

GT 530A/AE

De Dietrich  **As the Boiler Should Be!!!**

High Performance Low-Temperature Return Eutectic Cast Iron Boilers

Low Return Water Capability Maximizes Energy Savings

The GT 530A/AE Series is an eutectic cast iron 4-pass, high efficiency, large net output, low operating temperature, designed boiler. These boilers are specifically designed for oil/gas/propane firing.

The GT 530A/AE is equipped with a service friendly control panel with built-in ON/OFF limit, high limit, manual reset limit and a temperature gauge.

The GT 530A/AE is a Four Pass Design with a generous combustion chamber and horizontal flue passes with fins. The heat transfer is enhanced by the fins and eutectic cast iron baffles. This body design assures:

- Efficiency up to 87.8%
- 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 the 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. Doors 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 control panel supplied is designed for heating applications. 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

- Eutectic Cast Iron Nipples
- Built-in High Limit with Manual Reset
- Thermocord Combustion Seal
- CSA/CSD-1 Compliant Controls and accessories
- 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 530A/AE



**Innovative Design
For Better Fuel
Efficiency**



**A Symbol of Quality
Engineering For Over
Three Centuries**



- CSA certified up to 85.2% Efficiency on Natural Gas and 87.8% on #2 Fuel Oil
- Near Condensing Eutectic Cast Iron Boiler
- 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.

www.dedietrichboilers.com

DDR Americas Inc.

