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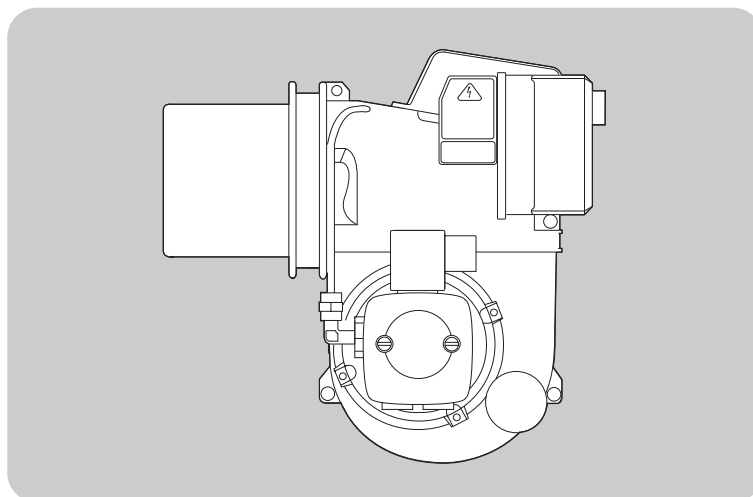
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Единый адрес: emf@nt-rt.ru

Веб-сайт: <http://ecoflamru.nt-rt.ru/>

OIL BURNERS

MODELS

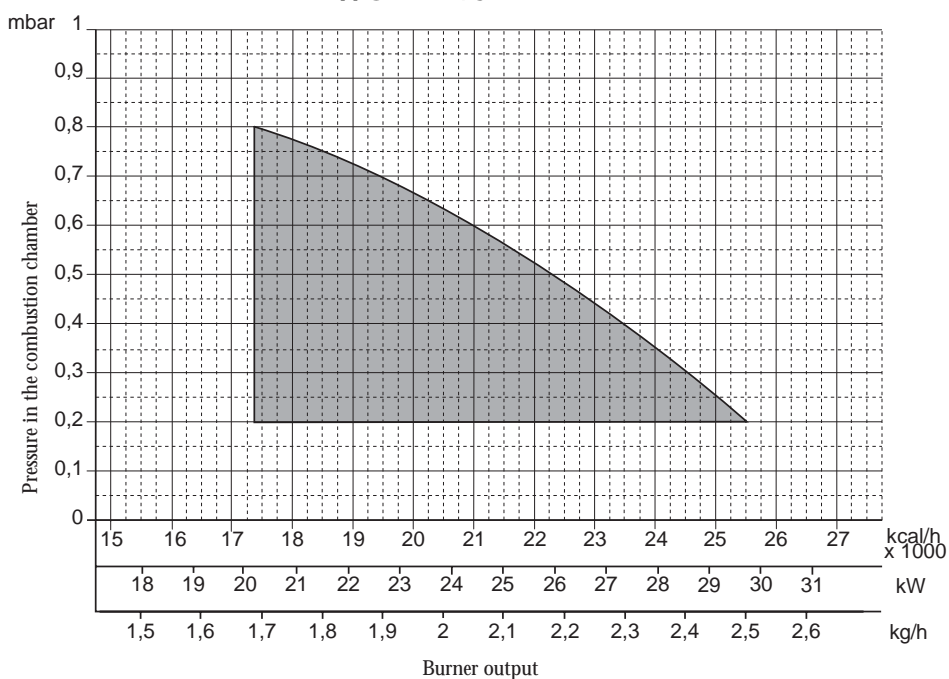


MINOR 1.1 BR ST
MINOR 1.1 M (578)BR ST

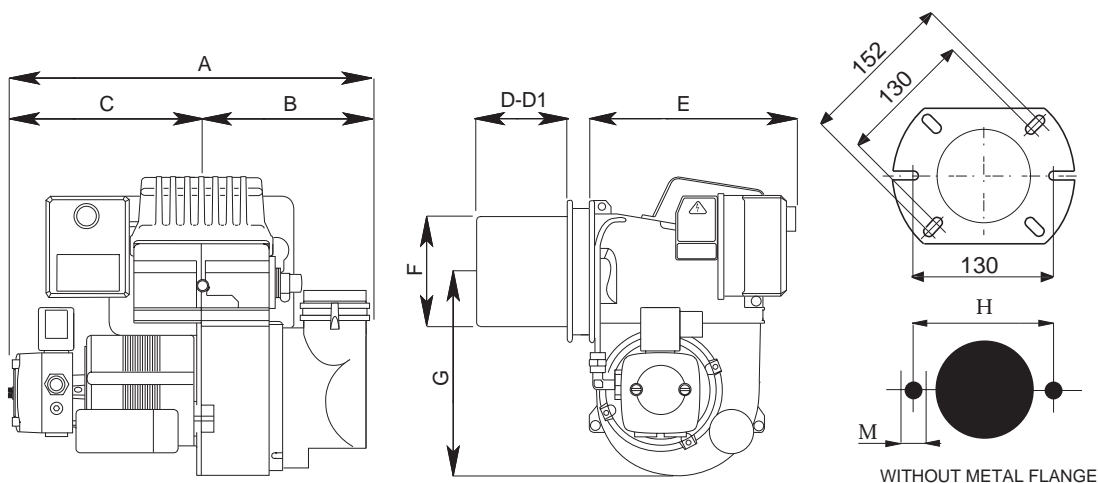
TECHNICAL DATA

MODEL	MINOR 1.1	
Thermal power max	kcal/h	25500
	kW	29,6
Thermal power min	kcal/h	17300
	kW	20
Max capacity light oil	kg/h	2,5
Min capacity light oil	kg/h	1,7
Voltage single phase 50 Hz	Volt	240
Motor	W	75
Capacitor	μF	3,5
Rpm	N°	2800
Inition transformer	kV/mA	8/20
Control box	LANDIS	LOA 24
