

# EUTECTIC CAST IRON BOILERS

COMMERCIAL AND INSTITUTIONAL

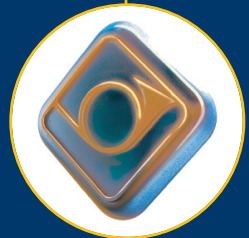
## GT 220 A



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 @ 86°F
- Operates under large Temperature Differentials - Up to 81°F without Thermal Shock
- Low NOx Compatibility
- Maximum Working Pressure at 60 p.s.i.

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

**De Dietrich**   
**B O I L E R S**

# GT 220 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 85 degree (F) supply water capability. This low temperature operation yields significant fuel savings



The GT 220 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 220 A is equipped with a simplified control panel with built-in on/off limit, manual reset limit and temperature gauge.

**The GT 220 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 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 85°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 applications. The panel is equipped with a boiler thermometer, on/off limit and manual reset limit. The large size permits it to be integrated easily with third party energy management systems. Optional equipment for DHW production and outdoor reset is available.

#### 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)

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

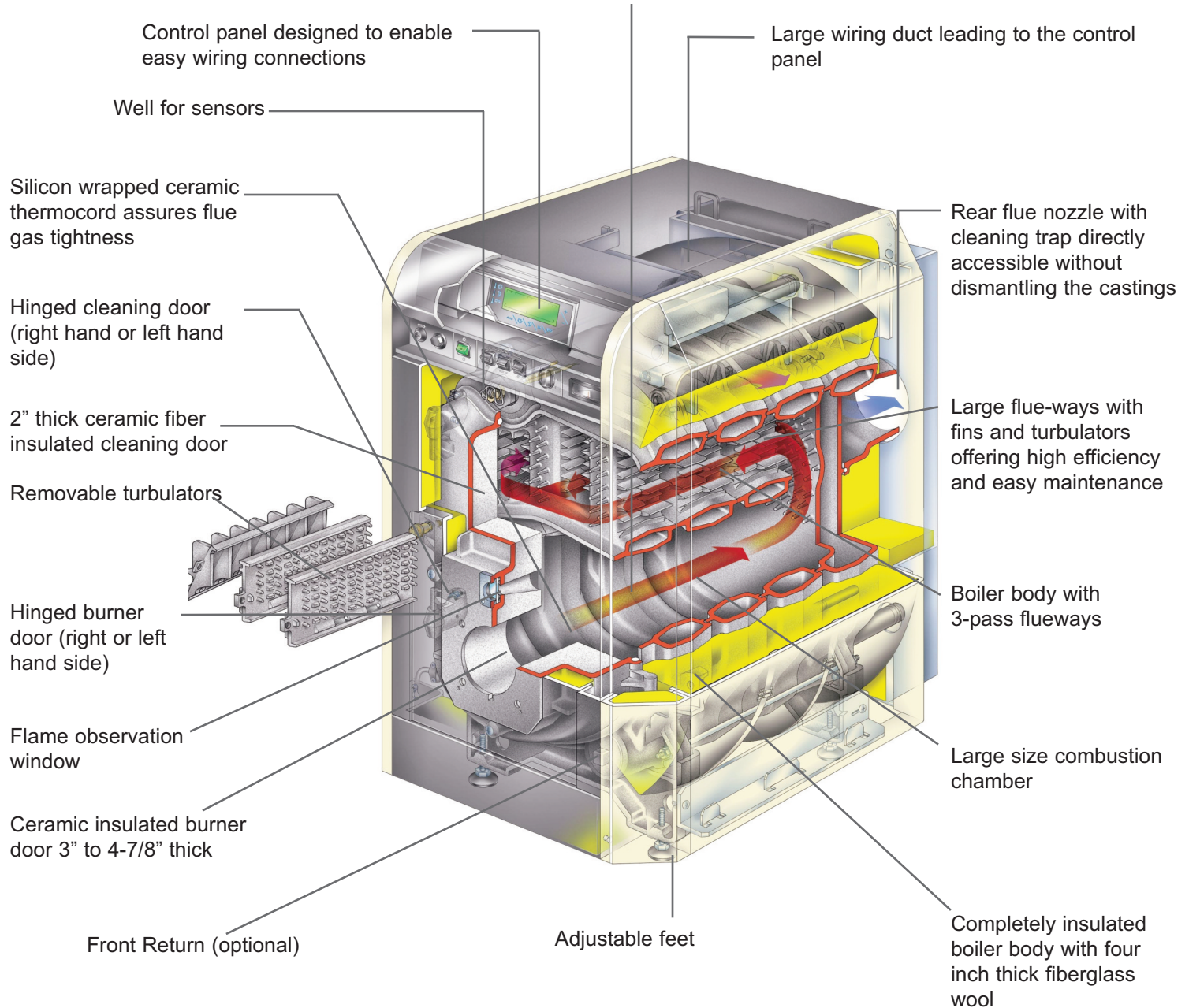
**TH!NK BOILERS... TH!NK**

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## High Performance Low-Temperature Return Eutectic Cast Iron Boilers

