FUEL OIL BURNERS

PRESSURE JET FUEL OIL BURNERS



M 100 S - M 200 S



M 300 S



M 40 S



M 50 S

OUTPUT
from 16 to 2443 kW
(13,8 to 2100 Mcal/h)

MODELS AVAILABLE

- **M 100 S,** 16 to 47 kW (13,8 to 40,4 Mcal/h)
  1-stage fuel oil burners, low-NOx (< 120 mg/kWh),
  see page 4
- **M 100 N,** 17 to 49 kW (14,6 to 42,1 Mcal/h)
  1-stage fuel oil burners, Eco.NOx (< 110 mg/kWh),
  see page 6
- **M 200 S,** 38 to 125 kW (32,7 to 107,5 Mcal/h)
  Fuel oil burners, 1-stage (M 200/1 S and M 201/2 S) or 2-stage (M 202/2 S), low-NOx (< 120 mg/kWh),
  see page 4
- **M 200 N,** 40 to 73 kW (34,4 to 62,8 Mcal/h)
  1-stage fuel oil burners, Eco.NOx (< 110 mg/kWh),
  see page 6
- **M 300 S,** 75 to 460 kW (64,5 to 395,5 Mcal/h)
  Fuel oil burners, 1-stage (M 301-.. S) or 2-stage (M 302-.. S), low-NOx (< 185 mg/kWh), see page 8
- **M 40 S,** 185 to 1050 kW (159 to 902,8 Mcal/h)
  2-stage fuel oil burners, low-NOx,
  see page 10
- **M 50 S,** 486 to 2443 kW (417,9 to 2100,6 Mcal/h)
  2-stage fuel oil burners, low-NOx,
  see page 12

FUNCTION

Equipment for boilers

FUELS

Domestic fuel oil

CE

Complies with the requirements of European Directives
- 73/23 EEC, Low Voltage Directives
- 89/336 EEC, Electromagnetic Compatibility Directives

Identification no. according to EN 267:

M 100 S : 5G970/05
M 100 RS : 5G969/2001
M 100/1N : 5G968/02001
M 100/2N : 5G986/2002
M 200/1 S : 5G990/2002
M 201/2 S : 5G1003/03
M 202/2 S : 5G1004/03
M 200 N : 5G1002/03
M 301-2 S : 5G394/04
M 301-3 S : 5G395/04
M 301-4 S : 5G396/04
M 302-1 S : 5G887/03
M 302-2 S : 5G442/05
M 302-3 S, 4 S : 5G1020/05
M 302-5 S, 6 S : 5G1019/05
M 42-1 S : 5G940/04
M 42-2 S, 3 S, 4 S : 5G941/04
M 42-5 S : 5G942/04
M 52-1 S : OB1812006T1
M 52-2 S : OB1822006T1

De Dietrich

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PRESENTATION

M series models are particularly efficient and compact 1- or 2-stage, 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.

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

- **High efficiency and performances,** stable over time
  - New combustion head enabling an optimum combustive air / fuel oil mixture
  - The Duo-Press system enables high pressure levels for low outputs, whence improved start-up properties and clean, stable combustion
  - M 300, M 40: air flow set at the fan outlet opening using a hemispherical system with proportional adjustment
- **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 service**
  - Attachment to the boiler using a sliding flange
  - Mains connection using a plug pre-wired to European standards (2 plugs on 2-stage models)
  - All components grouped on a holder plate
  - Horizontal position for quick maintenance of the components holder plate with vertical position for the nozzle line
  - **Easy access to all components**
  - Maintenance position quickly achieved thanks to the 5 quarter-turn screws on the component holder plate
  - Use of a single male spanner (hexagonal - 4 mm) to make all adjustments (including fuel oil pressure), assemblies and disassemblies
  - Easy adjustments using sliding graduated gauges and simplified servomotor.
- **Silent running**
  - for M100 S/N, M 200 S/N:
    - Integrated noise-absorber
    - Air guide at the flame tube inlet
  - and for all burners
    - Soundproofed hood covering all components
    - Combustive air inlet with phonic insulation foam

The design of the M 50 burner offers:

- Simpified 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 inlet located outside the burner
  - Easy adjustment of the combustion air inlet using a 3-position jack
  - 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
- **The built-in control panel includes**
  - Display of the operating phase
  - Control of the ignition cycle
  - Indicator of the number of hours of burner operation
  - Identification of breakdowns
- **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
  - Inversed fan blades providing a low noise level (78.5 dB(A)).

DUO-PRESS® SYSTEM (ALL BURNERS EXCEPT M 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.



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M 100 S, M 200 S FUEL OIL BURNERS

TECHNICAL SPECIFICATIONS

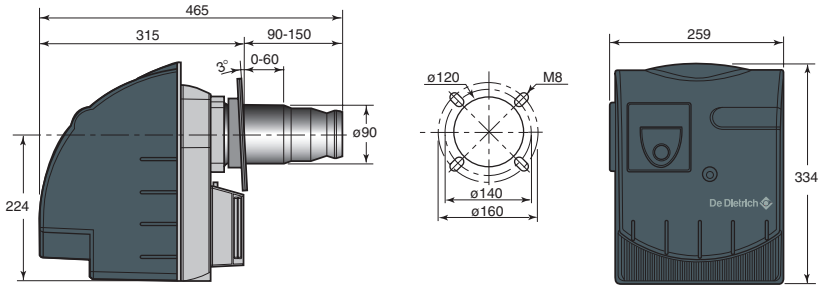
MODEL		M 100 RS*	M 100/1 S	M 100/2 S	M 200/1 S	M 201/2 S	M 202/2 S (2 stage)
Burner output	kW	16-31	22-33	29-47	38-71	60-124	55**/80-125
	Mcal/h	13,8-26,7	18,9-28,4	24,9-40,4	32,7-61,0	51,6-106,6	47,3**/68,8-107,5
Fuel oil flow rate (1)	kg/h	1,35-2,60	1,85-2,80	2,45-4,00	3,21-6,00	5,07-10,47	4,65/6,76-10,56
Preset output	kW	22	28	33	55	75	55**/80
Matching boilers	GT GT GT	123/1203 - -	123/1203 - -	124/1204,125/1205 - -	126/1206 224/2204, 225/2205 -	226 227, 228 334	226 227, 228 (3) -
Recommended injection nozzle for these boilers	US Gal/h US Gal/h US Gal/h	0,65/45°S - -	0,55/60°S - -	0,65/45°S, 0,85/45°S - -	0,85/60°S 1,10/45°S, 1,50/45°S -	1,75/45°S 2,00/45°S, 2,25/45°S 2,00/45°S	1,50/45°S 1,50/45°S, 1,75/45°S -
Max. absorbed power	W	215	185	185	215	245	250
Motor output (2)	W	90	90	90	120	150	150
Noise level at 1 m	dB (A)	58	59	60	68	66	66
Net weight	kg	12	12	12	12	17	18

* burner with preheater ** min. output at 1st stage

(1) Maximum viscosity 6.0 mm^2/s at 20°C (2) 230 V mono (3) for GT 226, 227, 228 fitted with B2 or D + AD 217 control panel only

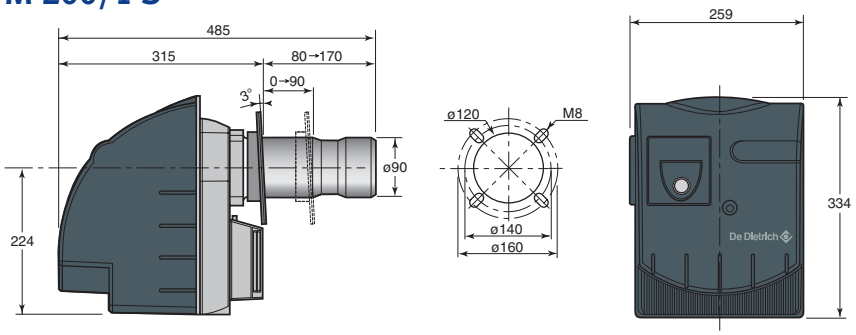
MAIN DIMENSIONS (mm and inches)

