

EUTECTIC CAST IRON BOILERS

COMMERCIAL AND INSTITUTIONAL

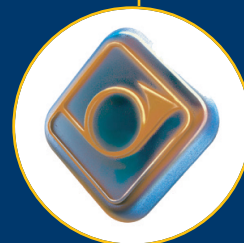
GT 430 A



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

De Dietrich
B O I L E R S



GT 430 A

High Performance Low-Temperature Return Eutectic Cast Iron Boilers

Low Return Water Capability Maximizes Energy Savings

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.



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)

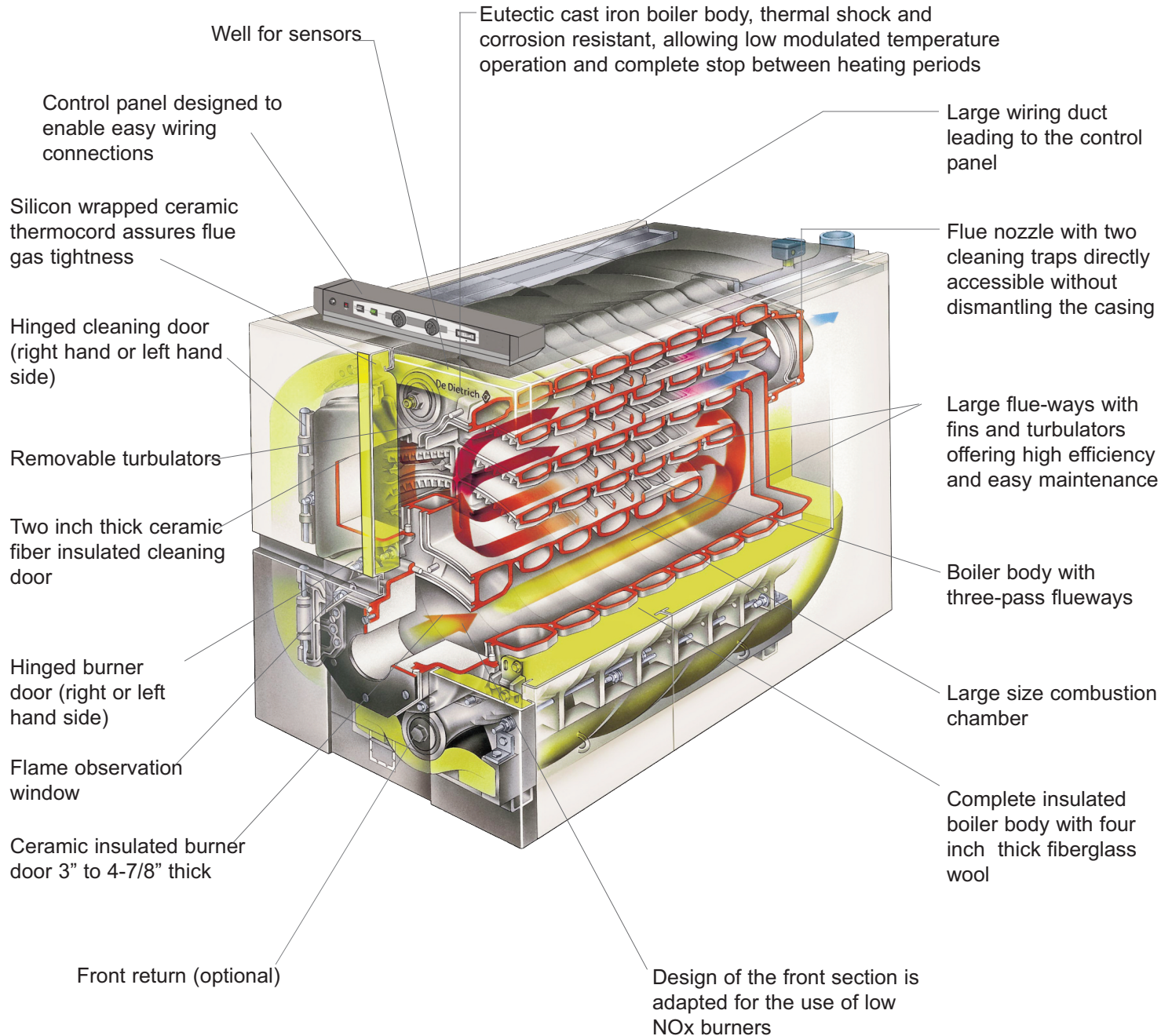
Consult your local De Dietrich representative for a list of available burners

THINK BOILERS... THINK

De Dietrich
B O I L E R S

GT 430 A

High Performance Low-Temperature Return Eutectic Cast Iron Boilers



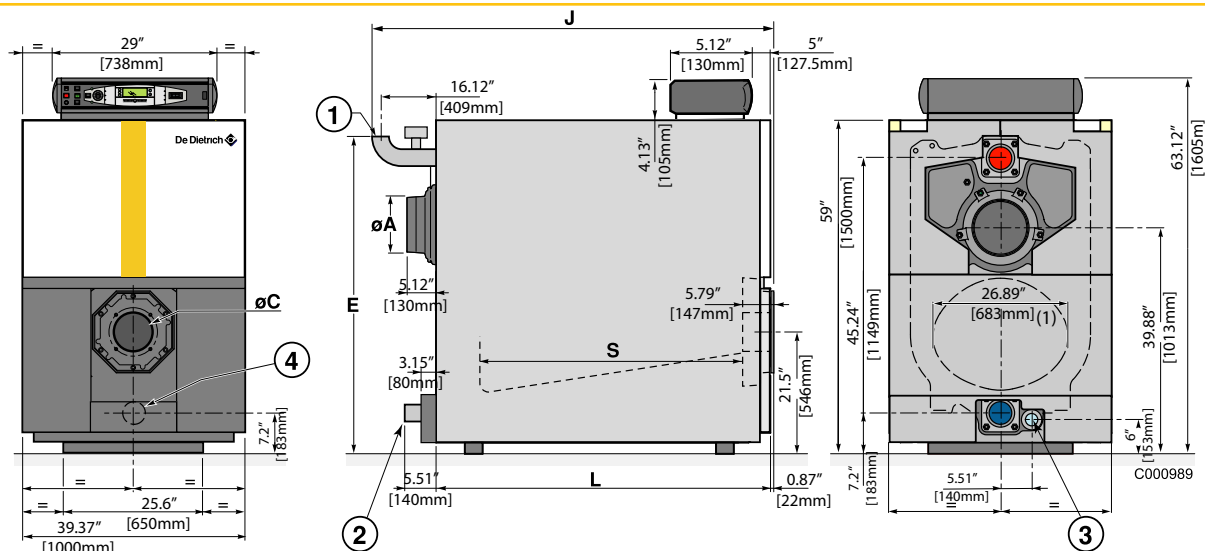
De Dietrich
BOILERS

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)





| | 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.

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www.dedietrichboilers.com

Represented By:

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