

# FUEL OIL / GAS

CAST IRON BOILERS TO BE FITTED WITH A FUEL OIL / GAS BURNER FOR HEATING ONLY

PROJECT



GT220\_00003

## GT 220 From 40 to 100 kW



Fuel oil / gas boiler, low temperature

- Annual operating efficiency up to 94%
- Heating body in eutectic cast iron
- Large combustion chamber and 3-path flue way
- Choice of 5 control panels with DHW priority function (except X control panel):
  - For controlling a 1-stage burner:
    - X: Simplified
    - B: Basic, operation by boiler thermostat
    - D: Diematic 3, with electronic programmable regulation according to the outside temperature

- For controlling a 2-stage or modulating burner (GT 226 to GT 228 only):
  - B2: equivalent to B control panel
  - D: + AD217: DIEMATIC 3 + PCB 2-stage / modulating / 3-way valve allowing in more the control of a circuit with mixing valve (outlet sensor optional)
- Fuel oil or gas burner optional
- Packaging: 3 or 4 packages

point

Control panels equipment allowing a wide field of application

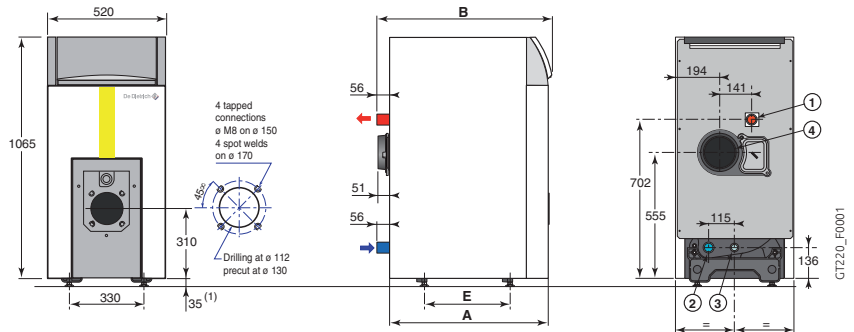
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OPTIONS: see following pages

### MAIN DIMENSIONS (mm and inches)

- ① Heating flow
- ② Heating return
- ③ Filling and drain opening Rp 3/4
- ④ Flue connection Ø C
- (1) Feet adjustable de 35 à 50 mm.
- R: Threading
- Rp: Tapped connection

GT	A	B	Ø C	① ②	Ø E
224	700	772	153	R 1" 1/4	380
225	827	899	153	R 1" 1/4	507
226	954	1026	180	R 1" 1/2	634
227	1081	1153	180	R 1" 1/2	761
228	1208	1280	180	R 1" 1/2	888



### TECHNICAL SPECIFICATIONS

#### Low temperature

Min. outlet temperature: 30°C  
 Min. return temperature: 20°C  
 Max. operating temperature: 100°C

Max. operating pressure: 4 bar  
 (up to 6bar on request)

Thermostat: 30 to 90°C adjustable  
 Safety thermostat: 110°C

### MODEL

	GT	224	225	226	227	228
Nominal output	kW	50	64	78	92	100
Efficiency at ... %	%	- 100% at 70°C	91.7	91.8	92.0	91.9
output and ...°C	%	- 30% at 50°C	93.9	93.7	93.6	93.8
average temp.	%	- 30% at 40°C	94.1	94.3	94.6	94.7
Water flow at ΔT = 20 K	m³/h	2.151	2.754	3.356	3.959	4.303
Stand-by losses at ΔT = 30 K	W	118	139	160	181	202
% losses through the walls	%	64	68	70	72	73
Auxiliary electrical power (without pump)						
with DIEMATIC 3 control panel	W	10	10	10	10	10
Usefull output range	kW	40-50	50-64	64-78	78-92	92-100
Water content	l	36	43	50	57	64
Water resistance at ΔT = 20 K	mbar	6.2	10.0	14.9	20.7	24.3
Flue gas circuit volume	l	54	68	83	97	111
Combustion chamber	mm	309/446	309/573	309/700	309/827	309/954
Flue gas mass flow rate	kg/h	83	106	129	152	166
Combustion chamber pressure	mbar	0.2-0.5	0.3-0.6	0.3-0.8	0.4-0.8	0.6-0.9
Net weight	kg	218	257	297	336	375

Values at nominal output CO<sub>2</sub>: 13% with domestic fuel oil and 9% with natural gas, draught at the nozzle = 0

### MODEL

	GT	224	225	226	227	228
GT220 X	Ref.	100004280	100004281	100004282	100004283	100004284
GT220 B	Ref.	100004285	100004286	100004287	100004288	100004289
GT220 D	Ref.	100004313	100004314	100004315	100004316	100004317
GT220 B2	Ref.	-	-	100004300	100004301	100004302
GT220 D + AD217 (1)	Ref.	-	-	100004391	100004392	100004393

Factory assembled body as standard. On request, body delivered in bulk.

(1) Package AD217 is included but do not forget to order the AD199 sensor if a valve circuit is connected.