M 100 RS, M 100/1 S, M 100/2 S

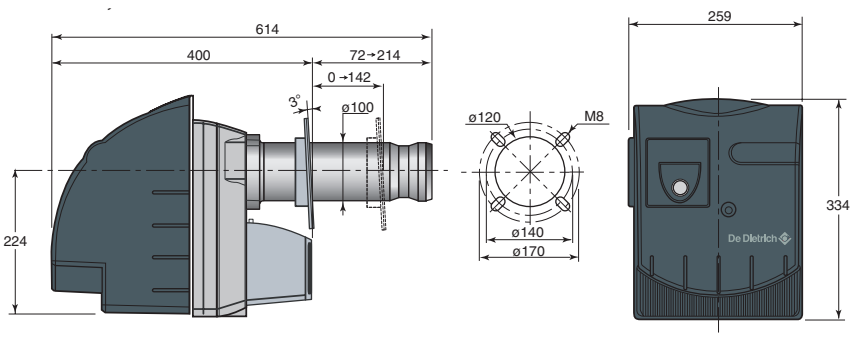


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M 200/1 S



M 201/2S, M 202/2 S

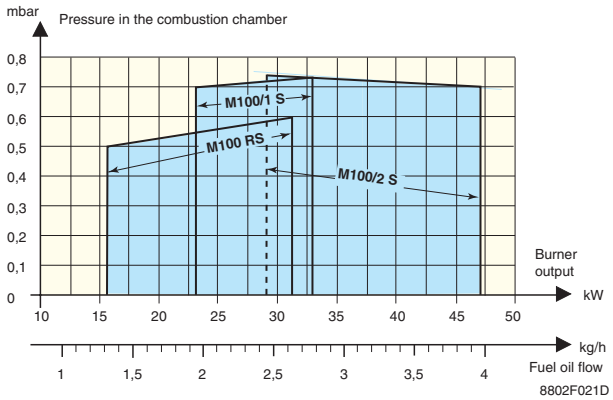


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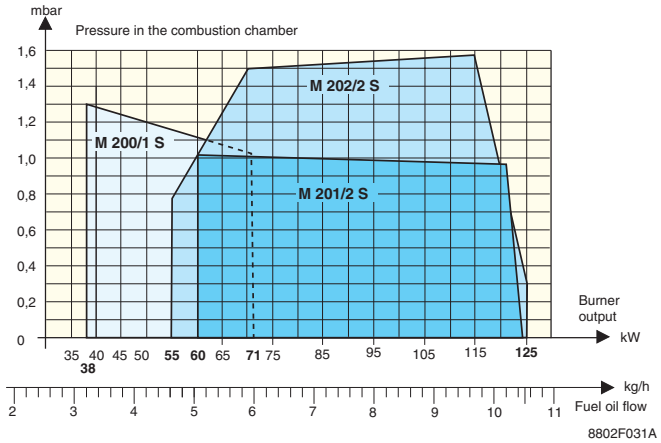
M 100 S, M 200 S FUEL OIL BURNERS

FIRING RATES

M 100 RS, M 100/1 S, M 100/2 S



M 200/1 S, M 201/2 S, M 202/2 S



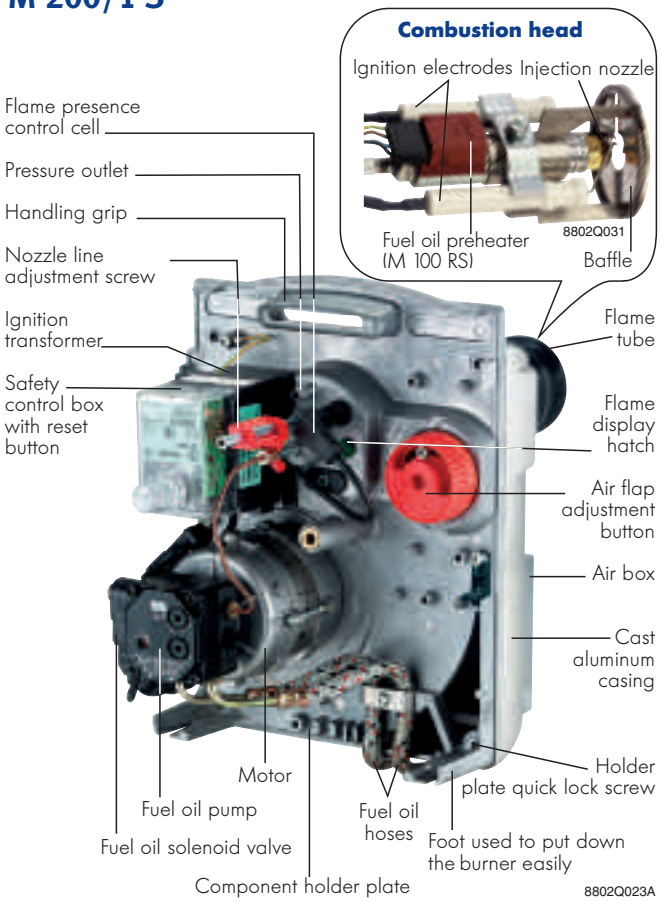
Power at an altitude of 400 m and at 20°C.
Low calorific value of the fuel oil: 11.86 kWh/kg.

Attention : The burner output decreases with the altitude increase: 1,3 % per 100 m

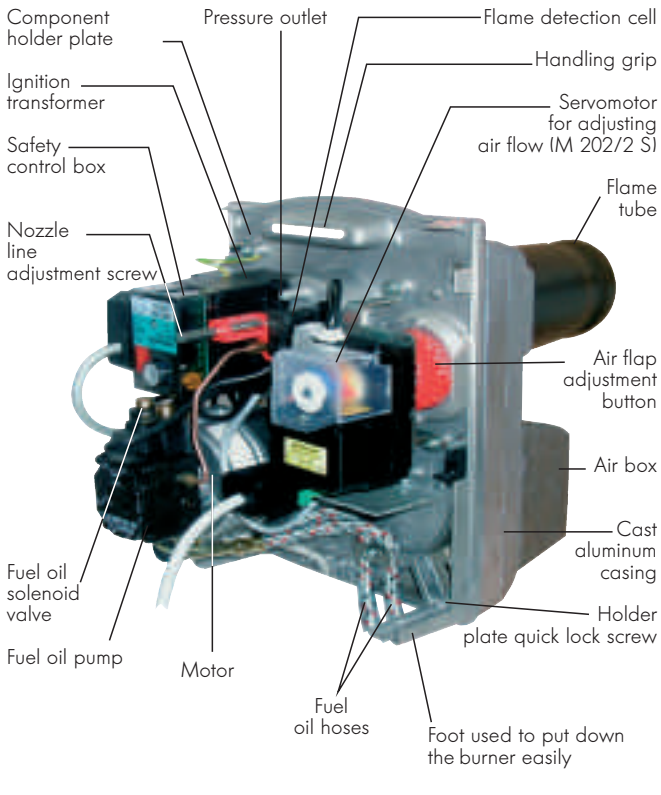
The selection of the model, the adaptation of the nozzle and the settings should be done by the fitter in accordance with the specific installation conditions.
The flow pressure curve is used to check the adaptation of the boiler concerned.
Burner output should be adapted to the output of the boiler for which it is used, bearing in mind its effective useful efficiency.

DESCRIPTION

M 100 RS, M 100/1 S, M 100/2 S M 200/1 S



M 201/2 S, M 202/2 S



M 100 N, M 200 N FUEL OIL BURNERS

TECHNICAL SPECIFICATIONS

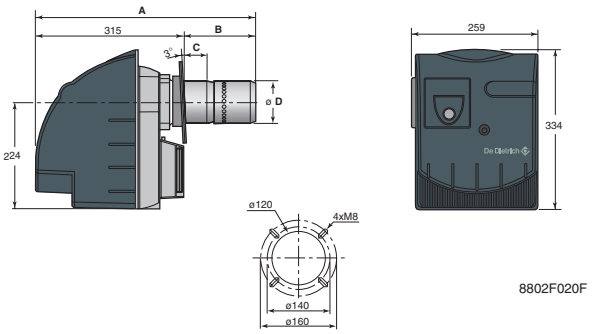
MODEL		M 100/1 N	M 100/2 N	M 201/2 N
Burner output	kW	17-31	30-49	40-73
	Mcal/h	14,6-26,6	25,8-42,1	34,4-62,8
Fuel oil flow rate (1)	kg/h	1,4-2,6	2,5-4,1	3,4-6,1
Preset output	kW	22	39	60
Matching boilers with … kW output, and equiped with … injection nozzle	GT	GT 123/1203: 16-19 kW: 0,45/60°HF 19-24 kW: 0,50/60°HF 24-26 kW: 0,60/60°HF GT 124/1204: 26-27 kW: 0,60/60°HF	GT 124/1204: 27-29 kW: 0,65/60°HF 29-33 kW: 0,75/60°HF GT 125/1205: 33-35 kW: 0,75/60°HF 35-40 kW: 0,85/60°HF GT 126/1206: 40-44 kW: 1,00/60°HF	GT 1261206: 44-47 kW: 1,00/80°W GT 224/2204: 40-50 kW: 1,25/80°W GT 225/2205: 50-64 kW: 1,50/80°W
Max. absorbed power	W	210	240	215
Motor output (2)	W	90	120	120
Noise level at 1 m	dB(A)	60	65	66
Net weight	kg	12	12	17

