



Trade Price Addendum 416

Innovative. Efficient. Dependable. Dunkirk.

Effective 4/1/16



Helix VLT
Available in 50 - 299 MBH
Built in Primary/
Secondary Piping

95% AFUE



DCB Series
Available in 125-150 MBH
Wall Hung Modulating
Condensing Boiler

95% AFUE



Helix VX
Available in 50 - 200 MBH
VX 399 Floor
Mount Available

95% AFUE



Q90-100 Series
Cast Aluminum Gas
Condensing Boiler
Floor Mounted

90% AFUE



Customer Service / Technical Support
P: 800-325-5479 F: 315-724-9319 or 866-432-7329

Corporate Sales | Literature
P: 877-386-5475 | literature@ecrinternational.com
F: 716-366-4670

P/N 240005064 Addendum - 416, Rev. B



Dunkirk
www.dunkirk.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 Additional 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

To assist in providing the best service to our valued customers, ECR International has developed the following 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

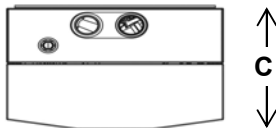
150 psi
 MAWP



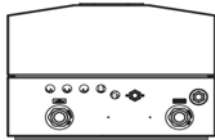
Front



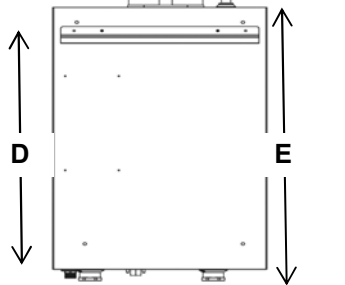
Top



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	(Schedule 40 PVC)					
	2" Pipe		3" Pipe		4" Pipe	
	50	75/100	75/100	150/200	299	299
Min. Length	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)
Max. Length	100 Ft. (30.5 m)	50 Ft. (15.2 m)	100 Ft. (30.5 m)	100 Ft. (30.5 m)	25 Ft. (7.7 m)	100 Ft. (30.5 m)

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

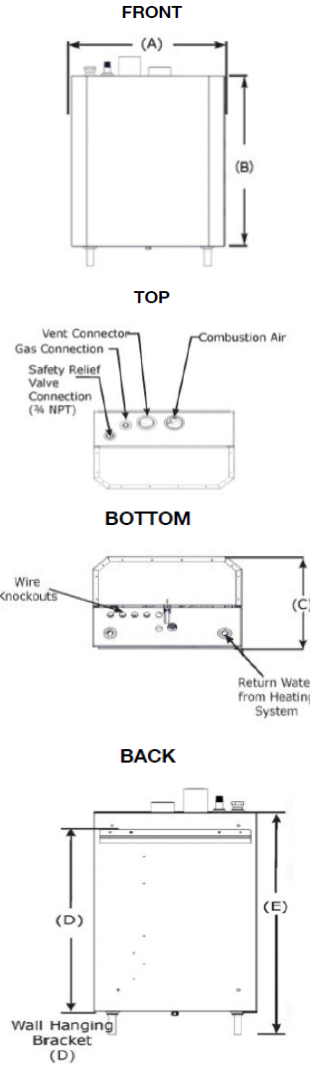
Note: The DKVLT299 is only available less system pump.

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		
<u>STANDARD EQUIPMENT:</u>		
<ul style="list-style-type: none"> - 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: Detachable 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, 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)	
	Combustion Air & Vent Pipe Equiv. Length	(Schedule 40 PVC)		
Min. Length	2" Pipe		3" Pipe	
	50	75/100	75/100	150/200
Max. Length	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)
	100 Ft. (30.5 m)	50 Ft. (15.2 m)	100 Ft. (30.5 m)	100 Ft. (30.5 m)

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

Dimensions		
Models	050	150
	075	200
	100	
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	1035 mm

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		

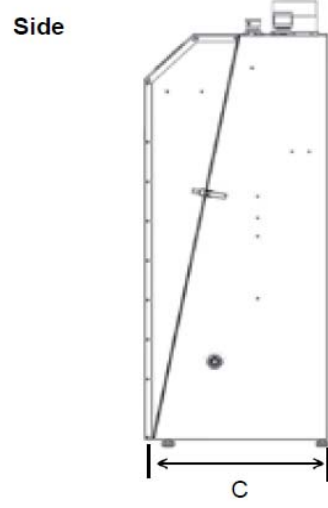
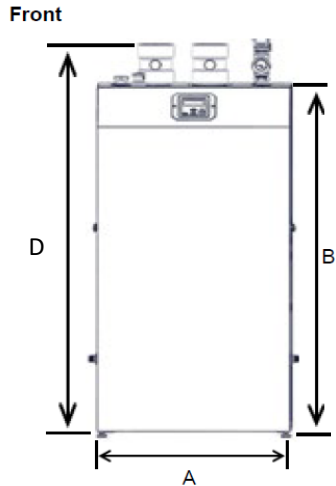
VX SERIES CONTINUED								
(NATURAL GAS - LESS SYSTEM PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-50	HVX105003500103	\$3,155	50/10	46	40	95	2"	91/111
VX-75	HVX107503500103	\$3,250	75/15	69	60	95	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	HVX120003522103	\$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 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		
<u>STANDARD EQUIPMENT:</u>		
<ul style="list-style-type: none"> - 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, Boiler Drain Valve and Condensate Drain with built in trap. 		

