

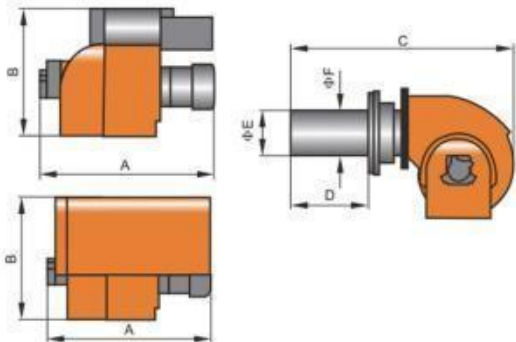
BNL Series Burners Manual



BNL 14/DSG Light Oil Burner

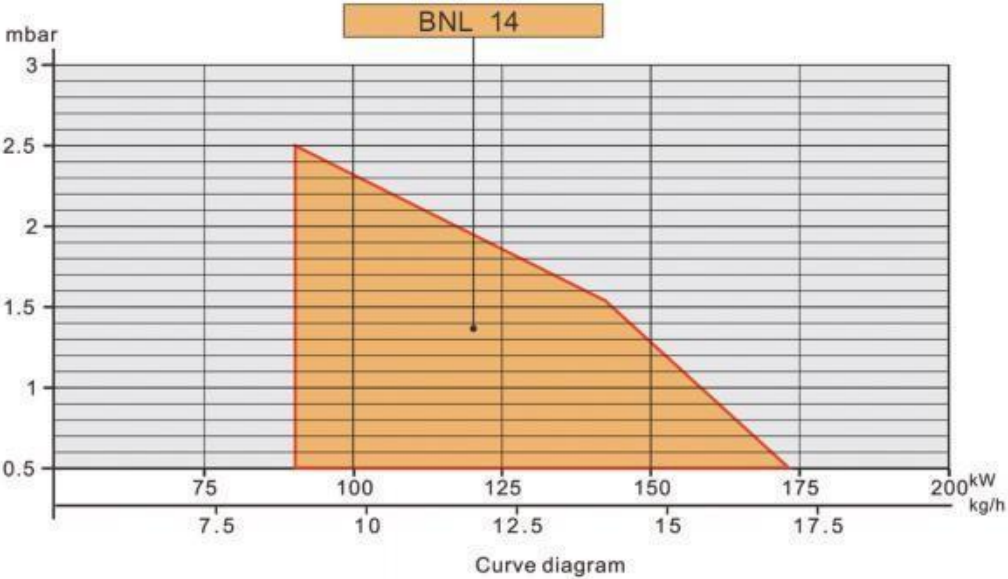
Technical performance

- 1. Light oil burner.
- 2. Single/Two stage operation (on/off).
- 3. High pressure mechanical atomisation of fuel using nozzle .
- 4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
- 5. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
- 6. Single stage manual flow adjustment.
- 7. Two stage air flow regulation for first and second stage by means of hydraulic regulator.
- 8. One flange and one insulating seal for boiler fastening.
- 9. Combustion air intake with air flow adjustment device.
- 10. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
- 11. Monophase electric motor to run fan and pump.
- 12. Flame presence check by photo resistance.
- 13. Electrical plant protection rating Ip40.



Model		Power kW		Power supply		Motor power kW		packing Size L*P*Hmm	Net weight kg
BNL 14		89-172		1N 220V 50Hz		0.15		580x465x350	15
BNL 14 DSG		89-172		1N 220V 50Hz		0.15		580x465x350	15
A	B	C	D	E	F	N	L	I	M
mm	mm	mm	mm	Φmm	Φmm	Φmm	Φmm	mm	M
355	275	415	80-110	95	95	100	130-155	170	4-M8