(1) Maximum viscosity 6,0 mm^2/s at 20°C

(2) 230 V mono

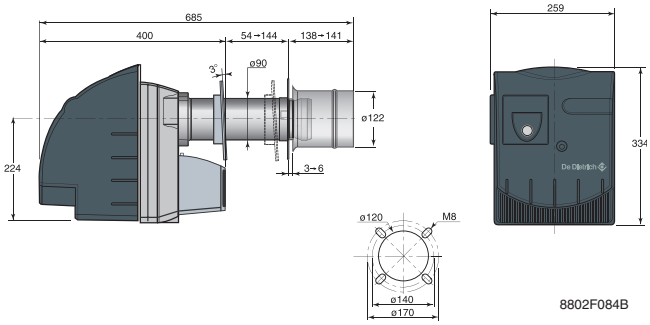
MAIN DIMENSIONS (mm and inches)

M 100/1 N, M 100/2 N



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M 201/2 N

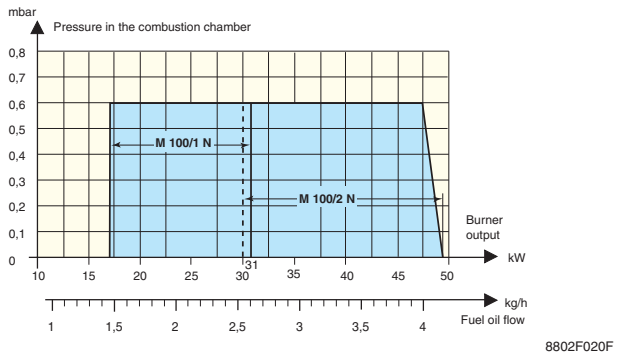


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	A	B	C	D
M 100/1 N	565	140-250	0-110	Ø 90
M 100/2 N	574	140-259	0-128	Ø 100

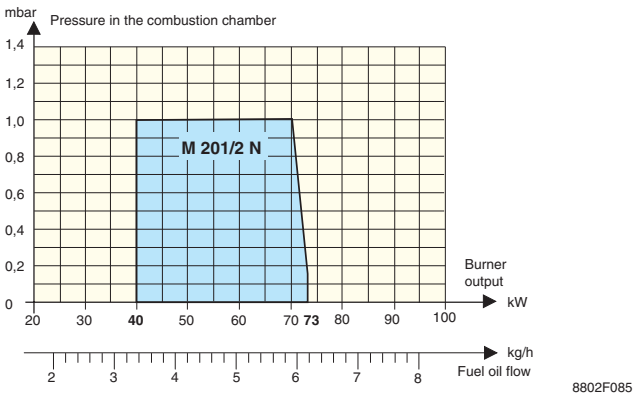
FIRING RATES

M 100/1 N, M 100/2 N



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M 201/2 N



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Power at an altitude of 400 m and at 20°C.
Low calorific value of the fuel oil: 11.86 kWh/kg.

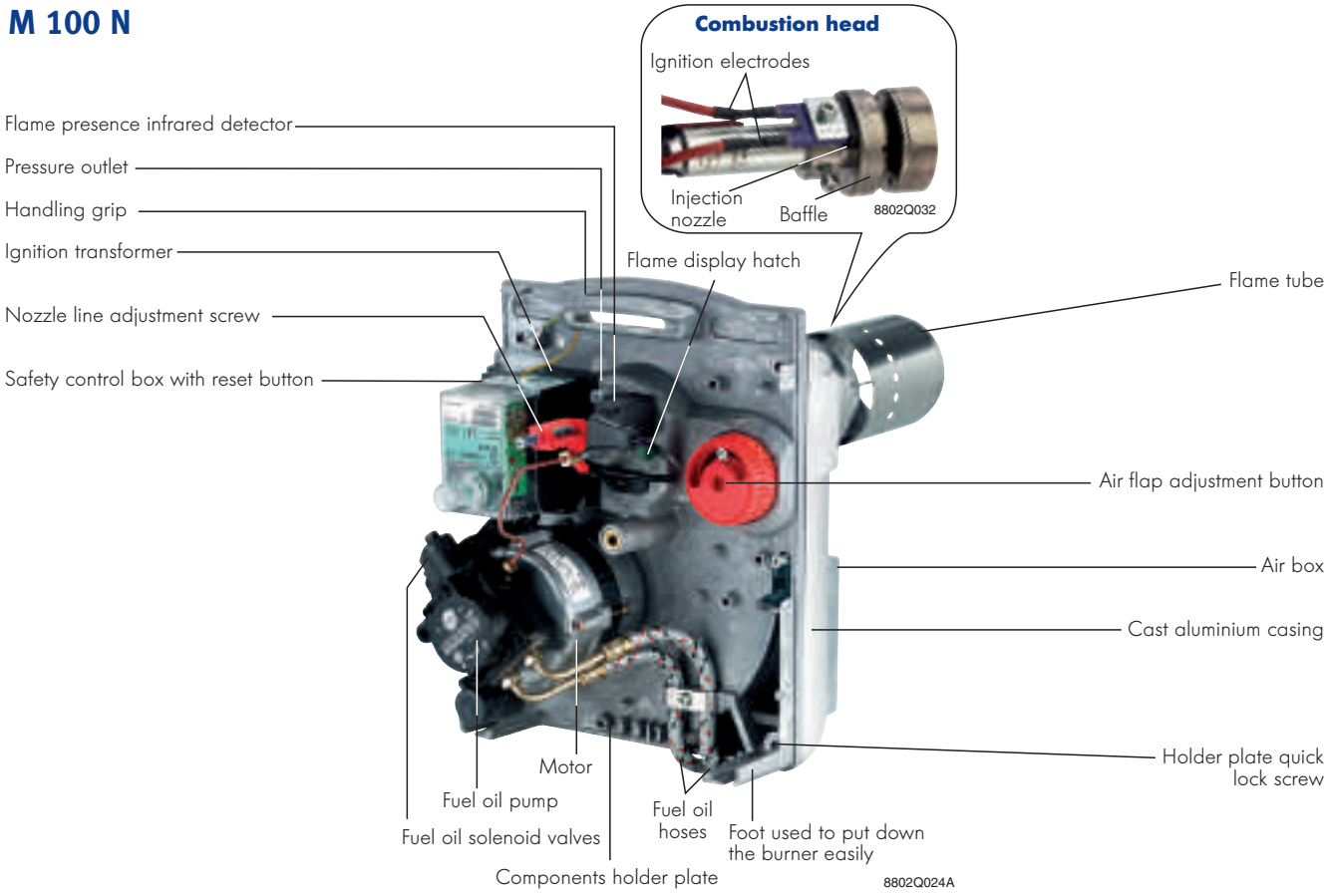
Attention : The burner output decreases with the altitude increase: 1,3 % per 100 m

The selection of the model, the adaptation of the nozzle and the settings should be done by the fitter in accordance with the specific installation conditions.
The flow pressure curve is used to check the adaptation of the boiler concerned.
Burner output should be adapted to the output of the boiler for which it is used, bearing in mind its effective useful efficiency.

