

GAS BURNERS

PRESSURE JET GAS BURNERS

OUTPUT
from 16 to 2290 kW
(13,8 to 1969 Mcal/h)

MODELS AVAILABLE

- **G 100 S**, from 16 to 52 kW (13,8 to 44,7 Mcal/h)
1-stage gas burners, low-NO_x (< 80 mg kWh), see page 4
- **G 200 S**, from 38 to 79 kW (32,7 to 67,9 Mcal/h)
1-stage gas burners, low-NO_x (< 80 mg kWh), see page 4
- **G 200 N**, from 52 to 123 kW (44,7 to 105,8 Mcal/h)
Gas burners, 1-stage (G 201/2 N) or modulating (G 203/2 N),
Eco.NO_x (< 60 mg/kWh), see page 4
- **G 300 S**, from 60 to 410 kW (51,6 to 352,5 Mcal/h)
Gas burners, 1-stage (G 301-2 S), or modulating (G 303- S),
low-NO_x (< 120 mg/kWh), see page 6
- **G 300 N**, from 55 to 400 kW (47,3 to 344 Mcal/h)
Modulating gas burners, Eco-NO_x (< 80 mg/kWh), see page 6
- **G 40 S**, from 205 to 1030 kW (176,3 to 885,6 Mcal/h)
Modulating gas burners, low-NO_x, see page 8
- **G 50 S**, from 372 to 2290 kW (320 to 1969 Mcal/h)
Modulating gas burners, low-NO_x, see page 10

FUNCTIONS



Equipment
for boilers

FUELS



- G 100 S, G 200 S, G 200 N : - All natural gases 20 mbar
or 300 mbar (except G 100 S)
- Butane/propane 28 to 50 mbar
(G 200 N : propane only)
- G 300 S : - All natural gases 20 mbar or 300 mbar
- Butane/propane 28 to 50 mbars for G 303-2 S and
G 303-3 S
- G 300 N, G 40 S, G 50 S : All natural gases 20 mbar or 300 mbar



Complies with the requirements of European Directives

- 90/396 EEC Directives on gas appliances
 - 73/23 EEC, Low Voltage Directives
 - 89/336 EEC, Electromagnetic Compatibility Directives
- CE identification No.: G 100 S, G 200 S: CE 0085BM0348

G 200 N : CE 0085BP0154

G 300 S : CE 0085BR0371

G 300 N : CE 0085BR0266

G 40 S : CE 0085BL0312

G 50 S : CE 0085AQ0708 (G 53-1 S)

CE 0085AT0042 (G 53-2 S)



G 100 S - G 200 S



G 300 S



G 40 S



G 50 S

INFORMATION REQUIRED FOR INSTALLATION

BURNER SELECTION - CORRECTION ACCORDING TO ALTITUDE

⇒ **For De Dietrich boilers**, the recommendations of burner and, where necessary, the associated gas train, are given in the tables of specifications which appear on the previous pages.

⇒ **For other boilers on the market**, the appropriate burner will be defined using the output curves for the various burners given on the previous pages, based on the useful yield of the boiler under consideration.

Correction depending on altitude:

The table below is used to calculate the flow to be measured at a given altitude according to the formula:

Q to be measured = f x Q calculated to the desired output

or Q to be measured = f x P x 1/LCV

Q: flow in m³/h

f: correction factor (see table below).

P: burner output in kW

LCV: lower calorific value of the gas under consideration: 9.45 kWh/m³ for natural gas H

ALTITUDE	m	0	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400
Average atmospheric pressure	mbar	1013	991	968	946	924	901	880	858	837	817	797	777	757
Gas flow correction factor according to altitude (f)		1	1,02	1,05	1,07	1,10	1,12	1,15	1,18	1,21	1,24	1,27	1,30	1,34

E.g.: you wish to set the G 303-2 S burner to an output of 80 kW

• at altitude 0 m and on gas H: $Q \text{ to measured} = \frac{1 \times 80}{9,45} = 8,5 \text{ m}^3/\text{h}$

• at an altitude of 800: $Q \text{ to measured} = \frac{1,10 \times 80}{9,45} = 9,3 \text{ m}^3/\text{h}$

• To obtain an output of 80 kW on gas H at an altitude of 800 m, it is necessary to modify the setting of the gas valve

in order to increase its flow from 8.5 m³/h to 9.3 m³/h.

Important : If the flow Q to be measured does not fall into the flow range given for the burner under consideration, a more powerful burner must be chosen. In our example, the G 303-2 S burner is given for a gas H flow ranging between 6.3 and 16.9 m³/h. It is therefore entirely capable of being amended to the required flow of 9.3 m³/h.

GAS CONNECTION

You must comply with the instructions and regulations in force. In all cases, a valve is placed as close as possible to the boiler. A gas filter must be fitted to the boiler inlet.

- All burners are designed to operate on natural gas H – feed pressure: 20 mbars (or 300 mbars for G 300 S/N,

G 40 S and G 50 S)

- G 100 S, G 200 S, G 303-2 S, G 303-3 S and G 53-1 S burners can also operate on butane/propane; an optional conversion kit is available – feed pressure between 28 and 50 mbars

AERATION

This must comply with the prevailing local regulations.

Examples (valid in France)

Top and bottom aeration compulsory

- Top aeration:

Cross section equal to half of the total cross section of the flue gas pipes with a minimum of 2.5 dm²

- Bottom aeration:

Direct air inlet: $S \text{ (dm}^2\text{)} \geq \frac{0,86 \cdot P}{20}$

P = Installed power in kW

The location of air inlets in relation to the high ventilation openings must ensure that air is renewed in the entire volume of the boiler room.

ELECTRICAL CONNECTION

A manually controlled circuit breaker (not provided) must be used to isolate the installation during maintenance, cleaning and repair work; it must simultaneously cut off all unearthed conductors.

⇒ **Electrical connection for G 50 S burners:**

Use flexible cables according to the EN 60 335-1 standard. All cables should be connected to the burner terminal block and must be secured with cable clips, according to the diagrams delivered with the technical instructions.

For installations fitted with a 230 V-50 Hz 3 phase power supply, the star coupling to the motor must be modified into a triangle coupling. The adjustment of the thermal relay must therefore also be changed.

⇒ **G 100 S, G 200 S, G 200 N, G 300 S, G 300 N and G 40 S burners** are delivered with European female sockets (7 pins for the 1-stage burners, or 7 pins + 4 pins for the 2-stage or modulating burners), which have only to be connected to the male sockets coming from the boiler control panel. In addition, G 200 N, G 300 S/N and G 40 S burners are fitted with a 3-pin power relay for the connection of an external solenoid safety valve (not provided) and, for G 303-5 S and G 40 S, a 5-pin power relay for powering the fan motor.

For boilers not fitted with male sockets, the connection can be made according to the electrical diagrams delivered with the technical instructions.

PRESENTATION

G series models are particularly efficient and compact burners designed to obtain high yields and high combustion quality. They can be used on all boilers of whatever make, but are matching particularly well De Dietrich boilers.

- G 100 S and 200 S are 1-stage burners
 - The G 200 N exists in 1-stage or modulating version
 - G 300 S (except G 301-.. S, 1-stage), G 300 N, G 40 S and G 50 S are burners with full modulation, achieved either
 - by using the Diematic-m 3 or Diematic-m Delta control panel fitted to De Dietrich boilers or cascades of boilers
 - or using a regulator to be built into the burner for a 3-point modulation control (regulator RWF 40 optional).
- All these modulating burners operate at 2 progressive stages when fitted to De Dietrich boilers with standard, B3 or K3 control panels or boilers without a control panel.

