

# GT 430 A

High Performance Low-Temperature Return Eutectic Cast Iron Boilers

## Low Return Water Capability Maximizes Energy Savings

The GT 430 A Series is a eutectic cast iron 3-pass, high efficiency, large net output, low operating temperature, designed boiler. These boilers are specifically designed for oil / gas / propane firing.

The GT 430 A is equipped with a simplified control panel with built-in on/off limit, high limit, manual reset limit and temperature gauge.

**The GT 430 A is a Three Pass Design** with a generous combustion chamber and horizontal flue passes with fins. The heat transfer is enhanced by the fins and 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 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

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



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

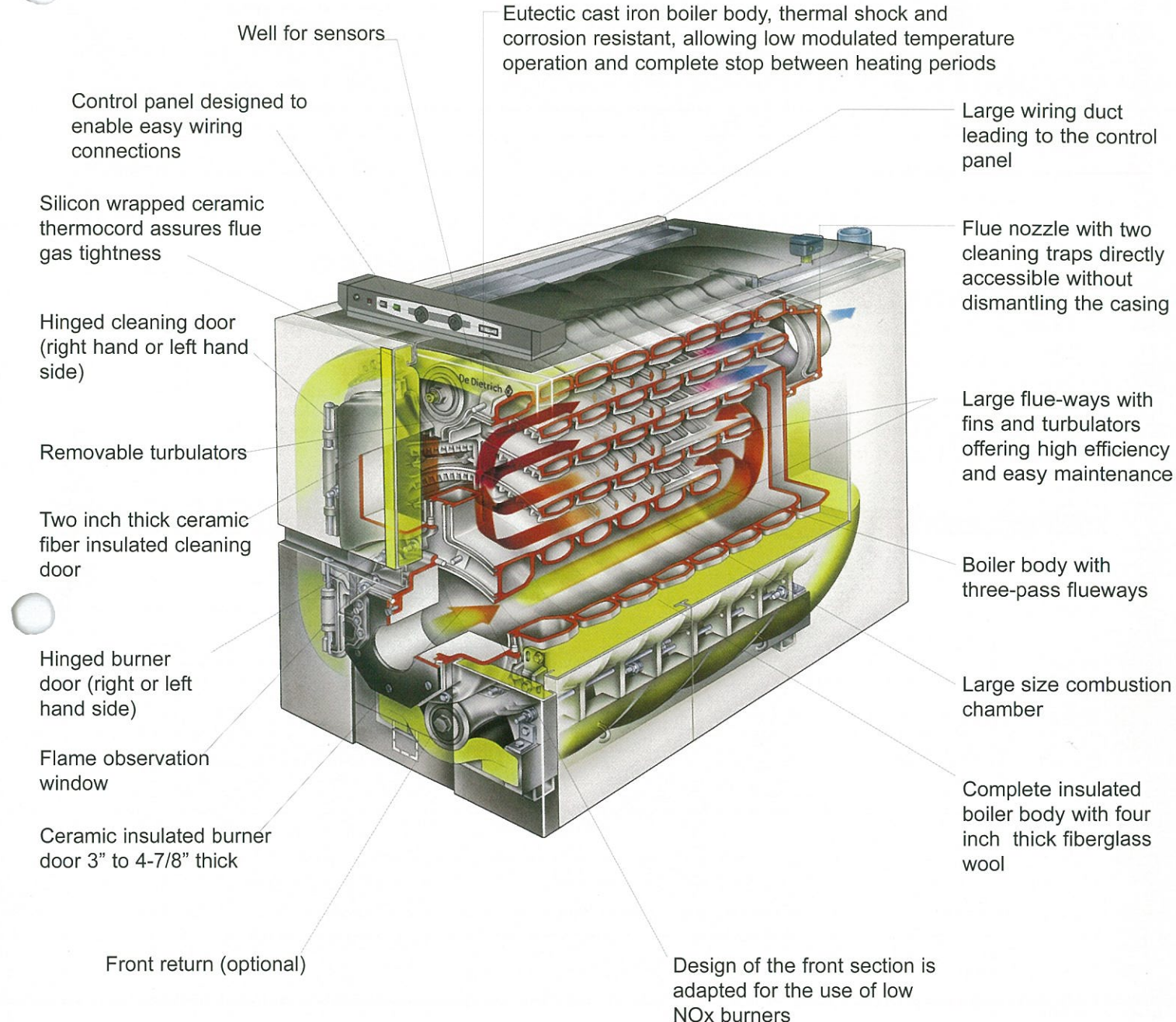


Flexible eutectic cast allows 105°F supply water capability. This low temperature operation yields significant fuel savings.