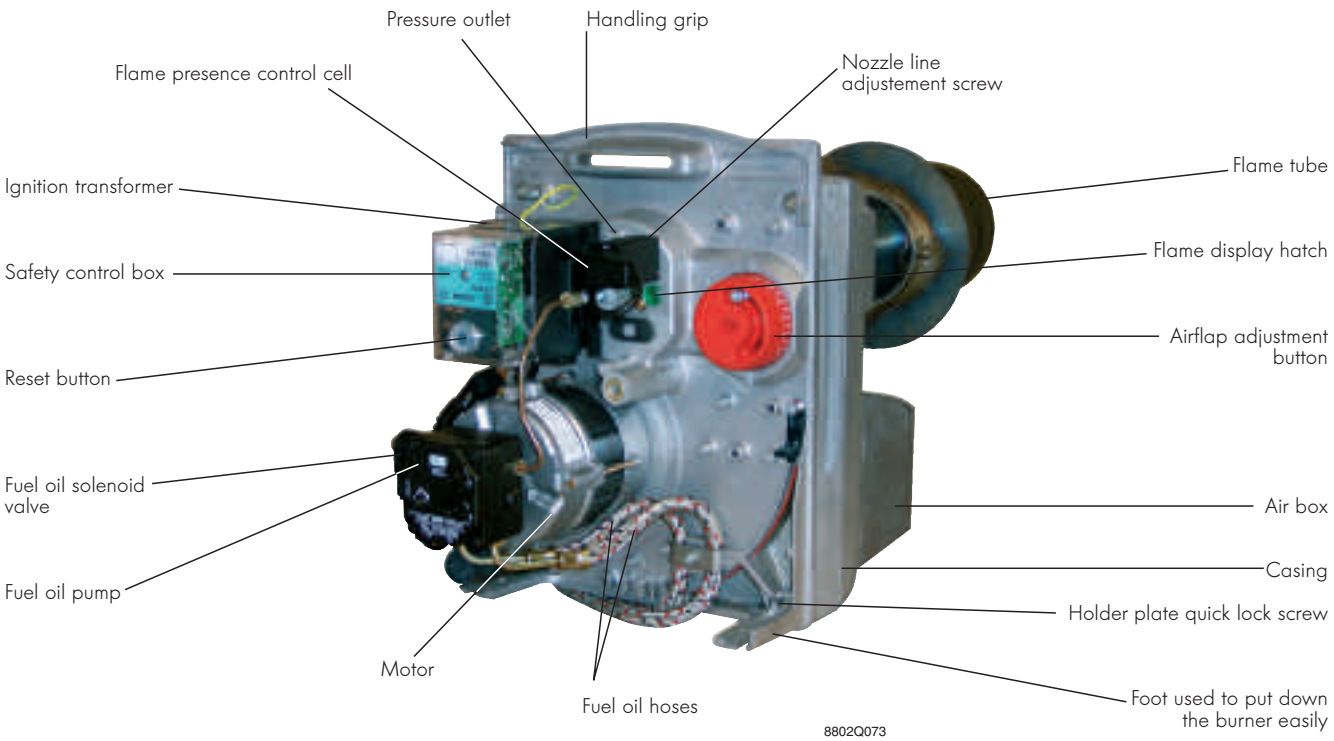
M 100 N, M 200 N FUEL OIL BURNERS

DESCRIPTION

M 100 N



M 200 N



M 300 S FUEL OIL BURNERS

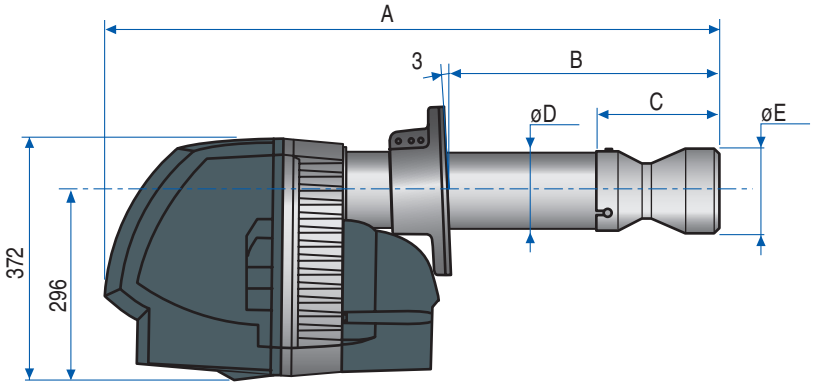
TECHNICAL SPECIFICATIONS

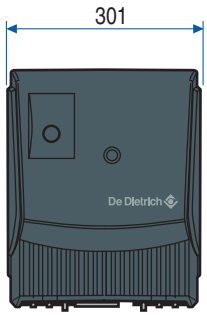
Model		M 301-2 S	M 301-3 S	M 301-4 S	M 302-1 S	M 302-2 S	M 302-3 S	M 302-4 S	M 302-5 S	M 302-6 S
Number of stages		1	1	1	2	2	2	2	2	2
Burner output	kW	77-166	130-202	184-261	75*/98-142	80*/113-160	94*/181-217	142*/192-275	126*/202-430	114*/179-460
	Mcal/h	66,2-142,7	111,8-173,7	158,2-224,4	64,5*/84,3-122,1	68,8*/97,2-137,6	80,8*/155,6-186,6	122,1*/165,1-236,5	108,3*/173,7-369,7	98,0*/153,9-395,5
Flow rate fuel oil (1)	kg/h	6,5-14,0	11,0-17,0	15,5-22,0	6,3/8,2-12,0	6,7/9,5-13,5	7,9/15,3-18,3	12,0/16,2-23,2	10,6/17,0-36,3	9,6/15,1-38,8
Preset output	kW	120	180	240	90/130	100/140	123/175	143/210	210/315	270/385
Matching boilers	GT	335	336	337	334	335	336	337	338, 339	430-8
Injection nozzle recommended	US Gal/h US Gal/h	3,00/45°S	4,00/45°S	5,00/45°S	1,75/45°S	2,50/45°S	5,00/45°S, 3,50/45°S	4,50/45°S	6,00/45°S	7,00/60°B
Max. absorbed power	W	360	550	550	360	360	550	550	1000	1000
Motor power (2)	W	260	380	380	260	260	380	380	650	650
Noise level at 1 m	dB(A)	69	70	70	68	69	70	70	72	73
Net weight	kg	21	21	21	22	22	22	22	30	30

* Mini. power at 1st stage

(1) Maximum viscosity 6,0 mm^2/s at 20 °C (2) 230 V mono

MAIN DIMENSIONS (mm and inches)

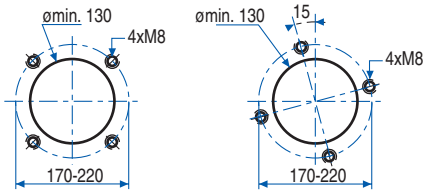




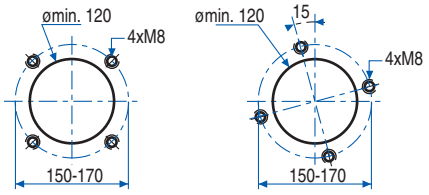
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Possible tapped connections :

M 301-2 S, M 301-3 S, M 301-4 S,
M 302-2 S, M 302-3 S, M 302-4 S, M 302-5 S, M 302-6 S (*)



M 302-1 S

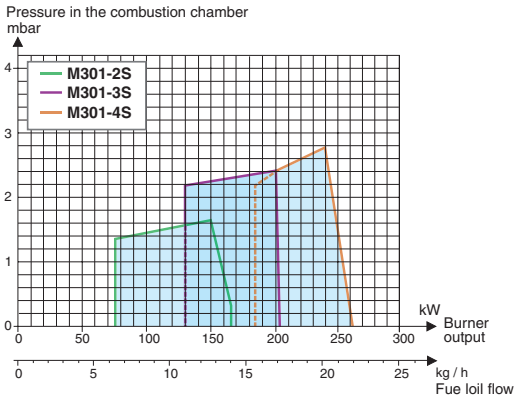


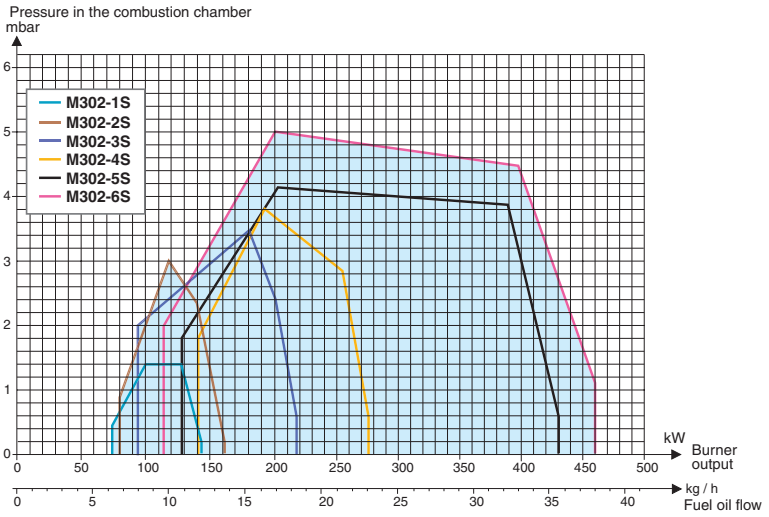
Burner type	A	B	C	D	E
M 301-2 S / M 302-2 S	687	140 to 290	-	120	-
M 302-1 S	635	100 to 250	-	100	-
M 301-3 S / M 302-3 S	710	140 to 310	-	120	-
M 301-4 S / M 302-4 S	725	140 to 325	-	120	-
M 302-5 S	755	140 to 240	-	120	-
M 302-6 S	882	140 to 350	191	120	142

* required to dismantle the combustion head.