G 100 S, G 200 S, G 200 N, G 300 S, G 300 N and G 40 burners are designed to obtain:

- **High efficiency and performances**, stable over time
 - Combustion head with calibrated nozzles, which do not need adjustment
 - The Duo-Press system enables high pressure levels for low outputs
- Reduced influence of the chimney
 - Flame monitoring via an ionization sensor
 - Proportional air/gas regulation
- **Compact burners**
 - Transverse fan with optimized dimensions
 - Duo-Press system ensuring high available flow and pressure in a compact volume
 - Intelligent disposition of components
- **Very easy to assemble, install, and maintain**

- Attachment to the boiler using a sliding flange
- Electrical connection using a plug pre-wired to the European standard
- All components grouped on a holder plate
- Rapid horizontal maintenance position thanks to 5 quarter turn screws on the components holder plate with vertical position for the nozzle line
- **Easy access to all components**
 - Use of a single male spanner (hexagonal - 4 mm) to make all adjustments, assemblies and disassemblies
- **Silent running**
 - Soundproofed hood covering all components
 - Combustive air inlet with phonic insulation foam

The design of the G 50 burner offers:

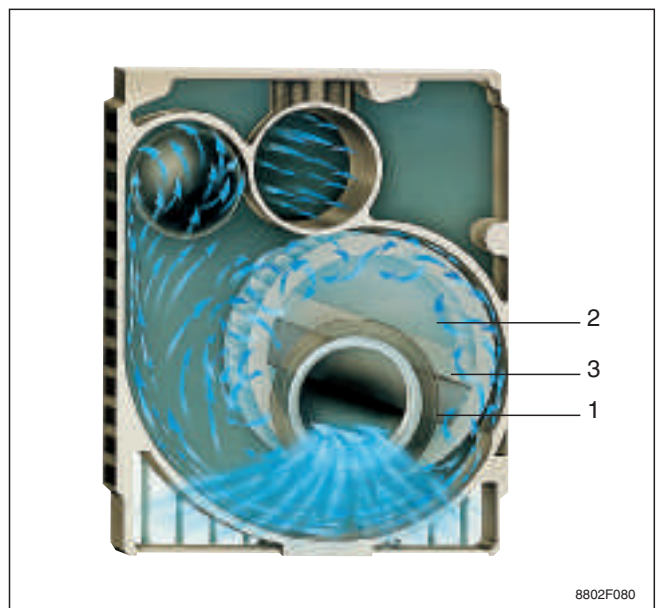
- Simplified installation and maintenance thanks to various technological choices
 - Guidance system offering quick, easy access to the nozzle line without removing the burner from the boiler
 - Optional adjustment of the burner with the hood closed, using the air intake located outside the burner
 - Adjustment of the combustion head using a graduated screw located on the boiler flange
 - Full accessibility to the electrical components hidden away under a waterproof hood
- **Safety and comfort** are ensured by certain careful technological choices
 - Electric motor protected by a manual reset thermal relay
 - Safety control box with warning light and reset button
 - Flame control cell
 - Air flap with automatic closure when the burner stops

DUO-PRESS® SYSTEM (ALL BURNERS EXCEPT G 50 S)

The fan sucks air in to force it back into the combustion head under pressure. Combustive air is sucked into chamber 1, separated from chamber 2 by the deflector 3. As the static pressure in chamber 1 is very high, the air drawn in by the fan gathers considerable force which will enable it to overcome the counter pressure in the combustion chamber. However, the part of this air that does not acquire sufficient force is then taken back into the fan thanks to the partial vacuum which is created in chamber 2. The air thus re-injected is again accelerated by the fan and drawn towards the combustion head.

Advantages

The DUO-PRESS system makes it possible to raise low air flows to very high pressure levels and thus easily overcome the high counter pressures each time the burner is ignited. Furthermore, this fan system is not particularly sensitive to atmospheric variations, thus providing excellent performances even at high altitudes.



G 100 S, G 200 S, G 200 N GAS BURNERS

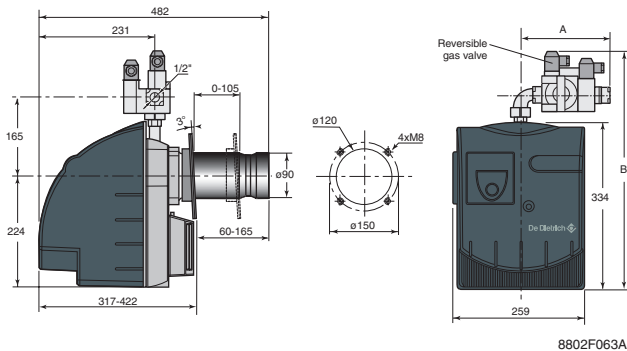
TECHNICAL SPECIFICATIONS

MODEL		G 100 S 1 stage	G 200/1 S 1 stage	G 201/2 N 1 stage	G 203/2 N modulating
Min./max. burner output	kW	16-52	38-79	63-120	50-123
	Mcal/h	13,8-44,7	32,7-67,9	54,2-103,2	43,0-105,8
Min./max. - on natural gas H (1) flow	m ³ /h	1,69-5,50	4,02-8,36	6,66-12,70	5,29-13,02
	kg/h	1,24-4,04	2,95-6,13	4,90-9,32	3,88-9,56
Pressure on nat. gas H min./max.	mbars	6,4-12,4	4,7-12,8	3,6-8,5	1,6-6,5
Matching boilers	GT	123/1203, 124/1204 125/1205, 126/1206	224/2204 225/2205	226, 227, 228 334	226, 227, 228 (3) 334
Preset burner output	kW	26	54	90	70/100
Preset flow on nat. gas H	m ³ /h	2,75	5,71	9,52	74/10,58
Preset pressure on nat. gas H	mbar	10,7	7,3	6,2	2,8/5,3
Max. absorbed power	W	150	155	230	230
Motor output (2)	W	90	90	150	150
Net weight	kg	12,6	13,8	18,5	19

* Min. output (1) 15°C - 1013 mbars (2) 230 V mono (3) GT 227/228 fitted with B2 or D + AD 217 control panels only

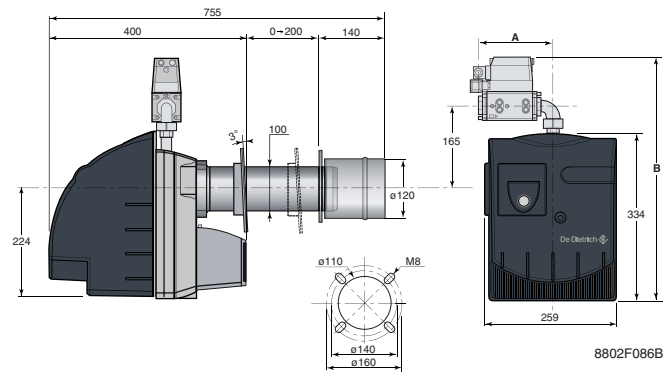
MAIN DIMENSIONS (mm and inches)

