

# GT 530 A

High Performance Low-Temperature Return Eutectic Cast Iron Boilers

## Low Return Water Capability Maximizes Energy Savings

The GT 530 A Series is a 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 530 A is equipped with a simplified control panel with built-in on/off limit, high limit, manual reset limit and temperature gauge.

**The GT 530 A 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 88%
- Low 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 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

- Eutectic Cast Iron Nipples
- Built-in High Limit with Manual Reset
- Thermocord Combustion Sealed
- On/Off Limit
- Temperature Indicator
- ASME Relief Valve
- Low Water Cut-Off
- Low NOx Burners (optional)
- Factory Assembly (optional)

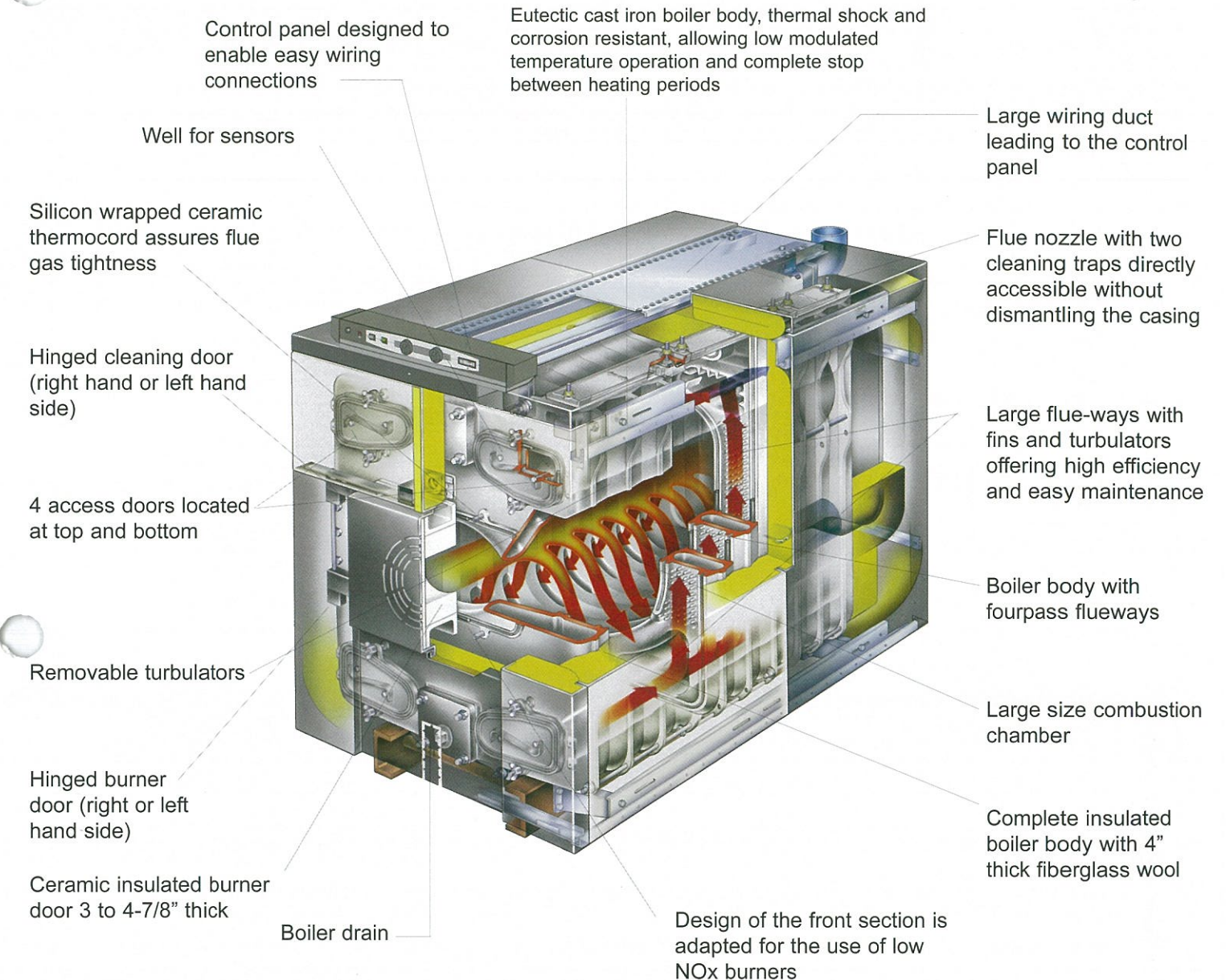
*Consult your local De Dietrich representative for a list of available burners.*