Fuel :	Light oil	kcal/kg 10.200 Visc.max.1,5°E at 20°C

WORKING FIELD



OVERALL DIMENSIONS

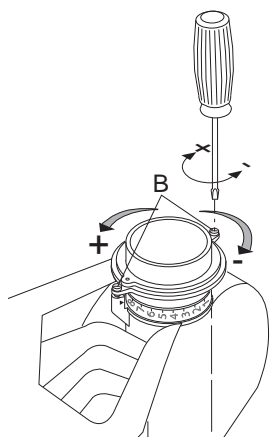


MODEL	A	B	C	D	E	F	G	H	M
MINOR 1 BR ST	309	149	160	65	165	89	160	125	M8

BURNER START - UP

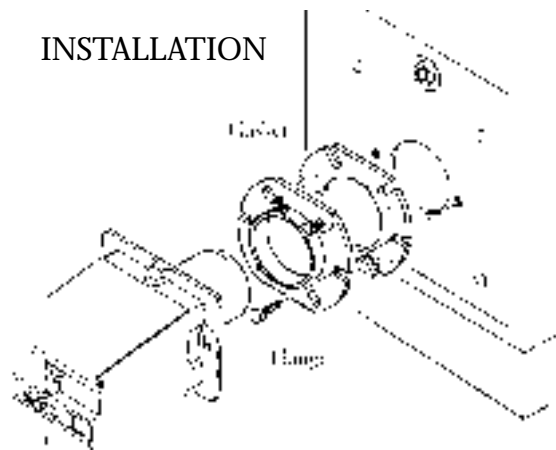
Make sure there are no leaks on flexible oil line connections. Bleed air from the pump (see page 4). Install a suitable nozzle for the required output. Turn the thermostat to the required setting. The burner will purge for approximately 13 seconds. At this point the oil valve opens and oil is ignited. Regulate the pump pressure (see page 4). Regulate the air. In case of no ignition the burner goes to lock-out in 10 seconds.