M 300 S FUEL OIL BURNERS

FIRING RATES





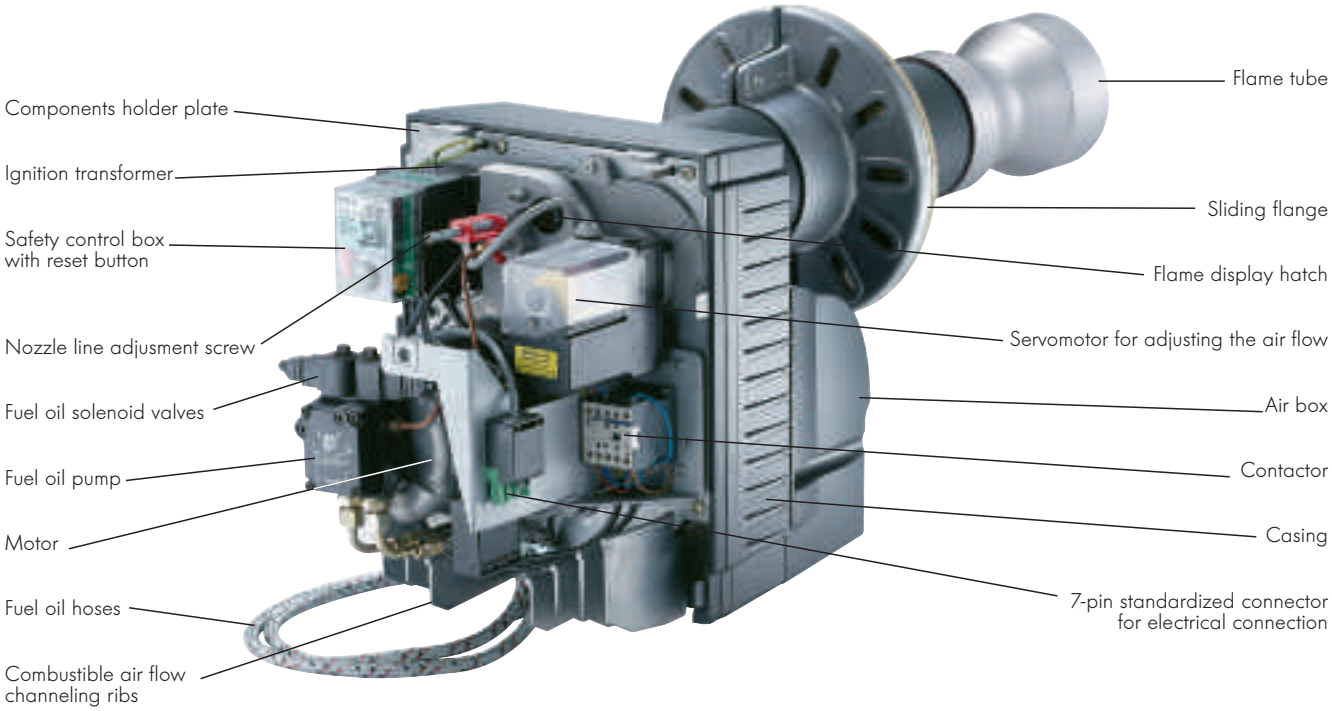
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Power at an altitude of 400 m and at 20°C.
Low calorific value of the fuel oil: 11.86 kWh/kg.

Attention : The burner output decreases with the altitude increase: 1,3 % per 100 m

The selection of the model, the adaptation of the nozzle and the settings should be done by the fitter in accordance with the specific installation conditions.
The flow pressure curve is used to check the adaptation of the boiler concerned.
Burner output should be adapted to the output of the boiler for which it is used, bearing in mind its effective useful efficiency.

DESCRIPTION



Represented model : M 301-2S

M 40 S FUEL OIL BURNERS

TECHNICAL SPECIFICATIONS

MODEL		M 42-1 S	M 42-2 S	M 42-3 S	M 42-4 S	M 42-5 S
Number of stages		2	2	2	2	2
Burner output	kW	185*/285-515	185*/285-625	200*/300-625	290*/465-765	360*/550-1050
	Mcal/h	159,1*/245,1-442,8	159,1*/245,1-537,4	172*/258-537,4	249,4*/400-657,8	309,5*/473-902,8
Fuel oil flow rate (1)	kg/h	15,6/24,1-43,5	15,6/24,1-52,8	16,9/25,3-52,8	24,5/39,3-64,6	30,4/46,5-88,7
Preset output	kW	280*/450	320*/515	400*/625	410*/645	620*/910
Matching boilers	GT GT	- 530-7	430-9 530-8	430-9 530-8	430-11 530-9 to 11	430-12 to 14 530-12 to 16
Max. absorbed power	W	1100	1280	1550	1550	2430
Motor power	W	650	750	1500	1500	2200
Power supply		230 V~mono/50 Hz	230 V~mono/50 Hz	230 -400V~tri/50 Hz	230 -400V~tri/50 Hz	230 -400V~tri/50 Hz
Noise level at 1 m	dB(A)	≈ 69	≈ 69	≈ 69	≈ 70	≈ 79
Net weight	kg	51	51	57	57	64

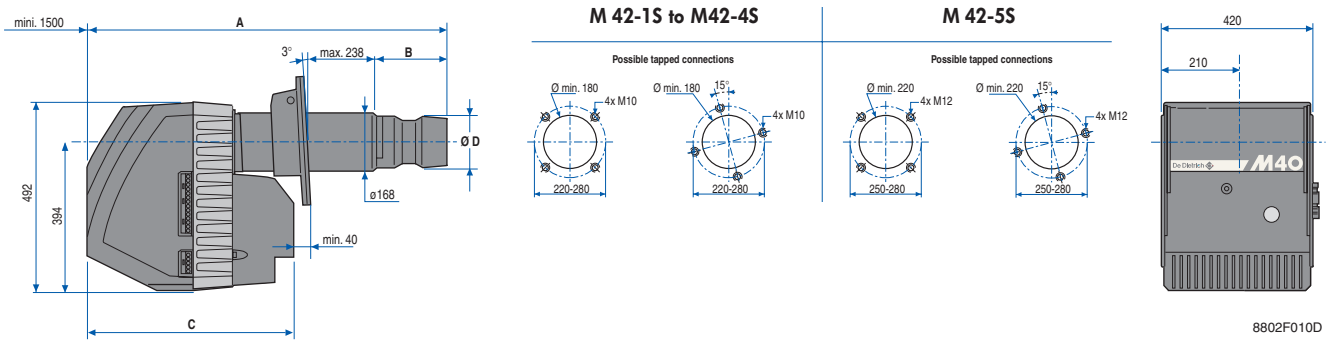
* min. power at 1st stage (1) Maximum viscosity 6.0 mm^2/s at 20°C mono = single-phase tri = three-phase

Burners/boilers/injection nozzles correspondance table

	Useful power (kW)	Nominal output (kW)	Burner type	Injection nozzle type (US Gal/h)
GT 430-9	390-450	443-511	M 42-2 S (mono) or M 42-3 S (tri)	7,5/45°B (mono) or 8.5/45°B (tri)
GT 430-10	450-540	511-614	M 42-4 S	10,0/45°B
GT 430-11	540-600	614-682	M 42-4 S	11,0/45°B
GT 430-12	600-670	682-761	M 42-5 S	1st st. 8.5/60°B, 2nd st. 4.5/45°B
GT 430-13	670-720	761-818	M 42-5 S	1st st. 8.5/60°B, 2nd st. 4.5/45°B
GT 430-14	720-880	818-886	M 42-5 S	1st st. 10.0/60°B, 2nd st. 5.45/45°B
GT 530-7	348-406	387-451	M 42-1 S	6,5/45°B
GT 530-8	406-464	451-516	M 42-2 S (mono) or M 42-3 S (tri)	7.5/45°B (mono) or 8.5/45°B (tri)
GT 530-9	464-522	516-580	M 42-4 S	8,5/45°B
GT 530-10	522-580	580-644	M 42-4 S	10,0/45°B
GT 530-11	580-638	644-709	M 42-4 S	11,0/45°B
GT 530-12	638-696	709-773	M 42-5 S	1st st. 8,5/60°B, 2nd st. 4.5/45°B
GT 530-13	696-754	773-838	M 42-5 S	1st st. 10.0/60°B, 2nd st. 5.0/45°B
GT 530-14	754-812	838-902	M 42-5 S	1st st. 10.0/60°B, 2nd st. 5.0/45°B
GT 530-15	812-870	902-967	M 42-5 S	1st st. 11.0/60°B, 2nd st. 5.5/45°B
GT 530-16	870-928	967-1031	M 42-5 S	1st st. 11.0/60°B, 2nd st. 5.5/45°B

