Gallons, XEB-5 - 5.50 Gallons, XEB-6 - 6.75 Gallons, XEB-7 - 8.00 Gallons	

Dimensions

Model	A "Width"	B "Height"	C "Depth"
XEB-2	11"	29"	23-1/4"
XEB-3	14-1/4"	29"	23-1/4"
XEB-4	17-1/2"	29"	23-1/4"
XEB-5	20-3/4"	29"	23-1/4"
XEB-6	24"	29"	23-1/4"
XEB-7	27-1/4"	29"	23-1/4"

XEB SERIES II CONTINUED									
(NATURAL GAS - LESS SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204203100203	\$2,057	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307503100203	\$2,327	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411203100203	\$2,572	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515003100203	\$2,889	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618703100203	\$3,393	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722503100203	\$3,730	225.0	186	162	82.0	4"	4"	480
(NATURAL GAS - WITH TACO SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204203110203	\$2,128	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307503110203	\$2,398	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411203110203	\$2,643	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515003110203	\$2,960	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618703110203	\$3,469	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722503110203	\$3,801	225.0	186	162	82.0	4"	4"	480
(NATURAL GAS, HIGH ALTITUDE - WITH TACO SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204203112203	\$2,128	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307503112203	\$2,398	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411203112203	\$2,643	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515003112203	\$2,960	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618703112203	\$3,469	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722503112203	\$3,801	225.0	186	162	82.0	4"	4"	480
(NATURAL GAS - WITH GRUNDFOS SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204203120203	\$2,128	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307503120203	\$2,398	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411203120203	\$2,643	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515003120203	\$2,960	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618703120203	\$3,469	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722503120203	\$3,801	225.0	186	162	82.0	4"	4"	480
(NATURAL GAS, HIGH ALTITUDE - WITH GRUNDFOS SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204203122203	\$2,128	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307503122203	\$2,398	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411203122203	\$2,643	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515003122203	\$2,960	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618703122203	\$3,469	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722503122203	\$3,801	225.0	186	162	82.0	4"	4"	480

XEB SERIES II CONTINUED									
(NATURAL GAS - WITH B & G SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204203130203	\$2,128	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307503130203	\$2,398	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411203130203	\$2,643	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515003130203	\$2,960	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618703130203	\$3,469	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722503130203	\$3,801	225.0	186	162	82.0	4"	4"	480
(LP GAS - LESS SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204213100203	\$2,105	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307513100203	\$2,376	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411213100203	\$2,621	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515013100203	\$2,938	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618713100203	\$3,442	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722513100203	\$3,779	225.0	186	162	82.0	4"	4"	480
(LP GAS - WITH TACO SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204213110203	\$2,177	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307513110203	\$2,447	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411213110203	\$2,692	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515013110203	\$3,009	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618713110203	\$3,518	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722513110203	\$3,850	225.0	186	162	82.0	4"	4"	480
(LP GAS - WITH GRUNDFOS SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204213120203	\$2,177	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307513120203	\$2,447	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411213120203	\$2,692	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515013120203	\$3,009	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618713120203	\$3,518	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722513120203	\$3,850	225.0	186	162	82.0	4"	4"	480
(LP GAS - WITH B & G SYSTEM PUMP)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY CAT. I Min. Size	SIDE-WALL CAT. III	SHIP WGT.
XEB-2	XEB204213130203	\$2,177	42.5	36	31	84.4	4"	3"	215
XEB-3	XEB307513130203	\$2,447	75.0	63	55	83.4	4"	3"	265
XEB-4	XEB411213130203	\$2,692	112.5	94	82	83.0	4"	3"	322
XEB-5	XEB515013130203	\$3,009	150.0	125	109	82.7	4"	3"	370
XEB-6	XEB618713130203	\$3,518	187.5	155	135	82.3	4"	4"	431
XEB-7	XEB722513130203	\$3,850	225.0	186	162	82.0	4"	4"	480

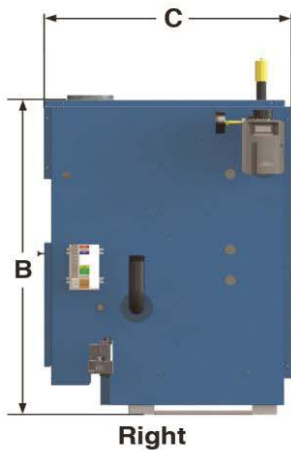
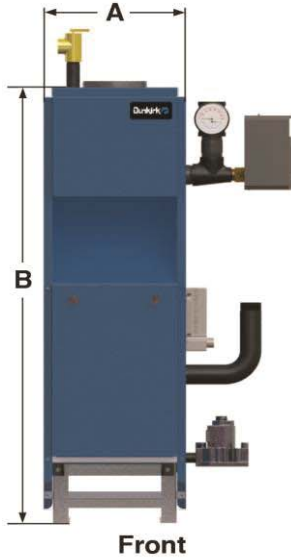
XEB SERIES II CONTINUED		
(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)	PN	TRADE
XEB NATURAL GAS TO LP CONVERSION KIT (ALL SIZES)	550002722	\$82
XEB LP GAS TO NATURAL GAS CONVERSION KIT (ALL SIZES)	43300660	\$90
COMBUSTIBLE FLOOR PLATE FOR ALL CAPACITIES	14614032	\$96
4" THIMBLE (SIMPSON #915295)	14629014	\$40
TJERNLUND VH-1-3" SIDE WALL VENT HOOD (XEB-2 TO XEB-5)	14629010	\$229
TJERNLUND VH-1-3" SIDE WALL VENT HOOD (XEB-6 TO XEB-7)	14629011	\$274
FILL-TROL #110 FOR WATER BOILERS 150 MBH OR LESS	14624002	\$291
FILL-TROL #111 FOR WATER BOILERS OVER 150 MBH	14624003	\$392
XEB (Series II) - STANDARD EQUIPMENT		
<u>STANDARD EQUIPMENT:</u>		
<ul style="list-style-type: none"> - Boiler Control Module: Recessed Honeywell Control (High Limit/Electronic Ignition Control). - User Display Interface: Digital Temperature Display. - Heat Exchanger: Cast Iron Sections with Cast Iron Push Nipples. - Combustion: Completely Installed and Wired Gas Control System with Titanium Composite Burners and Manifold consisting of: Automatic Redundant Combination Gas Valve, 24 Volt Intermittent Pilot Control, Continuous Retry 100% Shut Off, Combination Pilot Burner/Electrode/Flame Sensor. - Electrical: 24 Volt Transformer, Service Switch. - Safety: Flame Roll-Out Safety Shut-Off (Fuse Link) and Pressure Switch (vent safety shutoff) with Spare Fuse Link included. - Other: Assembled Boiler with Insulated Jacket, Induced Draft Fan, Combination Temperature/Pressure Gauge, Circulator Pump, 3/4" Drain Valve, 30lb. ASME Relief Valve. 		

WPSB SERIES II

NATURAL OR PROPANE
HOT WATER BOILER
(INTEGRAL DRAFT DIVERTER)



Tested for 50 psi
ASME Working Pressure



General Information (See IOM for complete instructions)

Clearances		Combustible Materials
		(Required) (1)
(1) Required distances measured from boiler.	Top	6" (152 mm)
	Rear	6" (152 mm)
	Control Side	7" (178 mm)
	Opposite Side	6" (152 mm)
	Front(Alcove)*	18" (457 mm)
	Flue Connector	6" (152 mm)

*Definition of Alcove is three sided space with no wall in front of boiler. ANSI standard for alcove is 18 inches from appliance to leading edge of side walls as shown in IOM.

Connections	Return/Supply Water	Gas In
All Models	1-1/4" NPT	1/2" NPT
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)	
Water Content	WPSB-3 - 6.3 Gallons, WPSB-4 - 8.1 Gallons, WPSB-5 - 9.9 Gallons, WPSB-6 - 11.7 Gallons, WPSB-7 - 13.5 Gallons, WPSB-8 - 15.3 Gallons, WPSB-9 - 17.2 Gallons	

Dimensions (Note: Add 5 1/2" to height for Vent Damper).

Model	A "Width"	B "Height"	C "Depth"
WPSB-3	11-1/4"	36-3/8"	26-1/2"
WPSB-4	14-1/2"	36-3/8"	26-1/2"
WPSB-5	17-3/4"	36-3/8"	26-1/2"
WPSB-6	21"	36-3/8"	26-1/2"
WPSB-7	24-1/4"	36-3/8"	26-1/2"
WPSB-8	27-1/2"	36-3/8"	26-1/2"
WPSB-9	30-3/4"	36-3/8"	26-1/2"

WPSB SERIES II CONTINUED								
(NATURAL GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
WPSB-3D	WPS307503200203	\$2,334	75	63	55	84.0	5"	315
WPSB-4D	WPS411203200203	\$2,589	112.5	94	82	84.0	6"	377
WPSB-5D	WPS515003200203	\$2,857	150	126	110	84.1	6"	453
WPSB-6D	WPS618703200203	\$3,207	187.5	157	137	84.1	7"	534
WPSB-7D	WPS722503200203	\$3,509	225	188	163	84.0	7"	601
WPSB-8D	WPS826203200203	\$3,783	262.5	220	191	83.9	7"	665
WPSB-9D	WPS929903200203	\$4,372	299	251	218	83.7	7"	750
(NATURAL GAS - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
WPSB-3D	WPS307503210203	\$2,405	75	63	55	84.0	5"	315
WPSB-4D	WPS411203210203	\$2,660	112.5	94	82	84.0	6"	377
WPSB-5D	WPS515003210203	\$2,928	150	126	110	84.1	6"	453
WPSB-6D	WPS618703210203	\$3,278	187.5	157	137	84.1	7"	534
WPSB-7D	WPS722503210203	\$3,580	225	188	163	84.0	7"	601
WPSB-8D	WPS826203210203	\$3,854	262.5	220	191	83.9	7"	665
WPSB-9D	WPS929903210203	\$4,443	299	251	218	83.7	7"	750
(NATURAL GAS, HIGH ALTITUDE - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
WPSB-3D	WPS307503212203	\$2,405	75	63	55	84.0	5"	315
WPSB-4D	WPS411203212203	\$2,660	112.5	94	82	84.0	6"	377
WPSB-5D	WPS515003212203	\$2,928	150	126	110	84.1	6"	453
WPSB-6D	WPS618703212203	\$3,278	187.5	157	137	84.1	7"	534
WPSB-7D	WPS722503212203	\$3,580	225	188	163	84.0	7"	601
WPSB-8D	WPS826203212203	\$3,854	262.5	220	191	83.9	7"	665
WPSB-9D	WPS929903212203	\$4,443	299	251	218	83.7	7"	750
(NATURAL GAS - WITH GRUNDFOS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
WPSB-3D	WPS307503220203	\$2,405	75	63	55	84.0	5"	315
WPSB-4D	WPS411203220203	\$2,660	112.5	94	82	84.0	6"	377
WPSB-5D	WPS515003220203	\$2,928	150	126	110	84.1	6"	453
WPSB-6D	WPS618703220203	\$3,278	187.5	157	137	84.1	7"	534
WPSB-7D	WPS722503220203	\$3,580	225	188	163	84.0	7"	601
WPSB-8D	WPS826203220203	\$3,854	262.5	220	191	83.9	7"	665
WPSB-9D	WPS929903220203	\$4,443	299	251	218	83.7	7"	750

WPSB SERIES II SERIES CONTINUED								
(NATURAL GAS - WITH B & G SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
WPSB-3D	WPS307503230203	\$2,405	75	63	55	84.0	5"	315
WPSB-4D	WPS411203230203	\$2,660	112.5	94	82	84.0	6"	377
WPSB-5D	WPS515003230203	\$2,928	150	126	110	84.1	6"	453
WPSB-6D	WPS618703230203	\$3,278	187.5	157	137	84.1	7"	534
WPSB-7D	WPS722503230203	\$3,580	225	188	163	84.0	7"	601
WPSB-8D	WPS826203230203	\$3,854	262.5	220	191	83.9	7"	665
WPSB-9D	WPS929903230203	\$4,443	299	251	218	83.7	7"	750
(LP GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
WPSB-3D	WPS307513200203	\$2,383	70	59	51	84.0	5"	315
WPSB-4D	WPS411213200203	\$2,638	105	88	77	84.0	6"	377
WPSB-5D	WPS515013200203	\$2,906	140	118	103	84.1	6"	453
WPSB-6D	WPS618713200203	\$3,256	175	147	128	84.1	7"	534
WPSB-7D	WPS722513200203	\$3,558	210	176	153	84.0	7"	601
WPSB-8D	WPS826213200203	\$3,832	245	206	179	83.9	7"	665
WPSB-9D	WPS929913200203	\$4,421	280	235	204	83.7	7"	750
(LP GAS - WITH TACO SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
WPSB-3D	WPS307513210203	\$2,454	70	59	51	84.0	5"	315
WPSB-4D	WPS411213210203	\$2,709	105	88	77	84.0	6"	377
WPSB-5D	WPS515013210203	\$2,977	140	118	103	84.1	6"	453
WPSB-6D	WPS618713210203	\$3,327	175	147	128	84.1	7"	534
WPSB-7D	WPS722513210203	\$3,629	210	176	153	84.0	7"	601
WPSB-8D	WPS826213210203	\$3,903	245	206	179	83.9	7"	665
WPSB-9D	WPS929913210203	\$4,492	280	235	204	83.7	7"	750
(LP GAS - WITH GRUNDFOS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
WPSB-3D	WPS307513220203	\$2,454	70	59	51	84.0	5"	315
WPSB-4D	WPS411213220203	\$2,709	105	88	77	84.0	6"	377
WPSB-5D	WPS515013220203	\$2,977	140	118	103	84.1	6"	453
WPSB-6D	WPS618713220203	\$3,327	175	147	128	84.1	7"	534
WPSB-7D	WPS722513220203	\$3,629	210	176	153	84.0	7"	601
WPSB-8D	WPS826213220203	\$3,903	245	206	179	83.9	7"	665
WPSB-9D	WPS929913220203	\$4,492	280	235	204	83.7	7"	750