AIR REGULATION



To adjust air flow ,
loosen the two screw B
and turn the air
damper as required.
Tighten the screw B.

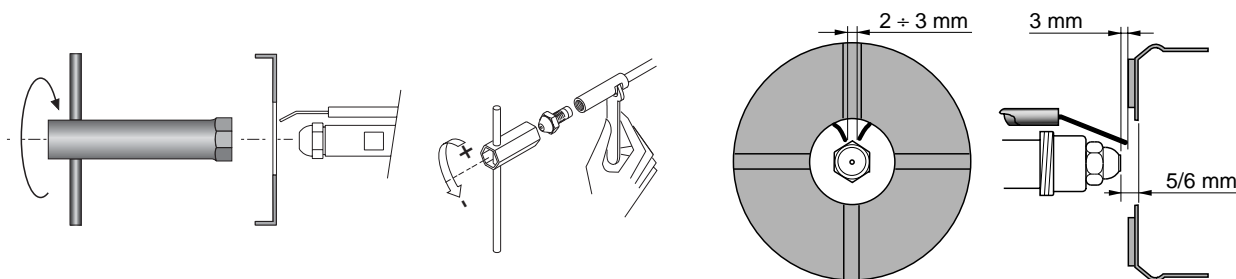
INSTALLATION



NOZZLE REPLACEMENT

Remove the nozzle carefully taking great care not to damage the electrodes.
Fit the new nozzle with the same care.

Notice : Always check the position of the electrodes after replacing the nozzle (see plan).

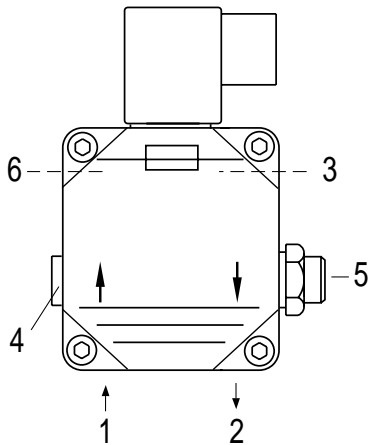


Ignition electrodes setting on firing head

NOZZLE GPH	SPRAY ANGLE	SPRAY PATTERN	PUMP PRESSURE	PUMP PRESSURE	PUMP PRESSURE	PUMP PRESSURE
			9 BAR Output kg/h \pm 5%	10 BAR Output kg/h \pm 5%	11 BAR Output kg/h \pm 5%	12 BAR Output kg/h \pm 5%
0,50	60°/80°	DANFOSS H/S	1,8	1,9	2	2,1
0,60	60°/80°	DANFOSS H/S	2,16	2,3	2,4	2,5
0,65	60°/80°	DANFOSS H/S	2,34	2,45	2,59	2,71
0,75	60°/80°	DANFOSS H/S	2,7	2,85	-	-
0,85	60°/80°	DANFOSS H/S	3	3,25	-	-

PRIMING AND ADJUSTMENT OF THE PUMP

DANFOSS BFP 11 R3

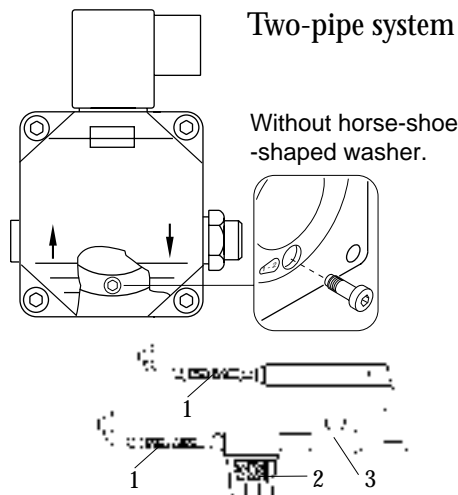


- 1 - INLET
- 2 - RETURN
- 3 - BLEED AND PRESSURE GAUGE PORT
- 4 - VACUUM GAUGE PORT
- 5 - PRESSURE ADJUSTMENT
- 6 - NOZZLE OUTLET

The pump setting indicated by client is carried out in the factory during testing. To prime the pump first of all start the burner and bleed air from the pump through the gauge port. If the burner goes to lock-out after the prepurging time due to lack of pressure in the oil pump, restart the burner.

