

GT A^{PLUS} / GT AE^{PLUS}: GT 530A/AE with Ener-O-Mizer

High Performance Low-Temperature Return Eutectic Cast Iron Boilers

Low Return Water Capability Maximizes Energy Savings

The GT 530AE Plus Series Eutectic Cast Iron boilers comes with an economizer heat exchanger option manufactured from TP316L stainless steel to achieve one of the highest efficiencies in the hydronic boiler market. The stainless steel economizer is specifically designed for the GT 530AE Plus to ensure the highest performance and longest life expectancy of a De Dietrich boiler. The ability to have #2 fuel oil and/or propane as a backup fuel is a feature that enables end users the flexibility of fuel choice without compromising performance. With firing rates up to 8,190 MBH, the GT 530AE Plus is one of the largest high efficiency boilers in the hydronic heating market.

The GT 530AE Plus is a Four Pass Design with a generous combustion chamber and horizontal flue passes with built-in fins. The heat transfer is enhanced by the fins, eutectic cast iron baffles and the addition of the stainless steel economizer adds between 10 and 15% to the overall efficiency.

- Efficiency up to 96.5% with economizer
- Low water pressure drops
- Low noise level
- High thermal efficiency and heat transfer

Low Water Outlet Temperature down to 105°F with indoor/outdoor reset achieves significant energy savings by reducing stand-by fuel consumption. In addition, it's not necessary to maintain boiler temperature between two heating cycles, which further reduces fuel consumption and achieves excellent overall efficiency. Studies show substantial savings over retrofit boilers and over new competitive models.

Easy Cleaning with Hinged Door for burner and flue access. Burner door can be hinged right or left based on your access needs. Boiler is easily cleaned and vacuumed, resulting in lower maintenance costs.

Eutectic Cast Iron boiler body provides exceptional resistance to temperature variations and thermal stress. De Dietrich's eutectic cast iron is 30% more flexible than any competitive cast iron allowing safe low temperature operation.

Four Inch Insulation featuring reinforced fiberglass wool. De Dietrich Boilers feature double insulation of the boiler front which minimizes heat loss and allows reduced stand-by consumption and improved thermal efficiency.

Control Panel. The standard control panel supplied is designed for heating only. The panel is equipped with a boiler thermometer, ON/OFF limit, high limit and manual reset limit. The large size permits it to be integrated easily with third party energy management systems.

Standard Equipment

- Stainless Steel Economizer
- Eutectic Cast Iron Nipples
- Built-in High Limit with Manual Reset
- Thermocord Combustion Seal
- CSA/CSD-1 Compliant Controls and accessories
- Low Water Cut-Off
- Low NO_x Burners (optional)
- Factory Assembly (optional)
- BACnet (optional)

Consult your local De Dietrich representative for a list of available burners.

Thermocord & Groove system eliminates gaskets - the number one cause of boiler maintenance



De Dietrich's eutectic[™] cast iron delivers 30% more flexibility, providing the industry's best thermal shock resistance



Flexible eutectic cast iron allows 105°F supply water capability. This low temperature operations yields significant fuel savings



EUTECTIC CAST IRON BOILERS

COMMERCIAL AND INSTITUTIONAL

GT A^{PLUS} / GT AE^{PLUS}



Innovative Design For Better Fuel Efficiency



A Symbol of Quality Engineering For Over Three Centuries



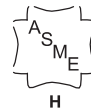
- CSA certified up to 96.5% Efficiency on Natural Gas and 94.5% on #2 Fuel Oil
- Fully Condensing Eutectic Cast Iron Boiler with Stainless Steel Ener-O-Mizer
- Up to 89°F differential temperatures with no Thermal Shock
- Firing rates of 3,700 to 8,190 MBH
- Maximum Working Pressure 90 p.s.i.