WPSB SERIES II SERIES CONTINUED								
(LP GAS - WITH B & G SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	SHIP WGT.
WPSB-3D	WPS307513230203	\$2,454	70	59	51	84.0	5"	315
WPSB-4D	WPS411213230203	\$2,709	105	88	77	84.0	6"	377
WPSB-5D	WPS515013230203	\$2,977	140	118	103	84.1	6"	453
WPSB-6D	WPS618713230203	\$3,327	175	147	128	84.1	7"	534
WPSB-7D	WPS722513230203	\$3,629	210	176	153	84.0	7"	601
WPSB-8D	WPS826213230203	\$3,903	245	206	179	83.9	7"	665
WPSB-9D	WPS929913230203	\$4,492	280	235	204	83.7	7"	750
(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)						PN	TRADE	
3 SECTION NATURAL GAS TO LP GAS CONVERSION KIT						43300723	\$50	
4 SECTION NATURAL GAS TO LP GAS CONVERSION KIT						43300724	\$50	
5 SECTION NATURAL GAS TO LP GAS CONVERSION KIT						43300725	\$50	
6 SECTION NATURAL GAS TO LP GAS CONVERSION KIT						43300726	\$59	
7 SECTION NATURAL GAS TO LP GAS CONVERSION KIT						43300727	\$59	
8 SECTION NATURAL GAS TO LP GAS CONVERSION KIT						43300728	\$59	
9 SECTION NATURAL GAS TO LP GAS CONVERSION KIT						43300729	\$59	
4 SECTION LP GAS TO NATURAL GAS CONVERSION KIT						43300632	\$130	
5 SECTION LP GAS TO NATURAL GAS CONVERSION KIT						43300633	\$130	
6 SECTION LP GAS TO NATURAL GAS CONVERSION KIT						43300634	\$130	
7 SECTION LP GAS TO NATURAL GAS CONVERSION KIT						43300635	\$130	
8 SECTION LP GAS TO NATURAL GAS CONVERSION KIT						43300636	\$130	
9 SECTION LP GAS TO NATURAL GAS CONVERSION KIT						43300637	\$155	
COMBUSTIBLE FLOOR PLATE FOR ALL CAPACITIES						14614032	\$96	
FILL-TROL #110 FOR WATER BOILERS 150 MBH OR LESS						14624002	\$291	
FILL-TROL #111 FOR WATER BOILERS OVER 150 MBH						14624003	\$392	

WPSB SERIES II - STANDARD EQUIPMENT

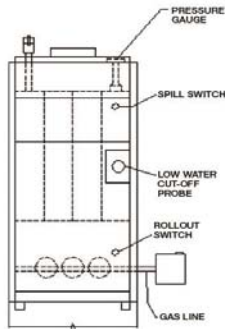
STANDARD EQUIPMENT:

- Boiler Control Module: Fuel Smart Hydrostat Temperature Limit, LWCO and Boiler Reset Control with Circulator Relay and Domestic Hot Water Input Override.
- User Display Interface: Temperature LED Display with dial-type settings and diagnostic indicator lights
- Heat Exchanger: Cast Iron Sections with Cast Iron Push Nipples.
- Combustion: Completely Installed and Wired Gas Control System consisting of: Titanium Composite Burners, Gas Manifold with Orifices, Automatic Redundant Combination Gas Valve, 24 Volt with Pilot Filter and Regulator Intermittent Pilot Control, Continuous Retry 100% Shut Off, Combination Pilot Burner/Electrode/Flame Sensor.
- Safety: Flame Roll-Out Safety Shut-Off (Fuse Link) and Blocked Vent Safety Shut-Off Manual Reset Disc Thermostat (Spill Switch) with Spare Fuse Link included.
- Other: Assembled Boiler with Insulated Jacket, Integral Draft Diverter, Vent Damper, Combination Temperature/Pressure Gauge, Circulator Pump Wired with 5' Harness for Supply or Return Field Mounting, 3/4" Drain Valve, 30lb. ASME Relief Valve.

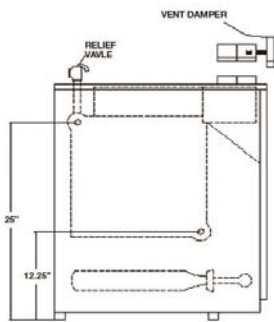
PSB SERIES

NATURAL OR PROPANE
STEAM BOILER

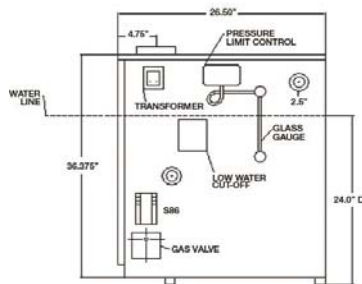
15 psi
MAWP



Front



Left Side



Right Side



General Information (See IOM for complete instructions)

Clearances	Combustible Materials (Required) (1)	
		Top
(1) Required distances measured from boiler.	Rear	6" (152 mm)
	Control Side	7" (178 mm)
	Opposite Side	6" (152 mm)
	Front	*Alcove
	Flue Connector	6" (152 mm)

*Definition of Alcove is three sided space with no wall in front of boiler. ANSI standard for alcove is 18 inches from appliance to leading edge of side walls as shown in IOM.

Connections	Supply	Return
		Two 2-1/2"
Gas In	075/112/150	187/225/262/299
	1/2" NPT	3/4" NPT
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)	

Dimensions	
Model	A "Width"
PSB-3D	11-1/4"
PSB-4D	14-1/2"
PSB-5D	17-3/4"
PSB-6D	21"
PSB-7D	24-1/4"
PSB-8D	27-1/2"
PSB-9D	30-3/4"

PSB SERIES CONTINUED									
(NATURAL GAS)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AHRI NET SQ. FT. STEAM	AFUE RATING %	FLUE DIA.	SHIP WGT.
PSB-3D	353001000	\$2,670	75	62	47	196	82.7	5"	297
PSB-4D	354001000	\$2,916	112	91	68	283	82.0	6"	368
PSB-5D	355001000	\$3,286	150	122	92	383	82.0	6"	440
PSB-6D	356001000	\$3,743	187	153	115	479	82.0	7"	512
PSB-7D	357001000	\$4,128	225	183	137	571	82.0	7"	584
PSB-8D	358001000	\$4,565	262	214	161	671	82.0	7"	659
PSB-9D	359001000	\$4,808	299	245	184	767	82.0	7"	736

(LP GAS)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AHRI NET SQ. FT. STEAM	AFUE RATING %	FLUE DIA.	SHIP WGT.
PSB-3D	353004000	\$2,719	70.0	58	44	183	82.7	5"	297
PSB-4D	354004000	\$2,965	105.0	85	64	267	80.4	6"	368
PSB-5D	355004000	\$3,335	140.0	114	86	358	80.6	6"	440
PSB-6D	356004000	\$3,792	175.0	143	107	446	80.9	7"	512
PSB-7D	357004000	\$4,177	210.0	171	128	533	81.1	7"	584
PSB-8D	358004000	\$4,616	245.0	200	150	625	81.3	7"	659
PSB-9D	359004000	\$4,857	280.0	229	172	717	81.5	7"	736

(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)		PN	TRADE
3 SECTION NATURAL GAS TO LP GAS CONVERSION KIT		43300723	\$50
4 SECTION NATURAL GAS TO LP GAS CONVERSION KIT		43300724	\$50
5 SECTION NATURAL GAS TO LP GAS CONVERSION KIT		43300725	\$50
6 SECTION NATURAL GAS TO LP GAS CONVERSION KIT		43300726	\$59
7 SECTION NATURAL GAS TO LP GAS CONVERSION KIT		43300727	\$59
8 SECTION NATURAL GAS TO LP GAS CONVERSION KIT		43300728	\$59
9 SECTION NATURAL GAS TO LP GAS CONVERSION KIT		43300729	\$59
4 SECTION LP GAS TO NATURAL GAS CONVERSION KIT		43300632	\$130
5 SECTION LP GAS TO NATURAL GAS CONVERSION KIT		43300633	\$130
6 SECTION LP GAS TO NATURAL GAS CONVERSION KIT		43300634	\$130
7 SECTION LP GAS TO NATURAL GAS CONVERSION KIT		43300635	\$130
8 SECTION LP GAS TO NATURAL GAS CONVERSION KIT		43300636	\$130
9 SECTION LP GAS TO NATURAL GAS CONVERSION KIT		43300637	\$155
MCDONNELL & MILLER WF-2U-24 ELECTRONIC WATER FEEDER		1630001	\$465
COMBUSTIBLE FLOOR PLATE FOR ALL CAPACITIES		14614032	\$96

PSB SERIES - STANDARD EQUIPMENT

STANDARD EQUIPMENT:

- Boiler Control Module: Electronic Low Water Cut-Off with 3/4" Probe, Pressure Limit Control, Steam Pressure Gauge and Glass Water Level Gauge.
- Heat Exchanger: Cast Iron Sections with Cast Iron Push Nipples.
- Combustion: Completely installed and wired gas control system consisting of: Titanium Composite Burners, Gas Manifold with Orifices, Automatic Redundant Combination Gas Valve, 24 Volt, with Pilot Filter and Regulator, Intermittent Pilot Control, Continuous Retry 100% Shut-Off; Combination Pilot Burner/Electrode/Flame Sensor and Integral Draft Diverter.
- Electrical: 24 Volt Transformer.
- Safety: Flame Roll-Out Safety Shut-Off Fuse Link (Roll-Out Switch) and Blocked Vent Safety Shut-Off Manual Reset Disc Thermostat (Spill Switch) with Spare Fuse Link included.
- Other: Assembled Boiler with Insulated Jacket, 3/4" Boiler Drain Valve, 15 psi ASME Pop Safety Valve, (2) 2 1/2" Supply Tappings and (2) 2 1/2" Return Tappings (2) 2 1/2" Square Head Pipe Plugs - to plug unused supply and return tappings.