NOTE : before starting up the burner, make sure that the return pipe is clear. Check that the pipes do not leak. It is advisable to use copper pipes. Do not exceed the depression limit of 4 mt.(0,45 bar) to keep

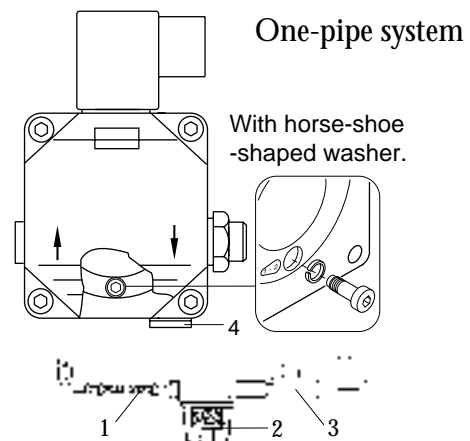
low noise levels. The return pipe must reach the same level as the check valve at the bottom of the oil tank..



Two-pipe system

Without horse-shoe-shaped washer.

- 1 - HOSE
- 2 - OIL FILTER
- 3 - OIL COCK
- 4 - PLUG



One-pipe system

With horse-shoe-shaped washer.

FAULT FINDING

Burner does not start up

- Mains switch not on.
- Blown fuse.
- Boiler thermostats not made.
- Fault in control box.

Burner pre-purges and stops

- Fault in control box.

Burner does not ignite during cycle and stops

- Fault in control box.
- Fault in photo-resistor.

