

FUEL OIL

FUEL OIL CONDENSING BOILERS WITH INTEGRATED FUEL OIL BURNER 2-STAGES FOR HEATING ONLY

PROJECT

GTU C 220

From 40 to 85 kW

point

The performance of tried and tested technology



up to
A



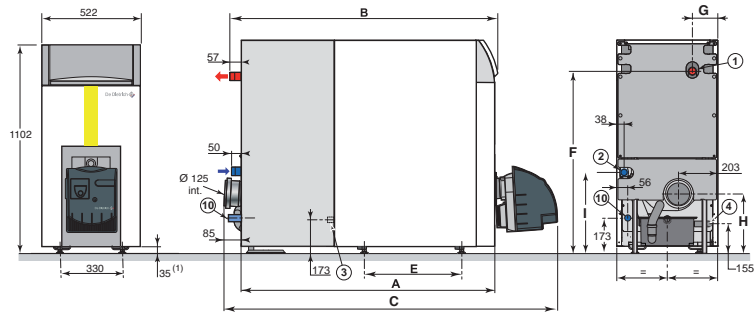
- Annual operating efficiency up to 104%
- Heating body in eutectic cast iron
- Large combustion chamber and 3-path flue way
- Flue gas condenser collector with a ceramic exchange surface impervious to corrosion, fitted with the siphon for recovering the condensates and adjustable feet
- Burner doors reversible
- 2-stage fuel burner with post-ventilation, low pollutants emissions (NOx) < 100mg/kWh (at 50/30°C)
- Choice of 2 control panels with DWH priority function:
 - B2: operation by boiler thermostat for controlling a direct circuit,
 - D + AD217: DIEMATIC 3 + PCB 2-stage/modulating/3 way valve allowing in more the control of a circuit with a mixing valve (outlet sensor optional)
- Packaging: 8 or 9 packages

N° CE 1312CN5689

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- ① Heating flow R 1" 1/4
 - ② Heating return R 1" 1/4
 - ③ Filling and drain opening Rp 3/4"
 - ④ Siphon outlet in ribbed hose pipe Ø ext. 30mm
 - ⑩ Location of return temperature sensor
- (1) Feet adjustable from 35 to 50 mm



(mm)	A	B	C	E	F	G	H	I
GTU C 225	1310	1382	1734	507	953	116	311	418
GTU C 226	1437	1509	1921	634	959	114	314	420
GTU C 227	1564	1636	2068	761	959	114	314	420

TECHNICAL SPECIFICATIONS

Condensing

Max. operating temperature: 100°C : Thermostat: 30 to 90°C adjustable : Classification: B₂₃, B_{23P}
 Max. operating pressure: 3 bar : Safety thermostat: 110°C : NOx classification: 3

MODEL

	GTU C	225	226	227
Energy efficiency class (heating)		A	A	-
Nominal output 50/30°C	kW	50	67	85
Efficiency at % PCI	%	96.1	96.6	96.4
output and ... °C	%	102.0	102.2	101.7
water temp.	%	102.2	102.0	101.5
Seasonal space heating energy efficiency (without contribution of regulation)	%	90	90	-
Seasonal space heating energy efficiency (with outdoor sensor with GTU C 220 + AD217)	%	92	92	-
Water flow at ΔT = 20 K	m ³ /h	2.15	2.88	3.66
Useful efficiency at 100 % of rated heat output	%	-	-	90.9
Useful efficiency at 30 % of rated heat output	%	-	-	95.8
Stand-by losses at ΔT = 30 K	W	198	215	237
% losses through the walls	%	84	86	88
Auxiliary electrical power (without circul. pump) at Pn with DIEMATIC-m3 control panel	W	60	90	120
Usefull output at 50/30°C	kW	40.0-50.0	50.0-67.0	67.0-85.0
Usefull output at 80/60°C	kW	37.7-47.1	47.1-63.3	63.1-80.6
Water content	l	50	60	67
Water resistance at ΔT = 20 K (1)	mbar	50	145	233
Combustion chamber:	mm	309/573	309/700	309/827
- Ø equiv./depth	l	42	51	60
- volume	°C	< 70	< 65	< 70
Flue gas temperature	kg/h	75	101	129
Flue gas mass	mbar	0.4	0.6	0.8
Maximum pressure available at the nozzle	l	78	96	110
Flue gas circuit volume	kg	297	347	386
Weight empty				

(1) At nominal stage, CO₂: 12,5% with domestic fuel.