# GT 430 A

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**De Dietrich**  
BOILERS

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

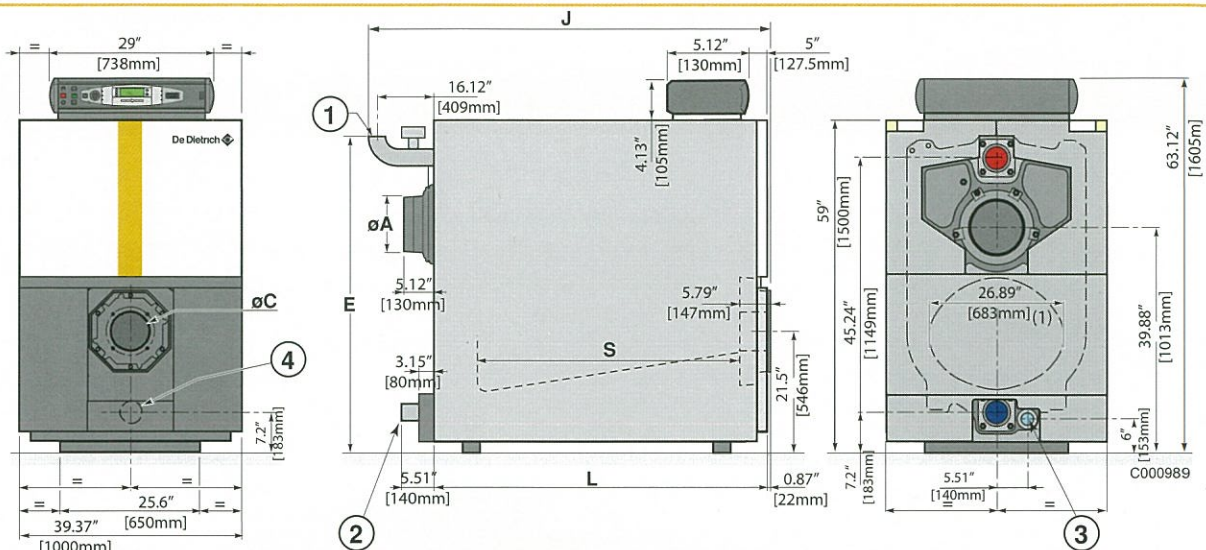
**Setting the Benchmark for Low-Temperature Near-Condensing Eutectic Cast Iron Boilers**

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

THINK BOILERS... THINK

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	GT 430-8A	GT 430-9A	GT 430-10A	GT 430-11A	GT 430-12A	GT 430-13A	GT 430-14A
ØA	9.8 [250]	9.8 [250]	9.8 [250]	11.8 [300]	11.8 [300]	11.8 [300]	11.8 [300]
ØC	plate intact or pre-drilled to the diameter specified on order						
D	9.25 [235]	9.25 [235]	9.25 [235]	10 [254]	10 [254]	10 [254]	10 [254]
E	56.2 [1427]	56.2 [1427]	56.2 [1427]	57 [1447]	57 [1447]	57 [1447]	57 [1447]
J	70.9 [1800]	77.2 [1960]	83.5 [2120]	90.75 [2305]	97 [2465]	103.35 [2625]	109.65 [2785]
L	59.25 [1505]	65.55 [1665]	71.85 [1825]	78.15 [1985]	84.45 [2145]	90.75 [2305]	97.05 [2465]
S	46.6 [1183]	52.9 [1343]	59.2 [1503]	65.5 [1663]	71.8 [1823]	78.1 [1983]	84.4 [2143]