1st stage: operating at 60% power, 2nd stage: operating at 100%

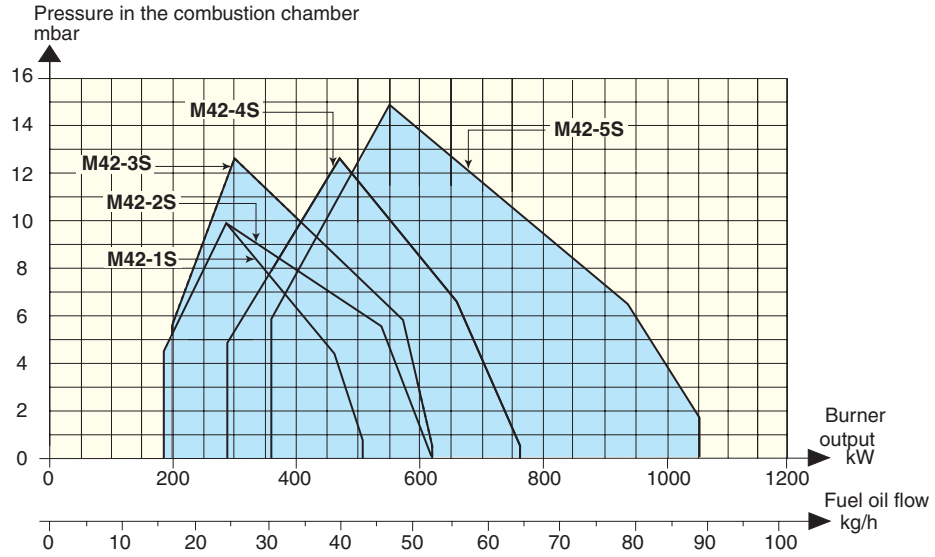
MAIN DIMENSIONS (mm and inches)



BURNER TYPE		M 42-1 S	M 42-2 S	M 42-3 S	M 42-4 S	M 42-5 S
A	mm	1080	1080	1080	1061	1089
B	mm	222	222	222	203	191
C	mm	611	611	611	611	591
D	mm	140	140	140	160	210

M 40 S FUEL OIL BURNERS

FIRING RATES

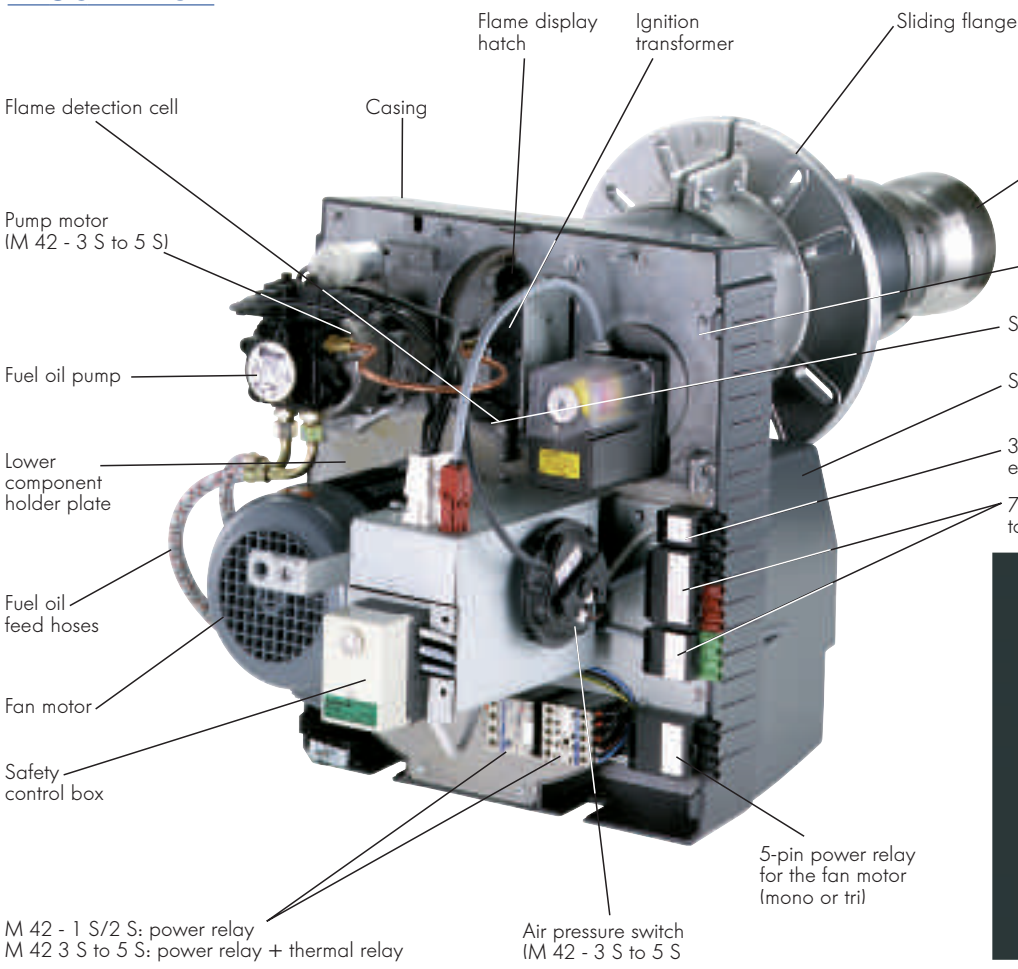


Power at an altitude of 400 m and at 20°C.
Low calorific value of the fuel oil: 11.84 kWh/kg.

Attention : The burner output decreases with the altitude increase: 1,3 % per 100 m

The selection of the model, the adaptation of the nozzle and the settings should be done by the fitter in accordance with the specific installation conditions.
The flow pressure curve is used to check the adaptation of the boiler concerned.
Burner output should be adapted to the power of the boiler for which it is used, bearing in mind its effective useful yield.

DESCRIPTION





Injection nozzle line with baffle and ignition electrodes

M 50 S FUEL OIL BURNER

TECHNICAL SPECIFICATIONS

MODEL		M 52-1 S (2-STAGE)	M 52-2 S (2-STAGE)
Burner output	kW	486*/948-1540	759*/1423-2443
	Mcal/h	417,9*/815,1-1324,2	652,6*/1223,5-2100,6
Fuel oil flow rate	kg/h	41/80-130	64/120-206
Matching boilers	GT	530-17 to 25	-
Pre-fitted nozzle		(see table below)	(see table below)
Max. absorbed power	W	2600	5870
Motor power	W	2200	4500
Power supply		230-400 V~tri/50 Hz	230-400 V~tri/50 Hz
Noise level	dB(A)	78,5	83,9
Net weight	kg	66	75

* min. power at 1st stage

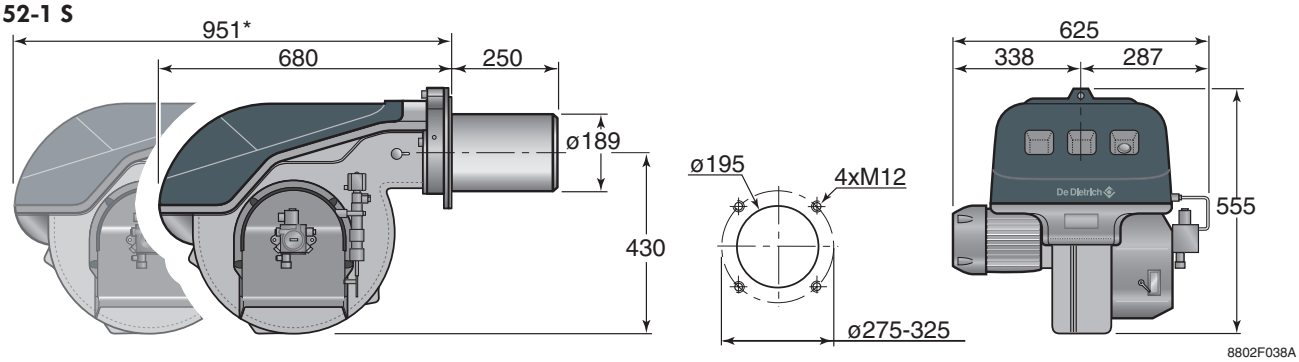
Nozzle recommended for M 52-1 S according to type of boiler:

	Useful power (kW)	Nominal output (kW)	Nozzle type (US Gal/h) 1st stage	2nd stage
GT 530-17	928-986	1031-1096	13,0/60°B	9,0/45°B
GT 530-18	986-1044	1096-1160	13,0/60°B	8,5/45°B
GT 530-19	1044-1102	1160-1224	15,0/60°B	10,0/45°B
GT 530-20	1102-1160	1224-1289	15,0/60°B	10,5/45°B
GT 530-21	1160-1218	1289-1353	16,0/60°B	11,0/45°B
GT 530-22	1218-1276	1353-1418	17,0/60°B	11,0/45°B
GT 530-23	1276-1334	1418-1482	18,0/60°B	12,0/45°B
GT 530-24	1334-1392	1482-1547	19,0/60°B	12,0/45°B
GT 530-25	1392-1450	1547-1611	19,5/60°B	13,0/45°B

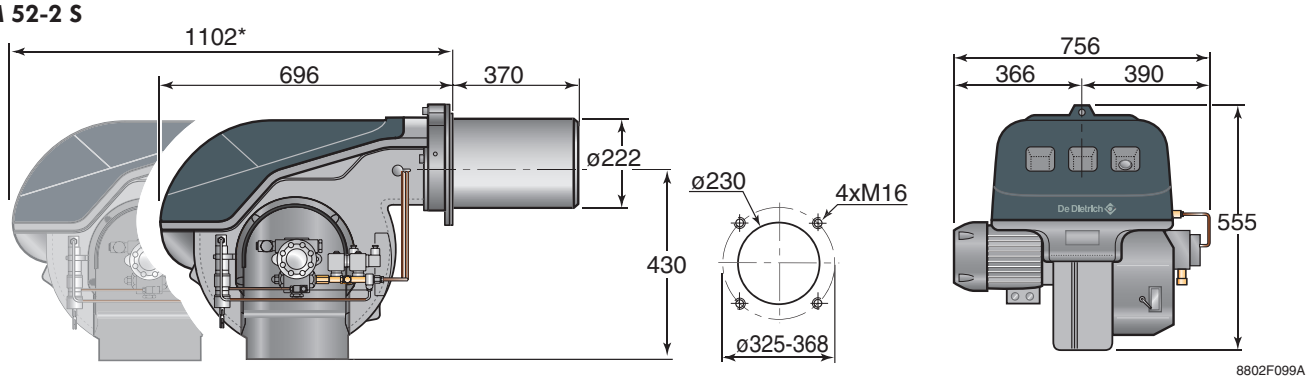
1st stage: operating at 60% power, 2nd stage: operating at 100%

MAIN DIMENSIONS (mm and inches)