**THINK BOILERS... THINK**

**De Dietrich**  
BOILERS

# GT 530 A

High Performance Low-Temperature Return Eutectic Cast Iron Boilers



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BOILERS

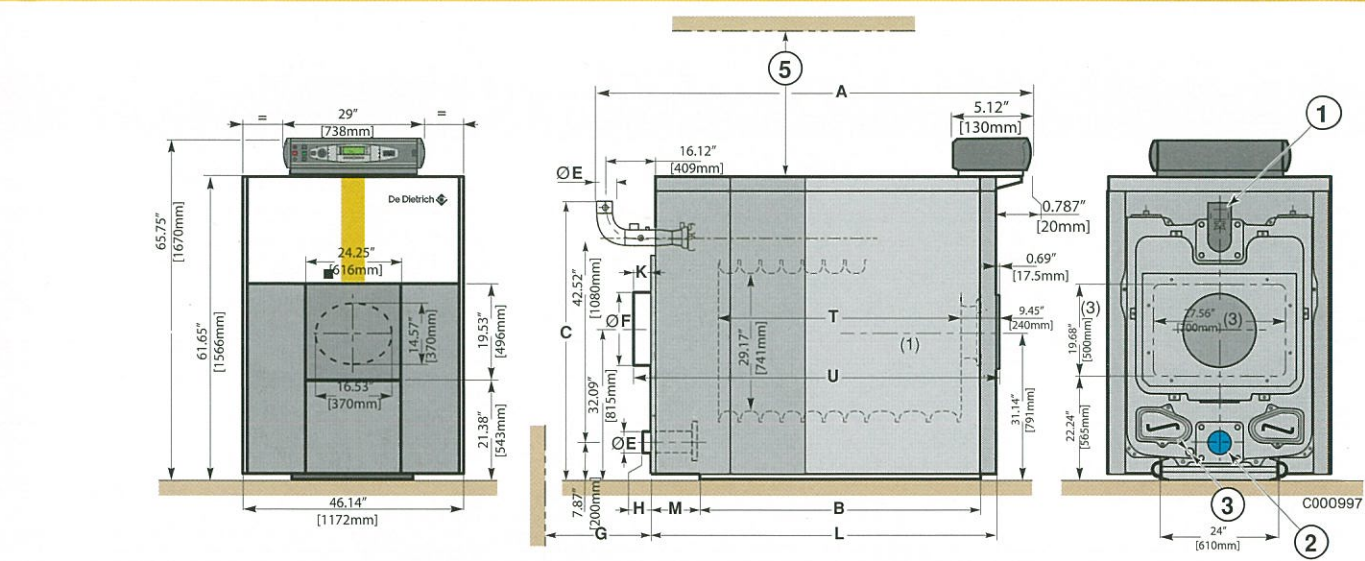
**As the Boiler Should Be!!!**

**Setting the Benchmark for Low-Temperature Near-Condensing Eutectic Cast Iron Boilers**

MEA 304-06-M (City of New York)







	GT 530-15A	GT 530-16A	GT 530-17A	GT 530-18A	GT 530-19A	GT 530-20A	GT 530-21A	GT 530-22A	GT 530-23A	GT 530-24A	GT 530-25A
A	98.19 [2494]	102.56 [2605]	106.93 [2716]	112.68 [2862]	117.05 [2973]	122.99 [3124]	127.36 [3235]	131.73 [3346]	136.1 [3457]	140.47 [3568]	144.84 [3679]
B	68.66 [1744]	77.4 [1966]	77.4 [1966]	86.14 [2188]	86.14 [2188]	96.46 [2450]	96.46 [2450]	105.2 [2672]	105.2 [2672]	113.94 [2894]	113.94 [2894]
C	58.58 [1488]	58.58 [1488]	58.58 [1488]	58.58 [1488]	59.2 [1504]	59.2 [1504]	59.2 [1504]	59.2 [1504]	59.2 [1504]	59.2 [1504]	59.2 [1504]
D	7.40 [188]	7.44 [189]	8.27 [210]	9.29 [236]	10.12 [257]	8.19 [208]	8.23 [209]	9.055 [230]	9.0945 [231]	9.92 [252]	9.96 [253]
OE	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]
OF	15.75 [400]	15.75 [400]	15.75 [400]	15.75 [400]	15.75 [400]	15.75 [400]	15.75 [400]	15.75 [400]	15.75 [400]	15.75 [400]	15.75 [400]
G**	5.9 [150]	5.9 [150]	14.57 [370]	14.57 [370]	14.57 [370]	25.59 [650]	25.59 [650]	38.58 [980]	38.58 [980]	38.58 [980]	38.58 [980]
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]
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]
L	88.39 [2245]	92.72 [2355]	96.26 [2445]	100.59 [2555]	104.13 [2645]	112.01 [2845]	116.34 [2955]	119.88 [3045]	124.21 [3155]	127.76 [3245]	132.09 [3355]
M	12.756 [324]	10.591 [269]	12.638 [321]	10.433 [265]	11.772 [299]	10.591 [269]	12.756 [324]	10.591 [269]	12.756 [324]	9.803 [249]	11.929 [303]
T	62.76 [1594]	67.13 [1705]	71.5 [1816]	75.87 [1927]	80.24 [2038]	86.18 [2189]	90.55 [2300]	94.92 [2411]	99.29 [2522]	103.66 [2633]	108.03 [2744]
U	88.31 [2243]	92.7 [2354]	97.05 [2465]	101.42 [2576]	105.79 [2687]	111.73 [2838]	116.1 [2949]	120.47 [3060]	124.84 [3171]	129.21 [3282]	133.58 [3393]