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1-519-650-0420

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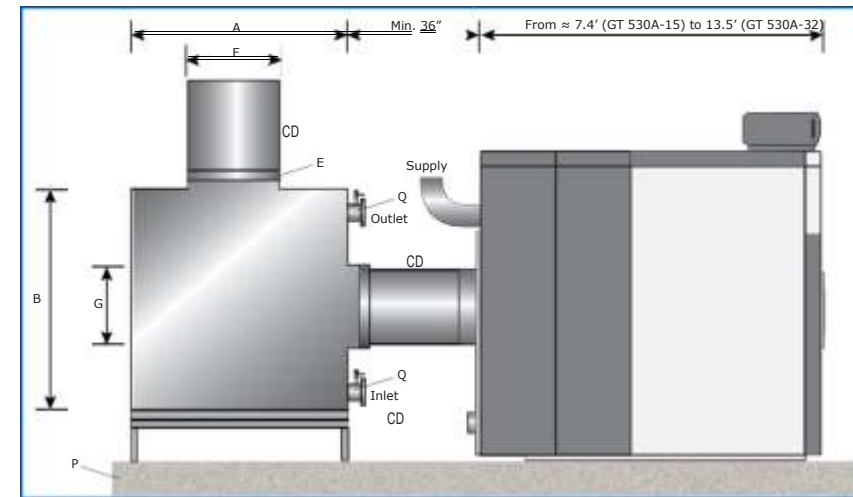
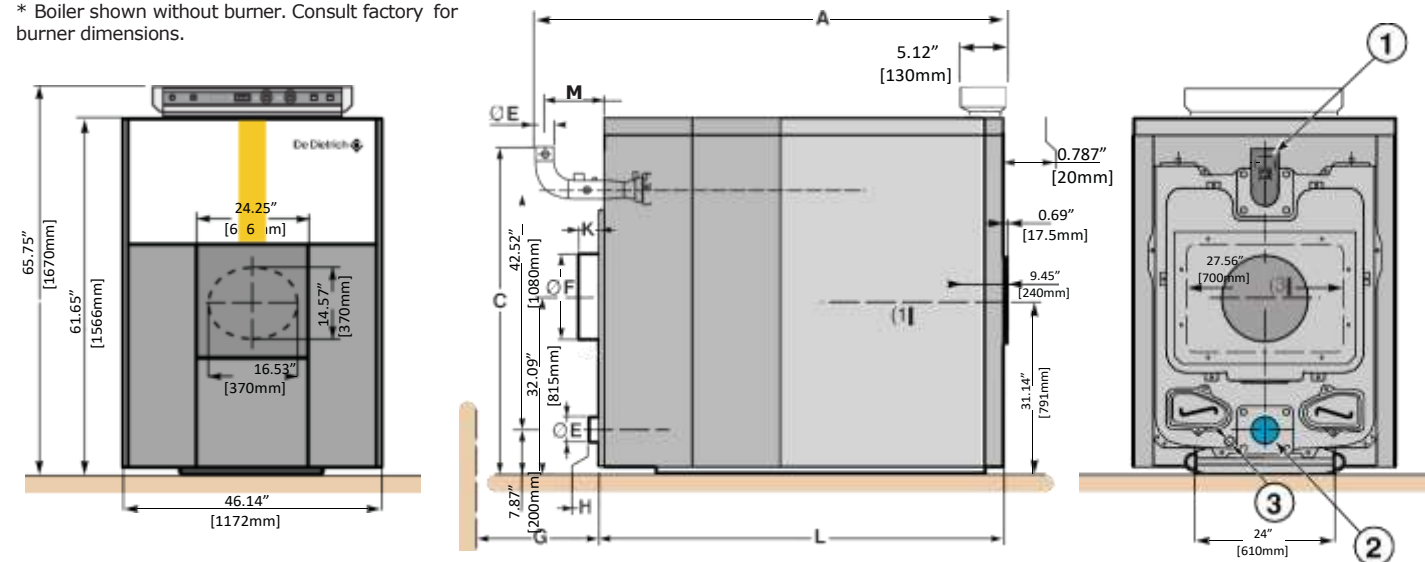


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De Dietrich
BOILERS

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* Boiler shown without burner. Consult factory for burner dimensions.



Side mounted version

Comes with stand
□ Piping and vent material supplied by others

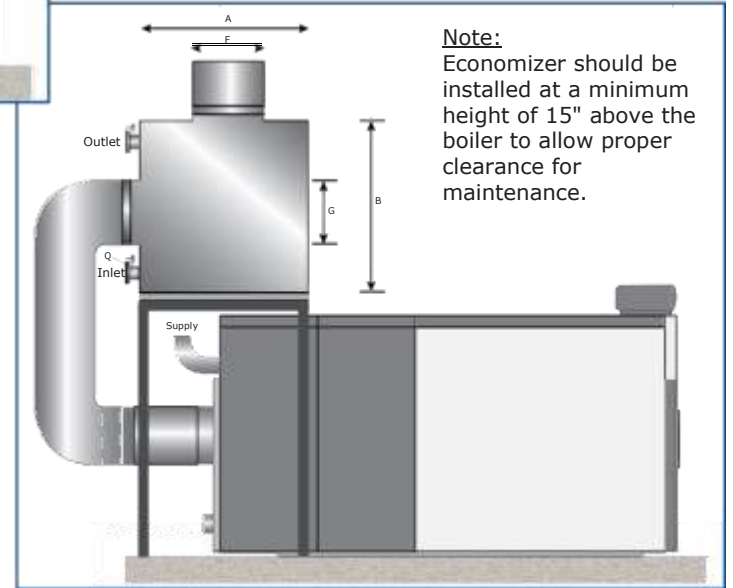
Note:

□ Economizer water inlet and outlet size is based on a 20% nominal flow by-pass to the economizer.