M 52-1 S



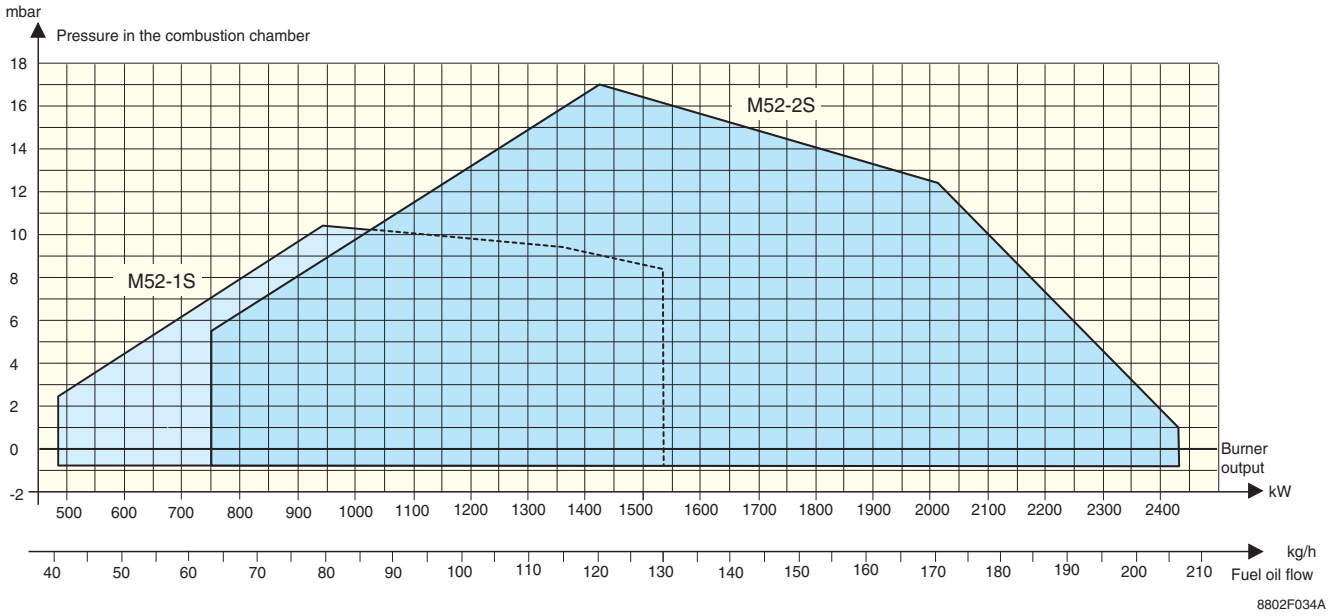
M 52-2 S



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

M 50 S FUEL OIL BURNER

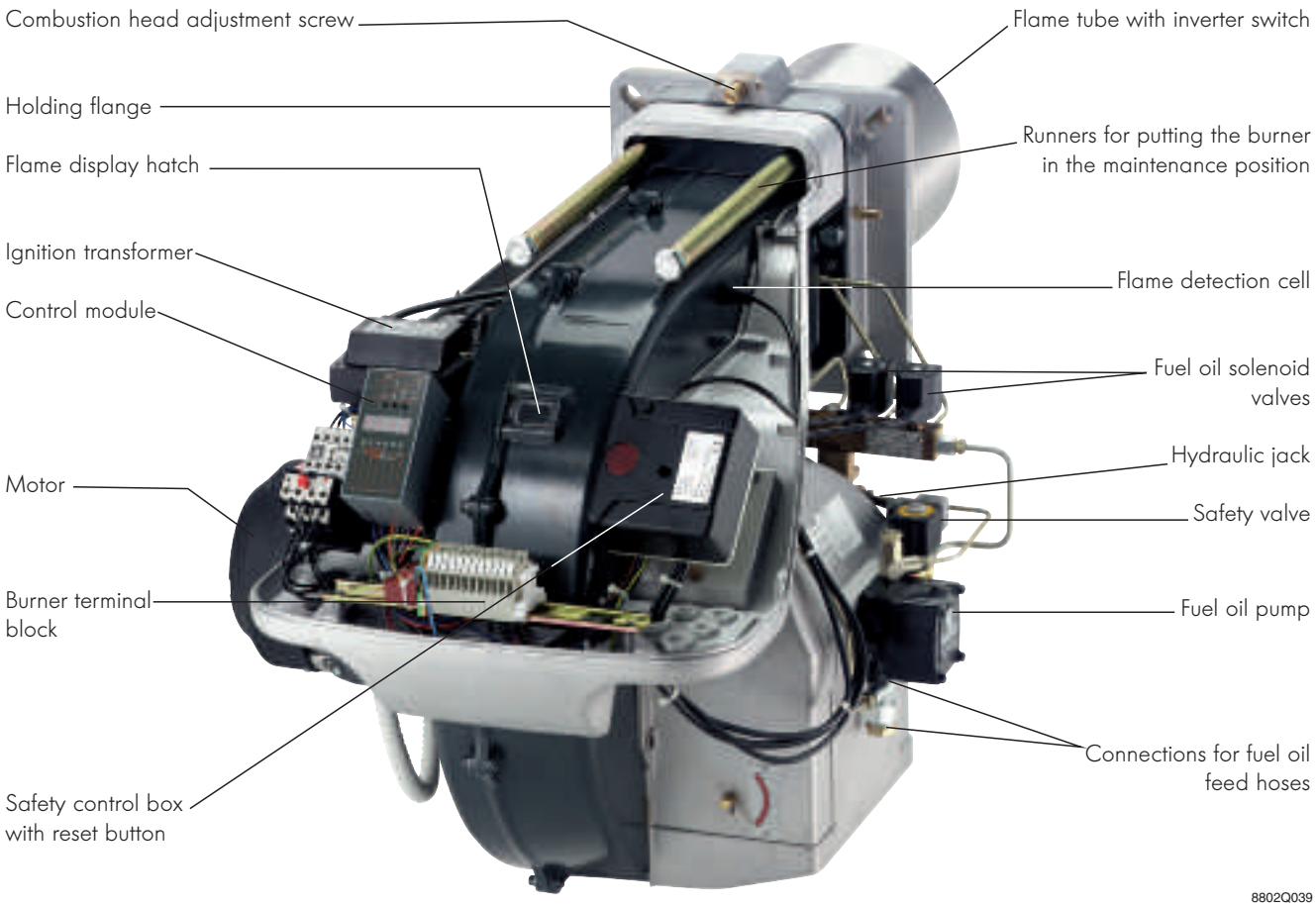
FIRING RATES



Power at an altitude of 100 m and at 20°C
Low calorific value of the fuel oil: 11.86 kWh/kg
Attention : The burner output decreases with the altitude increase: 1,3 % per 100 m
The selection of the model, the adaptation of the nozzle and the settings should be done by the fitter in accordance with the specific installation conditions.
The flow pressure curve is used to check the adaptation of the boiler concerned.
Burner output should be adapted to the power of the boiler for which it is used, bearing in mind its effective useful yield.

NB: the maximum power of burner M 52-1 S is 1540 kW in accordance with EN 267. The combustion head is adapted for use on De Dietrich boilers in the GT 530 range and can also be adapted for use on other boilers available on the market. For this purpose, an optional long flame tube is available (consult us).

DESCRIPTION

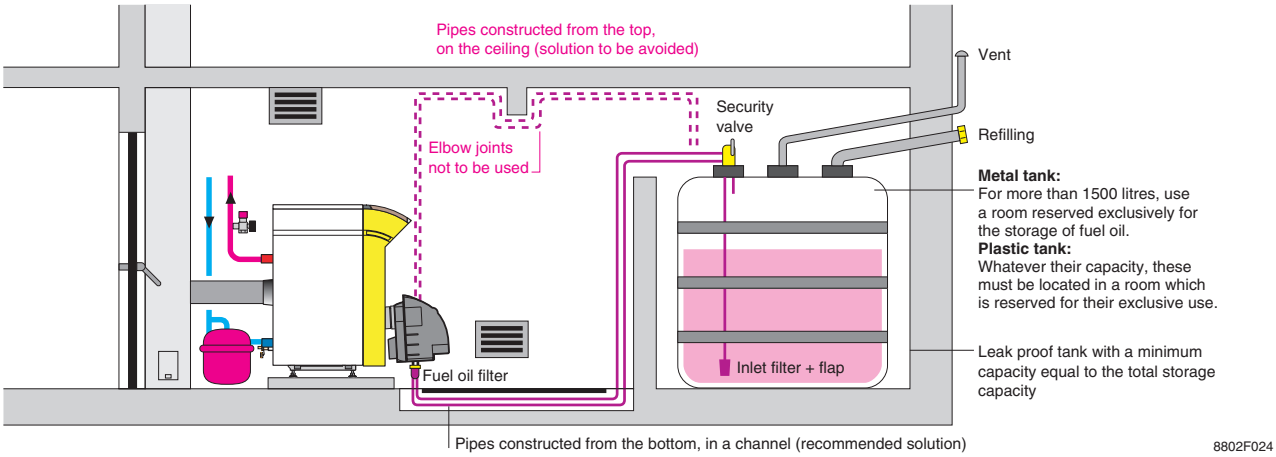


INFORMATION REQUIRED FOR INSTALLATION

FUEL OIL CONNECTION

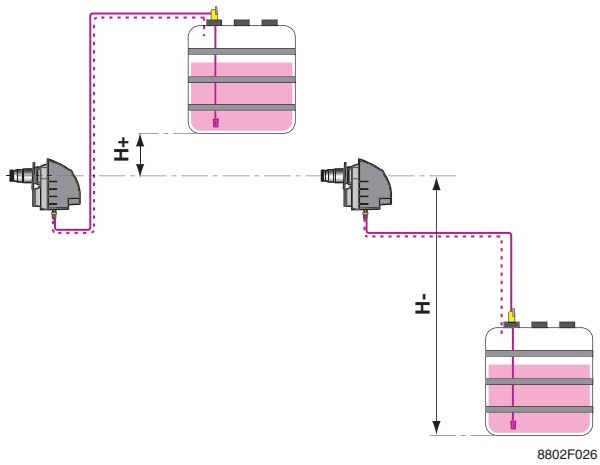
The burners are delivered with 2 connection hoses, one for intake, the other for return to the tank. The fuel oil connection can be made using dual tubes. However, the fuel oil pump on the burner can be converted into a single tube version if you wish to make this type of connection.
Each hose is 1 meter long and includes a removable connector at its extremity.
A filter must be fitted to the fuel oil intake in order to prevent the injection nozzle from clogging.

Example of fuel oil connection



Diameter and length of fuel oil pipes

The intake diameter and length of the pipes depend on the position of the bottom of the tank in relation to the fuel oil pump serving the burner (static intake height). The bottom of the tank is located either higher than the burner (load function) or lower than the burner (total intake function). The static intake height can therefore be positive, zero, or negative.



Correction depending on altitude

Increasing the altitude is equivalent to increasing the intake depth for negative static heights. The available length of the intake pipe will therefore be reduced. The table below indicates the increase in intake depth for altitudes higher than 700 m, depending on the variation in altitude.

Important: When the tank is located at a level higher than that of the burner, the installation must be fitted with an emergency stop device in compliance with the EN 264 standard or the equivalent prevailing local regulations.

ALTITUDE	m	800	1000	1200	1400	1600	1800	2000	2200	2400
Average atmospheric pressure	mbars	924	901	880	858	837	817	797	777	757
Increase in the intake depth	m	0,5	0,8	1,0	1,3	1,55	1,8	2,0	2,3	2,5

INFORMATION REQUIRED FOR INSTALLATION

AERATION

This must comply with the prevailing local regulations.

Examples (valid for 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 dm^2.

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

  P = *Installed power in kW*

The location of the air inlets in relation to the upper ventilation openings must ensure that the air is refreshed 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.

⇨ **M 100 S, M 200 S, M 300 S and M 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 burners), which have only to be connected to the male sockets coming from the boiler control panel. The M 302-5 S, M 302-6 S and M 40 S are fitted with a 5-pin power relay for powering the fan motor.

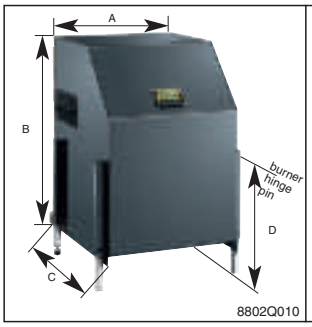
In addition, M 40 S burners are fitted with a 3-pin power relay for the connection of an external solenoid valve (not provided). For boilers not fitted with male sockets, the connection can be made according to the diagrams which appear in the technical instructions of these burners.

⇨ **Electrical connection for M 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 which appear in the technical instructions of these burners.

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.

OPTIONS



Soundproof box (for M 300 S, M 40 S)

Soundproof box can be used to reduce the acoustic level of the burners by another 20 dBA

	A	B	C	D
for M 300 S ref. 8802-7180	510	790	620	355 to 870
for M 40 S ref. 8802-7182	898	780	1163	515 to 830

Burnerplate

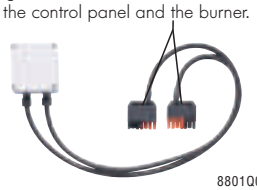
Please contact us

In case of replacing a burner on a boiler from an other manufacturer with a De Dietrich burner of the M 300 S range, this plate can be adapted on the burner door of the existing boiler.

Hoses extension kit for M 52-1 S

Ref. 100005750

Plugs to be connected to the sockets in the control panel and the burner.



230 V burner power relay box

Package BP 51

Through clipping sockets, this devise is used to relay a 230 V burner with specifications higher than the values admissible by the control panel: mechanical output at 450 W and a start-up intensity higher than 16 A. The admissible values are then 1,500 W mechanical and 50 A max. for 0.5 seconds.

De Dietrich

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