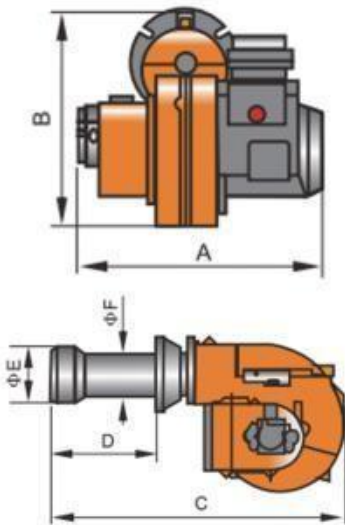
Alternative function :
Can lengthen the blast tube,
Can books the 60Hz.
Standard accessories :
Oil filter-Oil line-nozzle-the
partnership with the boiler



BNL 18/26/35 DSG Light Oil Burner

Technical performance

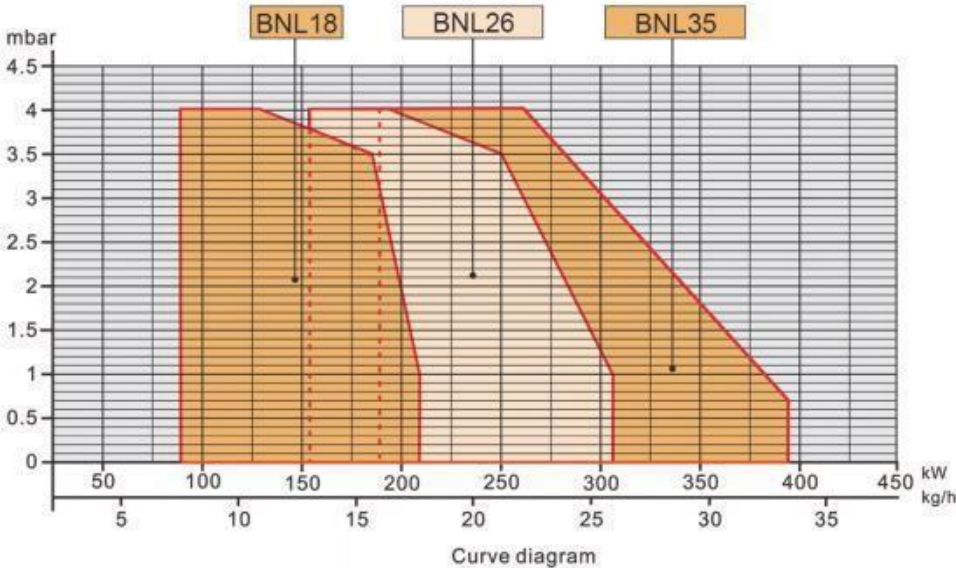
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- 11. Monophase electric motor to run fan and pump.
- 12. Flame presence check by photo resistance.
- 13. Electrical plant protection rating Ip40.



Model	Power kW	Power supply	Motor power kW	packing Size L*P*Hmm	Net weight kg
BNL 18/DSG	90-213	1N 220V 50Hz	0.37	680x530x395	23
BNL 26/DSG	154-308	1N 220V 50Hz	0.37	680x530x395	23
BNL 35/DSG	178-391	1N 220V 50Hz	0.37	680x530x395	25

A	B	C	D	E	F	N	L	I	M
mm	mm	mm	mm	Φmm	Φmm	Φmm	Φmm	mm	M
460	350	610	105-200	118	114	125	170-210	185	4-M10
460	350	610	105-200	135	114	145	170~210	185	4-M12
460	360	620	105-200	150	135	160	200-245	215	4-M12

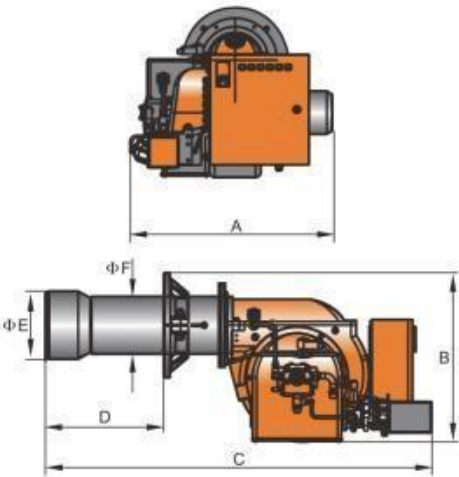
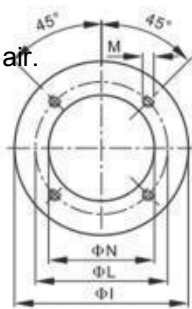
Alternative function :
Can lengthen the blast tube,
Can books the 60Hz.
Standard accessories :
Oil filter-Oil line-nozzle-the
partnership with the boiler



