

BNTET[®]

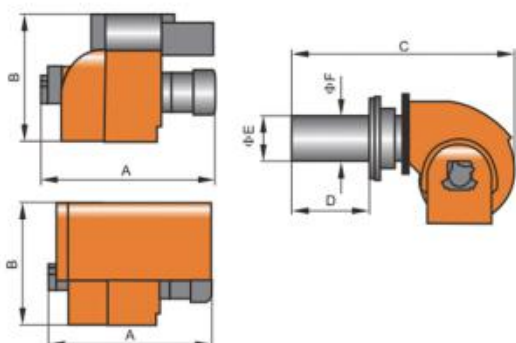
BNL Series Burners Manual



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 |

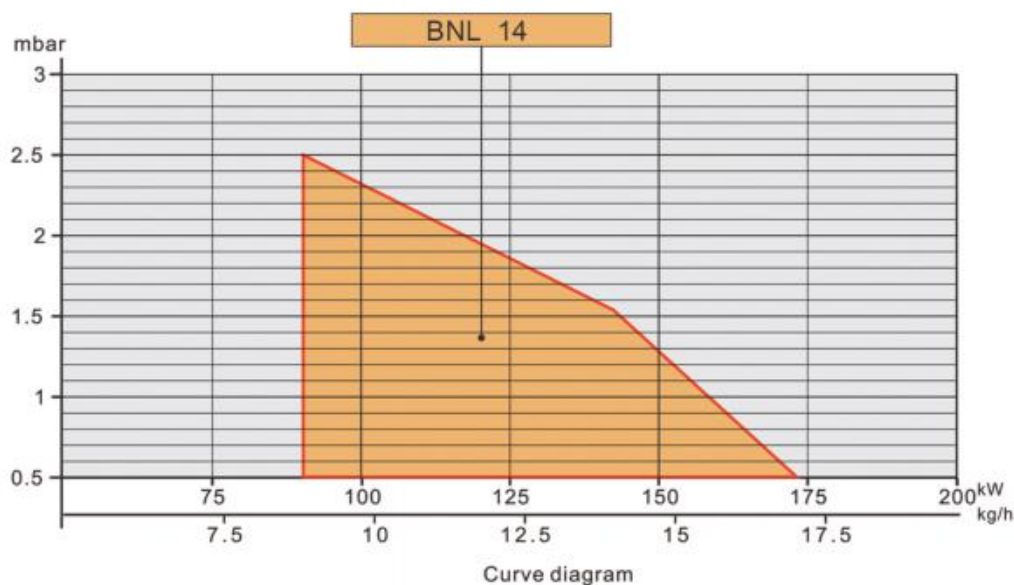
| A | B | C | D | E | F | N | L | I | M |
|-----|-----|-----|--------|-----|-----|-----|---------|-----|------|
| mm | mm | mm | mm | Φmm | Φmm | Φmm | Φmm | mm | M |
| 355 | 275 | 415 | 80-110 | 95 | 95 | 100 | 130-155 | 170 | 4-M8 |

Alternative function:

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

Standard accessories:

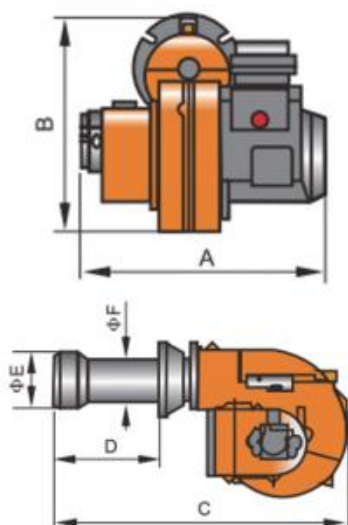
Oil filter-Oil line-nozzle-the
partnership with the boiler