VX 399
 NATURAL OR PROPANE
 MODULATING CONDENSING
 HOT WATER BOILER

150 psi
 MAWP



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	0" (0 cm)
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)	
Min. Length	4" Pipe		
	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 "D"	56 - 1/4"
	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		

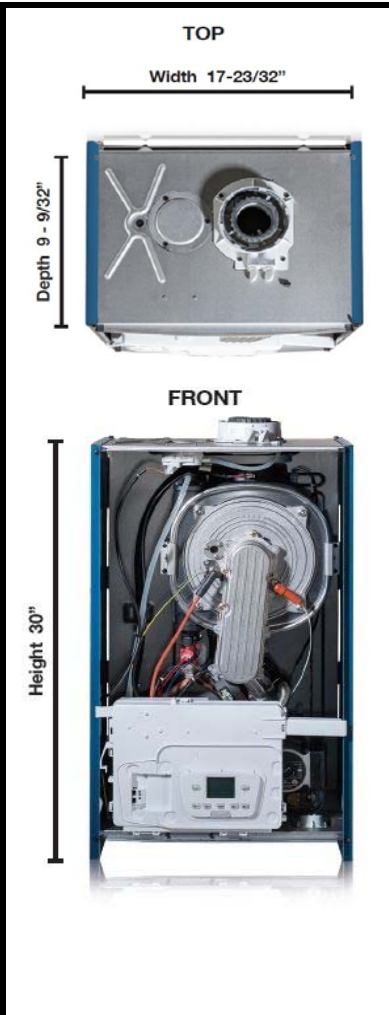
VX SERIES CONTINUED								
(NATURAL AND LP GAS - LESS PRIMARY PUMP)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT (MBH) MAX/ MIN	HTG. CAP. (MBH)	AHRI NET (MBH)	THERMAL EFFIC. RATING %	FLUE DIA.	BLR./ SHP WGT. LBS.
VX-399	HVX139903500103	\$10,607	399/80	379	329	96	4"	265/290
(NATURAL AND LP GAS - 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			
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, 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





ENERGY STAR **Most Efficient 2016**
www.energystar.gov



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

General Information (See IOM for complete instructions)									
1) Required distances measured from boiler.	Clearances		Combustible Materials (Required) (1)		Service (2)				
			Top	0" (0 cm)	8.66" (22 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 CPVP UL1738/ULC S636 Boiler Adapter Kit Required			
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		
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
Height	30"	30"	Connections			Return/Supply Water			
			DCC-150 & DCB-125		3/4" SWT			Gas In	
			DCC-150 DHW		1/2" SWT			3/4" FPT	
			Electrical						
			120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)						
			Water Content						
			125/150 - 0.95 Gallons						