G 100 S-G 200 S



	G 100 S	G 200/1 S
A	186	249
B	469	574

G 200 N

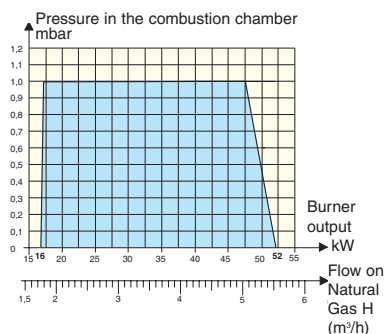


	G 201/2 N	G 203/2 N
A	180	174
B	535	538

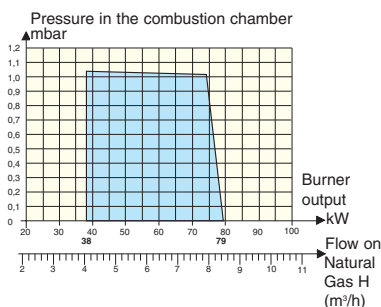
FIRING RATES

(at an altitude of 400 m and at 20°C)

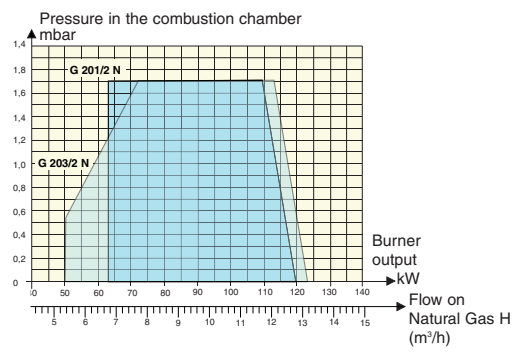
G 100 S



G 200 S



G 200 N



Gas flow at 15°C - 1013 mbars

Lower calorific value - natural gas H: 9.45 kWh/m³
- propane: 12.87 kWh/kg

Burner settings should be done by the fitter in accordance with the specific installation conditions. Burner output should be adapted to the output of the boiler for which it is used, bearing in mind its effective useful efficiency.

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G 100 S, G 200 S, G 200 N GAS BURNERS

DESCRIPTION G 100 S-G 200 S

Gas valve with built-in pressure switch (assembly possible on the right or left)

Flame display hatch

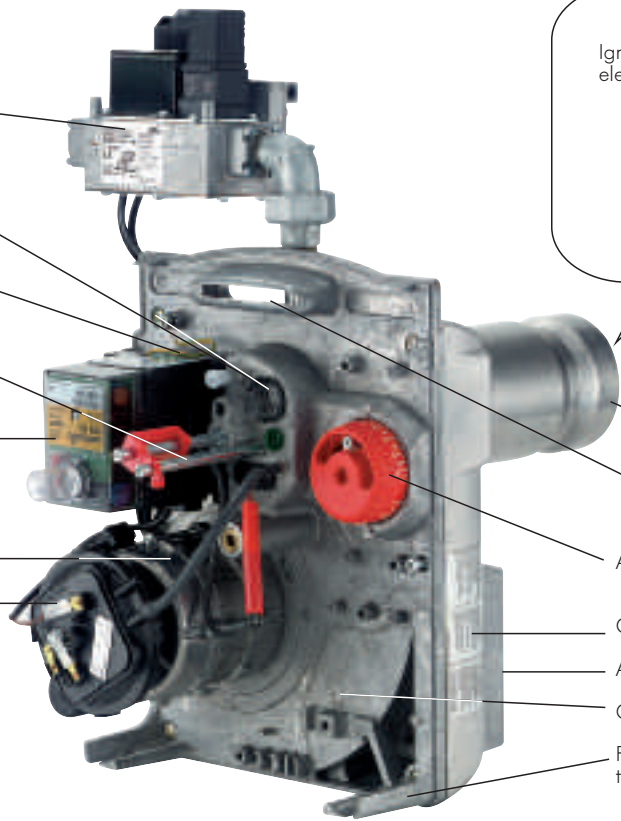
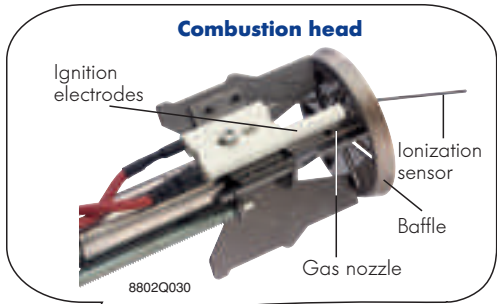
Ignition transformer

Combustion head position adjustment screw

Safety control box with reset button

Motor

Air pressure switch



Flame tube

Handling grip

Air flap adjustment button

Cast aluminum casing

Air box (see p. 71)

Component holder plate

Foot used to dismantle the burner easily

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G 200 N

Reversible Gas train

Handling grip

Ignition transformer

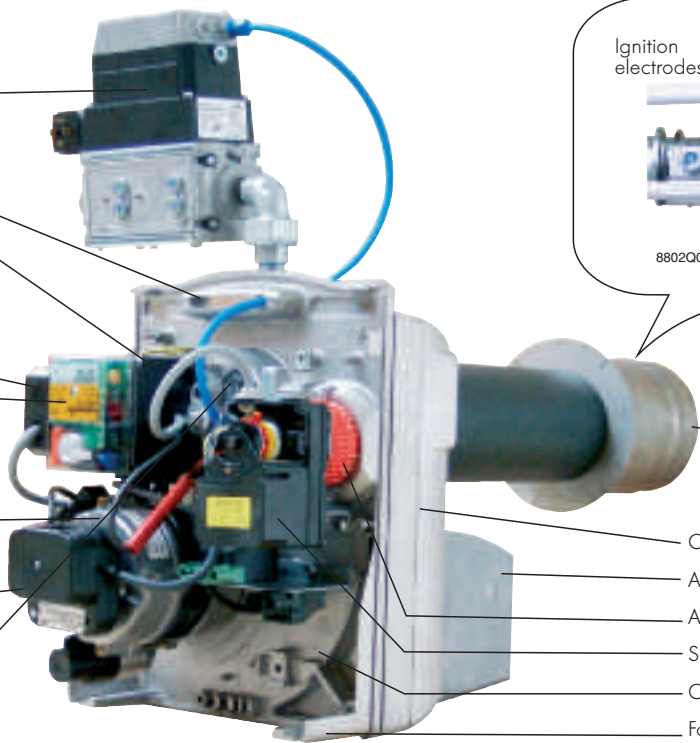
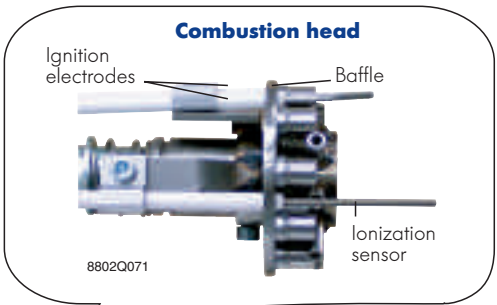
7-pins Wieland plug

Safety control box with reset button

Motor

Air pressure switch

Flame display hatch



Flame tube

Cast aluminium casing

Air box

Air flap adjustment button (G 201/2 NI)

Servomotor (G 203/2 NI)

Component holder plate

Foot used to dismantle the burner easily

8802Q074

OPTION : Conversion kits for butane/propane (G 100 S, G 200 S) or for propane (G 200 NI), see page 12.