BNL 18/26/35 DSG Light Oil Burner

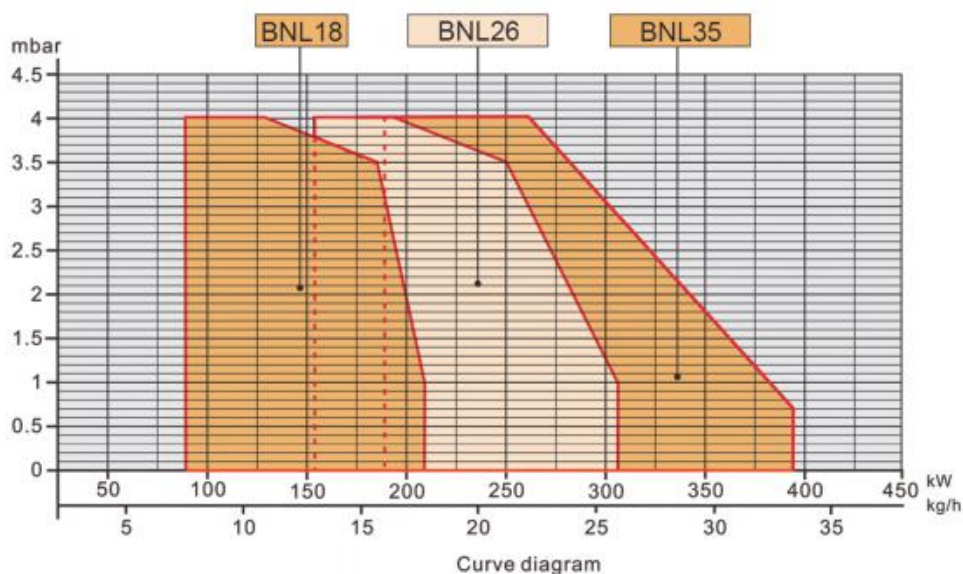
Technical performance

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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 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.

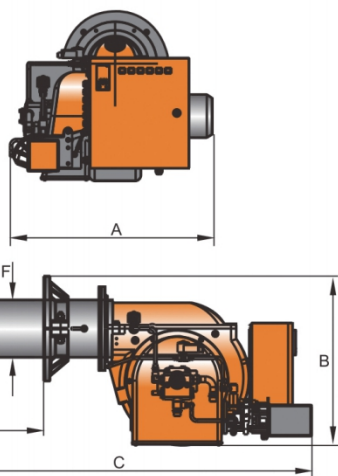
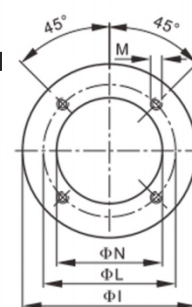
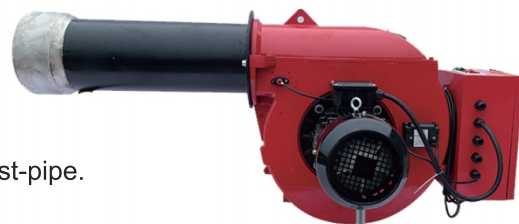
Standard accessories:

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



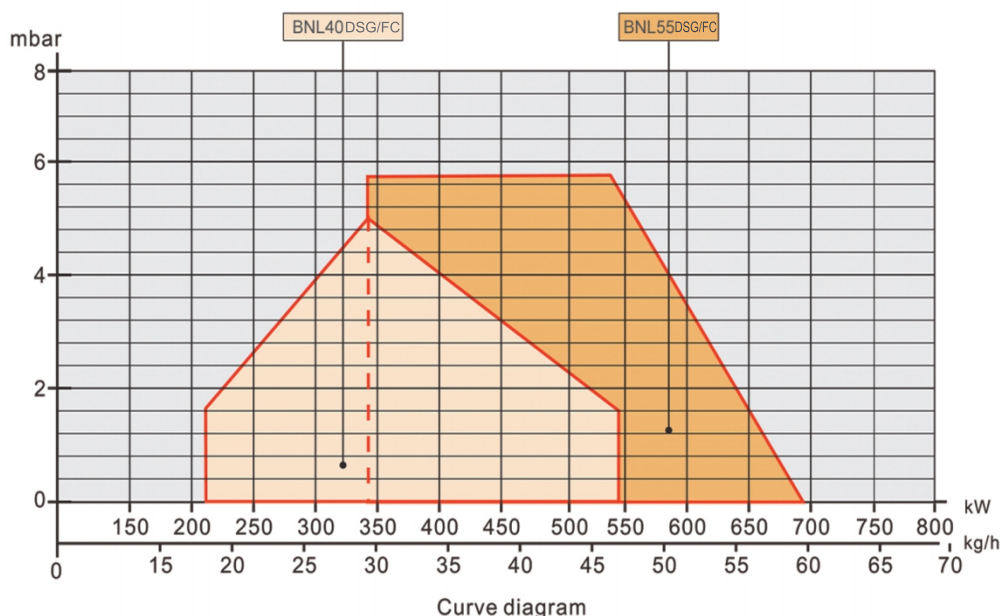
Technical performance

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
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 40DSG/FC | 237-534 | 3N 380V 50Hz | 0.37 | 860x680x600 | 59.5 |
| BNL 55DSG/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