1. Heating outlet - weld 3"
2. Heating return - weld 3"
3. Rp 2" draining outlet
4. Sludge removal hole Ø Rp 2.5" - plugged

(1) inscribed diameter:  
- front section 17.9" [455]  
- intermediate section 20.9" [530]  
Equivalent diameter: 22.5" [573]

			Model						
Item		Unit	GT 430-8A	GT 430-9A	GT 430-10A	GT 430-11A	GT 430-12A	GT 430-13A	GT 430-14A
CSA - Gas Input		MBH	1,730	1,947	2,278	2,567	2,826	3,100	3,389
		Kw	507.2	570.5	667.7	752.3	828.3	908.6	993.2
CSA - #2 Fuel Oil Input		US/GPH	12	13.5	15.8	17.8	19.6	21.5	23.5
CSA - Output [Gas-Oil]		MBH	1,474	1,659	1,941	2,187	2,408	2,641	2,887
		Kw	432.1	486.1	568.9	640.9	705.8	774.2	846.2
Cast Iron Sections		#	8	9	10	11	12	13	14
Water Resistance Delta T=(°F)	18 (°F)	Ft Water	1.360	2.040	3.232	4.095	5.241	6.630	8.312
	27 (°F)	Ft Water	0.605	0.907	1.437	1.824	2.331	2.977	3.694
	36 (°F)	Ft Water	0.340	0.510	0.808	1.025	1.310	1.658	2.079
MAWP [Water]		PSI	ASME IV Rating Class 30 - (90 psi)						
S3NA Panel	Electrical Connection	V/P/H	120/1/60						
	Max. Water Temp. Safety Limit [MR]	(°F)	248						
		(°C)	120						
	Water operating Temp. Range	(°F)	104 - 212						
		(°C)	40 - 100						
Gas-vent category		#	I, II, III or IV						
Boiler-vent connection		inch	10	10	10	12	12	12	12
Boiler weight [dry]		LB	3,241	3,638	4,034	4,431	4,828	5,225	5,622
		Kg	1,470	1,650	1,830	2,010	2,190	2,370	2,550

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:

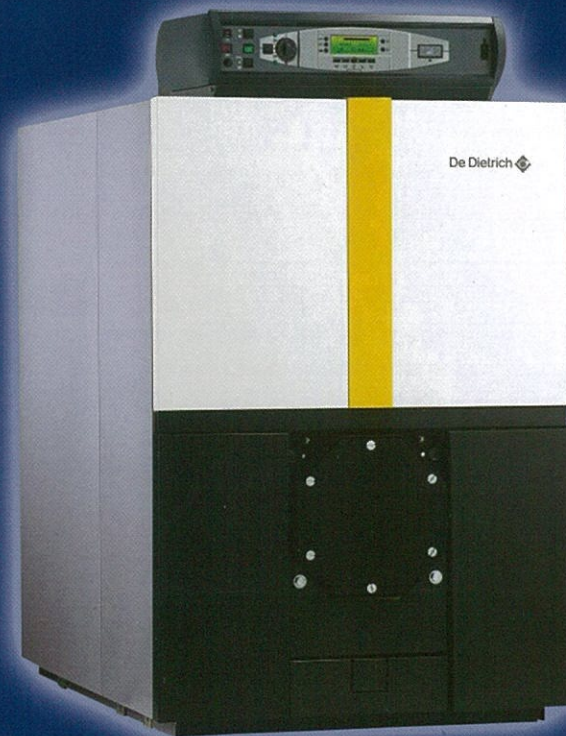
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BOILERS

# EUTECTIC CAST IRON BOILERS

COMMERCIAL AND INSTITUTIONAL

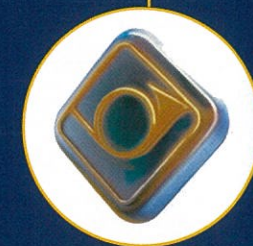
## GT 430 A



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.

[www.dedietrichboilers.com](http://www.dedietrichboilers.com)

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