D249 SERIES

GAS FIRED
COMMERCIAL STEAM BOILER



**D249 SERIES STEAM
(STANDARD MODEL)**

BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT BTU (MBH)	THERM. EFF.	OUT-PUT BTU (MBH)	NET AHRI RATINGS			NO. OF SEC.	SHIP WGT.
						STEAM PPF	STEAM SQ. FT.	STEAM BTU (MBH)		
D249300S	CBA030003101103	\$7,872	300	77%	233	1.33	729	175	4	1000
D249400S	CBA040003101103	\$8,857	400	77%	310	1.33	971	233	5	1200
D249500S	CBA050003101103	\$9,846	500	77%	388	1.33	1213	291	6	1400
D249600S	CBA060003101103	\$12,804	600	77%	465	1.33	1454	349	7	1600
D249700S	CBA070003101103	\$13,792	700	77%	543	1.33	1696	407	8	1800
D249800S	CBA080003101103	\$14,818	800	77%	620	1.33	1938	465	9	2000
D249900S	CBA090003101103	\$15,902	900	77%	698	1.33	2183	524	10	2200
D2491000S	CBA100003101103	\$16,886	1000	77%	775	1.33	2421	581	11	2400
D2491100S	CBA110003101103	\$19,923	1100	77%	853	1.33	2667	640	12	2600
D2491200S	CBA120003101103	\$20,909	1200	77%	930	1.33	2908	698	13	2900
D2491300S	CBA130003101103	\$22,471	1300	77%	1008	1.33	3150	756	14	3100
D2491400S	CBA140003101103	\$23,461	1400	77%	1085	1.33	3392	814	15	3300
D2491500S	CBA150003101103	\$24,471	1500	77%	1163	1.33	3633	872	16	3500

(CSD-1 GRAVITY RETURN SYSTEM)

BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT BTU (MBH)	THERM. EFF.	OUT-PUT BTU (MBH)	NET AHRI RATINGS			NO. OF SEC.	SHIP WGT.
						STEAM PPF	STEAM SQ. FT.	STEAM BTU (MBH)		
D249300S	CBA030003103103	\$8,788	300	77%	233	1.33	729	175	4	1000
D249400S	CBA040003103103	\$9,773	400	77%	310	1.33	971	233	5	1200
D249500S	CBA050003103103	\$10,762	500	77%	388	1.33	1213	291	6	1400
D249600S	CBA060003103103	\$14,757	600	77%	465	1.33	1454	349	7	1600
D249700S	CBA070003103103	\$15,764	700	77%	543	1.33	1696	407	8	1800
D249800S	CBA080003103103	\$16,789	800	77%	620	1.33	1938	465	9	2000
D249900S	CBA090003103103	\$17,873	900	77%	698	1.33	2183	524	10	2200
D2491000S	CBA100003103103	\$18,859	1000	77%	775	1.33	2421	581	11	2400
D2491100S	CBA110003103103	\$22,288	1100	77%	853	1.33	2667	640	12	2600
D2491200S	CBA120003103103	\$23,275	1200	77%	930	1.33	2908	698	13	2900
D2491300S	CBA130003103103	\$24,836	1300	77%	1008	1.33	3150	756	14	3100
D2491400S	CBA140003103103	\$25,826	1400	77%	1085	1.33	3392	814	15	3300
D2491500S	CBA150003103103	\$26,836	1500	77%	1163	1.33	3633	872	16	3500

D249 SERIES STEAM CONTINUED										
(CSD-1 BOILER FEED PUMP RETURN CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT BTU (MBH)	THERM. EFF.	OUT-PUT (MBH)	NET AHRI RATINGS			NO. OF SEC.	SHIP WGT.
						STEAM PPF	STEAM SQ. FT.	STEAM BTU (MBH)		
D249300S	CBA030003104103	\$9,729	300	77%	233	1.33	729	175	4	1000
D249400S	CBA040003104103	\$10,713	400	77%	310	1.33	971	233	5	1200
D249500S	CBA050003104103	\$11,702	500	77%	388	1.33	1213	291	6	1400
D249600S	CBA060003104103	\$15,698	600	77%	465	1.33	1454	349	7	1600
D249700S	CBA070003104103	\$16,705	700	77%	543	1.33	1696	407	8	1800
D249800S	CBA080003104103	\$17,730	800	77%	620	1.33	1938	465	9	2000
D249900S	CBA090003104103	\$18,814	900	77%	698	1.33	2183	524	10	2200
D2491000S	CBA100003104103	\$19,798	1000	77%	775	1.33	2421	581	11	2400
D2491100S	CBA110003104103	\$23,228	1100	77%	853	1.33	2667	640	12	2600
D2491200S	CBA120003104103	\$24,215	1200	77%	930	1.33	2908	698	13	2900
D2491300S	CBA130003104103	\$25,776	1300	77%	1008	1.33	3150	756	14	3100
D2491400S	CBA140003104103	\$26,767	1400	77%	1085	1.33	3392	814	15	3300
D2491500S	CBA150003104103	\$27,777	1500	77%	1163	1.33	3633	872	16	3500

FOR ORDERING KNOCK DOWN OR ALA CARTE**D249-COMPONENTS & OPTIONAL EQUIP.**

	PN	TRADE
CAST IRON SECTIONS - RIGHT END (179 LBS.)	41154050D	\$885
CAST IRON SECTIONS - LEFT END (182 LBS.)	41154051D	\$885
CAST IRON SECTIONS - INTERMEDIATE (165 LBS.)	41154052D	\$772
COMPONENT CARTON - 300	550002861D	\$2,354
COMPONENT CARTON - 400	550002862D	\$2,493
COMPONENT CARTON - 500	550002863D	\$2,616
COMPONENT CARTON - 300 CSD-1	550002890D	\$2,748
COMPONENT CARTON - 400 CSD-1	550002891D	\$2,887
COMPONENT CARTON - 500 CSD-1	550002892D	\$3,010
END PANEL CARTON - JACKET	550002871D	\$343
END PANEL CARTON - BASE	550002860D	\$309
STEAM TRIM - SA 1 (SIZES/MODELS: 300 -500)	41200061D	\$1,149
STEAM TRIM - SA 2 (SIZES/MODELS: 600 - 700)	41200062D	\$1,166
STEAM TRIM - SA 3 (SIZES/MODELS: 800 - 1400)	41200063D	\$1,196
STEAM TRIM - SA 4 (SIZES/MODELS: 1500)	41200064D	\$1,209
ACCESSORY CARTON - 300	550002877DS	\$402
ACCESSORY CARTON - 400	550002878DS	\$476
ACCESSORY CARTON - 500	550002867DS	\$570
ACCESSORY CARTON - 600	550002879DS	\$645
ACCESSORY CARTON - 700	550002880DS	\$723
ACCESSORY CARTON - 800	550002881DS	\$838
ACCESSORY CARTON - 900	550002882DS	\$996
ACCESSORY CARTON - 1000	550002868DS	\$1,085
ACCESSORY CARTON - 1100	550002883DS	\$1,240
ACCESSORY CARTON - 1200	550002884DS	\$1,305
ACCESSORY CARTON - 1300	550002885DS	\$1,988
ACCESSORY CARTON - 1400	550002886DS	\$2,067
ACCESSORY CARTON - 1500	550002869DS	\$2,182
CSD-1 STEAM TRIM - GRAVITY/CONDENSATE (ALL SIZES)	41257103D	\$522
CSD-1 STEAM TRIM - FEED PUMP (ALL SIZES)	41257104D	\$1,463
CSD-1 ACCESSORY CARTON - 300	550002893DS	\$402
CSD-1 ACCESSORY CARTON - 400	550002894DS	\$476
CSD-1 ACCESSORY CARTON - 500	550002895DS	\$570
CSD-1 ACCESSORY CARTON - 600	550002896DS	\$1,289
CSD-1 ACCESSORY CARTON - 700	550002897DS	\$1,385
CSD-1 ACCESSORY CARTON - 800	550002898DS	\$1,469
CSD-1 ACCESSORY CARTON - 900	550002899DS	\$1,658

D249-COMPONENTS & OPTIONAL EQUIP. CONTINUED		PN	TRADE
CSD-1 ACCESSORY CARTON - 1000		550002900DS	\$1,747
CSD-1 ACCESSORY CARTON - 1100		550002901DS	\$1,902
CSD-1 ACCESSORY CARTON - 1200		550002902DS	\$1,978
CSD-1 ACCESSORY CARTON - 1300		550002903DS	\$2,660
CSD-1 ACCESSORY CARTON - 1400		550002904DS	\$2,740
CSD-1 ACCESSORY CARTON - 1500		550002905DS	\$2,822

D249 SERIES STEAM CONTINUED			
(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)			
		PN	TRADE
STEAM MANUAL RESET PRESSURE CONTROL (L4079B1033)		14662311	\$266
M-M 47-2 LWCO & FEEDER (MODELS 300-1500)		1280001	\$1,194
STRAP ON OPERATING CONTROL (L6006C-1034)		14662313	\$160
LWCO, MAN RESET, CSD-1 APPROVED, SHT PROBE		240007388	\$212

D249 SERIES STEAM - STANDARD EQUIPMENT

STANDARD EQUIPMENT:

D249 Series Gas Fired Steam Boilers are low pressure, sectional, cast iron boilers manufactured in 15 heating sizes. Input range from 300,000 to 1,500,000 Btuh for use in larger sized residences, schools, churches, and commercial or industrial buildings. These boilers can be used in multiples to supply even larger loads. The D249 Series Boiler is a modular design. Bases, Jackets and Drafhoods are designed in three modular sizes and all boilers are field assembled using a combination of one or more of these three modules. Boiler bases are preassembled at the factory with the gas valve, manifold, burners, and pilot installed. All drafhoods have a cleanout panel to provide easy access to flueways for inspection and cleaning. On-site boiler assembly is quick and easy with preassembled bases and easy section by section assembly procedures. The same assembly techniques are used on all sizes, so assemblers become familiar with the equipment and are able to reduce installation time and cost. Steam boilers are designed for use with a maximum working pressure of 15 psig. STANDARD EQUIPMENT - STEAM: (67 Low Water Cut-Off, PA404A Pressuretrol and Syphon Loop, Water Gauge Glass Set with Glass and Rods, Steam Gauge, Pop Safety Valve).

D249 - COMPONENTS & OPTIONAL EQUIPMENT

CSD-1 CONTROL REQUIREMENTS

The optional CSD-1 controls modify the standard D249 boiler on both the fuel train and the steam trim as follows:

STEAM BOILER WITH BOILER FEED PUMP RETURN SYSTEM

- Add SF-500 Hydrolevel Safeguard Manual Reset L.W.C.O.
- Add 150S-B-MD L.W.C.O. and Pump Control
- Delete 67D-1 L.W.C.O.
- Add L404L Manual Reset Pressure Control

STEAM BOILER WITH GRAVITY OR CONDENSATE PUMP RETURN SYSTEM

- Add SF-500 Hydrolevel Safeguard Manual Reset L.W.C.O.
 - Add L404C Manual Reset Pressure Control
- The SF-500 L.W.C.O. is the secondary L.W.C.O. to the 67D-1 L.W.C.O. furnished standard with the boiler.

FUEL TRAIN

Substitute CSD-1 fuel train(s) for standard which includes (per base): Intermittent Pilot Module (PT#1140007) control Stop w/alarm 1003-612A & (PT#1140008) Control CSD1 Lockout Board BD 1145-2 with manual reset; Independent Pilot Gas Line (Manual shut-off valve, Pressure regulator, Safety shut-off valve); Main Gas Line (Gas Valve, Two leak test cocks, Manual shut-off downstream of the main gas valve).

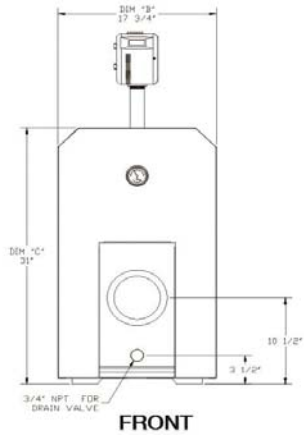
NOTES:

1. The D249300S and D249400S do not require fuel train modifications for CSD-1. The standard fuel train is furnished.
2. **Control equipment is included to meet Dunkirk's interpretation of CSD-1. Consult local authorities before the installation of the boiler. Additional controls, if required can be provided at an additional price.**

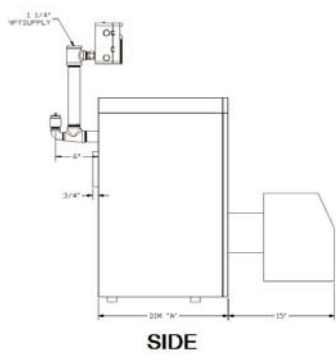
EXCELSIOR EXB SERIES

OIL 3-PASS
WATER BOILER

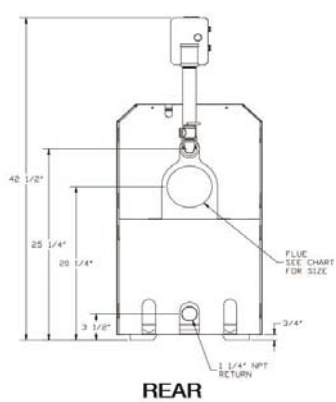
65 psi
MAWP



FRONT



SIDE



REAR



General Information (See IOM for complete instructions)

Clearances		Combustible Materials (Required) (1)	Accessibility, Cleaning & Servicing (2)
		(1) Required distances measured from boiler jacket or flue.	Top
(2) Accessibility, Cleaning & Servicing recommendation.	Right Side	2" (5 cm)	24" (61 cm)
	Left Side	2" (5 cm)	24" (61 cm)
	Floor	Combustible	N/A
	Front	17" (43 cm)	24" (61 cm)
	Back	See Flue	18" (46 cm)
	Flue	9" (23 cm)	9" (23 cm)
Connections	Return/Supply Water		
All Models	1-1/4" NPT		
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)		
Water Content	EXB4 - 3.6 Gallons, EXB5 - 4.3 Gallons, EXB6 - 5.1 Gallons, EXB7 - 5.9 Gallons		
Dimensions			
Model	A "Depth"	B "Width"	"C Height"
EXB4	18-3/8 (46 cm)	17-3/4" (45 cm)	31" (79 cm)
EXB5	21-5/8 (56 cm)	17-3/4" (45 cm)	31" (79 cm)
EXB6	24-7/8 (64 cm)	17-3/4" (45 cm)	31" (79 cm)
EXB7	28-1/8 (72 cm)	17-3/4" (45 cm)	31" (79 cm)