1-519-650-0420

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THINK BOILERS... THINK

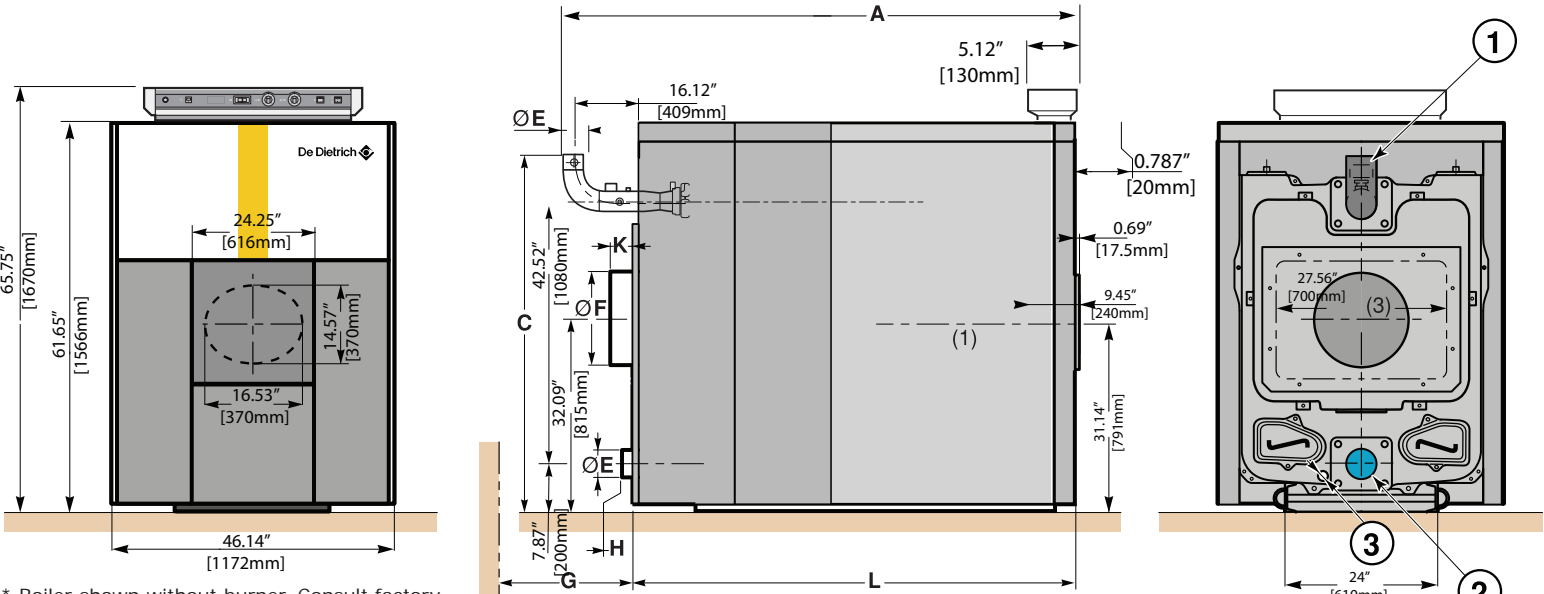
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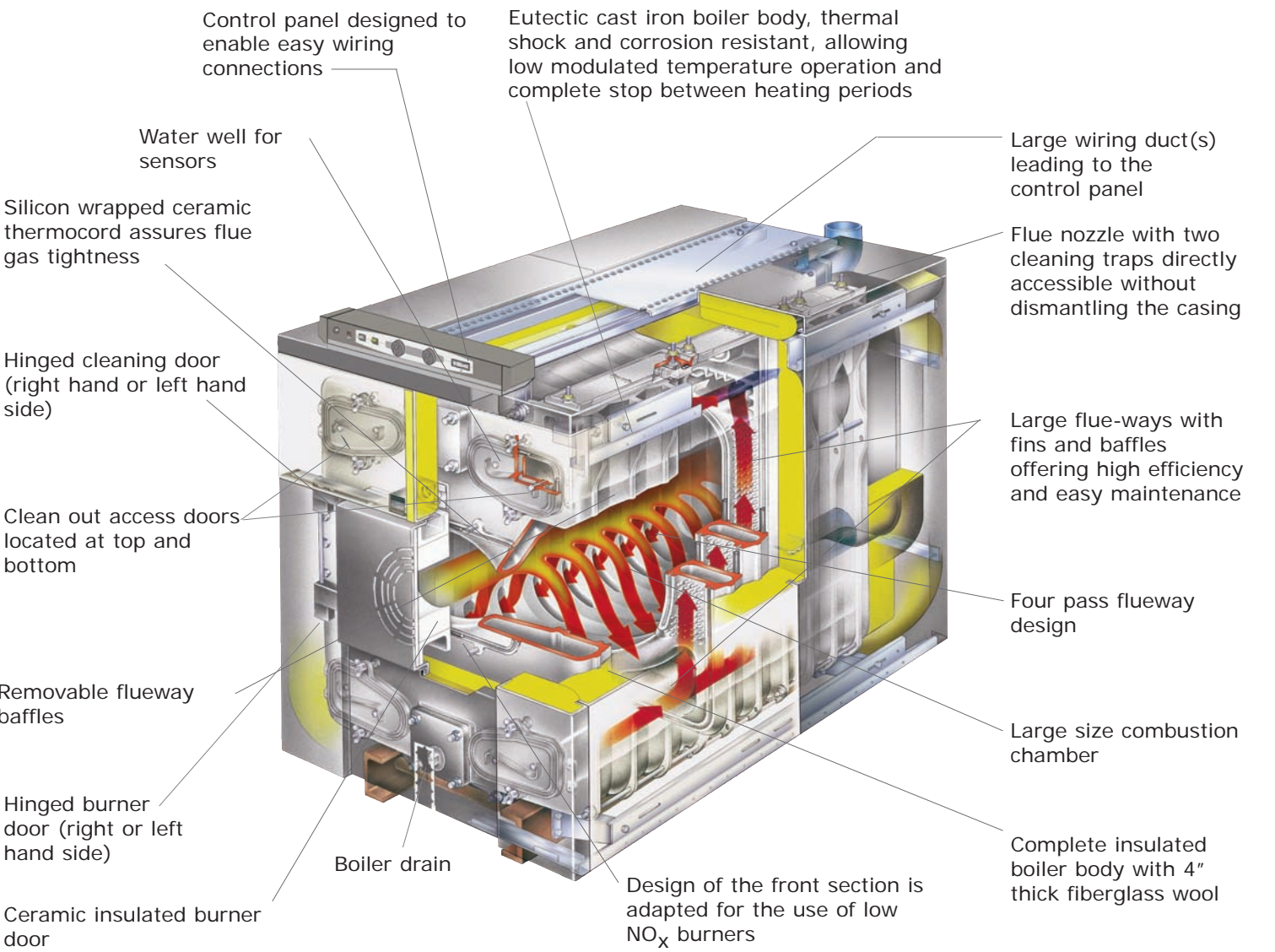


