

FROM 7.7 TO 30 McAL/H
FROM 8.9 TO 114 kW
for chimney connection or forced flue

ELIDENS

DTG 130-45/65/90/115 ECO.NOX PLUS

Floor-standing gas condensing boilers, for heating only



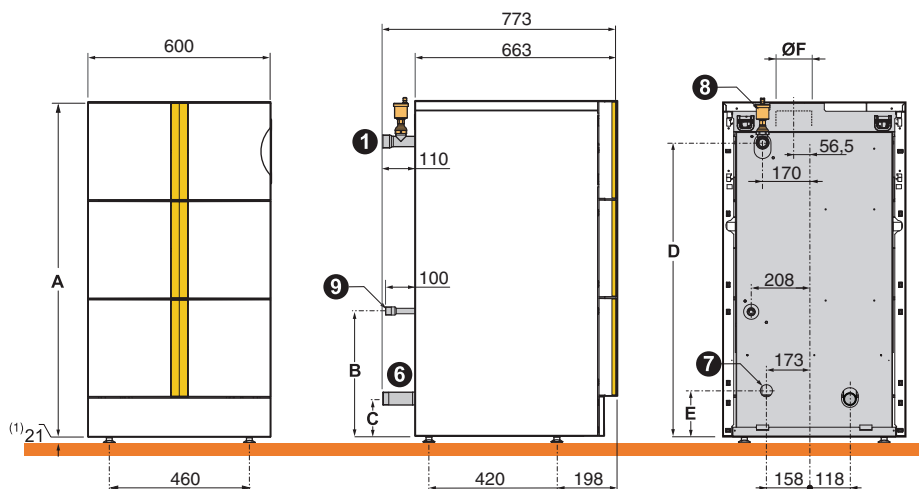
- Floor-standing gas condensing boiler.
- Equipped to operate on natural gases and can be converted to propane (conversion kit for DTG 130-115)
- Gas supply pressure: 20 mbar
- Option of connection with horizontal or vertical forced flue (homologations C_{13x} and C_{33x}), to a chimney (homologation B_{23p}) or in bi-flow (homologation C₅₃) (optional).
- **Annual efficiency up to 110%.**
- Low pollutant emissions.
- **Single-piece heating body in aluminium/silicium.**
- Stainless steel premixing gas burner with woven metal fibre surface.
- **Large output modulation range from 18 to 100%.**
- Fan with silencer on the air intake.
- **DIEMATIC 3 control panel** with programmable electronic control system based on the outside temperature; can also be used in cascades of up to 10 boilers: see page 130.
- Optional hydraulic connection kits available (water and gas valves).
- **Packaging:** 1 package

Floor-standing condensing gas solution for small collector or tertiary applications

MAIN DIMENSIONS (mm and inches)

- ① Heating flow R 1 1/4
- ⑥ Heating return R 1 1/4
- ⑦ Condensates drain (ext. Ø 25 mm)
- ⑧ Automatic air vent
- ⑨ Gas inlet R 3/4

(1) Adjustable feet: basic height 21 mm
Feet adjustable from 21 to 40 mm



DTG 130-	A	B	C	D	E	Ø F
45	1100	410	124	968	152	80/125
65	1100	410	124	968	152	100/150
90/115	1322	632	346	1190	374	100/150

TECHNICAL SPECIFICATIONS

Condensing

Min. outlet temperature: 20°C
Min. return temperature: none

Max. operating temperature: 90°C
Max. operating pressure: 4 bar

Power supply: 230 V/50 Hz
Protection index: IP21
NOx classification: 5

Classification:
B_{23p} C_{13x} C_{33x} C_{93x} C₅₃

Boiler type	DTG... Eco.NOx Plus	130-45	130-65	130-90	130-115	
Nominal output Pn (50/30°C)	kW	43	65	89.5	114	
Efficiency at...%	{ - 100% average temp. 70°C { - 100% return temp. 30°C { - 30 % return temp. 30°C	%	97.5	98.3	97.9	96.6
output and...°C		%	102.9	104.6	104.1	102.7
water temp.		%	107.7	108.9	108.1	107.1
Water flow at Pn and Δt = 20 K	m ³ /h	1.72	2.62	3.60	4.60	
Stand-by losses at Δt = 30 K	W	127	125	131	131	
% losses through the walls	%	75	75	75	75	
Auxiliary electrical power at Pn/Pmin (except circul. pump)	W	55/25	88/31	136/33	213/39	
Min/max useful output at 50/30°C	kW	8.9-43	13.3-65.0	15.8-89.5	18.4-114	
Min/max useful output at 80/60°C	kW	8-40	12-61	14.1-84.2	16.6-107	
Min/max flue gas mass flow rate	kg/h	13.8/69.3	20.5/104	23.4/138	28.9/187	
Flue gas pressure available	Pa	150	100	160	250	
Water content	l	5.5	6.5	7.5	7.5	
Minimum water flow		None	None	None	None	
Gas flow	{ - natural gas H { - propane	m ³ /h	4.36	6.56	9.10	11.75
(15°C-1013 mbar)		kg/h	3.20	4.82	6.68	8.62
Net weight	kg	88	94	109	110	