Burner does not ignite

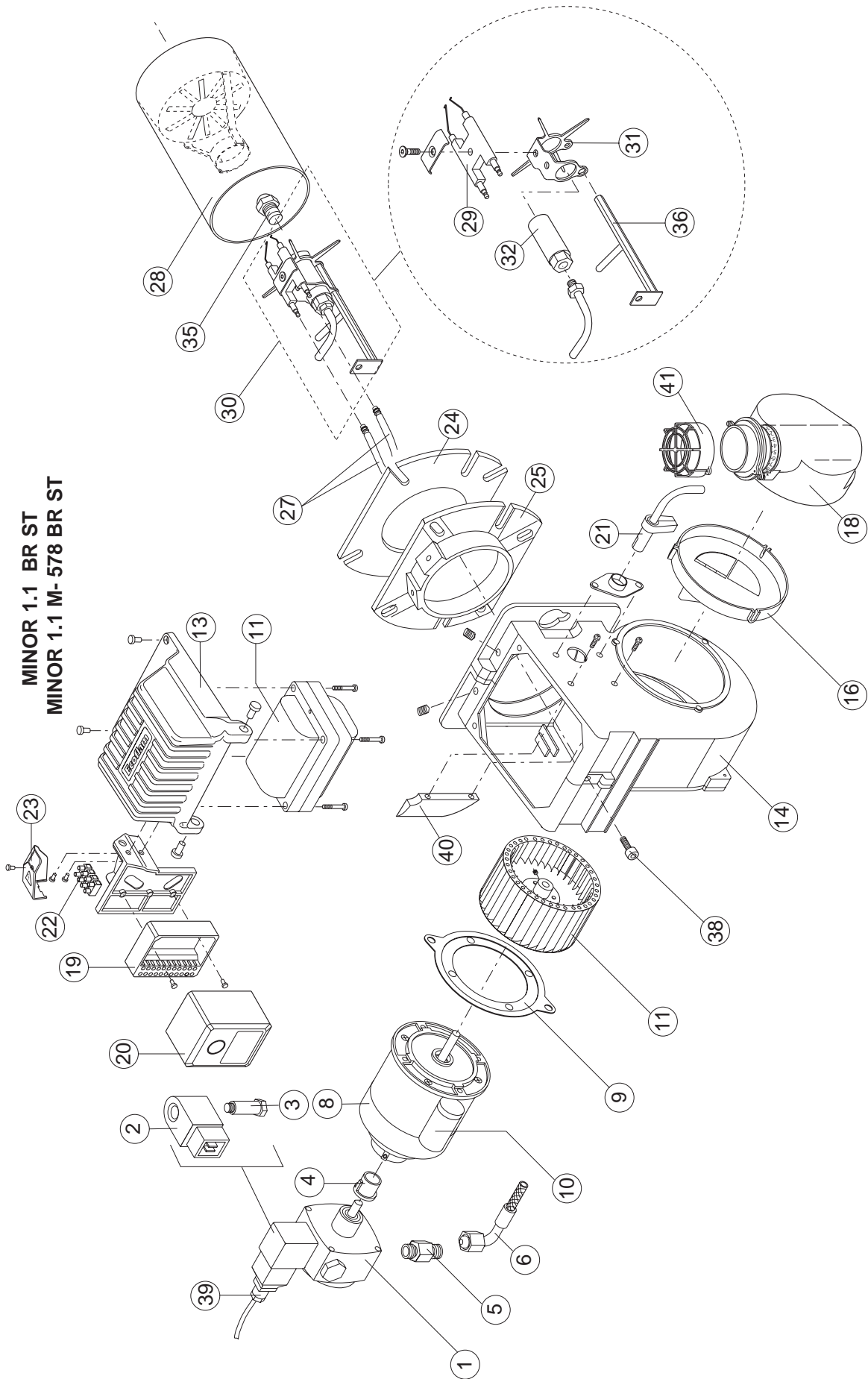
- Dirty ignition electrodes.
- Fault at electrodes.
- Electrodes installed wrongly.
- Faulty ignition transformer.
- Blocked nozzle.
- Nozzle needs replacing.
- Oil pressure too low.
- Blocked oil filter.
- Excessive combustion air for nozzle capacity.
- Fault in control box.

Burner ignites and then stops

- Faulty nozzle.
- Photo-resistor does not "see" flame.
- Excessive combustion air for nozzle capacity.
- Fault in control box.
- Oil pressure too low.
- Blocked oil filter.

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										<p>COLLEGAMENTI DA EFFETTUARSI DA PARTE DELL'INSTALLATORE</p> <p>CONNECTIONS TO BE MADE BY INSTALLER</p> <p>CONNEXIONS A EFFECTUER PAR L'INSTALLATEUR</p> <p>CONEXIONES A EFECTUAR POR EL INSTALADOR</p>										<p>Stipa Initial Ref. Codigo</p> <p>B</p> <p>Q</p> <p>MV</p> <p>TV</p> <p>HLB</p> <p>STC</p> <p>STS</p> <p>YVg</p>										<p>Descrizione Description Description</p> <p>FOTORESISTENZA PHOTO-RESISTOR FOTORESISTENCIA</p> <p>INTERRUTTORE GENERALE CON FUSIBILE MAIN SWITCH WITH FUSE INTERRUPTEUR GENERAL AVEC FUSIBLE INTERRUPTOR GENERAL CON FUSIBLE</p> <p>MOTORE VENTILATORE MOTOR FAN MOTEUR VENTILATEUR MOTOR VENTILADOR</p> <p>TRASFORMATORE IGNITION TRANSFORMER TRANSFORMATEUR D'ALLUMAGE TRANSFORMADOR</p> <p>LAMPADA DI BLOCCO LOCK-OUT LAMP LAMPE DE SECURITE ESPIA DE BLOQUEO</p> <p>TERMOSTATO CALDAIA BOILER THERMOSTAT THERMOSTAT CHAUDIERE THERMOSTATO CALDERA</p> <p>TERMOSTATO DI SICUREZZA SAFETY THERMOSTAT THERMOSTAT DE SECURITE THERMOSTATO DE SEGURIDAD</p> <p>ELETTROVALVOLA GASOLIO OIL SOLENOID VALVE ELECTROVANNE MAZOUT ELECTROVALVULA DE GASOLEO</p>										<p>IND.MOD.</p> <p>SOST'IL</p> <p>SOST'IDA</p>										<p>DESCRIZIONE MODIFICA</p> <p>DISEGNATO</p> <p>CONTROLLATO</p>										<p>DATA</p> <p>19-11-1997</p>										<p>FRMA</p> <p>F. P. S. G. S. S. S. S.</p>										<p>UFF. TECN</p> <p>100</p>										<p>APPARECCHIATURA</p> <p>LANDIS LOA 21-LOA 24</p>										<p>CONTROLLO DI TENUTA</p> <p>ONTROLLO DI TENUTA</p>										<p>SIST. RIVELAZ.</p> <p>B</p>										<p>CODICE</p> <p>BEM21.005</p>										<p>IND. MODIFICA</p> <p>BEM21.005</p>									
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MINOR 1.1 BR ST
MINOR 1.1 M-578 BR ST