EXCELSIOR EXB SERIES CONTINUED										
(BECKETT BURNER - CHIMNEY VENTED - HYDROLEVEL CONTROL - LESS PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407530200203	\$2,294	4	105	91	79	86.0	8"x 8"x15'	5"	436
EXB4095	EXB409530200203	\$2,294	4	133	114	99	85.0		5"	436
EXB4110	EXB411030200203	\$2,294	4	154	132	115	84.0		5"	436
EXB5100	EXB510030200203	\$2,615	5	140	122	106	86.5		5"	496
EXB5115	EXB511530200203	\$2,615	5	161	139	121	85.0		5"	496
EXB5135	EXB513530200203	\$2,615	5	189	161	140	84.0		5"	496
EXB6130	EXB613030200203	\$2,759	6	182	159	138	86.5		5"	560
EXB6145	EXB614530200203	\$2,759	6	203	176	153	85.0		5"	560
EXB7165	EXB716530200203	\$3,149	7	231	201	175	86.0		6"	620
(BECKETT BURNER - CHIMNEY VENTED - HYDROLEVEL CONTROL - WITH TACO SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407530210203	\$2,365	4	105	91	79	86.0	8"x 8"x15'	5"	436
EXB4095	EXB409530210203	\$2,365	4	133	114	99	85.0		5"	436
EXB4110	EXB411030210203	\$2,365	4	154	132	115	84.0		5"	436
EXB5100	EXB510030210203	\$2,686	5	140	122	106	86.5		5"	496
EXB5115	EXB511530210203	\$2,686	5	161	139	121	85.0		5"	496
EXB5135	EXB513530210203	\$2,686	5	189	161	140	84.0		5"	496
EXB6130	EXB613030210203	\$2,830	6	182	159	138	86.5		5"	560
EXB6145	EXB614530210203	\$2,830	6	203	176	153	85.0		5"	560
EXB7165	EXB716530210203	\$3,220	7	231	201	175	86.0		6"	620
(BECKETT BURNER - CHIMNEY VENTED - HYDROLEVEL CONTROL - WITH GRUNDFOS SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407530220203	\$2,365	4	105	91	79	86.0	8"x 8"x15'	5"	436
EXB4095	EXB409530220203	\$2,365	4	133	114	99	85.0		5"	436
EXB4110	EXB411030220203	\$2,365	4	154	132	115	84.0		5"	436
EXB5100	EXB510030220203	\$2,686	5	140	122	106	86.5		5"	496
EXB5115	EXB511530220203	\$2,686	5	161	139	121	85.0		5"	496
EXB5135	EXB513530220203	\$2,686	5	189	161	140	84.0		5"	496
EXB6130	EXB613030220203	\$2,830	6	182	159	138	86.5		5"	560
EXB6145	EXB614530220203	\$2,830	6	203	176	153	85.0		5"	560
EXB7165	EXB716530220203	\$3,220	7	231	201	175	86.0		6"	620
(LESS BURNER- CHIMNEY VENTED - HYDROLEVEL CONTROL - WITH TACO SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4110	EXB411020210203	\$1,751	4	154	132	115	84.0	8"x 8"x15'	5"	436
EXB5135	EXB513520210203	\$2,040	5	189	161	140	84.0		5"	496
EXB6165	EXB616520210203	\$2,241	6	231	198	172	84.0		5"	560
EXB7190	EXB719020210203	\$2,581	7	266	228	198	84.0		6"	620
(LESS BURNER- CHIMNEY VENTED - HYDROLEVEL CONTROL - WITH GRUNDFOS SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4110	EXB411020220203	\$1,751	4	154	132	115	84.0	8"x 8"x15'	5"	436
EXB5135	EXB513520220203	\$2,040	5	189	161	140	84.0		5"	496
EXB6165	EXB616520220203	\$2,241	6	231	198	172	84.0		5"	560
EXB7190	EXB719020220203	\$2,581	7	266	228	198	84.0		6"	620

EXCELSIOR EXB SERIES CONTINUED										
(LESS BURNER- CHIMENY VENTED - HYDROLEVEL CONTROL - LESS PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4110	EXB411020200203	\$1,680	4	154	132	115	84.0	8"x 8"x15'	5"	436
EXB5135	EXB513520200203	\$1,969	5	189	161	140	84.0		5"	496
EXB6165	EXB616520200203	\$2,170	6	231	198	172	84.0		5"	560
EXB7190	EXB719020200203	\$2,510	7	266	228	198	84.0		6"	620
(BECKETT BURNER - DIRECT VENT - HYDROLEVEL CONTROL - LESS PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407540200203	\$2,412	4	105	91	79	86.0	8"x 8"x15'	5"	436
EXB4095	EXB409540200203	\$2,412	4	133	114	99	85.0		5"	436
EXB5100	EXB510040200203	\$2,732	5	140	122	106	86.5		5"	496
EXB5115	EXB511540200203	\$2,732	5	161	139	121	85.0		5"	496
EXB5135	EXB513540200203	\$2,732	5	189	161	140	84.0		5"	496
EXB6130	EXB613040200203	\$2,878	6	182	159	138	86.5		5"	560
(BECKETT BURNER - DIRECT VENT - HYDROLEVEL CONTROL - WITH TACO SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407540210203	\$2,483	4	105	91	79	86.0	8"x 8"x15'	5"	436
EXB4095	EXB409540210203	\$2,483	4	133	114	99	85.0		5"	436
EXB5100	EXB510040210203	\$2,803	5	140	122	106	86.5		5"	496
EXB5115	EXB511540210203	\$2,803	5	161	139	121	85.0		5"	496
EXB5135	EXB513540210203	\$2,803	5	189	161	140	84.0		5"	496
EXB6130	EXB613040210203	\$2,949	6	182	159	138	86.5		5"	560
(BECKETT BURNER - DIRECT VENT - HYDROLEVEL CONTROL - WITH GRUNDFOS SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407540220203	\$2,483	4	105	91	79	86.0	8"x 8"x15'	5"	436
EXB4095	EXB409540220203	\$2,483	4	133	114	99	85.0		5"	436
EXB5100	EXB510040220203	\$2,803	5	140	122	106	86.5		5"	496
EXB5115	EXB511540220203	\$2,803	5	161	139	121	85.0		5"	496
EXB5135	EXB513540220203	\$2,803	5	189	161	140	84.0		5"	496
EXB6130	EXB613040220203	\$2,949	6	182	159	138	86.5		5"	560
(RIELLO BURNER - CHIMNEY VENTED - LESS PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407550200203	\$2,357	4	105	91	79	86.0	8"x 8"x15'	5"	436
EXB4095	EXB409550200203	\$2,357	4	133	114	99	85.0		5"	436
EXB4110	EXB411050200203	\$2,357	4	154	132	115	84.0		5"	436
EXB5100	EXB510050200203	\$2,720	5	140	122	106	86.5		5"	496
EXB5115	EXB511550200203	\$2,720	5	161	139	121	85.0		5"	496
EXB5135	EXB513550200203	\$2,720	5	189	161	140	84.0		5"	496
EXB6130	EXB613050200203	\$2,862	6	182	159	138	86.5		5"	560
EXB6145	EXB614550200203	\$2,862	6	203	176	153	85.0		5"	560
EXB6165	EXB616550200203	\$3,123	6	231	198	172	84.0		5"	560
EXB7165	EXB716550200203	\$3,200	7	231	201	175	86.0		6"	620
EXB7180	EXB718050200203	\$3,461	7	252	217	189	85.0		6"	620
EXB7190	EXB719050200203	\$3,461	7	266	228	198	84.0		8"x 8"x20'	6"

EXCELSIOR EXB SERIES CONTINUED										
(RIELLO BURNER - CHIMNEY VENTED - WITH TACO SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407550210203	\$2,428	4	105	91	79	86.0	8"x 8"x15'	5"	436
EXB4095	EXB409550210203	\$2,428	4	133	114	99	85.0		5"	436
EXB4110	EXB411050210203	\$2,428	4	154	132	115	84.0		5"	436
EXB5100	EXB510050210203	\$2,791	5	140	122	106	86.5		5"	496
EXB5115	EXB511550210203	\$2,791	5	161	139	121	85.0		5"	496
EXB5135	EXB513550210203	\$2,791	5	189	161	140	84.0		5"	496
EXB6130	EXB613050210203	\$2,933	6	182	159	138	86.5		5"	560
EXB6145	EXB614550210203	\$2,933	6	203	176	153	85.0		5"	560
EXB6165	EXB616550210203	\$3,194	6	231	198	172	84.0		5"	560
EXB7165	EXB716550210203	\$3,272	7	231	201	175	86.0		6"	620
EXB7180	EXB718050210203	\$3,532	7	252	217	189	85.0	6"	620	
EXB7190	EXB719050210203	\$3,532	7	266	228	198	84.0	8"x 8"x20'	6"	620
(RIELLO BURNER - CHIMNEY VENTED - WITH GRUNDFOS SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407550220203	\$2,428	4	105	91	79	86.0	8"x 8"x15'	5"	436
EXB4095	EXB409550220203	\$2,428	4	133	114	99	85.0		5"	436
EXB4110	EXB411050220203	\$2,428	4	154	132	115	84.0		5"	436
EXB5100	EXB510050220203	\$2,791	5	140	122	106	86.5		5"	496
EXB5115	EXB511550220203	\$2,791	5	161	139	121	85.0		5"	496
EXB5135	EXB513550220203	\$2,791	5	189	161	140	84.0		5"	496
EXB6130	EXB613050220203	\$2,933	6	182	159	138	86.5		5"	560
EXB6145	EXB614550220203	\$2,933	6	203	176	153	85.0		5"	560
EXB6165	EXB616550220203	\$3,194	6	231	198	172	84.0		5"	560
EXB7165	EXB716550220203	\$3,272	7	231	201	175	86.0		6"	620
EXB7180	EXB718050220203	\$3,532	7	252	217	189	85.0	6"	620	
EXB7190	EXB719050220203	\$3,532	7	266	228	198	84.0	8"x 8"x20'	6"	620
(RIELLO 40BF BURNER - DIRECT VENT - LESS PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407560200203	\$2,667	4	105	91	79	86.0	8"x 8" x15'	5"	436
EXB4095	EXB409560200203	\$2,667	4	133	114	99	85.0		5"	436
EXB4110	EXB411060200203	\$2,667	4	154	132	115	84.0		5"	436
EXB5100	EXB510060200203	\$3,029	5	140	122	106	86.5		5"	496
EXB5115	EXB511560200203	\$3,029	5	161	139	121	85.0		5"	496
EXB5135	EXB513560220203	\$3,100	5	189	161	140	84.0		5"	496
EXB6130	EXB613060200203	\$3,172	6	182	159	138	86.5		5"	560
(RIELLO BURNER - DIRECT VENT - WITH TACO SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407560210203	\$2,738	4	105	91	79	86.0	8"x 8" x15'	5"	436
EXB4095	EXB409560210203	\$2,738	4	133	114	99	85.0		5"	436
EXB4110	EXB411060210203	\$2,738	4	154	132	115	84.0		5"	436
EXB5100	EXB510060210203	\$3,100	5	140	122	106	86.5		5"	496
EXB5115	EXB511560210203	\$3,100	5	161	139	121	85.0		5"	496
EXB5135	EXB513560210203	\$3,100	5	189	161	140	84.0		5"	496
EXB6130	EXB613060210203	\$3,243	6	182	159	138	86.5		5"	560