Top mounted version

Optional stand

□ Piping and vent material supplied by others



Note:

Economizer should be installed at a minimum height of 15" above the boiler to allow proper clearance for maintenance.

Consult factory for economizer piping details

	GT 530A										GT 530AE									
	-15	-16	-17	-18	-19	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29	-30	-31	-32		
A	98.19/2,494	102.56/2,605	106.93/2,716	112.68/2,862	117.05/2,973	122.99/3,124	127.36/3,235	131.73/3,346	136.1/3,457	140.47/3,568	144.84/3,679	164.4/4,177	164.9/4,189	169.3/4,300	173.7/4,411	178.1/4,523	182.4/4,634	186.9/4,746		
C	58.58/1,488	58.58/1,488	58.58/1,488	59.2/1,504	59.2/1,504	59.2/1,504	59.2/1,504	59.2/1,504	59.2/1,504	59.2/1,504	59.2/1,504	65.0/1,650	65.0/1,650	65.0/1,650	65.0/1,650	65.0/1,650	65.0/1,650	65.0/1,650		
OE	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7	5.5/139.7		
OF*	15.75/400	15.75/400	15.75/400	15.75/400	15.75/400	15.75/400	18/450	18/450	18/450	18/450	18/450	20.0/500	20.0/500	20.0/500	20.0/500	20.0/500	20.0/500	20.0/500		
G*	5.9/150	5.9/150	14.57/370	14.57/370	14.57/370	25.59/650	25.59/650	25.59/650	38.58/980	38.58/980	38.58/980	41.6/1,056	41.6/1,056	41.6/1,056	41.6/1,056	41.6/1,056	41.6/1,056	41.6/1,056		
H	-1.22/-31	-1.18/-30	-0.354/-9	-0.315/-8	0.512/13	-1.417/-36	-1.378/-35	-0.551/-14	-0.512/-13	0.315/8	0.354/9	1.811/46	1.850/47	-1.653/-42	-0.826/-21	-0.826/-21	0.196/5	0.196/5		
K*	-0.748/-19	-0.709/-18	0.118/3	0.157/4	0.984/25	-0.945/-24	-0.905/-23	-0.0787/-2	-0.0394/-1	0.787/20	0.827/21	2.598/66	2.638/67	-0.866/-22	-0.04/-1	-0.04/-1	0.984/25	0.984/25		
L	88.39/2,245	92.72/2,355	96.26/2,445	100.59/2,555	104.13/2,645	112.01/2,845	116.34/2,955	119.88/3,045	124.21/3,155	127.76/3,245	132.09/3,355	135.62/3,445	139.96/3,555	147.8/3,755	151.37/3,845	155.7/3,955	159.25/4,045	163.58/4,155		
M	16.09/408	16.13/410	16.96/430	16.97/431	17.84/453	15.90/403	15.95/405	16.73/425	16.8/428	17.62/448	17.67/449	19.53/496	19.56/497	16.06/408	16.88/429	16.93/430	17.71/451	17.79/452		

- Boiler supply, 5" ANSI 150# welded neck flange
 - Boiler return, 5" ANSI 150# welded neck flange
 - Drain, 3/4" NPT
- Note:**
Add 84"/2,134 mm to the length for the Ener-O-Mizer.
E*-OD
F*- Nominal length. Consult vent supplier for correct sizing. G*- Length required for clearing the water distributing tube. K*- Dimension representing the end of the 4"/100mm long chimney connection.

Notes:

- All models are design certified & eligible to bear approval marking as shown
- CSA - MBH output based on thermal efficiency ANSI Z21.13/CSA 4.9 latest standard
- All models comply and are certified in accordance to the latest Canadian & US standards
- Boiler limits sensing location measuring internal mixed boiler water temperature, actual boiler supply temperature will be less - approximately 18°F/10°C
- All conditions and specifications designed around 80°F/26.6°C return temperature
- All models certified: #2 oil, Natural & Propane gases. Consult factory for available burners.
- CRN design registration for each Canadian province.
- Flow rates shown are nominal, flow shall range from 1/3 to 3 times nominal values - max delta T = 89°F/45°C.