BNL 40/55 P/FC Light Oil Burner

Technical performance

- 1. Light oil burner.
- 2. Two-stage siding/modulating working.
- 3. High pressure mechanical atomisation of fuel using nozzle.
- 4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
- 5. The hinge connection, can be opened naturally.
- 6. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
- 7. Two-stage Air flow regulation for first and second stage by means of hydraulic regulator. The burner is paused, close the throttle to reduce the loss of furnace heat.
- 8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
- 9. One flange and one insulating seal for boiler fastening.
- 10. Combustion air intake with air flow adjustment device.
- 11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
- 12. Three-phase electric motor to run fan and pump.
- 13. Flame presence check by photo resistance.
- 14. Electrical plant protection rating Ip40.



Model	Power kW	Power supply	Motor power kW	packing Size L*P*Hmmm	Net weight kg
BNL 40 P/FC	237-534	3N 380V 50Hz	0.37	860x680x600	59.5
BNL 55 P/FC	332-652	3N 380V 50Hz	1.1	1050x900x710	80

A	B	C	D	E	F	N	L	I	M
mm	mm	mm	mm	Φmm	Φmm	Φmm	Φmm	mm	M
528	408	1046	120-305	170	133	175	200-245	215	4-M12
610	485	1215	120-400	170	133	175	200-245	215	4-M12

Alternative function :

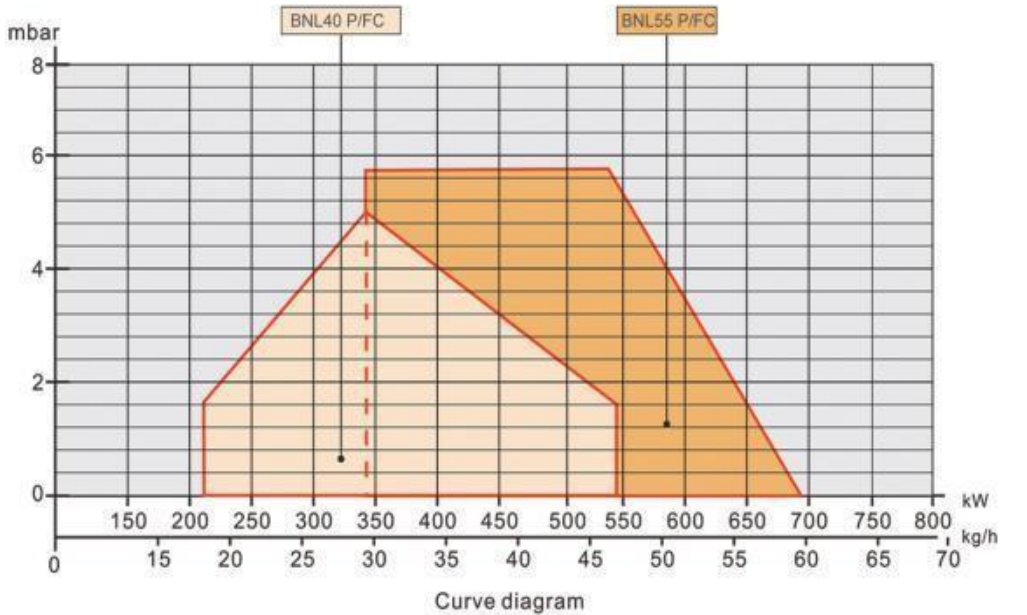
Can lengthen the blast tube ,
Can books the 60Hz.