G 300 S, G 300 N GAS BURNERS

TECHNICAL SPECIFICATIONS

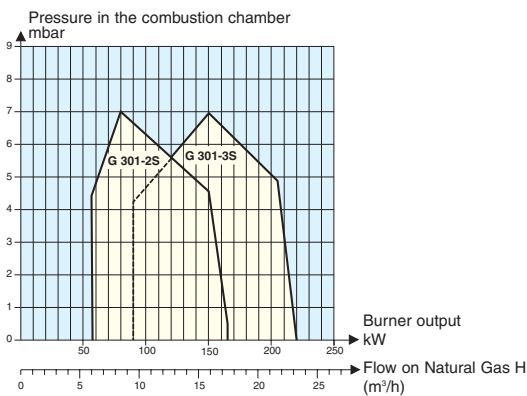
MODEL G 300-..		G 301-2 S	G 301-3 S	G 303-2 S	G 303-3 S (3)	G 303-5 S	G 303-2 N	G 303-3 N	G 303-5 N
Number of stages		1	1	modulating	modulating	modulating	modulating	modulating	modulating
Burner output	kW	60-165	90-220	60-160	90-220	160-410	55-180	60-250	165-405
	Mcal/h	51,6-141,9	77,4-189,2	51,6-137,6	77,4-189,2	137,6-352,5	47,3-154,8	51,6-215,0	141,9-348,2
Flow on natural gas H (1)	m ³ /h	6,35-17,46	9,52-23,28	6,35-16,93	9,52-23,28	16,93-43,39	5,82-19,05	6,35-26,46	17,46-42,85
Pressure on natural gas H	mbar	0,9-7,9	1,5-6,5	1,4-7,5	1,5-7,3	1,3-10	0,9-9,0	1,0-12,5	1,2-9,3
Matching boilers	GT	335	336	335	336	337, 338, 339	335	336, 337	338, 339
Preset burner output 1st/2nd stage	kW	85	153	90/130	120/195	200/300	65/130	90/200	200/300
Preset flow on natural gas H	m ³ /h	9,0	16,19	9,52/13,76	12,70/20,63	21,16/31,75	6,88/13,76	9,52/21,16	21,16/31,75
Preset pressure on natural gas H	mbar	2,4	3,5	2,5/5	2,4/6	2,4/6,2	1,3/5,4	1,6/8,3	2,4/6,2
Motor output (2)	W	380	380	380	380	650	380	380	650
Noise level at 1 m	dB(A)	69	69	69	70	72	67	68	70
Net weight kg		28,5	30	27,9	30	34	29,7	33,3	37

(1) 15°C - 1013 mbar (2) 230 V mono (3) This burner has 2 executions depending on the gas pressure supply (20 or 300 mbar). Please specify when passing orders.

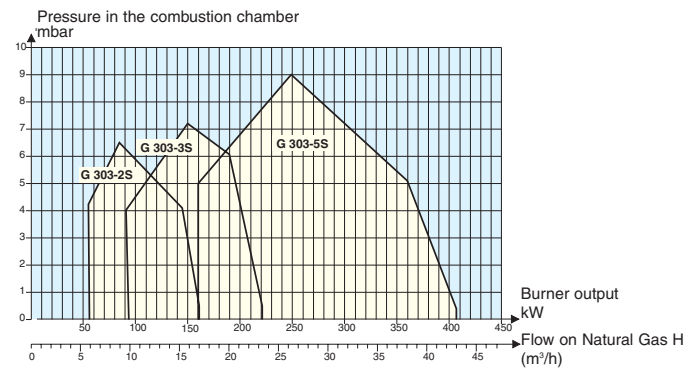
FIRING RATES

(at an altitude of 400 m and at 20°C)

G 301-. S

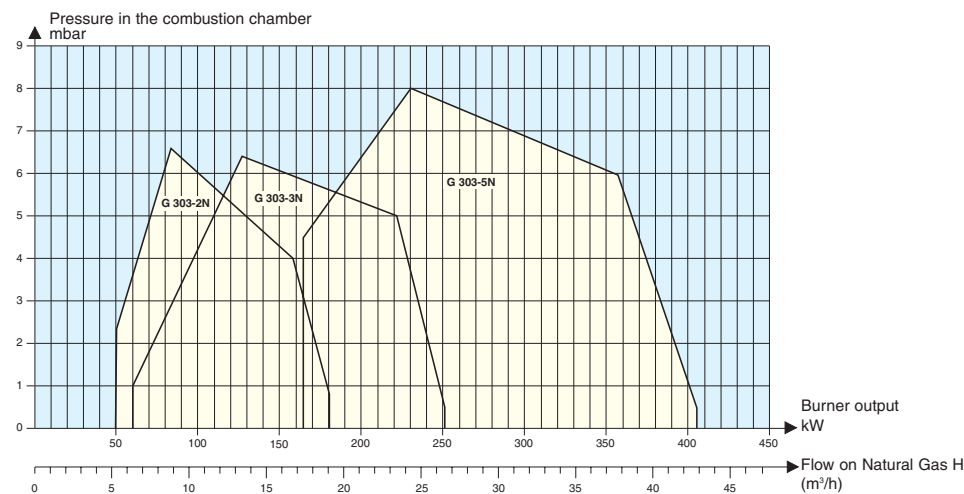


G 303-. S



G300_F0012

G 303 N



Gas flow at 15°C - 1013 mbars

Lower calorific value - natural gas H: 9.45 kWh/m³

- propane: 12.87 kWh/kg

G300_F0011

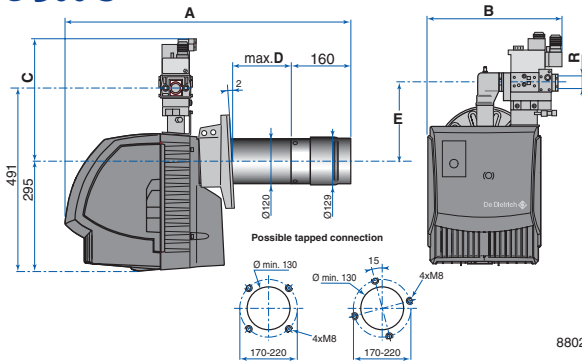
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Burner settings should be done by the fitter in accordance with the specific installation conditions. Burner output should be adapted to the output of the boiler for which it is used, bearing in mind its effective useful efficiency.

