

# FUEL OIL / GAS

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



Accessibility easy boiler room:  
delivery in separate elements

PROJECT



## GT 530

Models GT 530-7 to GT 530-16 from 406 to 928 kW



Fuel oil / gas boiler

- Heating body in eutectic cast iron
- Pressurised furnace high volume combustion and low gas resistance
- Burner door on reversible hinge
- Reinforced insulation, low stand-by losses
- Casing with walkway
- 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

- **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 + 9 to 14 packages depending on the model
  - Heating body assembled + 9 to 14 packages depending on the model

N° CE 1312AQ0954

**OPTIONS:** see following pages

### MAIN DIMENSIONS (mm and inches)

- Heating flow  $\varnothing$  E (to be welded)
- Heating return  $\varnothing$  E (to be welded)
- Boiler drain Rp 3/4"
- Flow switch (delivered)
- Length required for maintenance and cleaning = 850mm

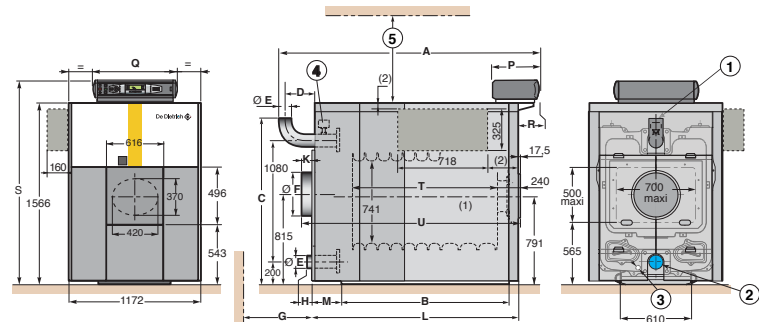
(1) The burner shaft is marked with a spot weld. Possibility of drilling the burner door on request and without additional cost in diameters 165, 186, 210, 240 or 290mm

(2) Lateral control panel (specify when ordering): its position on 1 of the lateral panels is left to the fitter's discretion

\*\* Length required to extract the water equidistribution pipe

\*\*\* Dimension corresponding to the end of the flue connection (with exhaust collar height 100mm)

R: Threading  
Rp: Tapped connection



GT	A	A	B	C	D	$\varnothing$ E	$\varnothing$ F	G**	H	K***	L	M	T	U
(standard)	(B3, K3, DIEM-m3)				(to be welded)									
530-7	1606	1761	967	1488	240	139.7	300	-	21	33	1305	248	706	1355.5
530-8	1717	1872	1078	1488	211	139.7	300	-	-8	4	1445	265	817	1466.5
530-9	1828	1983	1078	1488	212	139.7	300	-	-7	5	1555	319	928	1577.5
530-10	1939	2094	1300	1488	233	139.7	350	-	14	26	1645	243	1039	1688.5
530-11	2050	2205	1300	1488	234	139.7	350	-	15	27	1755	297	1150	1799.5
530-12	2161	2316	1522	1488	255	139.7	350	-	36	48	1845	221	1261	1910.5
530-13	2272	2427	1522	1488	256	139.7	350	-	37	48	1955	275	1372	2021.5
530-14	2383	2538	1744	1488	217	139.7	400	-	-2	10	2105	259	1483	2132.5
530-15	2494	2649	1744	1488	188	139.7	400	150	-31	-19	2245	324	1594	2243.5
530-16	2605	2760	1966	1488	189	139.7	400	150	-30	-18	2355	269	1705	2354.5

Control panel	P	Q	R	S
Standard	130	738	20	1670
B3, K3 and DIEMATIC-m3	355	755	175	1760