EXCELSIOR EXB SERIES CONTINUED										
(RIELLO 40BF BURNER - DIRECT VENT - WITH GRUNDFOS SYSTEM PUMP)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	NO. OF SEC.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	CHIMNEY SIZE	FLUE DIA.	SHIP WGT.
EXB4075	EXB407560220203	\$2,738	4	105	91	79	86.0	8"x 8" x15'	5"	436
EXB4095	EXB409560220203	\$2,738	4	133	114	99	85.0		5"	436
EXB4110	EXB411060220203	\$2,738	4	154	132	115	84.0		5"	436
EXB5100	EXB510060220203	\$3,100	5	140	122	106	86.5		5"	496
EXB5115	EXB511560220203	\$3,100	5	161	139	121	85.0		5"	496
EXB5135	EXB513560220203	\$3,100	5	189	161	140	84.0		5"	496
EXB6130	EXB613060220203	\$3,243	6	182	159	138	86.5		5"	560
EXCELSIOR EXB SERIES - VENTING OPTIONS/ADD. EQUIPMENT									PN	TRADE
36" RISER TERMINATION								29231D	\$1,055	
STANDARD TERMINATION								28972D	\$450	
4" ID X 10 FT DIRECT VENT PIPE KIT (SELECT TERMINATION)								240006909D	\$368	
4" ID X 15 FT DIRECT VENT PIPE KIT (SELECT TERMINATION)								240006910D	\$486	
4" ID X 20 FT DIRECT VENT PIPE KIT (SELECT TERMINATION)								240006911D	\$604	
(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)								PN	TRADE	
KIT, HIGH LIMIT MANUAL RESET L4006E1109 WITH PLUG IN HARNESS								550001929	\$212	
FILL-TROL FOR WATER BOILERS 150 MBH OR LESS								14624002	\$291	
FILL-TROL FOR WATER BOILERS OVER 150 MBH								14624003	\$392	
REPLACEMENT BURNERS										
DESCRIPTION						MODEL	PN	TRADE		
Oil Burner - Beckett Chimney Vent w/o Cover Model AFG except 5115 & 5135 use Model NX						4075	240007232D	\$573		
						4095	240009385D	\$573		
						4110	240009386D	\$573		
						5100	240007233D	\$607		
						5115	240009387D	\$607		
						5135	240009388D	\$607		
						6130	240007234D	\$548		
						6145	240009389D	\$548		
Oil Burner - Same as above w/Cover						7165	240007235D	\$600		
						4075	240007144D	\$614		
						4095	240009377D	\$614		
						4110	240009378D	\$614		
						5100	240007145D	\$647		
						5115	240009379D	\$647		
						5135	240009380D	\$647		
						6130	240007146D	\$588		
Oil Burner - Beckett Direct Vent Model NX						6145	240009381D	\$588		
						7165	240007183D	\$638		
						4075	240007531D	\$732		
						4095	240009393D	\$732		
						5100	240007532D	\$764		
						5115	240009395D	\$764		
						5135	240009396D	\$764		
						6130	240007533D	\$706		

EXCELSIOR EXB SERIES CONTINUED			
REPLACEMENT BURNERS			
DESCRIPTION	MODEL	PN	TRADE
Oil Burner - Riello Chimney Vent Model 40F	4075	240007502D	\$676
	4095	240009399D	\$676
	4110	240009400D	\$676
	5100	240007503D	\$752
	5115	240009401D	\$752
	5135	550002638D	\$752
	6130	550002639D	\$691
	6145	550002640D	\$691
	6165	240009404D	\$952
	7165	240007505D	\$691
	7180	550002641D	\$952
	7190	240009406D	\$952
Oil Burner - Riello Direct Vent Model 40BF	4075	240007528D	\$988
	4095	240009407D	\$988
	4110	240009408D	\$988
	5100	240007529D	\$1,061
	5115	240009409D	\$1,061
	5135	240009410D	\$1,061
	6130	240007530D	\$1,002
Oil Burner - Carlin EZ-LF	4075	240010357D	\$619
	4095		
	4110		
	5100		
	5115		
	5135		

EXB SERIES - STANDARD EQUIPMENT

STANDARD EQUIPMENT:

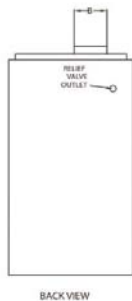
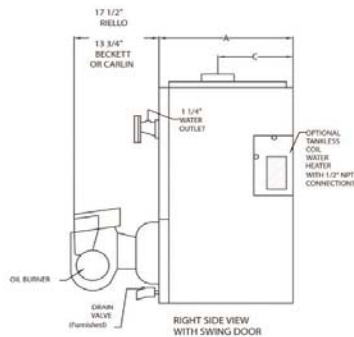
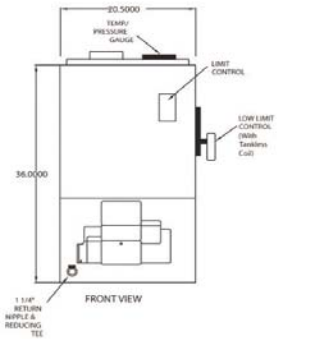
- Boiler Control Module: Hydrolevel Fuel Smart HydroStat Control - combination Low Water Cut Off with boiler temperature reset and circulator control.
- User Display Interface: Digital display with easy to set dial-type limit settings.
- Heat Exchanger: High efficiency, cast iron, 3-pass design with reversible swing door and target wall. Efficiency baffles/liner by model.
- Combustion: Oil burner with protective cover, flexible oil line.
- Electrical: Wiring harness with Molex connectors. Burner with electrical plug in cord.
- Other: Temperature/pressure gauge, 3/4" ASME relief valve, drain valve, textured painted steel jacket.

EW II SERIES III

OIL
HOT WATER BOILER
ATMOSPHERIC
(CHIMNEY VENTED)



Maximum Allowable Working Pressure 50 psi.



General Information (See IOM for complete instructions)

Clearances		Combustible Materials Required (1)	Servicing (2)	Flue to Combustible Clearance
		(1)Required distances measured from boiler.	Top	6" (15.2 cm)
Left Side	6" (15.2 cm)		N/A	
Right Side	24" (61 cm)		N/A	
(2)Service, proper operation clearance recommendation.	Base	Non-Combustible	N/A	
	Front	24" (61 cm)	N/A	
	Back	6" (15.2 cm)	N/A	
	Connections			
All Models		Return/Supply Water		
Electrical		120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)		
Water Content		3EW - 9.6 Gallons, 4EW - 11.6 Gallons, 5EW - 13.7 Gallons		
Dimensions				
Model	A "Depth"	B "Flue"	C "Back of Boiler to Center Line of Flue"	
3EW	14-1/2"	6"	8"	
4EW	17-3/4"	6"	9-5/8"	
5EW	21"	6"	11-1/2"	

(BECKETT BURNER - LESS PUMP - HYDROLEVEL CONTROL)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.
3EW.65	EWB306531200303	\$2,699	0.65	91	80	70	86.3%	8"X8"X15'	470
3EW.75	EWB307531200303	\$2,699	0.75	105	92	80	85.2%	8"X8"X15'	470
3EW1.00	EWB310031200303	\$2,699	1.00	140	120	104	84.0%	8"X8"X15'	470
4EW.90	EWB409031200303	\$3,175	0.90	126	111	97	86.0%	8"X8"X15'	545
4EW1.25	EWB412531200303	\$3,175	1.25	175	151	131	85.0%	8"X8"X15'	545
4EW1.50	EWB415031200303	\$3,175	1.50	210	179	156	84.0%	8"X8"X15'	545
5EW1.20	EWB512031200303	\$3,838	1.20	168	147	128	86.5%	8"X8"X15'	630
5EW1.75	EWB517531200303	\$3,838	1.75	245	210	183	84.3%	8"X8"X15'	630
(BECKETT BURNER - WITH TACO SYSTEM PUMP - HYDROLEVEL CONTROL)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.
3EW.65	EWB306531210303	\$2,772	0.65	91	80	70	86.3%	8"X8"X15'	470
3EW.75	EWB307531210303	\$2,772	0.75	105	92	80	85.2%	8"X8"X15'	470
3EW1.00	EWB310031210303	\$2,772	1.00	140	120	104	84.0%	8"X8"X15'	470
4EW.90	EWB409031210303	\$3,247	0.90	126	111	97	86.0%	8"X8"X15'	545
4EW1.25	EWB412531210303	\$3,247	1.25	175	151	131	85.0%	8"X8"X15'	545
4EW1.50	EWB415031210303	\$3,247	1.50	210	179	156	84.0%	8"X8"X15'	545
5EW1.20	EWB512031210303	\$3,910	1.20	168	147	128	86.5%	8"X8"X15'	630
5EW1.75	EWB517531210303	\$3,910	1.75	245	210	183	84.3%	8"X8"X15'	630
(BECKETT BURNER - WITH GRUNDFOS SYSTEM PUMP - HYDROLEVEL CONTROL)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.
3EW.65	EWB306531230303	\$2,772	0.65	91	80	70	86.3%	8"X8"X15'	470
3EW.75	EWB307531220303	\$2,772	0.75	105	92	80	85.2%	8"X8"X15'	470
3EW1.00	EWB310031220303	\$2,772	1.00	140	120	104	84.0%	8"X8"X15'	470
4EW.90	EWB409031220303	\$3,247	0.90	126	111	97	86.0%	8"X8"X15'	545
4EW1.25	EWB412531220303	\$3,247	1.25	175	151	131	85.0%	8"X8"X15'	545
4EW1.50	EWB415031220303	\$3,247	1.50	210	179	156	84.0%	8"X8"X15'	545
5EW1.20	EWB512031220303	\$3,910	1.20	168	147	128	86.5%	8"X8"X15'	630
5EW1.75	EWB517531220303	\$3,910	1.75	245	210	183	84.3%	8"X8"X15'	630
(RIELLO F5 BURNER - WITH TACO SYSTEM PUMP - HYDROLEVEL CONTROL)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.
3EW.65	EWB306551210303	\$2,828	0.65	91	80	70	86.3%	8"X8"X15'	470
3EW.75	EWB307551210303	\$2,900	0.75	105	92	80	85.2%	8"X8"X15'	470
3EW1.00	EWB310051210303	\$2,900	1.00	140	120	104	84.0%	8"X8"X15'	470
4EW.90	EWB409051210303	\$3,376	0.90	126	111	97	86.0%	8"X8"X15'	545
4EW1.25	EWB412551210303	\$3,376	1.25	175	151	131	85.0%	8"X8"X15'	545
4EW1.50	EWB415051210303	\$3,376	1.50	210	179	156	84.0%	8"X8"X15'	545

(RIELLO F10 BURNER - WITH TACO SYSTEM PUMP - HYDROLEVEL CONTROL)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.
5EW1.20	EWB512051210303	\$4,039	1.20	168	147	128	86.5%	8"X8"X15'	630
5EW1.75	EWB517551210303	\$4,039	1.75	245	210	183	84.3%	8"X8"X15'	630
(CARLIN EZ1 BURNER - WITH TACO SYSTEM PUMP - HYDROLEVEL CONTROL)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.
3EW.65	EWB306571210303	\$2,772	0.65	91	80	70	86.3%	8"X8"X15'	470
3EW.75	EWB307571210303	\$2,772	0.75	105	92	80	85.2%	8"X8"X15'	470
3EW1.00	EWB310071210303	\$2,772	1.00	140	120	104	84.0%	8"X8"X15'	470
4EW.90	EWB409071210303	\$3,247	0.90	126	111	97	86.0%	8"X8"X15'	545
4EW1.25	EWB412571210303	\$3,247	1.25	175	151	131	85.0%	8"X8"X15'	545
4EW1.50	EWB415071210303	\$3,247	1.50	210	179	156	84.0%	8"X8"X15'	545
5EW1.20	EWB512071210303	\$3,910	1.20	168	147	128	86.5%	8"X8"X15'	630
5EW1.75	EWB517571210303	\$3,910	1.75	245	210	183	84.3%	8"X8"X15'	630
(LESS BURNER - WITH TACO SYSTEM PUMP - HYDROLEVEL CONTROL)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.
3EW.65	EWB310021210303	\$2,172	0.65	91	80	70	86.3%	8"X8"X15'	470
3EW.75			0.75	105	92	80	85.2%	8"X8"X15'	470
3EW1.00			1.00	140	120	104	84.0%	8"X8"X15'	470
4EW.90	EWB415021210303	\$2,647	0.90	126	111	97	86.0%	8"X8"X15'	545
4EW1.25			1.25	175	151	131	85.0%	8"X8"X15'	545
4EW1.50			1.50	210	179	156	84.0%	8"X8"X15'	545
5EW1.20	EWB517521210303	\$3,310	1.20	168	147	128	86.5%	8"X8"X15'	630
5EW1.75			1.75	245	210	183	84.3%	8"X8"X15'	630
(LESS BURNER - WITH GRUNDFOS SYSTEM PUMP - HYDROLEVEL CONTROL)									
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.
3EW.65	EWB310021220303	\$2,172	0.65	91	80	70	86.3%	8"X8"X15'	470
3EW.75			0.75	105	92	80	85.2%	8"X8"X15'	470
3EW1.00			1.00	140	120	104	84.0%	8"X8"X15'	470
4EW.90	EWB415021220303	\$2,647	0.90	126	111	97	86.0%	8"X8"X15'	545
4EW1.25			1.25	175	151	131	85.0%	8"X8"X15'	545
4EW1.50			1.50	210	179	156	84.0%	8"X8"X15'	545
5EW1.20	EWB517521220303	\$3,310	1.20	168	147	128	86.5%	8"X8"X15'	630
5EW1.75			1.75	245	210	183	84.3%	8"X8"X15'	630