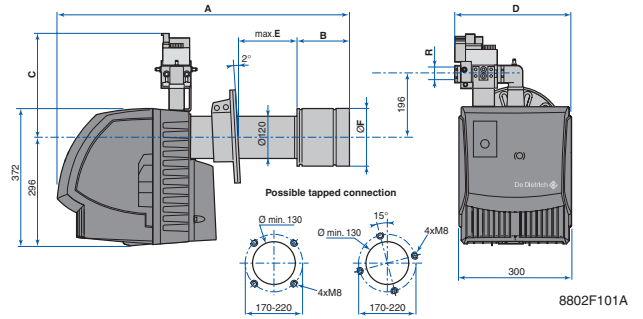
G 300 S, G 300 N GAS BURNERS

MAIN DIMENSIONS (mm and inches)

G 300 S



G 300 N

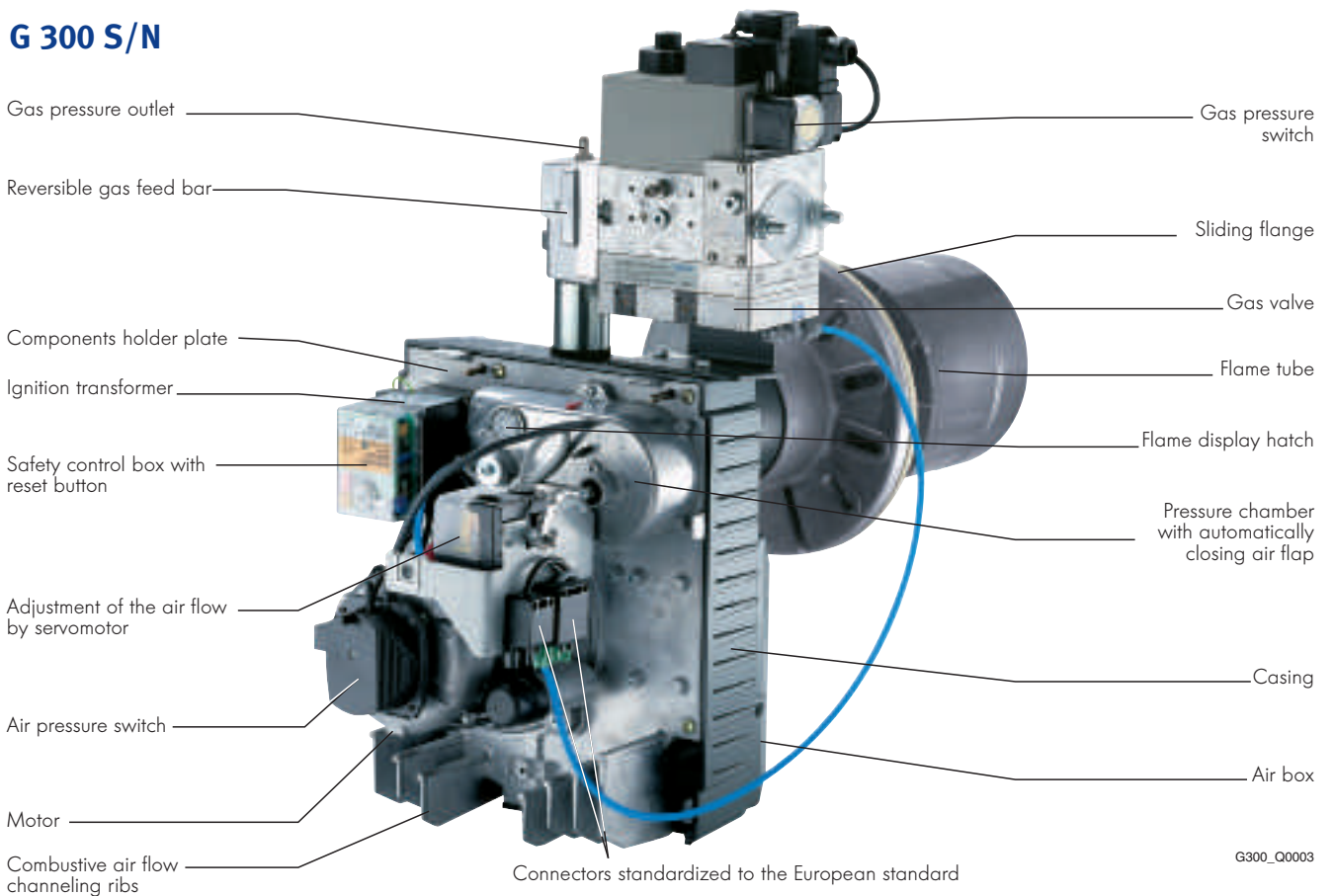


Type	A	B	C	D	E	R
G 301-2 S/-3 S	766	330	284	190	143	Rp 3/4
G 303-2 S/-3 S	766	356	310	190	196	Rp 3/4
G 303-5 S	906	370	310	220	196	Rp 1 1/4

Type	A	B	C	D	E	F	R
G 303-2 N	798	156	310	356	190	215	Rp 3/4
G 303-3 N	798	188	330	370	190	215	Rp 1 1/4
G 303-5 N	938	216	330	370	170	245	Rp 1 1/4

DESCRIPTION

G 300 S/N



Represented model : G 300 N

OPTION : Conversion kit for butane/propane for G 303-2 S and 303-3 S : see page 12

G 40 S GAS BURNERS

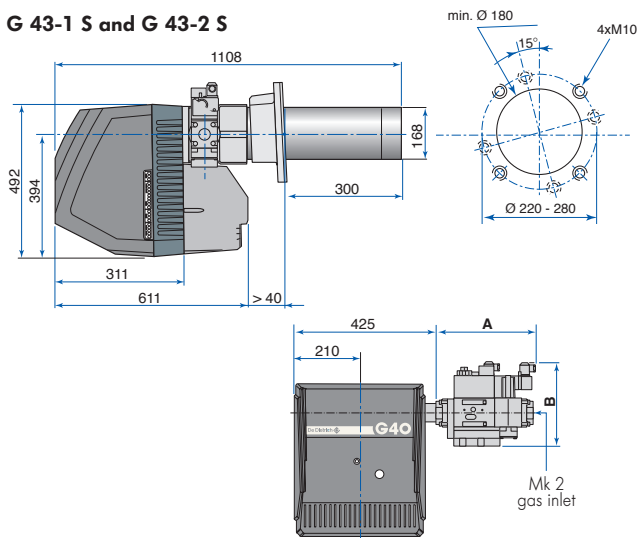
TECHNICAL SPECIFICATIONS

MODEL		G 43-1 S	G 43-2 S	G 43-3 S
MODULATING WITH DIEMATIC-M3 CONTROL				
Burner output	kW	205 - 590	220 - 720	345 - 1030
	Mcal/h	176,3-507,3	189,2-619,0	296,6-885,6
Power supply		230 V ~ mono/50 Hz	230-400 V ~ 3 phase/50 Hz	230-400 V ~ 3 phase/50 Hz
Flow on natural gas H (l)	m ³ /h	21,7 - 62,4	23,3 - 76,2	36,5 - 109,0
Pressure on natural gas H	mbar	1,9 - 8,9	1,3 - 11,9	1,3 - 11,1
Matching boilers	GT 430	430-8, 430-9	430-10, 430-11	430-12 to -14
	GT 530	530-7, 530-8	530-9, 530-10	530-11 to -16
Pre-setting (boiler input power) min./max.	kW	260/415	315/550	410/695
Min./max. preset gas flow on natural gas H	m ³ /h	27,5/43,9	33,3/58,2	43,4/73,5
Min./max. preset gas pressure on natural gas H	mbar	2,2/5,6	3,0/8,3	1,8/6,2
Nominal motor power at 2850 rpm	W	750	1500	2200
Shipping weight	kg	67	68	78

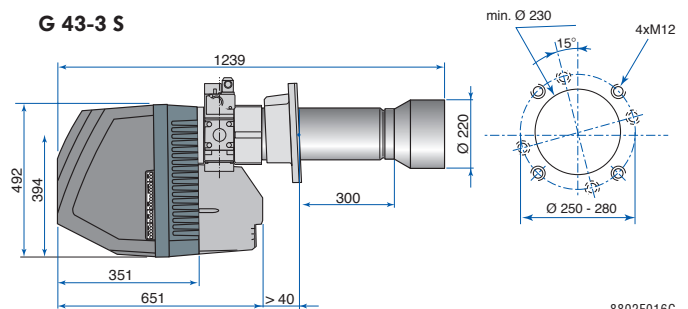
(l) 15 °C - 1013 mbar

MAIN DIMENSIONS (mm and inches)