Standard accessories :

Oil filter-Oil line-nozzle-the
partnership with the boiler

Remarks :

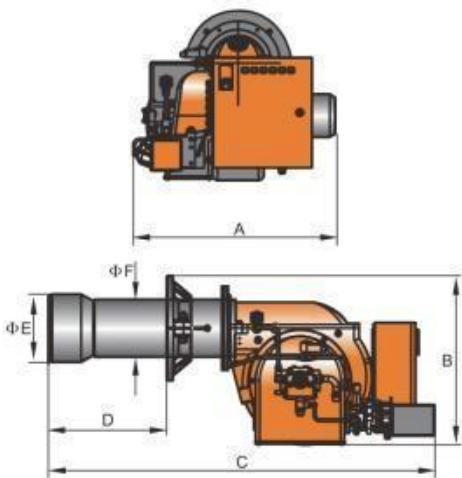
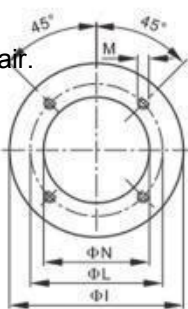
1)Electric servo drive motor



BNL 75/100 P/FC Light Oil Burner

Technical performance

- 1. Light oil burner.
- 2. Two-stage siding/modulating working.
- 3. High pressure mechanical atomisation of fuel using nozzle.
- 4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
- 5. The hinge connection, can be opened naturally.
- 6. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
- 7. Two-stage Air flow regulation for first and second stage by means of hydraulic regulator. The burner is paused, close the throttle to reduce the loss of furnace heat.
- 8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
- 9. One flange and one insulating seal for boiler fastening.
- 10. Combustion air intake with air flow adjustment device.
- 11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
- 12. Three-phase electric motor to run fan and pump.
- 13. Flame presence check by photo resistance.
- 14. Electrical plant protection rating Ip40.



Model	Power kW	Power supply	Motor power kW	packing Size L*P*Hmm	Net weight kg
BNL 75 P/FC	415-899	3N 380V 50Hz	1.1	1050x900x710	87.5
BNL 100 P/FC	533-1186	3N 380V 50Hz	1.5	1050x900x710	92

A	B	C	D	E	F	N	L	I	M
mm	mm	mm	mm	Φmm	Φmm	Φmm	Φmm	mm	M
610	510	1250	170-400	205	159	215	233	290	4-M12
625	513	1270	180-400	230	194	240	276	320	4-M16

Alternative function :

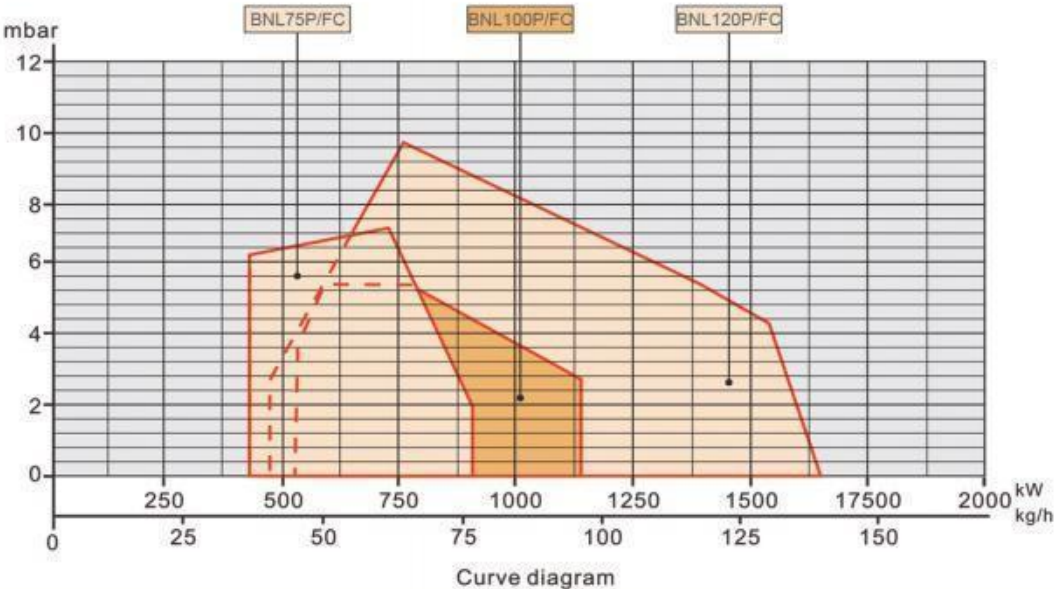
Can lengthen the blast tube ,
Can books the 60Hz.