(BECKETT BURNER - LESS PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
3EW.65	EWB306532200303	\$3,152	0.65	91	80	70	86.3%	8"X8"X15'	2.90	470
3EW.75	EWB307532200303	\$3,152	0.75	105	92	80	85.2%	8"X8"X15'	3.00	470
3EW1.00	EWB310032200303	\$3,152	1.00	140	120	104	84.0%	8"X8"X15'	3.25	470
4EW.90	EWB409032200303	\$3,631	0.90	126	111	97	86.0%	8"X8"X15'	3.15	545
4EW1.25	EWB412532200303	\$3,631	1.25	175	151	131	85.0%	8"X8"X15'	3.50	545
4EW1.50	EWB415032200303	\$3,631	1.50	210	179	156	84.0%	8"X8"X15'	3.75	545
5EW1.20	EWB512032200303	\$4,300	1.20	168	147	128	86.5%	8"X8"X15'	3.45	630
5EW1.75	EWB517532200303	\$4,300	1.75	245	210	183	84.3%	8"X8"X15'	4.00	630
(BECKETT BURNER - TACO SYSTEM PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
3EW.65	EWB306532210303	\$3,225	0.65	91	80	70	86.3%	8"X8"X15'	2.90	470
3EW.75	EWB307532210303	\$3,225	0.75	105	92	80	85.2%	8"X8"X15'	3.00	470
3EW1.00	EWB310032210303	\$3,225	1.00	140	120	104	84.0%	8"X8"X15'	3.25	470
4EW.90	EWB409032210303	\$3,703	0.90	126	111	97	86.0%	8"X8"X15'	3.15	545
4EW1.25	EWB412532210303	\$3,703	1.25	175	151	131	85.0%	8"X8"X15'	3.50	545
4EW1.50	EWB415032210303	\$3,703	1.50	210	179	156	84.0%	8"X8"X15'	3.75	545
5EW1.20	EWB512032210303	\$4,372	1.20	168	147	128	86.5%	8"X8"X15'	3.45	630
5EW1.75	EWB517532210303	\$4,372	1.75	245	210	183	84.3%	8"X8"X15'	4.00	630
(BECKETT BURNER - GRUNDFOS SYSTEM PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
3EW.65	EWB306532230303	\$3,225	0.65	91	80	70	86.3%	8"X8"X15'	2.90	470
3EW.75	EWB307532220303	\$3,225	0.75	105	92	80	85.2%	8"X8"X15'	3.00	470
3EW1.00	EWB310032220303	\$3,225	1.00	140	120	104	84.0%	8"X8"X15'	3.25	470
4EW.90	EWB409032220303	\$3,703	0.90	126	111	97	86.0%	8"X8"X15'	3.15	545
4EW1.25	EWB412532220303	\$3,703	1.25	175	151	131	85.0%	8"X8"X15'	3.50	545
4EW1.50	EWB415032220303	\$3,703	1.50	210	179	156	84.0%	8"X8"X15'	3.75	545
5EW1.20	EWB512032220303	\$4,372	1.20	168	147	128	86.5%	8"X8"X15'	3.45	630
5EW1.75	EWB517532220303	\$4,372	1.75	245	210	183	84.3%	8"X8"X15'	4.00	630
(RIELLO F5 BURNER - TACO SYSTEM PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
3EW.65	EWB306552210303	\$3,352	0.65	91	80	70	86.3%	8"X8"X15'	2.90	470
3EW.75	EWB307552210303	\$3,352	0.75	105	92	80	85.2%	8"X8"X15'	3.00	470
3EW1.00	EWB310052210303	\$3,352	1.00	140	120	104	84.0%	8"X8"X15'	3.25	470
4EW.90	EWB409052210303	\$3,832	0.90	126	111	97	86.0%	8"X8"X15'	3.15	545
4EW1.25	EWB412552210303	\$3,832	1.25	175	151	131	85.0%	8"X8"X15'	3.50	545
4EW1.50	EWB415052210303	\$3,832	1.50	210	179	156	84.0%	8"X8"X15'	3.75	545

(RIELLO F10 BURNER - TACO SYSTEM PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
5EW1.20	EWB512052210303	\$4,817	1.20	168	147	128	86.5%	8"X8"X15'	3.45	630
5EW1.75	EWB517552210303	\$4,817	1.75	245	210	183	84.3%	8"X8"X15'	4.00	630
(CARLIN EZ1 BURNER - TACO SYSTEM PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
3EW.65	EWB306572210303	\$3,225	0.65	91	80	70	86.3%	8"X8"X15'	2.90	470
3EW.75	EWB307572210303	\$3,225	0.75	105	92	80	85.2%	8"X8"X15'	3.00	470
3EW1.00	EWB310072210303	\$3,225	1.00	140	120	104	84.0%	8"X8"X15'	3.25	470
4EW.90	EWB409072210303	\$3,703	0.90	126	111	97	86.0%	8"X8"X15'	3.15	545
4EW1.25	EWB412572210303	\$3,703	1.25	175	151	131	85.0%	8"X8"X15'	3.50	545
4EW1.50	EWB415072210303	\$3,703	1.50	210	179	156	84.0%	8"X8"X15'	3.75	545
5EW1.20	EWB512072210303	\$4,372	1.20	168	147	128	86.5%	8"X8"X15'	3.45	630
5EW1.75	EWB517572210303	\$4,372	1.75	245	210	183	84.3%	8"X8"X15'	4.00	630
(LESS BURNER - TACO SYSTEM PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
3EW.65	EWB310022210303	\$2,625	0.65	91	80	70	86.3%	8"X8"X15'	2.90	470
3EW.75			0.75	105	92	80	85.2%	8"X8"X15'	3.00	470
3EW1.00			1.00	140	120	104	84.0%	8"X8"X15'	3.25	470
4EW.90	EWB415022210303	\$3,101	0.90	126	111	97	86.0%	8"X8"X15'	3.15	545
4EW1.25			1.25	175	151	131	85.0%	8"X8"X15'	3.50	545
4EW1.50			1.50	210	179	156	84.0%	8"X8"X15'	3.75	545
5EW1.20	EWB517522210303	\$3,772	1.20	168	147	128	86.5%	8"X8"X15'	3.45	630
5EW1.75			1.75	245	210	183	84.3%	8"X8"X15'	4.00	630
(LESS BURNER - GRUNDFOS SYSTEM PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
3EW.65	EWB310022220303	\$2,625	0.65	91	80	70	86.3%	8"X8"X15'	2.90	470
3EW.75			0.75	105	92	80	85.2%	8"X8"X15'	3.00	470
3EW1.00			1.00	140	120	104	84.0%	8"X8"X15'	3.25	470
4EW.90	EWB415022220303	\$3,101	0.90	126	111	97	86.0%	8"X8"X15'	3.15	545
4EW1.25			1.25	175	151	131	85.0%	8"X8"X15'	3.50	545
4EW1.50			1.50	210	179	156	84.0%	8"X8"X15'	3.75	545
5EW1.20	EWB517522220303	\$3,772	1.20	168	147	128	86.5%	8"X8"X15'	3.45	630
5EW1.75			1.75	245	210	183	84.3%	8"X8"X15'	4.00	630
(LESS BURNER - WITH LESS SYSTEM PUMP - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.	
3EW1.00	EWB310021200303	\$2,099	1.00	140	120	104	84.0%	8"X8"X15'	470	
4EW1.50	EWB415021200303	\$2,575	1.50	210	179	156	84.0%	8"X8"X15'	545	
5EW1.75	EWB517521200303	\$3,238	1.75	245	210	183	84.3%	8"X8"X15'	630	

(LESS BURNER - LESS SYSTEM PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
3EW1.00	EWB310022200303	\$2,552	1.00	140	120	104	84.0%	8"X8"X15'	3.25	470
4EW1.50	EWB415022200303	\$3,030	1.50	210	179	156	84.0%	8"X8"X15'	3.75	545
5EW1.75	EWB517522200303	\$3,700	1.75	245	210	183	84.3%	8"X8"X15'	4.00	630

(BECKETT BURNER - WITH B&G SYSTEM PUMP - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	SHIP WGT.	
3EW.75	EWB307531230303	\$2,772	0.75	105	92	80	85.2%	8"X8"X15'	470	
3EW1.00	EWB310031230303	\$2,772	1.00	140	120	104	84.0%	8"X8"X15'	470	
4EW1.25	EWB412531230303	\$3,247	1.25	175	151	131	85.0%	8"X8"X15'	545	

(BECKETT BURNER - B&G SYSTEM PUMP WITH COIL - HYDROLEVEL CONTROL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	BURNER FIRE RATE	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	A.F.U.E. RATING %	CHIM DIA.	TANK-LESS G.P.M.	SHIP WGT.
3EW.75	EWB307532230303	\$3,225	0.75	105	92	80	85.2%	8"X8"X15'	3.00	470
3EW1.00	EWB310032230303	\$3,225	1.00	140	120	104	84.0%	8"X8"X15'	3.25	470
4EW1.25	EWB412532230303	\$3,703	1.25	175	151	131	85.0%	8"X8"X15'	3.50	545
4EW1.50	EWB415032230303	\$3,710	1.50	210	179	156	84.0%	8"X8"X15'	3.75	545

	PN	TRADE
*RIELLO BURNER (3 & 4 SECTION)	43300005	\$624
*RIELLO BURNER (5 SECTION)	43300010	\$1,077
*CARLIN EZ-1 BURNER (3 & 4 SECTION)	43300003	\$600
*CARLIN EZ-2 BURNER (5 SECTION)	43300004	\$600
*BECKETT EW II AFG (3 & 4 SECTION)	550002986	\$600
*BECKETT EW II AFG (5 SECTION)	550002987	\$600

*NOTE: PURCHASE OF BURNER IN BOX REQUIRES ADDITIONAL PURCHASE OF CORRECT RERATE KIT FROM LIST BELOW.

(USE PARTS MULTIPLIER FOR ALL OF THE FOLLOWING)	PN	TRADE
3 SECTION BECKETT BURNER RE-RATE KIT, 1.00 GPH	550002666	\$68
3 SECTION BECKETT BURNER RE-RATE KIT, 0.75 GPH	550002676	\$68
3 SECTION BECKETT BURNER RE-RATE KIT, 0.65 GPH	550002677	\$68
4 SECTION BECKETT BURNER RE-RATE KIT, 1.50 GPH	550002667	\$68
4 SECTION BECKETT BURNER RE-RATE KIT, 1.25 GPH	550002675	\$68
4 SECTION BECKETT BURNER RE-RATE KIT, 0.90 GPH	550002678	\$68
5 SECTION BECKETT BURNER RE-RATE KIT, 1.20/1.75 GPH	550002668	\$68
3 SECTION RIELLO BURNER RE-RATE KIT, 0.65/0.75/1.00 GPH	550002669	\$67
4 SECTION RIELLO BURNER RE-RATE KIT, .090/1.25/1.50 GPH	550002670	\$67
5 SECTION RIELLO BURNER RE-RATE KIT, 1.75 GPH	550002671	\$57
3 SECTION CARLIN BURNER RE-RATE KIT, 0.65/0.75/1.00 GPH	550002672	\$63
4 SECTION CARLIN BURNER RE-RATE KIT, 0.90/1.25/1.50 GPH	550002673	\$63
5 SECTION CARLIN BURNER RE-RATE KIT, 1.75 GPH	550002674	\$55
FILL-TROL #110 FOR WATER BOILERS 150 MBH OR LESS	14624002	\$291
FILL-TROL #111 FOR WATER BOILERS OVER 150 MBH	14624003	\$392

EW II SERES III - STANDARD EQUIPMENT

STANDARD EQUIPMENT:

- Boiler Control Module: Hydrolevel Fuel Smart Hydrostat Control - combination Low Water Cut Off with boiler temperature reset and circulator control.
- Heat Exchanger: Cast Iron Sections with Cast Iron Push Nipples and Swing Door.
- Combustion: Completely installed and wired Beckett AFG Series Oil Burner (3 & 4 Section F Head; 5 Section MD Head) equipped with Nozzle, Primary Control, CAD Cell, PSC Motor, Interrupted Duty Ignition and Clean Cut Pump; Flue Brush; Swing Fire Door with Insulation (Vacuum Formed Ceramic Fiber), Target Wall (Vacuum Formed Refractory Ceramic Fiber); Dura Blanket Insulation Chamber, Chamber, and Barometric Draft Control 6".
- Other: Assembled Cast Iron Boiler with Insulated Jacket, Combination Temperature/Pressure Gauge, Circulator Pump wired with 5' harness for supply or return mounting in the field, 3/4" Boiler Drain Valve, 30 psi ASME Relief Valve, extra Boiler Tap for Expansion Tank or Air Elimination.