Item	Unit	GT 530A with Ener-O-Mizer										GT 530AE with Ener-O-Mizer							
		-15	-16	-17	-18	-19	-20	-21	-22	-23	-24	-25	-26	-27	-28	-29	-30	-31	-32
Gas Input (CSA)	MBH/kW	3,749/1,099	3,986/1,162	4,254/1,247	4,470/1,310	4,759/1,395	4,975/1,458	5,191/1,521	5,480/1,606	5,696/1,669	5,984/1,754	6,201/1,817	6,483/1,900	6,652/1,950	6,825/2,000	7,166/2,100	7,505/2,200	7,849/2,300	8,190/2,400
#2 Fuel Oil Input (CSA)	US GPH	26.00	27.50	29.50	31.00	33.00	34.50	36.00	38.00	39.50	41.50	43.00	43.8	45.8	47.7	49.7	51.6	53.6	55.5
CSA Output (Gas)	MBH/kW	3,618/1,060	3,827/1,122	4,105/1,203	4,314/1,264	4,592/1,346	4,801/1,407	5,010/1,468	5,288/1,550	5,497/1,611	5,775/1,693	5,984/1,754	6,256/1,834	6,419/1,881	6,586/1,930	6,915/2,027	7,242/2,123	7,574/2,220	7,903/2,316
-CSA Output (Oil)	MBH	3,422	3,619	3,882	4,080	4,343	4,540	4,738	5,001	5,198	5,461	5,659	5,764	6,027	6,277	6,541	6,791	7,054	7,304
-Cast iron sections	#	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Combined Water Flow Rate = gpm	@ 20°F GPM	346	385	413	434	462	483	504	532	553	581	602	704	722.4	741.2	778.2	815	852.4	889.4
	@ 30°F GPM	243	257	275	289	308	322	336	355	369	387	401	469.4	481.6	494.1	518.8	543.3	568.2	592.9
	@ 40°F GPM	182	193	207	217	231	241	252	266	276	290	301	352	361.2	370.6	389.1	407.5	426.2	444.7
ASME MAWP (Water)	PSIG	Boiler 90 psig - GT Plus Ener-O-Mizer 160 psig																	
Min. Safety Relief Capacity(Combined)	PSIG	3,980	4,209	4,516	4,745	5,051	5,281	5,510	5,817	6,046	6,352	6,582	6,882	7,061	7,245	7,607	7,967	8,332	8,694
Electrical Connection	V/P/H	Boiler 120/1/60 < 10A (Resettable fuse) - GT Plus Ener-O-Mizer 120/1/60 < 10A																	
Max. Water Temperature Safety Limit (MR)	°F/°C	Boiler 248/120 - GT Plus Ener-O-Mizer 210/99																	
Water operating temperature range	°F/°C	Boiler 104°F - 212°F/40°C - 100°C factory preset to stop at 185/85 (CM21 high temperature kit available), GT Plus Ener-O-Mizer Not required (Optional)																	
Gas-Vent Category	#	II, IV & Direct Vent (sealed combustion air)																	
Boiler Vent Connection	Inch	16	16	16	16	16	16	16	18	18	18	18	20	20	20	20	20	20	20
Ener-O-Mizer Vent Connection	Inch	18	18	18	18	18	18	18	18	18	18	18	20	20	20	20	20	20	20
Combined Weight (Dry)	lb	8,716	9,151	9,580	10,019	10,392	10,875	11,304	11,737	12,169	12,559	12,978	13,411	13,801	14,191	14,581	14,971	15,361	15,751
	kg	3,954	4,151	4,345	4,545	4,714	4,933	5,127	5,324	5,520	5,697	5,887	6,083	6,260	6,437	6,614	6,791	6,968	7,145

Due to ongoing and continuous product improvements, DDR Americas Inc. reserves all rights to amend and delete information provided on this product specification table.

Patent Pending

Ener-O-Mizer	Unit	ENM-4	ENM-6	ENM-7	ENM-8
Range	MBTU	3-4.2	4.2-6.2	6.2-7.2	7.2-8
Length	A (inch/mm)	32/813	42/1,066	49/1,245	52/1,321
Height	B (inch/mm)	47/1,168	47/1,168	51/1,295	51/1,295
Width	C (inch/mm)	48/1,219	48/1,219	52/1,321	52/1,321
Stand Height (floor to top of base)	D (inch/mm)	79/2006	79/2006	79/2006	79/2006
Distance Between Floor Stand Legs (inside dimension)	D2 (inch/mm)	50/1,270	54/1,372	54/1,372	54/1,372
Distance from Leg to Leg on Length (outside dimension)	D3 (inch/mm)	29/737	37/940	45/1,143	45/1,143
Stack Collar Height	E (inch/mm)	3/76	3/76	3/76	3/76
Flue Outlet Diameter (Nominal length. Consult vent supplier for correct sizing.)	F (inch/mm)	18/450	20/500	22/559	22/559
Flue Inlet Diameter (Nominal length. Consult vent supplier for correct sizing.)	G (inch/mm)	18/450	18/450	20/500	20/500
Min. House Keeping Pad Width	P (inch/mm)	62/1,575	66/1,676	66/1,676	66/1,676
Inlet/Outlet Pipe Size	Q (inch/mm)	3" NPT/76	3" NPT/76	4" flange/102	4" flange/102
Dry Weight (including legs)	Lbs/Kg	1,400/635	1,520/690	1,600/725	1,760/800
Water Content	Gallons/L	36/136	42/158	56/212	60/227