Standard accessories :

Oil filter-Oil line-nozzle-the
partnership with the boiler

Remarks :

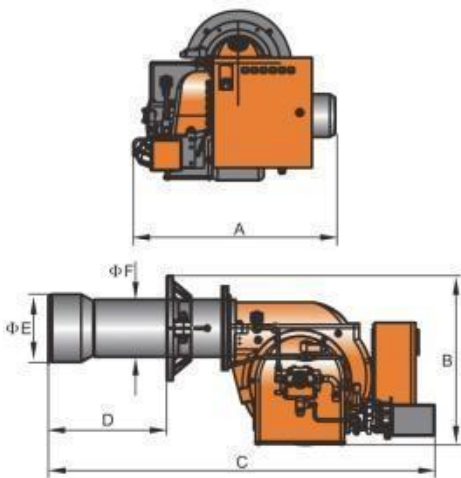
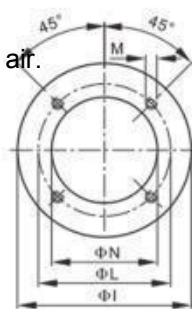
1)Electric servo drive motor



BNL 120/180/250 P/FC Light Oil Burner

Technical performance

1. Light oil burner.
2. Two-stage siding/modulating working.
3. High pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. The hinge connection, can be opened naturally.
6. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
7. Two-stage Air flow regulation for first and second stage by means of hydraulic regulator. The burner is paused, close the throttle to reduce the loss of furnace heat.
8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
9. One flange and one insulating seal for boiler fastening.
10. Combustion air intake with air flow adjustment device.
11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
12. Three-phase electric motor to run fan and pump.
13. Flame presence check by photo resistance.
14. Electrical plant protection rating Ip40.



Model	Power kW	Power supply	Motor power kW	packing Size L*P*Hmm	Net weight kg
BNL 120 DSG/FC	474-1660	3N 380V 50Hz	2.2	1250x1150x780	119
BNL 180 P/FC	712-2135	3N 380V 50Hz	3	1250x1150x780	155
BNL 250 P/FC	873-3186	3N 380V 50Hz	7.5	1620x1200x960	222

A	B	C	D	E	F	N	L	I	M
mm	mm	mm	mm	Φmm	Φmm	Φmm	Φmm	mm	M
716	605	1380	185-400	230	194	240	276	320	4-M16
730	645	1480	245-450	260	219	270	339	400	4-M16
970	770	1560	240-445	260	219	270	339	400	4-M16

Alternative function :