Model	DTG... Eco.NOx Plus	130-45	130-65	130-90	130-115
	Ref.	100009174	100009175	100009176	100009177

NB: These boilers have been designed, tested and certified with the flue systems offered in our catalogue, pursuant to the requirements of standard EN 483 covering central heating boilers using gaseous fuels.

We guarantee the safety and correct operation of our boilers as long as they are installed with the certified flue systems under the conditions recommended in our technical documentation.

OPTIONS: see page 129, **FLUE SYSTEMS AND HYDRAULIC MODULES:** see chapter 17

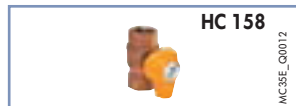
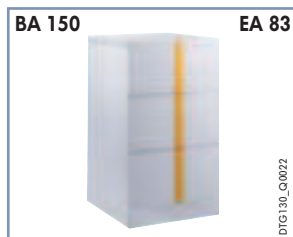
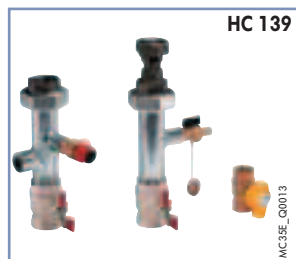
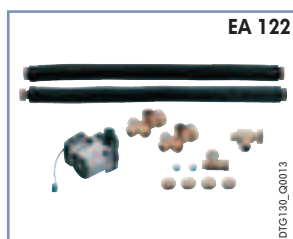
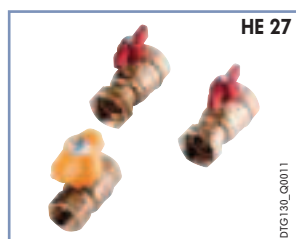
OPTIONS

FOR ELIDENS DTG 130-45 TO 115 ECO.NOX PLUS

ALL OPTIONS EXCEPT CONTROL UNIT OPTIONS

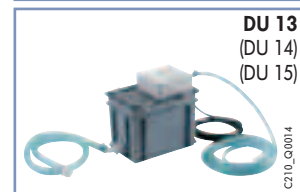
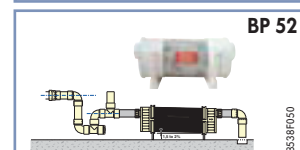
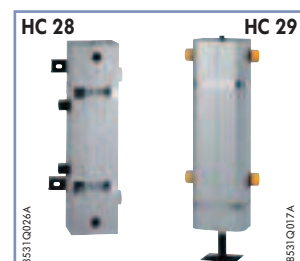
ACCESSORIES	PACKAGE	REF.
Hydraulic connection kit 1" 1/4	HC 139	100002310
Right gas valve 3/4"	HC 158	100004641
3-stage heating pump for		
- DTG 130-45	HC 141	100002312
- DTG 130-65	HC 143	100002314
- DTG 130-90 and 115	HC 145	100002316
Electronic heating pump for DTG 130-45	HC 142	100002313
Primary pump for DTG 130-45 to 115	HC 147	100002323
Condensates neutralization system (with pump)		
- boilers < 120 kW	DU 13	83877009
- boilers from 120 to 350 kW	DU 14	83877010
- boilers > 350 kW	DU 15	83877011
Condensates neutralization system (without pump)	BP 52	82197762
Neutralization granules (10 kg)*	-	94225601

* to be order at the spare parts department



ACCESSORIES	PACKAGE	REF.
Conversion kit propane for DTG 130-115	HE 38	100013072
HW PLUS 70 decoupling cylinder	HC 28	85317018
HW 200 decoupling cylinder	HC 29	85317019
Flue gas flue damper Ø 100 mm (for pressurised cascade installation)	HC 154	100002685

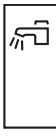
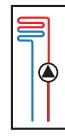
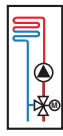
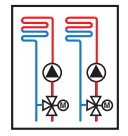
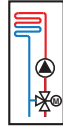
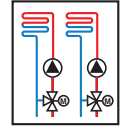
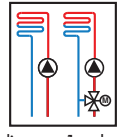
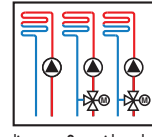
DHW PRODUCTION	PACKAGE	REF.
with independent calorifier		see chapter 19
with solar calorifier		see chapter 1 and 10
DHW tank BA 150 for DTG 130-45/65	EA 83	100009226
DHW sensor	AD 212	100000030
Connecting set boiler DTG 130-45/65.../ tank BA 150	EA 122	100009192
Connecting kit boiler/calorifier BP/BL..., DUO/2, UNO/2 and TRIO		
- DTG 130-45 to 115	EA 121	100007827
G in R connection kit (1" and 3/4")	BH 84	89557009