### TECHNICAL SPECIFICATIONS

#### Low temperature

Min. flow 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	530-7	530-8	530-9	530-10	530-11	530-12	530-13	530-14	530-15	530-16	
Nominal output	kW	406	464	522	580	638	696	754	812	870	928	
Efficiency at % PCI output and ...°C water temp.	%	- 100% Pn at 70°C	90.9	91.3	91.4	91.7	90.8	90.5	90.7	91.2	90.0	90.6
		- 30% Pn at 50°C	94.1	94.8	95.1	94.6	94.1	93.8	94.0	94.1	94.3	95.1
Water flow Pn $\Delta$ T = 20 K	m <sup>3</sup> /h	17.47	19.97	22.46	24.96	27.45	29.95	32.44	34.94	37.44	39.93	
Stand-by losses at $\Delta$ T = 30 K	W	318	362	362	401	390	426	461	494	498	527	
Auxiliary electrical power (without pump) with DIEMATIC-m3 control panel	W	6	6	6	6	6	6	6	6	6	6	
Usefull output	kW	348-406	406-464	464-522	522-580	580-638	638-696	696-754	754-812	812-870	870-928	
Water content	l	389	427	465	503	541	579	617	655	693	731	
Water resistant at $\Delta$ T = 20 K (1)	mbar	4.5	5.5	7.1	8.7	10.5	12.5	14.4	16.8	19.4	6.5	
Combustion chamber	mm	- depth 683mm lg	706	817	928	1039	1150	1261	1372	1483	1594	1705
		- volume	0.28	0.32	0.36	0.40	0.45	0.49	0.53	0.57	0.61	0.65
Flue gas mass	kg/h	- domestic fuel oil	690	790	790	980	1080	1180	1380	1380	1480	1580
		- natural gas	720	830	930	1030	1140	1240	1340	1450	1550	1650
Combustion chamber pressure (1)	mbar	1.7	1.75	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	
Net weight	kg	1852	2046	2237	2412	2601	2810	3000	3171	3364	3561	

(1) At nominal stage, CO<sub>2</sub>: 13% with domestic fuel and 9,5% with natural gas, draught at the nozzle = 0

### MODEL

	GT	530-7	530-8	530-9	530-10	530-11	530-12	530-13	530-14	530-15	530-16
GT530	Ref.	100007047	100007048	100007049	100007050	100007051	100007052	100007053	100007054	100007055	100007056
GT530 B3 (1)	Ref.	100007028	100007029	100007030	100007031	100007032	100007033	100007034	100007035	100007036	100007037
GT530 K3 (1) (2)	Ref.	100006989	100006990	100006991	100006992	100006993	100006994	100006995	100006996	100006997	100006998
GT530 DIEMATIC-m3 (1)	Ref.	100007009	100007010	100007011	100007012	100007013	100007014	100007015	100007016	100007017	100007018

Delivery body bulk. On request, body assembled in factory.

(1) Control panel also available in a "lateral" version on request. (2) GT 530 K3 is only operating in association with GT 530 DIEMATIC-m3.

# FUEL OIL / GAS

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

PROJECT



GT530\_00001

## GT 530

Models GT 530-17 to GT 530-25 from 986 to 1450 kW



point

Accessibility easy boiler room:  
delivery in separate elements

Fuel oil / gas boiler

- Annual operating efficiency up to 94.7%
- Heating body in eutectic cast iron
- Gas circuit with 4 paths flue way
- Pressurised furnace high volume combustion and low gas resistance
- Burner door on reversible hinge
- Reinforced insulation, low stand-by losses
- Casing with walkway
- 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
- 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 + 9 to 14 packages depending on the model
  - Heating body assembled + 9 to 14 packages depending on the model

N° CE 1312AQ0954

OPTIONS: see next page

### MAIN DIMENSIONS (mm and inches)

- Heating flow  $\varnothing$  E (to be welded)
- Heating return  $\varnothing$  E (to be welded)
- Boiler drain Rp 3/4"
- Flow switch (delivered)
- Length required for maintenance and cleaning = 850mm

(1) The burner shaft is marked with a spot weld. Possibility of drilling the burner door on request and without additional cost in diameters 165, 186, 210, 240 or 290mm

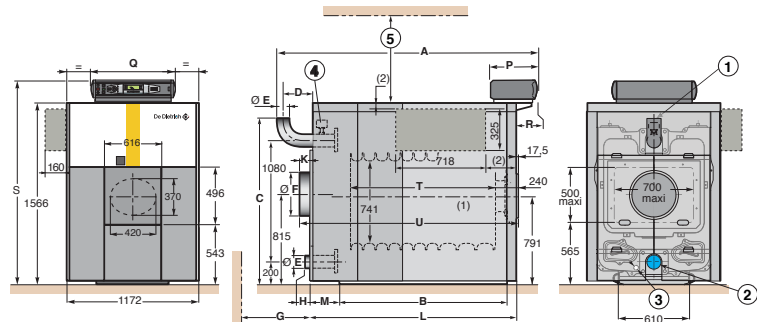
(2) Lateral control panel (specify when ordering): its position on 1 of the lateral panels is left to the fitter's discretion

\*\* Length required to extract the water equidistribution pipe

\*\*\* Dimension corresponding to the end of the flue connection (with exhaust collar height 100mm)

