

FUEL OIL / GAS

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

PROJECT



GT430_00001

GT 430 From 300 to 780 kW



Fuel oil / gas boiler, low temperature

- Min. flow temperature: 40°C
- Heating body elements in eutectic cast iron
- Pressurised furnace high volume combustion and low gas pressure
- Hinged door reversible
- Reinforced insulation, low stand-by losses
- Delivered with a preset flow switch
- Choice of 4 control panels with DHW priority function (except standard control panel):
 - Standard: for controlling a 1-stage or 2-stage burner, control cabinet in the boiler room
 - B3: for controlling a 1-stage or 2-stage burner, operation by boiler thermostat

point

Reliability and longevity

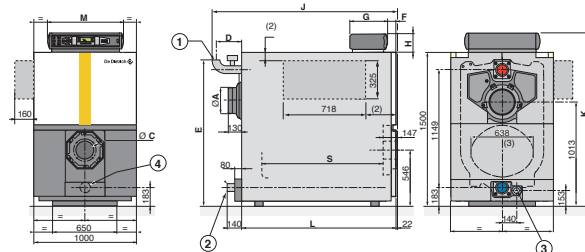
- Diematic-m3: with electronic programmable regulation according to the outside temperature, for controlling a 1-stage, 2-stage or modulating burner, can control up to 10 boilers in cascade
- K3: only operating in association with DIEMATIC-m3 to control the "secondary" boilers
- Fuel oil or gas burner optional
- Packaging:** 2 possibilities
 - Heating body in bulk + 6 to 8 packages depending on the model
 - Heating body assembled + 6 to 8 packages depending on the model

N° CE 1312AQ0951

OPTIONS: see following pages

MAIN DIMENSIONS (mm and inches)

- Heating flow Ø B (to be welded)
 - Heating return Ø B (to be welded)
 - Boiler drain Rp 2" (stoppered)
 - Flush opening Rp 2" 1/2 (stoppered)
- (2) Lateral control panel (specify ordering): its position on 1 of the lateral panels is left to the fitter's direction.
 (3) Inscribed Ø of the combustion chamber: front section: Ø 455mm intermediate element: Ø 530mm, Ø equivalent furnace: 573mm
 R: Threading
 Rp: Tapped connection
 (*) Ø 2" optional



GT430_FF001

Control panel	F	G	H	K	M	GT	Ø A ext.	Ø B	Ø C	D	E	J	L	S
standard	127.5	130	105	1605	738	430-8	250	2"1/2	full plate	235	1427	1800	1505	1183
B3, K3 and DIEMATIC-m3	113.5	355	190	1690	755	430-9	250	2"1/2		precut at	235	1427	1950	1665
						430-10	250	2"1/2	Ø 135, 175,	235	1427	2120	1825	1503
						430-11	300	3"	190, 240,	254	1447	2305	1985	1663
						430-12	300	3"	250 or 290	254	1447	2465	2145	1823
						430-13	300	3"	on request	254	1447	2625	2305	1983
						430-14	300	3"		254	1447	2785	2465	2143

TECHNICAL SPECIFICATIONS

Low temperature

Min. outlet temperature: 40°C
 Min. return temperature: 20°C

Max. operating temperature: 90°C
 Max. operating pressure: 6 bar
 (up to 8 bar on request)

Thermostat: 40 to 85°C adjustable
 Safety thermostat: 110°C

MODEL

	GT	430-8*	430-9*	430-10	430-11	430-12	430-13	430-14
Useful output	kW	300-390	390-450	450-540	540-600	600-670	670-720	720-780
Nominal input	m³/h	333.7-443.3	443.3-511.4	511.4-613.6	613.6-681.8	681.8-761.4	761.4-818.2	818.2-886.4
Water content	l	366	409	452	495	538	581	624
Water resistance at ΔT = 20 K	mbar	8	12	20	25	33	40	49
Flue gas circuit volume	m³	0.563	0.638	0.712	0.787	0.860	0.934	1.008
Combustion chamber	- inscribed Ø	mm	530	530	530	530	530	530
	- depth	mm	1183	1343	1503	1663	1823	1983
	- volume	m³	0.310	0.354	0.396	0.439	0.481	0.523
Flue gas mass flow rate	- domestic fuel oil	kg/h	650	750	900	1000	1116	1200
	- natural gas	kg/h	700	810	972	1080	1207	1297
Combustion chamber pressure	mbar	1.1	1.5	2	2.5	2.5	2.5	3.5
Flue gas temperature	°C	< 220	< 220	< 220	< 220	< 220	< 220	< 220
Net weight	kg	1802	2072	2238	2454	2638	2880	3057

Values at nominal output, CO₂: 13% with domestic fuel oil and 9.5% with natural gas, draught at the nozzle = 0

MODEL

GT	430-8*	430-9*	430-10	430-11	430-12	430-13	430-14
GT430	Ref. 100006915	100006916	100006917	100006918	100006919	100006920	100006921
GT430 B3 (1)	Ref. 100006908	100006909	100006910	100006911	100006912	100006913	100006914
GT430 K3 (1) (2)	Ref. 100006894	100006895	100006896	100006897	100006898	100006899	100006900
GT430 DIEMATIC-m 3 (1)	Ref. 100006901	100006902	100006903	100006904	100006905	100006906	100006907

Heating body in bulk as standard. On request, body can be assembled in factory

(1) Control panel also available in a "lateral" version on request.

(2) GT 430 K3 is only operating in association with GT 430 DIEMATIC-m3.

* Boilers for replacing identical products.