Eutectic cast iron boiler body, thermal shock and corrosion resistant, allowing low modulated temperature operation and complete stop between heating periods



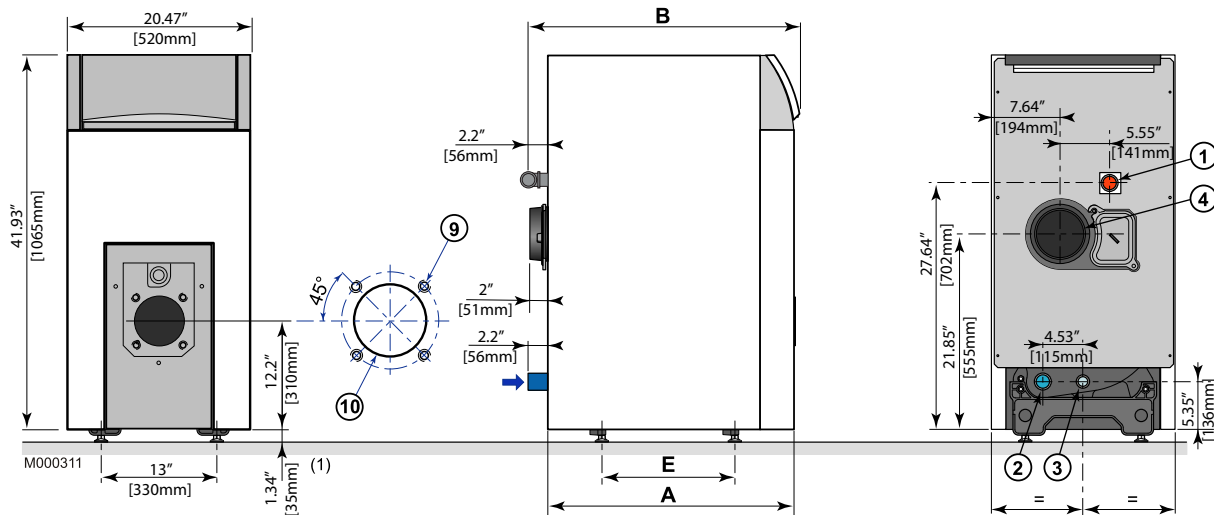
**De Dietrich**  
BOILERS

***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)





(1) Adjustable feet: basic height 2" with 1.1875" to 2.5" adjustment range.

	GT 224A	GT 225A	GT 226A	GT 227A	GT 228A
A	27.56 [700]	32.56 [827]	37.56 [954]	42.56 [1081]	47.56 [1208]
B	30.39 [772]	35.39 [899]	40.39 [1026]	45.39 [1153]	50.39 [1280]
ØC	6 [153]	6 [153]	7.1 [180]	7.1 [180]	7.1 [180]
E	14.96 [380]	19.96 [507]	24.96 [634]	29.96 [761]	34.96 [888]
1&2	R1 1/4	R1 1/4	R1 1/2	R1 1/2	R1 1/2

1. Heating Outlet
2. Heating Return
3. Drainage / filling Rp ¾
4. Flue gas nozzle ØC
9. 4xM8 on Ø 5.9" [150mm] and 4 markings on Ø 6.7" [170mm]
10. Drilling Ø 4.33" [110mm] - precut Ø 5.12" [130mm]

			Model				
Item		Unit	GT 224A	GT 225A	GT 226A	GT 227A	GT 228A
CSA - Gas Input		MBH	173	224	274	324	361
		Kw	50.7	65.5	80.3	95.1	105.7
CSA - #2 Fuel Oil Input		US/GPH	1.2	1.55	1.9	2.25	2.5
CSA - Output [Gas-Oil]		MBH	147	190	233	276	307
		Kw	43.2	55.8	68.4	81	90
Cast iron sections		#	4	5	6	7	8
Water Resistance Delta T=(°F)	18 (°F)	Ft Water	0.667	1.117	1.670	3.058	2.889
	27 (°F)	Ft Water	0.297	0.496	0.742	1.359	1.284
	36 (°F)	Ft Water	0.167	0.280	0.417	0.765	0.722
MAWP [Water]		PSI	ASME IV Rating Class 30 - (60 psi)				
S2NA Panel	Electrical Connection	V/P/H	120/1/60				
	Max. Water Temp.	(°F)	230				
	Safety Limit [MR]	(°C)	110				
	Water operating Temp. Range	(°F)	86 - 194				
		(°C)	30 - 90				
Gas-vent category		#	I, II, III or IV				
Boiler-vent connection		inch	6	6	7	7	7
Boiler weight [dry]		LB	481	567	655	741	827
		Kg	218	257	297	336	375

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**  
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Represented By:

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