\* Plain plate, requires cutting. Maximum cut-out 19.68x27.56" [500x700]  
 \*\* G= Length required for clearing the water distributing tube  
 \*\*\* Dimension representing the end of the 4" [100] long chimney connection

Notes:  
 1. Heating outlet - Ø E (weld)  
 2. Heating return - Ø E (weld)  
 3. Draining Mk ¾"  
 4. Flowrate detector  
 5. Minimum height for sweeping = 33.465" [850]  
 (1) Burner centre line  
 (2) Max.

		Model										
Item	Unit	GT 530-15A	GT 530-16A	GT 530-17A	GT 530-18A	GT 530-19A	GT 530-20A	GT 530-21A	GT 530-22A	GT 530-23A	GT 530-24A	GT 530-25A
CSA - Gas Input	MBH	3,749	3,966	4,254	4,470	4,759	4,975	5,191	5,480	5,696	5,984	6,201
	Kw	1,099	1,162	1,247	1,310	1,395	1,458	1,521	1,606	1,669	1,754	1,817
CSA - #2 Fuel Oil Input	US/GPH	26	27.5	29.5	31	33	34.5	36	38	39.5	41.5	43
CSA - Output [Gas-Oil]	MBH	3,194	3,379	3,624	3,809	4,054	4,239	4,423	4,669	4,853	5,099	5,283
	Kw	936.2	990.2	1062.2	1116.2	1188.3	1242.3	1286.3	1368.3	1422.3	1494.3	1548.3
Cast Iron Sections	#	15	16	17	18	19	20	21	22	23	24	25
Water Resistance Delta T=(°F)	18 (°F) Ft Water	3.277	1.085	1.279	1.446	1.753	1.999	2.209	2.476	2.703	3.014	3.269
	27 (°F) Ft Water	1.456	0.483	0.569	0.643	0.779	0.889	0.982	1.101	1.201	1.339	1.452
	36 (°F) Ft Water	0.819	0.271	0.200	0.361	0.438	0.500	0.552	0.619	0.676	0.753	0.817
MAWP [Water]	PSI	ASME IV Rating Class 30 - (90 psi)										
S3NA Panel	Electrical Connection	V/P/H										
	Max. Water Temp.	120/1/60										
	Safety Limit [MR]	248										
		120										
	Water operating Temp. Range	104 - 212										
	(°C)	40 - 100										
Gas-vent category	#	I, II, III or IV										
Boiler-vent connection	inch	16	16	16	16	16	16	16	18	18	18	18
Boiler 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
	Kg	3,364	3,561	3,756	3,955	4,124	4,343	4,538	4,734	4,930	5,107	5,297

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:  
 - Approved for direct-vent applications - use only approved venting components as listed  
 - Natural draft applications, approved for Type L vent [Gas-Oil] or Type B Vent [Gas only]  
 - All model comply with latest Canadian & USA standards  
 - Outputs are rounded off. 85.2% efficiency is the published efficiency (oil is +3%)

**DDR Americas Inc.**  
 Toll Free: (800) 943-6275  
[www.dedietrichboilers.com](http://www.dedietrichboilers.com)

Represented By:

# EUTECTIC CAST IRON BOILERS

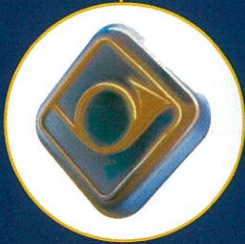
COMMERCIAL AND INSTITUTIONAL

## GT 530 A

Innovative Design  
 For Better Fuel  
 Efficiency



A Symbol of Quality  
 Engineering For Over  
 Three Centuries



- 88%+ Efficiency
- Near Condensing Eutectic Cast Iron - Water Temperature Supply @ 105°F
- Operates under large Temperature Differentials - Up to 81°F without Thermal Shock
- Low NOx Compatibility
- Maximum Working Pressure 90 p.s.i.

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