MODEL

	GTU C	225	226	227
GTU C 220 B2	Ref.	100019179	100019180	100019181
GTU C 220 D + AD217	Ref.	100019182	100019183	100019184

Boiler delivery in bulk. On request, body assembled in factory.

OPTIONS AND EXAMPLE OF INSTALLATION

FOR GTU C 220

ALL OPTIONS EXCEPT CONTROL UNITS OPTIONS

ACCESSORIES

	PACKAGE	REF
Second return set (pump included)	ME117	100019830
Neutralisation station	ME115	100019474
Condensate lifting pump	FM158	100004293
Neutralisation granulates	ME116	100019475
Recommended assembly tool for body in bulk:		
or		
• JDS (1) lg 1400mm		88017706
• JD-TE Plus complete		100018991



DHW PRODUCTION

	PACKAGE	REF
• with independent calorifier		see chapter 11
• with solar calorifier		see chapter 12
DHW sensor	AD212	100000030
Connecting kit boiler/independent or solar calorifier UNO...	EA117	100007835



CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONNECTED CIRCUITS

Circuit type	Boiler self-standing or boiler 1 of a cascade						Boiler 2 to 10 of a cascade by additional boiler (2)	
	ecs	direct	2 x direct	valve or direct 1 valve	2 x valve or + 2 x with valve	valve	2 x valve	
Control panel	B2: AD212	as standard	no	no	no	no	no	
	D + AD217 (1)	AD212	as standard	1 x AD199	1 x AD199	1 x AD199 + 1 x FM48	1 x AD199	1 x AD199 + 1 x FM48

(1) Each of the circuits "heating" can be completed in choice by remote control AD285, AD284 + AD252 or FM52.
 (2) Do not forget to order the "cascade outlet" sensor; package AD212 or AD218.

CONTROL UNITS OPTIONS

	PACKAGE	REF	PACKAGE	REF
• For B2 control panel (base)				
Room thermostat:				
• non programmable	AD140	88017859		
• programmable (wire)	AD137	88017855		
• programmable (wireless)	AD200	88017018		
DHW temperature sensor	AD212	100000030		
• For D (DIEMATIC 3) control panel				
Cascade outlet sensor or DHW sensor	AD212	100000030		
Outlet sensor downstream of the valve	AD199	88017017		
PCB + sensor for 1 circuit with mixing valve	FM48	85757743		
Interactive remote control CDI D.iSystem	AD285	100018924		
Interactive remote radio control CDR D.iSystem (without radio transmitter)	AD284	100018923		
Simplified remote control with room sensor	FM52	85757747		
BUS cable connection 12 m	AD134	88017851		
Flue gas temperature sensor	FM47	85757742		
Dip sensor + sensor tube (replacing the attachment sensor)	AD218	100004781		
BUS cable connection 12 m	AD251	100013306		
Boiler radio module	AD252	100013307		
Sensors for storage tank	AD160	88017887		
2-stage/modulating/3WVPCB	AD217	100004294		

GTU C 220 GTU C225 D + AD217

- 1 radiator circuit
- 1 underfloor heating circuit
- 1 DHW calorifier

DESCRIPTION

	PACKAGE	REF
GTU C 225 D boiler + AD217	-	100019182
Outlet sensor downstream of the valve	AD199	88017017
BLC 300 DHW production	EC606	100018090
DHW sensor	AD212	100000030
Options		
- Interactive remote control CDI D.iSystem	AD285	100018924