ESC IV SERIES

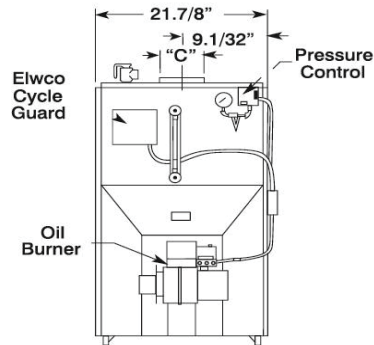
OIL
STEAM BOILER



H
Tested for 15 psi ASME
Working Pressure



Front View



General Information (See IOM for complete instructions)

Clearances	Combustible Materials	
	(Required) (1)	
(1) Required distances measured from boiler.	Top	24" (610 mm)
	Left Side (Control Side)	6" (152 mm)
	Right Side	24" (610 mm)
	Front	24" (610 mm)
	Back	24" (610 mm)
	Flue Connector	9" (229 mm)
Connections	Supply Tapping Two 2" NPT, Return Tapping 1-1/2", Oil Line 3/8" O.D. copper tubing for runs of 50 feet or less, and 1/2" O.D. for longer runs.	
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)	

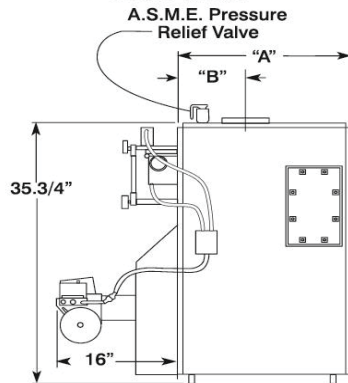
Tankless Heater Capacities (Note: ST=With Tankless Coil, S=No Coil)

Model	Input Rate G.P.H.	Tank-less Heater Number	Tankless Heater Capacity Intermittent Draw G.P.M.	Boiler Water Content (Gallons)	
				To Water Line	To LWCO Line
ESC-3090ST	0.90	L-24	Avail. On Req.	11	8
ESC-4125ST	1.25		4.5	13	9
ESC-5185ST	1.85		4.5	15	10
ESC-6210ST	2.10		4.5	15	10

Dimensions

No. of Sec.	A (Length of Flush Jacket)	B (Front of Jacket to Center Line of Flue Outlet)	C (Flue Outlet Diameter)
3	16.375"	6.5"	6"
4	20.25"	8.5"	6"
5	23.875"	10.25"	7"
6	27.5"	8.3125"	8"

Side View



ESC IV SERIES CONTINUED										
(BECKETT BURNER - WITH TANKLESS COVER PLATE)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	No. of Sec.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AHRI NET SQ. FT. STEAM	Fir. Rate GPH	AFUE RATING %	SHIP WGT.
ESC-3090S	ESC309031100403	\$3,218	3	126	106	80	333	0.90	82.0%	534
ESC-4125S	ESC412531100403	\$3,714	4	175	147	110	458	1.25	82.0%	688
ESC-5185S	ESC518531100403	\$4,028	5	259	216	162	675	1.85	82.0%	781
ESC-6210S	ESC621031100403	\$4,402	6	294	247	185	771	2.10	82.0%	901
(BECKETT BURNER - WITH TANKLESS COIL)										
BOILER MODEL	ITEM NUMBER	TRADE PRICE	No. of Sec.	INPUT (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AHRI NET SQ. FT. STEAM	Fir. Rate GPH	AFUE RATING %	SHIP WGT.
ESC-3090ST	ESC309032100403	\$3,605	3	126	106	80	333	0.90	82.0%	534
ESC-4125ST	ESC412532100403	\$4,100	4	175	147	110	458	1.25	82.0%	688
ESC-5185ST	ESC518532100403	\$4,414	5	259	216	162	675	1.85	82.0%	781
ESC-6210ST	ESC621032100403	\$4,789	6	294	247	185	771	2.10	82.0%	901
ESC IV SERIES - STANDARD EQUIPMENT										
<u>STANDARD EQUIPMENT:</u>										
Boiler Controls: Honeywell Pressuretrol, Boiler Water Level Gauge Glass, and Steam Pressure Gauge.										
Heat Exchanger: Cast Iron Heat Exchanger with Cast Iron Push Nipples, Swing Door.										
Combustion: Beckett Oil Burner, Target Wall/Liner.										
Electrical: Wiring Harness, Burner Electric Disconnect.										
Safety: Electronic Low Water Cut Off.										
Other: Crated Boiler, Flush Jacket, ASME Relief Valve, Drain Valve, Plastic Cover, Two 2" Supply Tappings, 1-1/2" Return Tapping and Skim Port.										
For Tankless Heater Units: Add Tankless Hot Water Coil and 4006 Limit Control.										

H2O SERIES
 STAINLESS STEEL
 SINGLE COIL
 INDIRECT WATER HEATER

H2O I 40 L DK

I=Indirect

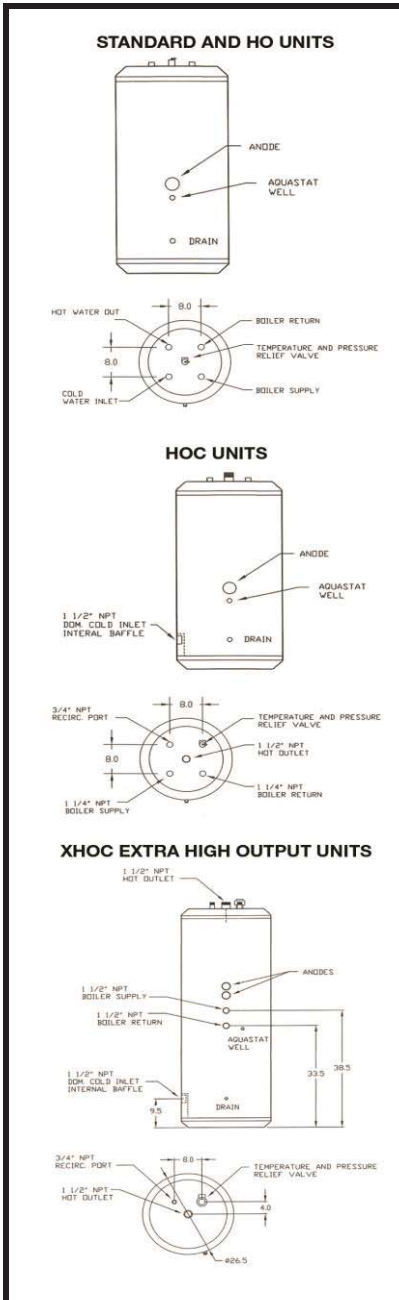
Capacity:
 30=30 Gals.
 40=40 Gals.
 50=50 Gals.
 60=60 Gals.
 80=80 Gals.
 85=87 Gals.
 115=115 Gals.

L=Lowboy
 C=Commercial
 HO=High Output
 HOC=High Output
 Commercial
 XHO=Extra High
 Output

DK=Dunkirk



Conforms to UL STD 174
 Certified to CAN/CSA STD C22.2 No. 110-94



Note: Max. Working pressure 150 psi for all capacities.

General Information (See IOM for complete instructions)

Model	Piping Connections NPT		Height (Inches)	Dia. (Inches)
	Domestic Water In/Out (Inches)	Boiler Water In/Out (Inches)		
H2OI30DK	3/4	1	34.0	23.5
H2OI40DK	3/4	1	44.0	23.5
H2OI40LDK	3/4	1	36.0	28.0
H2OI50DK	3/4	1	54.0	23.5
H2OI60DK	3/4	1	62.0	23.5
H2OI60LDK	3/4	1	46.0	28.0
H2OI80DK	1	1	56.0	28.0
H2OI115DK	1	1	74.0	28.0
H2OI60HODK	1	1	62.0	23.5
H2OI80HODK	1	1	56.0	28.0
H2OI80HOC DK	1-1/2	1-1/4	56.0	28.0
H2OI115HODK	1	1	74.0	28.0
H2OI115HOC DK	1-1/2	1-1/4	74.0	28.0
H2OI85XHOC DK	1-1/2	1-1/2	64.0	28.0
H2OI115XHOC DK	1-1/2	1-1/2	74.0	28.0

H2O SINGLE COIL STAINLESS STEEL INDIRECT WATER HEATERS CONTINUED

MODEL	TRADE PRICE	STOR. CAP. (Gals.)	DESCRIPTION	MAX. FIRST HOUR RATING Gal./Hr. @		BOILER OUTPUT REQ. (BTU/Hr.)	SHP. WGT. (LBS.)
				140°F	115°F		
H2OI30DK	\$1,305	30	STANDARD	202	269	131,250	85
H2OI40DK	\$1,342	40	STANDARD	221	292	138,670	100
H2OI40LDK	\$1,430	42	LOWBOY	212	251	132,000	100
H2OI50DK	\$1,620	50	STANDARD	223	291	133,280	110
H2OI60DK	\$1,938	60	STANDARD	262	342	155,700	125
H2OI60LDK	\$1,993	60	LOWBOY	239	310	138,570	120
H2OI80DK	\$2,148	80	STANDARD	271	248	149,390	140
H2OI115DK	\$3,188	115	STANDARD	324	409	165,750	175
H2OI60HODK	\$2,090	60	HIGH OUTPUT	406	541	263,600	145
H2OI80HODK	\$2,905	80	HIGH OUTPUT	418	551	259,640	155
H2OI80HOC DK	\$3,136	80	HIGH OUTPUT COMMERCIAL	442	584	227,070	155
H2OI115HODK	\$3,929	115	HIGH OUTPUT	467	607	273,100	190
H2OI115HOC DK	\$4,159	115	HIGH OUTPUT COMMERCIAL	479	623	281,300	190
H2OI85XHOC DK	\$3,904	87	EXTRA HIGH OUTPUT	738	992	495,000	215
H2OI115XHOC DK	\$4,634	115	EXTRA HIGH OUTPUT	763	1017	495,000	240

H2O SINGLE COIL INDIRECT WATER HEATERS WITH ELECTRIC BACKUP (3500 WATTS)

MODEL	TRADE PRICE	STOR. CAP. (Gals.)	DESCRIPTION	MAX. FIRST HOUR RATING Gal./Hr. @		SHP. WGT. (LBS.)
				140°F	115°F	
H2OI60EDK	\$2,488	60	ELECTRIC BACK-UP	254	333.0	135
H2OI80EDK	\$2,784	80	ELECTRIC BACK-UP	266	341.0	145
H2OI115EDK	\$3,764	115	ELECTRIC BACK-UP	319	403.0	180

H2O SINGLE COIL STANDARD EQUIPMENT

Standard Equipment: Factory installed brass drain and relief valves, welded stainless steel cold water dip tube factory installed and pressure tested, Honeywell L4080B aquastat for field installation and magnesium anode rod(s).

H2O SINGLE COIL OPTIONS

Options: (L) Low Profile, (C) Commercial, (HO) High Output, (HOC) High Output Commercial, (XHO) Extra High Output, (E) Electric Backup

H2O SERIES
 STAINLESS STEEL
 DUAL COIL SOLAR
 INDIRECT WATER HEATER



H2O

I

60

D

E

DK

I = Indirect

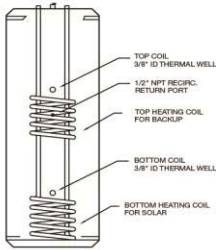
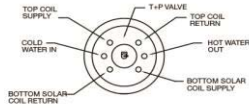
Capacity:
 60 = 60 Gals.
 80 = 80 Gals.
 115 = 115 Gals.

D = Dual Coil

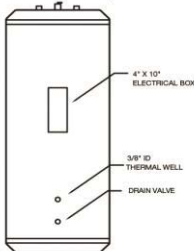
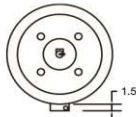
E = Electrical
 Backup (3500Watt)

DK = Dunkirk

Conforms to UL STD 174
 Certified to CAN/CSA STD C22.2 No. 110-94



DUAL COIL UNITS



ELECTRIC BACKUP UNITS



Note: Max. Working pressure 150 psi for all capacities.