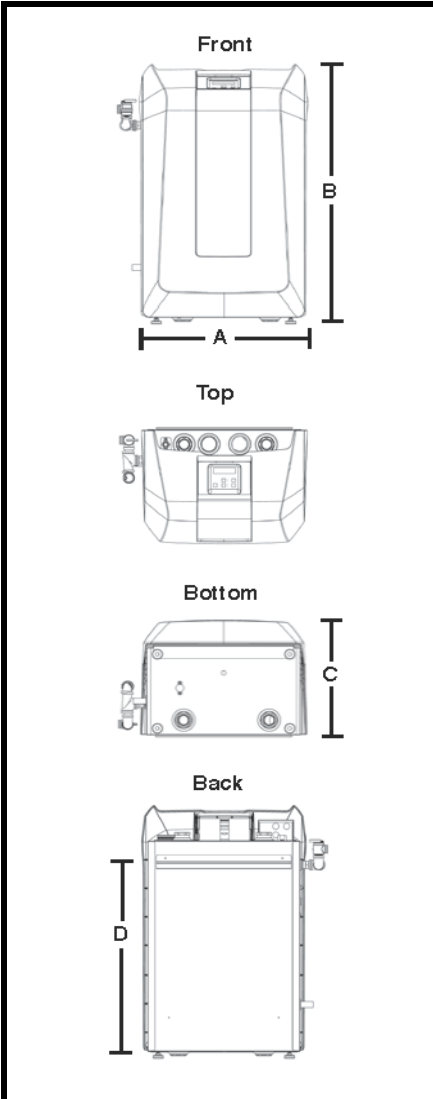
DCB/DCC SERIES CONTINUED*								
(NATURAL AND LP GAS - LESS SYSTEM PUMP, COMBI OR HEATING ONLY)								
BOILER MODEL	ITEM NUMBER	TRADE PRICE	INPUT RATE (MBH)	HTG. CAP. (MBH)	AHRI NET (MBH)	AFUE RATING %	VENTING COAXIAL	VENTING 2-PIPE
Space Heating Model								
DCB125	DCB112503600103	\$2,650	126	113	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><u>STANDARD EQUIPMENT:</u></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 -Domestic Hot Water (DHW) Brazed Plate: Stainless Steel with 3.5 GPM @ 70° F 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. -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: Stainless Steel Brazed Plate Heat Exchanger.</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



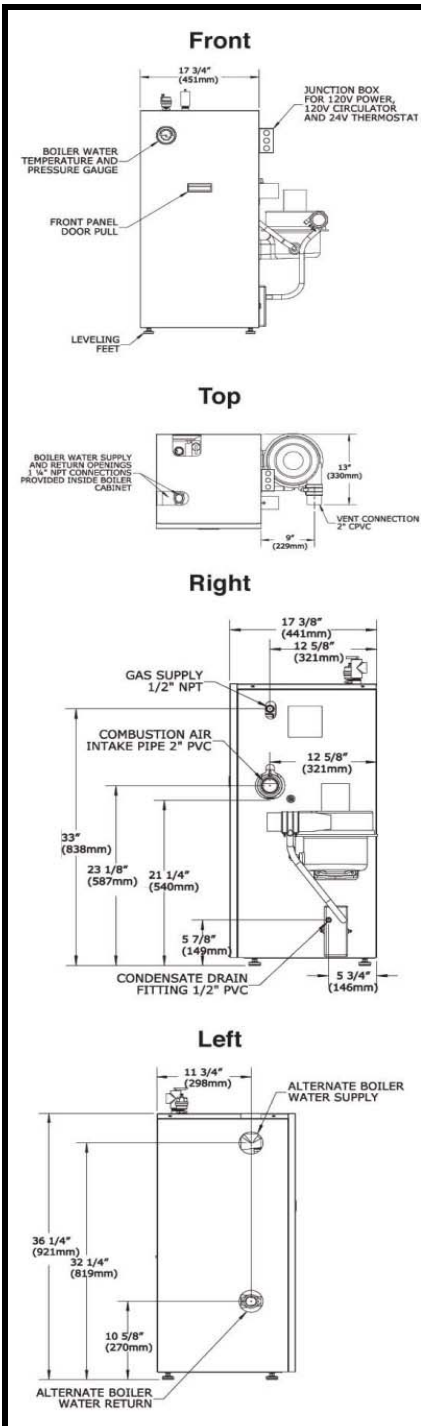
General Information (See IOM for complete instructions)

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	0" (0 cm)	6" (16 cm)		
	Combustion Air & Vent Pipe Equiv. Length	(Schedule 40 PVC)			
		2" Pipe 075/100	3" Pipe 075/100		
Min. Length	6 Ft. (1.8 m)		6 Ft. (1.8 m)		
	50 Ft. (15.2 m)		100 Ft. (30.5 m)		
Max. Length	Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.				
Models	075/100	Connections	Return/Supply Water	Gas In	Cond. Drain
		075/100	1-1/4" NPT	1/2" NPT	3/4" MPT
Width "A"	22-1/16" (560 mm)	Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)		
Height "B"	35-5/8" (905 mm)	Water Content	075/100 - 1.1 Gallons		
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)	2" Pipe	2" Pipe	3" Pipe
050		100	050	100
075			075	
2 Ft.		2 Ft.	20 Ft.	15 Ft.
Min. Length	(.61 m)	(.61 m)	(6.09 m)	(4.57 m)
Max. Length	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	
	1-1/4" NPT	1/2" NPT	1/2" CPVC Stub	
Dimensions	050/075/100			
Width	17-3/4" (451 mm)			
Height	36-1/4" (921 mm)			
Depth	17-3/8" (441 mm)			
Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)			
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		
<u>STANDARD EQUIPMENT:</u>		
<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), 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 		