G 43-1 S and G 43-2 S



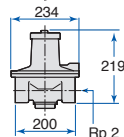
G 43-3 S



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GDI50 pressure regulator for operating at 300 mbars

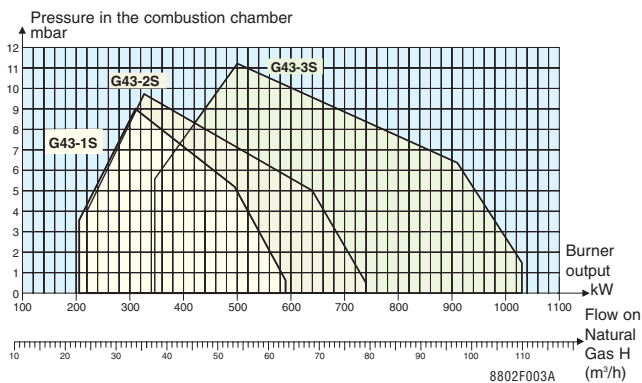
This will be located at a minimum distance of 50 cm upstream from the gas train.



G 40 with DMV VEF gas train	512	520	525
A	310	310	270
B	250	285	380

FIRING RATES

(at an altitude of 400 m and at 20°C)



Gas flow at 15°C - 1013 mbars

Nat. gas H: LCV: 9.45 kWh/m³.

Burner settings should be done by the fitter in accordance with the specific installation conditions. Burner output should be adapted to the output of the boiler for which it is used, bearing in mind its.

CHOICE OF GAS TRAIN

for the burner selected, depending on:

- the nature and pressure of the gas supply
- the pressure in the combustion chamber for the boiler under consideration
- the maximum burner output desired

Combustion chamber pressure (mbar)	Maximum burner output (kW)							Nature and pressure of supply (mbar)	Gas bar type DMV-VEF ...
	0	1	2	3	4	5	6		
G 43-1 S (205 → 590 kW)	590	580	560	540	520	500	460	G20 - 20	512
	590	580	560	540	520	500	460		G20 - 300
G 43-2 S (220 → 720 kW)	630	610	590	570	545	525	500	G20 - 20	512
	720	700	675	655	640	610	585		520
	720	710	690	675	660	640	590		525
G 43-3 S (340 → 1030 kW)	720	710	690	675	660	640	590	G20 - 300	512+GDJ 50
	725	700	675	650	625	600	575		512
	880	865	850	800	775	745	715		520
	980	955	925	900	850	825	795		525
	1030	1030	1020	995	970	940	920	G20 - 300	512+GDJ 50

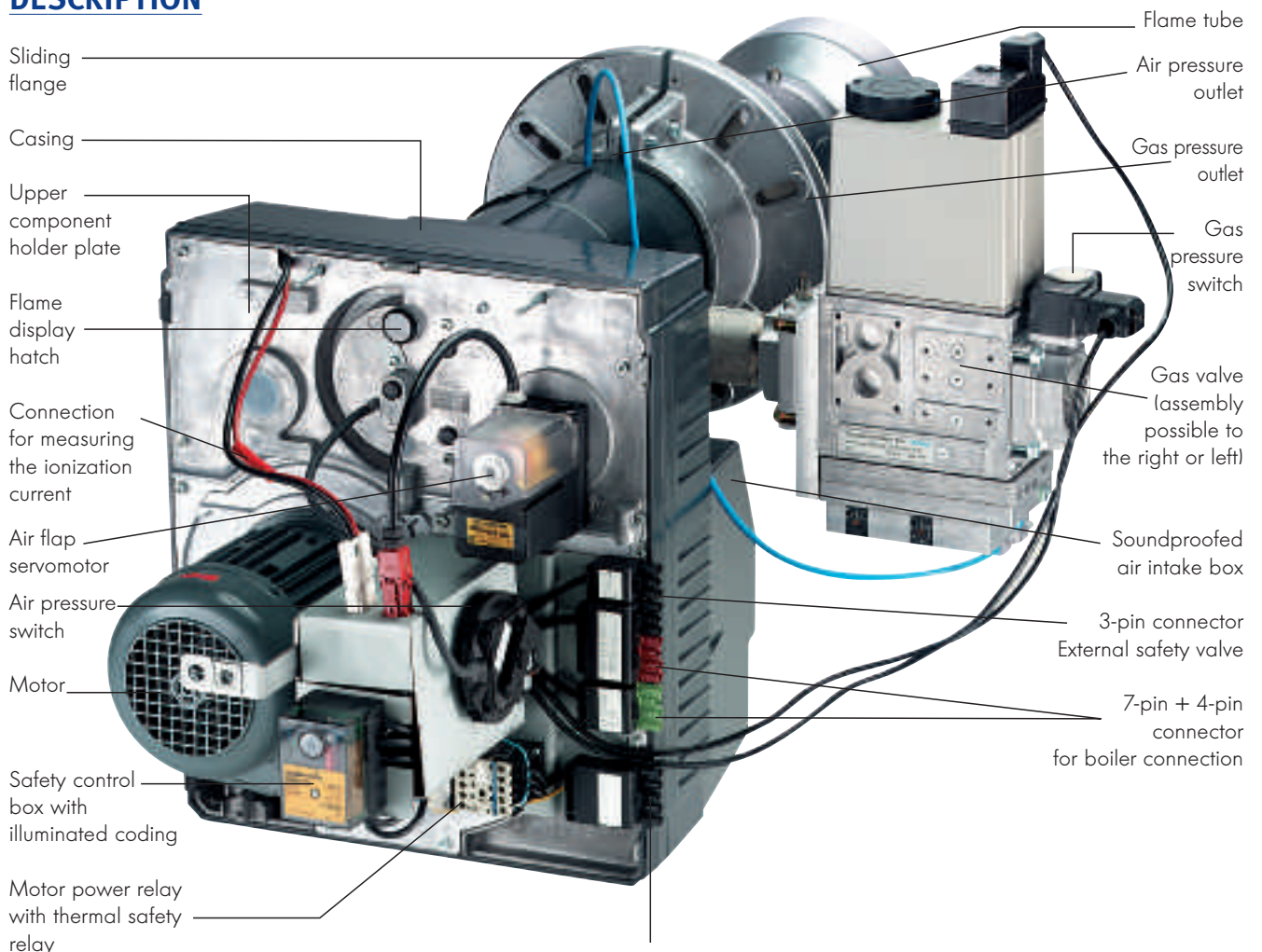
E.g.: You wish to fit a boiler with a G 40 requiring a burner output of 600 kW. The type of gas available is the G 20 at 20 mbars feed pressure. The counter pressure in the combustion chamber on this boiler is 3 mbars. The burner chosen according the output curves is the G 43-2 S. To obtain an output of 600 kW with the given type of gas and the pressure in the combustion chamber, it must be fitted with gas valve type DMV-VEF 520.