General Information (See IOM for complete instructions)

Model	Piping Connections NPT (Inches)	Height (Inches)	Dia. (Inches)
H2O160DDK	1	62.0	23.5
H2O180DDK	1	56.0	28.0
H2O115DDK	1	74.0	28.0
H2O160DEDK	1	62.0	23.5
H2O180DEDK	1	56.0	28.0
H2O115DEDK	1	74.0	28.0

H2O DUAL COIL STAINLESS STEEL INDIRECT WATER HEATERS CONTINUED

MODEL	TRADE PRICE	STOR. CAP. (Gals.)	DESCRIPTION	RECOVERY RATE GAL./HR.		SHP. WGT. (LBS.)
				TOP COIL	BOTTOM COIL	
H2OI60DDK	\$2,571	60	DUAL COIL INDIRECT	185	214	165
H2OI80DDK	\$2,927	80	DUAL COIL INDIRECT	180	214	175
H2OI115DDK	\$3,749	115	DUAL COIL INDIRECT	190	214	205

H2O DUAL COIL STAINLESS STEEL INDIRECT WATER HEATERS WITH ELECTRIC BACKUP (3500 WATTS)

MODEL	TRADE PRICE	STOR. CAP. (Gals.)	DESCRIPTION	RECOVERY RATE GAL./HR.		SHP. WGT. (LBS.)
				TOP COIL	BOTTOM COIL	
H2OI60DEDK	\$3,475	60	DUAL COIL ELECTRIC BACK-UP	185	214	175
H2OI80DEDK	\$3,924	80	DUAL COIL ELECTRIC BACK-UP	180	214	185
H2OI115DEDK	\$4,923	115	DUAL COIL ELECTRIC BACK-UP	190	214	215

H2O DUAL COIL STANDARD EQUIPMENT

Standard Equipment: Factory installed brass drain and relief valves, welded stainless steel cold water dip tube factory installed and pressure tested, Honeywell L4080B aquastat for field installation and magnesium anode rod(s). Removable thermal well to accept a solar control thermostat or thermistor. Dual coil units equipped with two aquastat wells which control each coil independently and built-in recirculation tapping. Units with Electric Back-Up are provided with 4" x 10" electrical box with pre-wired heating element, thermostat, and hi-limit. All electric back-up units provided with 240 volt AC, 3500 watt element.

H2O DUAL COIL OPTIONS

Options: (E) Electric Backup models for supplemental heating.

H2O SERIES
STAINLESS STEEL
STORAGE TANKS



Intertek

Conforms to UL STD 174
Certified to CAN/CSA STD C22.2 No. 110-94

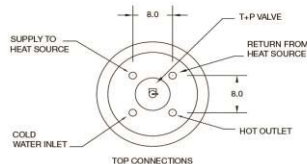
H2O ST 60 L DK

ST = Storage Tank

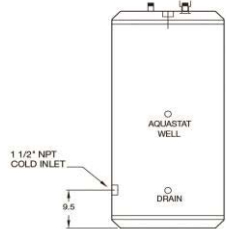
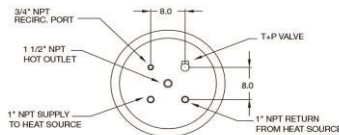
Capacity:
30 = 30 Gals.
40 = 40 Gals.
60 = 60 Gals.
80 = 80 Gals.
115 = 115 Gals.

L = Lowboy
C = Commercial

DK = Dunkirk



STANDARD UNITS



COMMERCIAL UNITS

Note: Max. Working pressure 150 psi for all capacities.

General Information (See IOM for complete instructions)

Model	Piping Connections NPT		Height (Inches)	Dia. (Inches)
	Supply/Return (Inches)	Heat Source Pressure (Inches)		
H2OST30DK	1	1	34.0	23.5
H2OST40DK	1	1	44.0	23.5
H2OST60DK	1	1	62.0	23.5
H2OST60LDK	1	1	46.0	23.5
H2OST80DK	1	1	56.0	28.0
H2OST115DK	1	1	74.0	28.0
H2OST80CDK	1-1/2	1	56.0	28.0
H2OST115CDK	1-1/2	1	74.0	28.0

H2O STAINLESS STEEL HOT WATER STORAGE TANKS (NO COIL) CONTINUED

MODEL	TRADE PRICE	STOR. CAP. (Gals.)	DESCRIPTION	SHP. WGT. (LBS.)
H2OST30DK	\$1,159	30	H2O HOT WATER STORAGE TANK (NO COIL)	75
H2OST40DK	\$1,197	40	H2O HOT WATER STORAGE TANK (NO COIL)	90
H2OST60DK	\$1,746	60	H2O HOT WATER STORAGE TANK (NO COIL)	115
H2OST60LDK	\$1,801	60	LOW BOY H2O HOT WATER STORAGE TANKS (NO COIL)	110
H2OST80DK	\$1,983	80	H2O HOT WATER STORAGE TANKS (NO COIL)	140
H2OST80CDK	\$2,856	80	COMM. H2O HOT WATER STORAGE TANK (NO COIL)	175
H2OST115DK	\$2,182	115	H2O HOT WATER STORAGE TANK (NO COIL)	140
H2OST115CDK	\$3,056	115	COMM. H2O HOT WATER STORAGE TANK (NO COIL)	175
H2O STORAGE TANK STANDARD EQUIPMENT				
Standard Equipment: Factory installed brass drain and relief valves, welded stainless steel cold water dip tube factory installed and pressure tested, Honeywell L4080B aquastat for field installation.				
H2O STORAGE TANK OPTIONS				
Options: (C) Commercial, (L) Low Profile				

H2O SERIES
STAINLESS STEEL
BUFFER TANKS

H2O BT 40 114 WC DK



Conforms to UL STD 174
Certified to CAN/CSA STD C22.2 No. 110-94

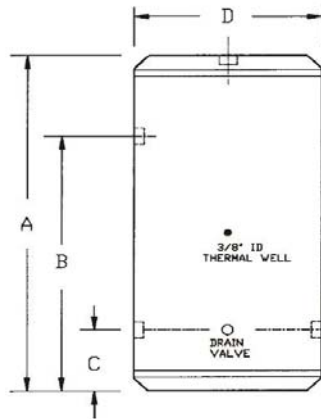
BT= Buffer Tank

Capacity:
22= 22 Gals.
40= 40 Gals.
60= 60 Gals.
80= 80 Gals.

114= 1-1/4" NPT
112= 1-1/2" NPT
2= 2" NPT

WC= With Coil

DK= Dunkirk



4 CONNECTIONS
1 ON RIGHT SIDE
2 ON LEFT SIDE
1 ON TOP



Note: Max. Working pressure 150 psi for all capacities.

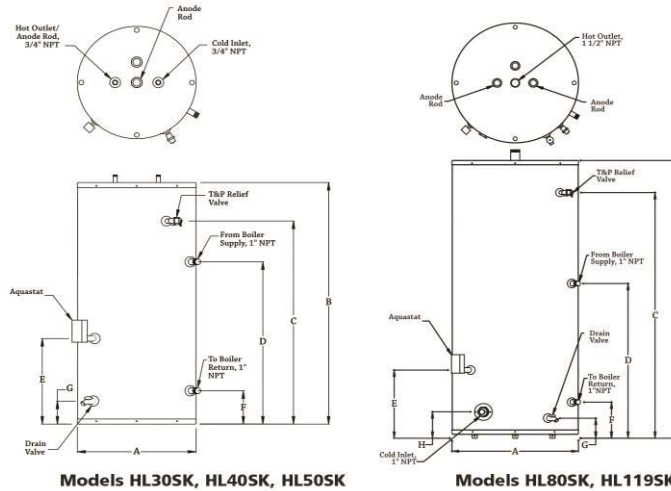
General Information (See IOM for complete instructions)

Model	Piping Connections NPT (Inches)	Height (Inches)	B (Inches)	C (Inches)
H2OBT22114DK	1-1/4	24.5	15	8
H2OBT40114DK	1-1/4	42.0	31.0	11.0
H2OBT40112DK	1-1/2			
H2OBT402DK	2			
H2OBT60114DK	1-1/4	44.0	31.5	11.5
H2OBT60112DK	1-1/2			
H2OBT602DK	2			
H2OBT80114DK	1-1/4	54.0	40.5	11.5
H2OBT80112DK	1-1/2			
H2OBT802DK	2			
H2OBT115114DK	1-1/4	72.0	61.5	11.5
H2OBT115112DK	1-1/2			
H2OBT1152DK	2			
H2OBT40114WCDK	1-1/4	42.0	31.0	11.0
H2OBT40112WCDK	1-1/2			
H2OBT402WCDK	2			
H2OBT60114WCDK	1-1/4	44.0	31.5	11.5
H2OBT60112WCDK	1-1/2			
H2OBT602WCDK	2			
H2OBT80114WCDK	1-1/4	54.0	40.5	11.5
H2OBT80112WCDK	1-1/2			
H2OBT802WCDK	2			
H2OBT115114WCDK	1-1/4	72.0	61.5	11.5
H2OBT115112WCDK	1-1/2			
H2OBT1152WCDK	2			

H2O HYDRONIC STAINLESS STEEL BUFFER TANKS CONTINUED				
MODEL	TRADE PRICE	STOR. CAP. (Gals.)	DESCRIPTION	SHP. WGT. (LBS.)
H2OBT22114DK	\$1,161	22	HYDRONIC BUFFER TANK	35
H2OBT40114DK	\$2,031	40	HYDRONIC BUFFER TANK	87
H2OBT40112DK	\$2,031			
H2OBT402DK	\$2,031			
H2OBT60114DK	\$2,419	60	HYDRONIC BUFFER TANK	115
H2OBT60112DK	\$2,419			
H2OBT602DK	\$2,419			
H2OBT80114DK	\$2,670	80	HYDRONIC BUFFER TANK	125
H2OBT80112DK	\$2,670			
H2OBT802DK	\$2,670			
H2OBT115114DK	\$3,324	115	HYDRONIC BUFFER TANK	160
H2OBT115112DK	\$3,324			
H2OBT1152DK	\$3,324			
H2O HYDRONIC BUFFER TANKS (WITH COIL)				
MODEL	TRADE PRICE	STOR. CAP. (Gals.)	DESCRIPTION	SHP. WGT. (LBS.)
H2OBT40114WCDK	\$2,604	40	HYDRONIC BUFFER TANK (WITH COIL)	97
H2OBT40112WCDK	\$2,604			
H2OBT402WCDK	\$2,604			
H2OBT60114WCDK	\$2,769	60	HYDRONIC BUFFER TANK (WITH COIL)	125
H2OBT60112WCDK	\$2,769			
H2OBT602WCDK	\$2,769			
H2OBT80114WCDK	\$3,303	80	HYDRONIC BUFFER TANK (WITH COIL)	135
H2OBT80112WCDK	\$3,303			
H2OBT802WCDK	\$3,303			
H2OBT115114WCDK	\$4,020	115	HYDRONIC BUFFER TANK (WITH COIL)	170
H2OBT115112WCDK	\$4,020			
H2OBT1152WCDK	\$4,020			
H2O BUFFER TANK STANDARD EQUIPMENT				
Standard Equipment: Factory installed brass drain and relief valves, welded stainless steel cold water dip tube factory installed and pressure tested, Honeywell L4080B aquastat for field installation.				
H2O BUFFER TANK OPTIONS				
Options: (WC) With Coil				

HOTLINE SERIES

INDIRECT WATER HEATER



Note: Max. Working pressure 150 psi for all capacities.

General Information (See IOM for complete instructions)

Model	Piping Connections NPT		A Dia. (Inches)	B Height (Inches)
	Domestic Water In/Out (Inches)	Boiler Water In/Out (Inches)		
*ST00211D	3/4	1	22.0	35-3/4
ST00215D	3/4	1	22.0	42-3/4
ST00212D	3/4	1	22.0	48-3/4
ST00213D	1	1	24.0	64-3/4
ST00214D	1	1	28.0	65-1/4

HOTLINE INDIRECT WATER HEATERS

MODEL	NAME	TRADE PRICE	STOR. CAP. (Gals.)	BTU/H MIN. BOILER OUTPUT	MAX 1ST HR FLOW RATINGS GAL./HR.	SHP. WGT. (LBS.)
*ST00211D	HL30SK	\$1,170	30	74	115	140
ST00215D	HL40SK	\$1,288	40	74	125	200
ST00212D	HL50SK	\$1,419	50	74	140	220
ST00213D	HL80SK	\$2,024	80	150	185	286
ST00214D	HL119SK	\$2,482	119	175	250	372

*SURFACE MOUNTED THERMOSTAT.

HOTLINE OPTIONS/ADDITIONAL EQUIPMENT

	PN	TRADE
MAGNESIUM ANODE 3/4 X 30; 30-40-50 GAL.	ST00301	\$63
MAGNESIUM ANODE 3/4 X 36; 80 GAL.	ST00701	\$51
MAGNESIUM ANODE 3/4 X 36; 119 GAL.	ST00901	\$42
DIP TUBE 3/4 X 3 X 33; 30 GAL.	ST00401	\$72
DIP TUBE 3/4 X 3 X 38; 40 GAL.	ST01301	\$16
DIP TUBE 3/4 X 3 X 44; 50 GAL.	ST00801	\$31
T & P VALVE 3/4, LL100XL; 30-40-50 GAL.	ST00601	\$37
T & P VALVE 3/4, 140X5; 80-119 GAL.	ST01001	\$90
AQUASTAT L4080B1352	ST01101	\$324

HOTLINE INDIRECT WATER HEATER STANDARD EQUIPMENT

STANDARD EQUIPMENT: Factory Assembled Hot Water Tank; Steel Tank with 2" Foam Insulation; Smooth Coil Coated with Porcelain to resist Corrosion and Lime Build-Up; Replaceable Magnesium Anode Rod Aquastat Limit Control; Self Cleaning Drain Valve; Factory Installed T & P Valve.