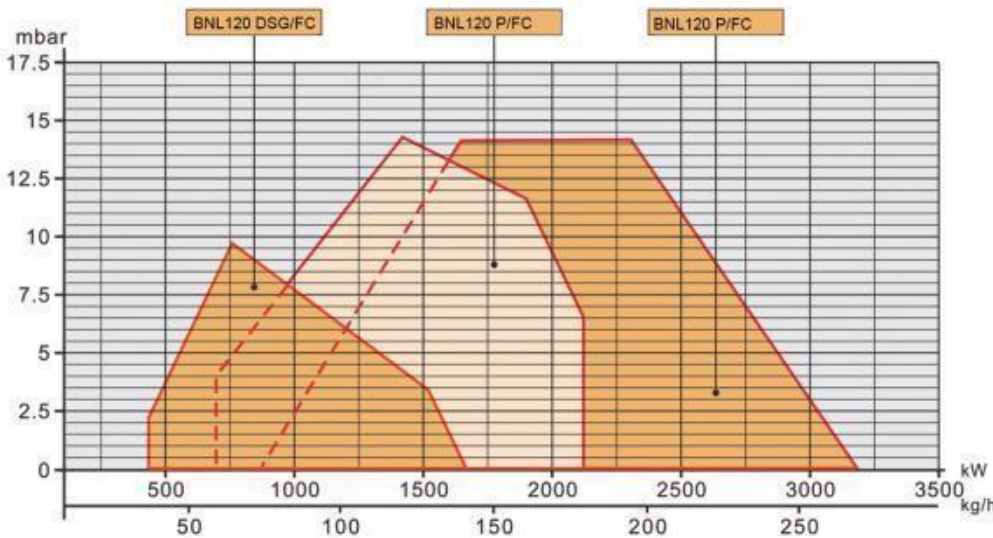
Can lengthen the blast tube,
Can books the 60Hz.

Proportional adjustment function :

If install the PID on the burner,
it will be modulating type

Standard accessories :

Oil filter-Oil line-nozzle(1:3)-the
partnership with the boiler.



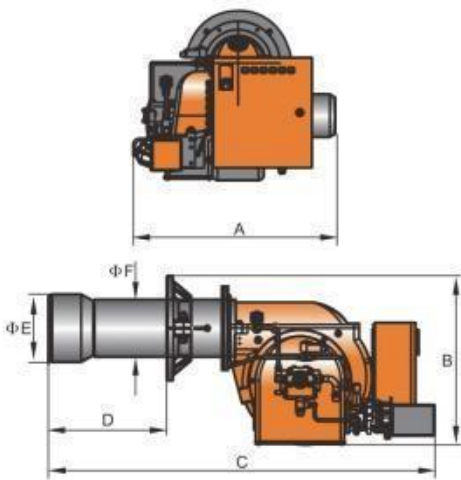
Curve diagram



BNL 300/350/600 P/FC Light Oil Burner

Technical performance

- 1. Light oil burner.
- 2. Two-stage siding/modulating working.
- 3. High pressure mechanical atomisation of fuel using nozzle.
- 4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
- 5. The hinge connection, can be opened naturally.
- 6. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
- 7. Two-stage Air flow regulation for first and second stage by means of hydraulic regulator. The burner is paused, close the throttle to reduce the loss of furnace heat.
- 8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
- 9. One flange and one insulating seal for boiler fastening.
- 10. Combustion air intake with air flow adjustment device.
- 11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
- 12. Three-phase electric motor to run fan and pump.
- 13. Flame presence check by photo resistance.
- 14. Electrical plant protection rating Ip40.



Model	Power kW	Power supply	Motor power kW	packing Size L*P*Hmm	Net weight kg
BNL 300 P/FC	1304-3854	3N 380V 50Hz	7.5	1620x1200x960	288
BNL 350 P/FC	1364-4151	3N 380V 50Hz	9	1620x1200x960	310
BNL 600 P/FC	1840-5522	3N 380V 50Hz	12.5	1620x1200x960	330

A	B	C	D	E	F	N	L	I	M
mm	mm	mm	mm	Φmm	Φmm	Φmm	Φmm	mm	M
995	860	1830	240-600	356	273	380	462-520	550	3-M20
995	860	1830	240-600	356	273	380	462-520	550	3-M20
970	860	1800	500	365	325	380	520	580	6-M20

Alternative function :

Can lengthen the blast tube,
Can books the 60Hz.

Proportional adjustment function :

If install the PID on the burner,
it will be modulating type

Standard accessories :

Oil filter-Oil line-nozzle(1:3)-the
partnership with the boiler.