G 40 S GAS BURNERS

RECOMMENDATION OF THE TYPES OF BURNER AND GAS TRAINS FOR BOILERS IN THE GT 400 AND GTE 500 RANGES

BOILER TYPE	RECOMMENDED BURNER TYPE	SUPPLY PRESSURE TYPE	GAS TRAINS TYPE	PRESSURE REGULATOR TYPE	BOILER TYPE	RECOMMENDED BURNER TYPE	SUPPLY PRESSURE TYPE	GAS TRAINS TYPE	PRESSURE REGULATOR TYPE
GT 430-8	G 43-1S	20 mbar 300 mbar	DMV VEF 512 DMV VEF 512	- GDJ 50	GT 530-9	G 43-2S	20 mbar 300 mbar	DMV VEF 512 DMV VEF 512	- GDJ 50
GT 430-9	G 43-1S	20 mbar 300 mbar	DMV VEF 512 DMV VEF 512	- GDJ 50	GT 530-10	G 43-2S	20 mbar 300 mbar	DMV VEF 520 DMV VEF 512	- GDJ 50
GT 430-10	G 43-2S	20 mbar 300 mbar	DMV VEF 520 DMV VEF 512	- GDJ 50	GT 530-11	G 43-3S	20 mbar 300 mbar	DMV VEF 520 DMV VEF 512	- GDJ 50
GT 430-11	G 43-2S	20 mbar 300 mbar	DMV VEF 525 DMV VEF 512	- GDJ 50	GT 530-12	G 43-3S	20 mbar 300 mbar	DMV VEF 520 DMV VEF 512	- GDJ 50
GT 430-12	G 43-3S	20 mbar 300 mbar	DMV VEF 520 DMV VEF 512	- GDJ 50	GT 530-13	G 43-3S	20 mbar 300 mbar	DMV VEF 520 DMV VEF 512	- GDJ 50
GT 430-13	G 43-3S	20 mbar 300 mbar	DMV VEF 520 DMV VEF 512	- GDJ 50	GT 530-14	G 43-3S	20 mbar 300 mbar	DMV VEF 525 DMV VEF 512	- GDJ 50
GT 430-14	G 43-3S	20 mbar 300 mbar	DMV VEF 525 DMV VEF 512	- GDJ 50	GT 530-15	G 43-3S	20 mbar 300 mbar	DMV VEF 525 DMV VEF 512	- GDJ 50
GT 530-7	G 43-1S	20 mbar 300 mbar	DMV VEF 512 DMV VEF 512	- GDJ 50	GT 530-16	G 43-3S	20 mbar 300 mbar	DMV VEF 525 DMV VEF 512	- GDJ 50
GT 530-8	G 43-1S	20 mbar 300 mbar	DMV VEF 512 DMV VEF 512	- GDJ 50					

DESCRIPTION



5-pin connector for the fan motor (mono or 3 phase)

G 50 S GAS BURNERS

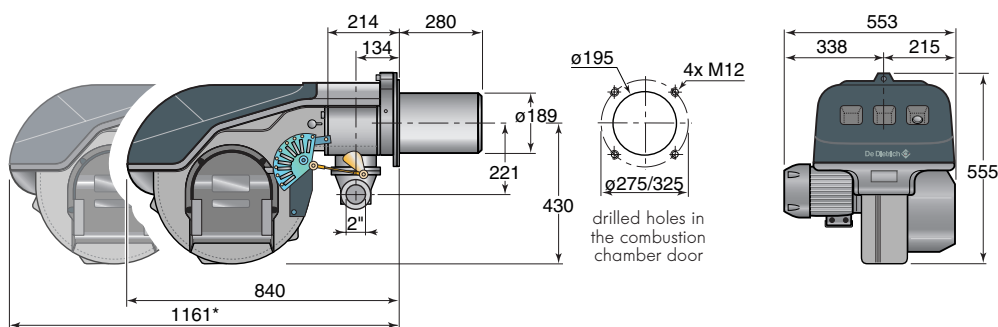
TECHNICAL SPECIFICATIONS

MODELS	- MODULATING	G 53-1S	G 53-2S
Burner output	kW	160*/930-1512	470*/1279-2290
	Mcal/h	137,6*/800,0-1300,0	404,1*/1100,0-1969,0
Flow on natural gas (l)	m ³ /h	16,9/98,4-160,0	49,7/135,3-242,3
Matching boilers	GT	530-17 to -23	530-24, 530-25
Power supply		230/400 V 3 phase - 50 Hz	230/400 V 3 phase - 50 Hz
Nominal motor power	W	2200	4500
Max. absorbed power	W	2600	5500
Noise level	dB (A)	78,5	83,5
Shipping weight	kg	76	82

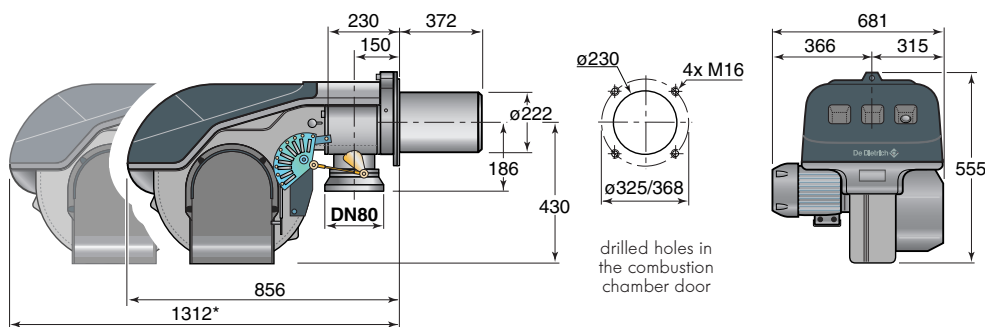
*Max. power 1st stage (l) 15°C - 1013 mbars

MAIN DIMENSIONS (mm and inches)

G53-1S



G53-2S

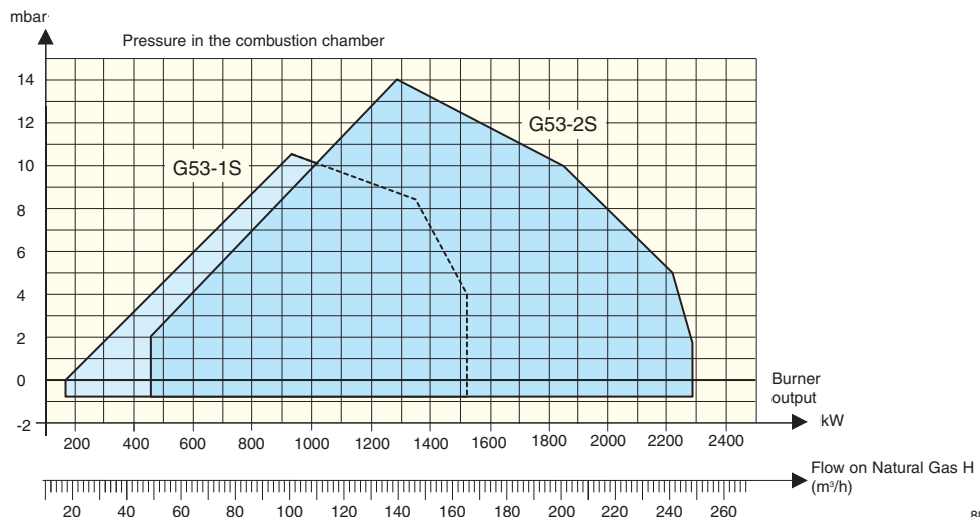


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(*) This dimension corresponds to the space taken up by the burner when opened for maintenance

FIRING RATES

(at an altitude of 100 m and at 20°C)



8802F033

Gas flow at 15°C -1013 mbars

Natural gas H: LCV = 9,45 kWh/m³

Burner settings should be done by the fitter in accordance with the specific installation conditions. Burner output should be adapted to the output of the boiler for which it is used, bearing in mind its effective useful efficiency.