OPTIONS AND EXAMPLE OF INSTALLATION FOR ELIDENS DTG 130-45 TO 115 ECO.NOX PLUS

CONTROL UNITS OPTIONS

CHOICE OF OPTIONS ACCORDING TO THE CONTROL PANEL TYPE AND 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)	
						
	DHW	direct	valve or	2 x with valve or	valve	2 x with valve
						
			direct + 1 valve	direct + 2 x with valve		
Control panel DIEMATIC 3 (1)						
Elidens DTG... Eco.NOx Plus... 130-45 to 115	1 x AD 212	as standard	1 x FM 48	2 x FM 48	1 x FM 48	2 x FM 48

CONTROL UNITS

	PACKAGE	REF.
CDI 2 remote control	FM 51	85757746
Interactive remote radio control CDR 2	FM 161	100004636
Additional CDR 2 module	FM 162	100004637
Simplified remote control	FM 52	85757747
PCB + sensor for mixing valve	FM 48	85757743
Radio outside temperature sensor	AD 241	100010960
Boiler radio module (radio transmitter)	AD 242	100010961

PACKAGE

	PACKAGE	REF.
DIEMATIC BUS connection cable (12 m)	AD 134	88017851
Alarm report PCB and control of 1 external gas valve or a compulsory flue damper	GR 12	100003347
Cascade outlet sensor or DHW sensor	AD 212	100000030
Dip sensor + sensor tube	AD 218	100004781
Set of 2 sensors for storage tank	AD 216	100005130

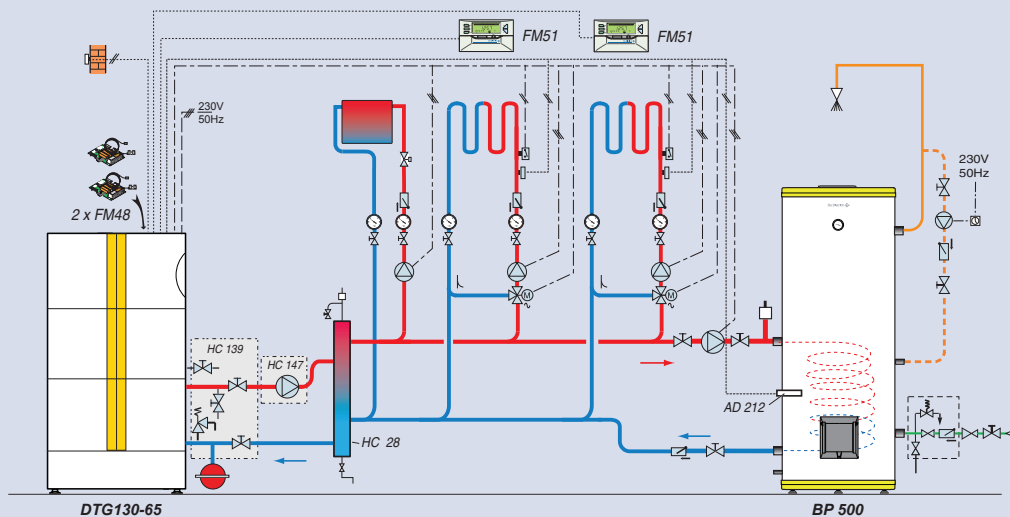
(1) Each of the circuits "heating" can be completed in choice by a remote control FM 51, FM 161/162 or FM 52

(2) Do not forget to order the "cascade outlet" sensor package AD 212 or AD 218

Example of installation

ELIDENS DTG 130-45 to 115 Eco.NOx Plus

- 1 direct circuit (without mixing valve)
- 2 underfloor heating circuits (with mixing valve)
- 1 DHW calorifier BL/BP...



DESCRIPTION

DESCRIPTION	PACKAGE	REF.
DTG 130-65 Eco.NOx Plus	-	100009175
Hydraulic connection kit DTG 130-35 to 115	HC 139	100002310
Primary pump DTG 130-45 to 115	HC 147	100002323
HW PLUS 70 decoupling cylinder	HC 28	85317018
1 DHW calorifier BP 500	EC 404	100006735
2 PCB + sensor for mixing valve	2 x FM 48	2 x 85757743
DHW sensor	AD 212	100000030
Options		
2 x CDI 2 remote control	2 x FM 51	2 x 85757746