N°	DESCRIPTION	MINOR 1 BR ST code	MINOR 1 M-578 code
1	- OIL PUMP DANFOSS BFP 11 R3	P121/2	P121/2
2	- COIL DANFOSS	V510/2	V510/2
3	- OIL VALVE DANFOSS	V412/1	V412/1
4	- COUPLING	MP501/5	MP501/5
5	- NIPPLE	BFR01103/001	BFR01103/001
6	- HOSES TN 6x700	S931	S931
7	- SUPPORT	BFS04007/001	BFS04007/001
8	- MOTOR 75 W	M110/3	M110/3
9	- SUPPORT	BFF03004/001	BFF03004/001
10	- CAPACITOR 3 µF	C107/9	C107/9
11	- FAN 99 x 43	BFV10001/001	BFV10001/001
12	- IGNITION TRANSFORMER COFI E820 CM	T123/2	T123/2
13	- COVER	BFC09009	BFC09009
14	- FAN HOUSING	BFF04315/111	BFF04315/111
15	- AIR DAMPER	-	-
16	- AIR CONVEYOR	GRMP002	GRMP001
17	- AIR DAMPER SCREW	-	-
18	- COVER AIR INLET	GRCA030	GRCA030
19	- CONTROL BOX BASE LANDIS	A402	A402
20	- CONTROL BOX LANDIS LOA 24	A117/1	A117/1
21	- PHOTORESISTOR LANDIS	A207/3	A207/3
22	- WIRING TERMINAL BOX	E228/2	E228/2
23	- PROTECTION BOX	BFC09011/1	BFC09011/1
24	- GASKET	BFG02016	BFG02016
25	- FLANGE	BFF01005	BFF01005
26	- O-RING	-	-
27	- CABLES TC	BFE01401/1	BFE01401/1
28	- BLAST TUBE TC	BFB01004/002	BFB01052/202
29	- ELECTRODES	BFE01102	BFE01102
30	- FIRING HEAD TC		
31	- NOZZLE HOLDER SUPPORT	BFC10020/001	BFC10020/001
32	- NOZZLE HOLDER	BFC11016	BFC11016
33	- DIFFUSER	-	-
34	- REAR DISC	-	-
35	- NOZZLE	U1060/80H	U1085/60H
36	- ROD TC	BFA05106/101	BFA05106/101
37	- INDEX	-	-
38	- SCREW	ZM06/12	ZM06/12
39	- CABLE DANFOSS	E1103	E1103
40	- FAN SCOOP	BFC02040	BFC02040
41	- PROTECTION	BFC03039/5	BFC03039/5

TC = SHORT HEAD TL = LONG HEAD

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