R: Threading  
Rp: Tapped connection

Control panel	P	Q	R	S
Standard	130	738	20	1670
B3, K3 and DIEMATIC-m3	355	755	175	1760



GT	A	A	B	C	D	$\varnothing$ E	$\varnothing$ F	G**	H	K***	L	M	T	U
	(standard)	(B3, K3, DIEM-m3)				(to be welded)								
530-17	2716	2871	1966	1488	210	139,7	400	370	-9	3	2445	321	1816	2465,5
530-18	2862	3017	2188	1504	236	159	400	370	98	4	2555	265	1927	2576,5
530-19	2973	3128	2188	1504	257	159	400	370	13	25	2645	299	2038	2687,5
530-20	3124	3279	2450	1504	208	159	400	650	-36	-24	2845	269	2189	2838,5
530-21	3235	3390	2450	1504	209	159	*	650	-35	-23	2955	324	2300	2949,5
530-22	3346	3501	2672	1504	230	159	*	650	-14	-2	3045	269	2411	3060,5
530-23	3457	3612	2672	1504	231	159	*	980	-13	-1	3155	324	2522	3171,5
530-24	3568	3723	2894	1504	252	159	*	980	8	20	3245	249	2633	3282,5
530-25	3679	3834	2894	1504	253	159	*	980	9	21	3355	303	2744	3393,5
530-16	2605	2760	1966	1488	189	139,7	400	150	-30	-18	2355	269	1705	2354

### TECHNICAL SPECIFICATIONS

#### Low temperature

Min. flow 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	530-17	530-18	530-19	530-20	530-21	530-22	530-23	530-24	530-25		
Nominal output	kW	986	1044	1102	1160	1218	1276	1334	1400	1450		
Efficiency at % PCI output and ...°C water temp.	%	- 100% Pn at 70°C		90.2	91.0	90.6	91.5	91.2	90.9	91.1	90.7	90.9
		- 30% Pn at 50°C		94.3	94.2	94.6	94.3	94.7	94.5	94.2	94.7	95.1
Water flow Pn $\Delta$ T = 20 K	m <sup>3</sup> /h	42.43	44.92	47.42	49.91	52.41	54.91	57.40	60.24	62.39		
Stand-by losses at $\Delta$ T = 30 K	W	520	545	578	603	603	634	661	693	821		
Auxiliary electrical power (without pump) with DIEMATIC-m3 control panel	W	6	6	6	6	6	6	6	6	6		
Usefull output	kW	928-986	986-1044	1044-1102	1102-1160	1160-1218	1218-1276	1276-1334	1334-1400	1400-1450		
Water content	l	769	807	845	905	943	981	1019	1057	1095		
Water resistant at $\Delta$ T = 20 K (1)	mbar	7.6	9.0	10.4	12.0	13.4	14.8	16.2	17.9	19.6		
Combustion chamber	mm	- depth 683mm lg		1816	1927	2038	2189	2300	2411	2522	2633	2744
		- volume		0.70	0.74	0.78	0.84	0.88	0.92	0.96	1.00	1.05
Flue gas mass	kg/h	- domestic fuel oil		1670	1770	1870	1970	2070	2170	2260	2360	2460
		- natural gas		1760	1860	1960	2070	2170	2270	2380	2480	2580
Combustion chamber pressure (1)	mbar	2.6	2.7	2.85	3.0	3.1	3.2	3.3	3.4	3.5		
Net weight	kg	3756	3955	4124	4343	4538	4734	4930	5107	5297		

(1) At nominal stage, CO<sub>2</sub>: 13% with domestic fuel and 9,5% with natural gas, draught at the nozzle = 0

### MODEL

	GT	530-17	530-18	530-19	530-20	530-21	530-22	530-23	530-24	530-25
GT530	Ref.	100007057	100007058	100007059	100007060	100007061	100007062	100007063	100007064	100007065
GT530 B3 (1)	Ref.	100007038	100007039	100007040	100007041	100007042	100007043	100007044	100007045	100007046
GT530 K3 (1) (2)	Ref.	100006999	100007000	100007001	100007002	100007003	100007004	100007005	100007006	100007007
GT530 DIEMATIC-m3 (1)	Ref.	100007019	100007020	100007021	100007022	100007023	100007024	100007025	100007026	100007027

Delivery body bulk. On request, body assembled in factory.

(1) Control panel also available in a "lateral" version on request. (2) GT 530 K3 is only operating in association with GT 530 DIEMATIC-m3.