* Boiler shown without burner. Consult factory for burner dimensions.

	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		
ØE	5.5/139.7	5.5/139.7	5.5/139.7	6.26/159	6.26/159	6.26/159	6.26/159	6.26/159	6.26/159	6.26/159	6.26/159	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		
ØF*	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	0.4/10	1.3/33	8.7/221	2.2/56	4.3/110	3.1/80	3.2/82		
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	0.827/21	0.827/21	0.827/21	0.827/21	0.827/21	0.827/21	0.827/21		
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	138.8/3,525	142.3/3,614	146.6/3,724	150.2/3,814	154.5/3,924	158.0/4,014	162.4/4,124		

Boiler supply, 5" ANSI 150# welded neck flange
Boiler return, 5" ANSI 150# welded neck flange
Drain, 3/4" NPT

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.



	Unit	GT 530A										GT 530AE							
		-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	43.80	45.80	47.70	49.70	51.60	53.60	55.50
CSA Output (Gas/Oil)	MBH/kW	3,194/936.2	3,379/990.2	3,624/1,062.2	3,809/1,116.2	4,054/1,188.3	4,239/1,242.3	4,423/1,296.3	4,669/1,368.3	4,853/1,422.3	5,099/1,494.3	5,283/1,548.3	5,524/1,618.8	5,668/1,661.1	5,815/1,704.2	6,105/1,789.4	6,394/1,874.1	6,687/1,959.9	6,978/2,045.1
Thermal Efficiency	%	Gas 85.2%/Oil 88.2%																	
Cast iron sections	#	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Water Resistance Delta T = (°F)	18°F Ft H ₂ O	3.28	1.09	1.28	1.45	1.75	2.0	2.21	2.48	2.70	3.01	3.27	3.48	3.67	3.86	4.26	4.67	5.1	5.56
	27°F Ft H ₂ O	1.46	0.48	0.57	0.64	0.78	0.89	0.98	1.10	1.20	1.34	1.45	1.55	1.63	1.72	1.9	2.07	2.27	2.5
	36°F Ft H ₂ O	0.82	0.27	0.32	0.36	0.44	0.50	0.55	0.62	0.68	0.75	0.82	0.87	0.92	0.97	1.06	1.17	1.28	1.39
ASME MAWP (Water)	PSIG	90 psig																	
Min. Safety Relief Capacity	PSIG	3,513	3,717	3,986	4,190	4,459	4,663	4,865	5,136	5,338	5,609	5,811	6,076	6,234	6,396	6,716	7,034	7,356	7,676
Electrical Connection	V/P/H	120/1/60 < 15A fuse																	
Max. Water Temperature Safety Limit (MR)	°F/°C	Fixed non-adjustable 248/120																	
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)																	
Gas-Vent Category	#	Category I, II, III, 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
Weight (Dry)	lb	7,416	7,851	8,280	8,719	9,092	9,575	10,004	10,437	10,869	11,259	11,678	12,111	12,501	12,891	13,281	13,671	14,061	14,451
	kg	3,364	3,561	3,756	3,955	4,124	4,343	4,538	4,734	4,930	5,107	5,297	5,494	5,670	5,847	6,024	6,201	6,378	6,555

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

- 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.