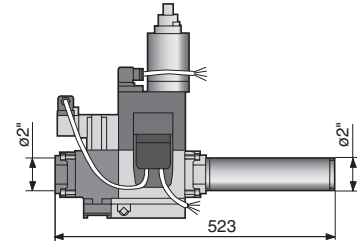
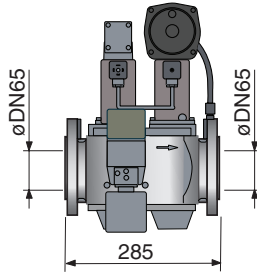
G 50 S GAS BURNERS

GAS TRAINS: assembly possible to the right or left

G 50 S burners should be complemented with a gas train dependent on the gas supply pressure:

- VGD 40.065 CTD for a supply pressure of 20 mbar


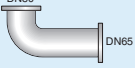
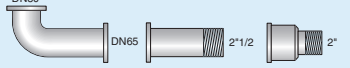
- MBD 420 CTD for a supply pressure of 300 mbar.



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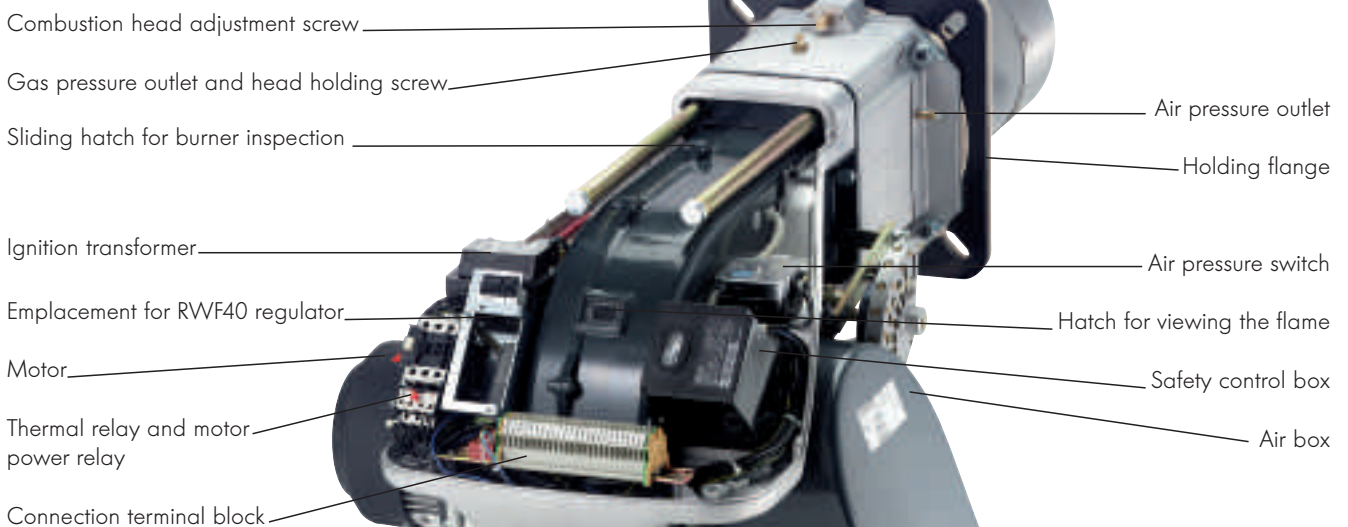
These 2 valves are both factory fitted with a VPS 504 tightness controller.

Choice of the gas train and the burner / train adaptor depending on the gas supply pressure

BURNER TYPE	GAS FEED PRESSURE	
	20 mbar	300 mbar
G53-1S	Gas train: VGD 40.065 CTD Adaptor: DN 65 - 2" 	Gas train: MBD 420 CTD Adaptor: -
G53-2S	Gas train: VGD 40.065 CTD Adaptor: DN 80 - DN 65 (angle) 	Gas train: MBD 420 CTD Adaptor: DN 80 - DN 65 + DN 65 - 2" 

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DESCRIPTION



8802Q41


G53-2S
(model shown)

OPTIONS


	<p>Butane / propane conversion kit</p> <p>for G 100 S : ref. 8802-7289 for G 200 S : ref. 8802-7290 for G 303-2 S : ref. 200005840 for G 303-3 S : ref. 200005841</p>
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	<p>Propane conversion kit (for G 200 N only)</p> <p>ref. 200001978</p>
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	<p>VPS 504 cyclical tightness controller (for G 300 S, G 300 N, G 40 S)</p> <p>This appliance is fitted to the gas valve and controls the tightness of the solenoid valves before starting up and after stopping the burner. If a valve fails, the burner is prevented from operating.</p>
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 <p>8802G163</p>	<p>RWF 40 regulator (for G 300 S, G 300 N, G 40 S and G 50 S)</p> <p>for G 40 S and G 300 S/N: ref. 8802-7294 for G 50 S: ref. 8802-7295</p> <p>When replacing an old burner, for example on a boiler without a control unit, or when applying an industrial type process, this regulator is used to pilot burner modulation depending on the outside temperature.</p>
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	<p>Kit for operating the burner at 2 stages (for G 40 S only)</p> <p>Ref. 8802-7317</p> <p>This enables burners G 40 to operate at 2 stages on boilers fitted with a control panel, controlled by a 2-point thermostat.</p>
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	<p>Soundproof box (for G 300 S, G 300 N, G 40 S)</p> <p>Soundproof box can be used to reduce the acoustic level of the burners by another - 20 dBA.</p> <table border="1"> <thead> <tr> <th></th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>for G 300 S/N ref. 8802-7180</td> <td>510</td> <td>790</td> <td>620</td> <td>355 to 870</td> </tr> <tr> <td>for G 40 S ref. 8802-7182</td> <td>898</td> <td>780</td> <td>1163</td> <td>515 to 830</td> </tr> </tbody> </table>		A	B	C	D	for G 300 S/N ref. 8802-7180	510	790	620	355 to 870	for G 40 S ref. 8802-7182	898	780	1163	515 to 830
	A	B	C	D												
for G 300 S/N ref. 8802-7180	510	790	620	355 to 870												
for G 40 S ref. 8802-7182	898	780	1163	515 to 830												

 <p>8802Q011</p>	<p>Trolley (for G 40 only)</p> <p>This trolley is required for all boilers fitted with a combustion chamber door that is difficult to manipulate to access the interior of the combustion chamber. In this scenario, the combustion chamber door is removed using the trolley. The door + burner unit is removed.</p>
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	<p>Burner plate</p> <p>Please contact us</p> <p>In case of replacing a burner on an boiler from an other manufacturer with a De Dietrich burner of the G 300 S/N range, this plate can be adapted on the burner door of the existing boiler.</p>
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For G 50 S only:

	<p>Heating cartridge</p> <p>for VGD 40065CTD gas train</p>
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