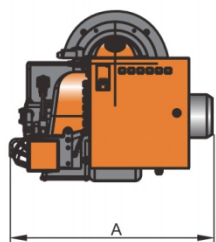
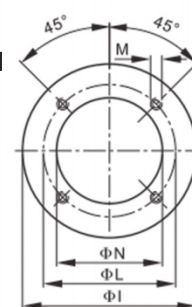
Remarks:

1)Electric servo drive motor



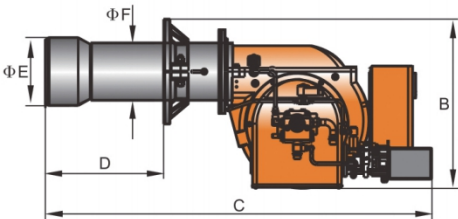
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12. Three-phase electric motor to run fan and pump.
13. Flame presence check by photo resistance.
14. Electrical plant protection rating Ip40.



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

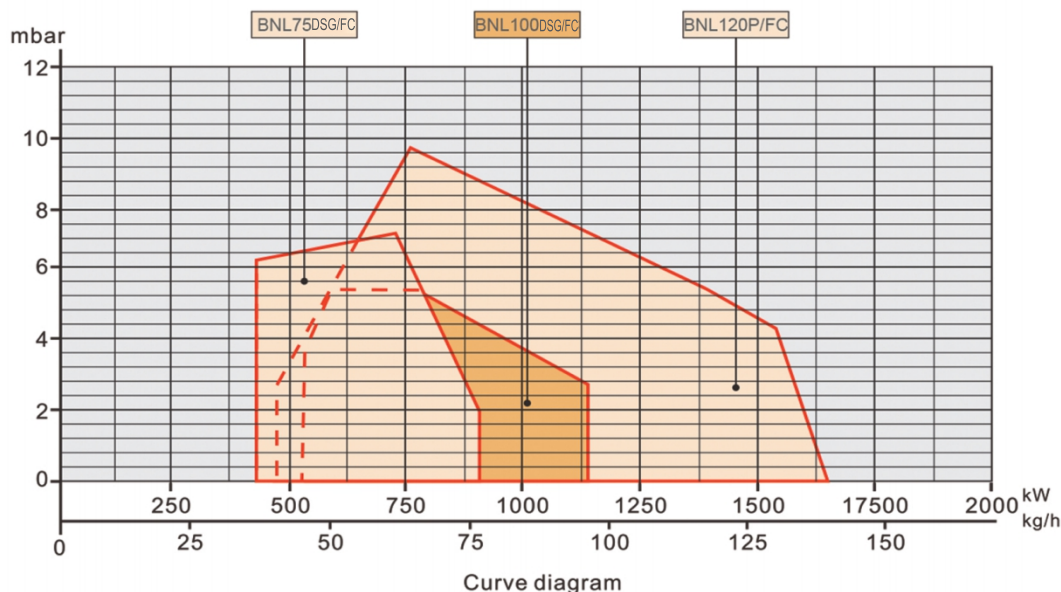
Can lengthen the blast tube ,
Can books the 60Hz.

Standard accessories:

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

Remarks:

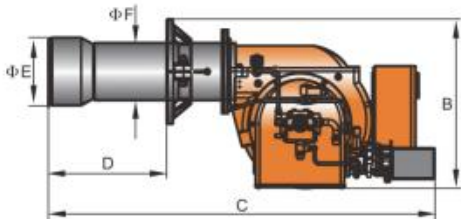
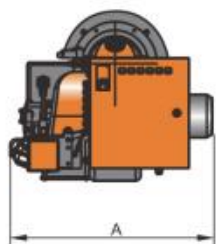
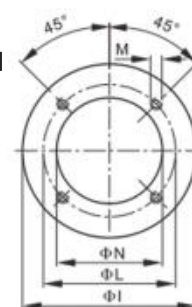
1)Electric servo drive motor



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
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:

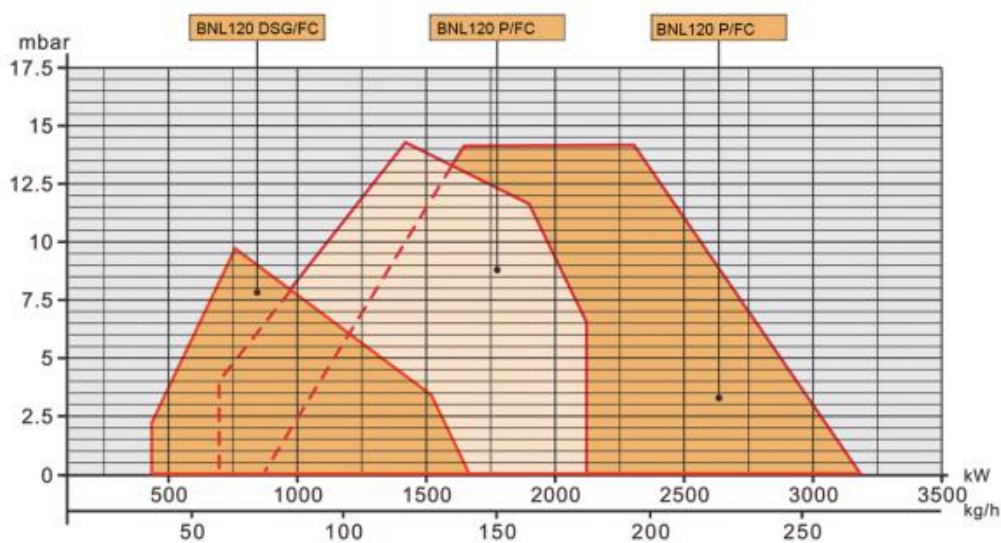
- Can lengthen the blast tube,
- Can books the 60Hz.

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.



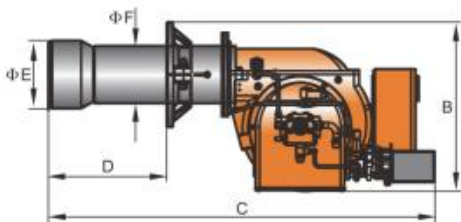
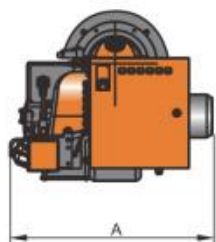
Curve diagram



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

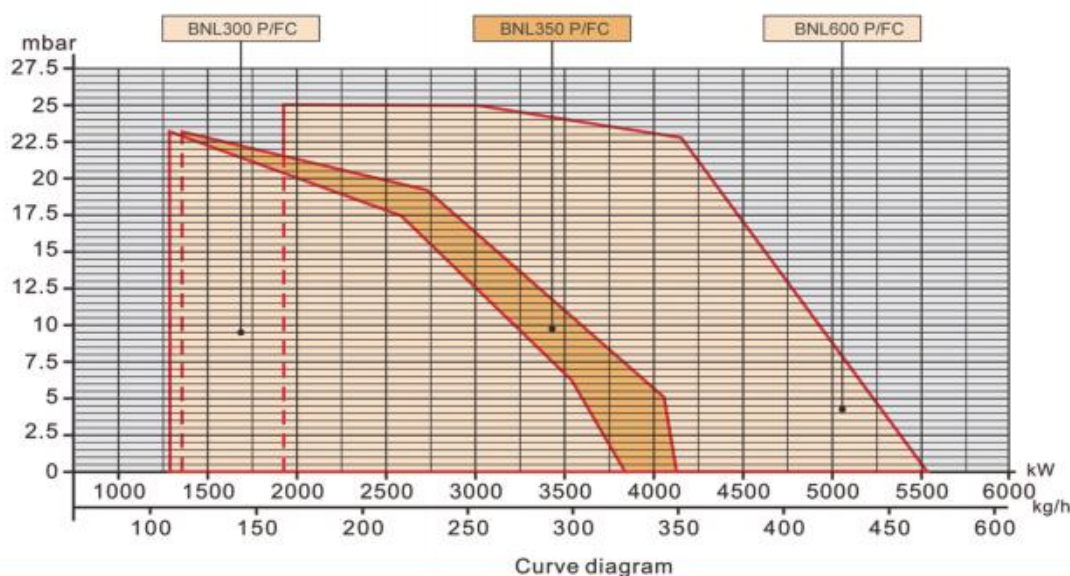
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8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
9. One flange and one insulating seal for boiler fastening.
10. Combustion air intake with air flow adjustment device.
11. Sliding boiler coupling 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.





ZHENGZHOU BONA HEAT ENERGY EQUIPMENT CO., LTD.

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