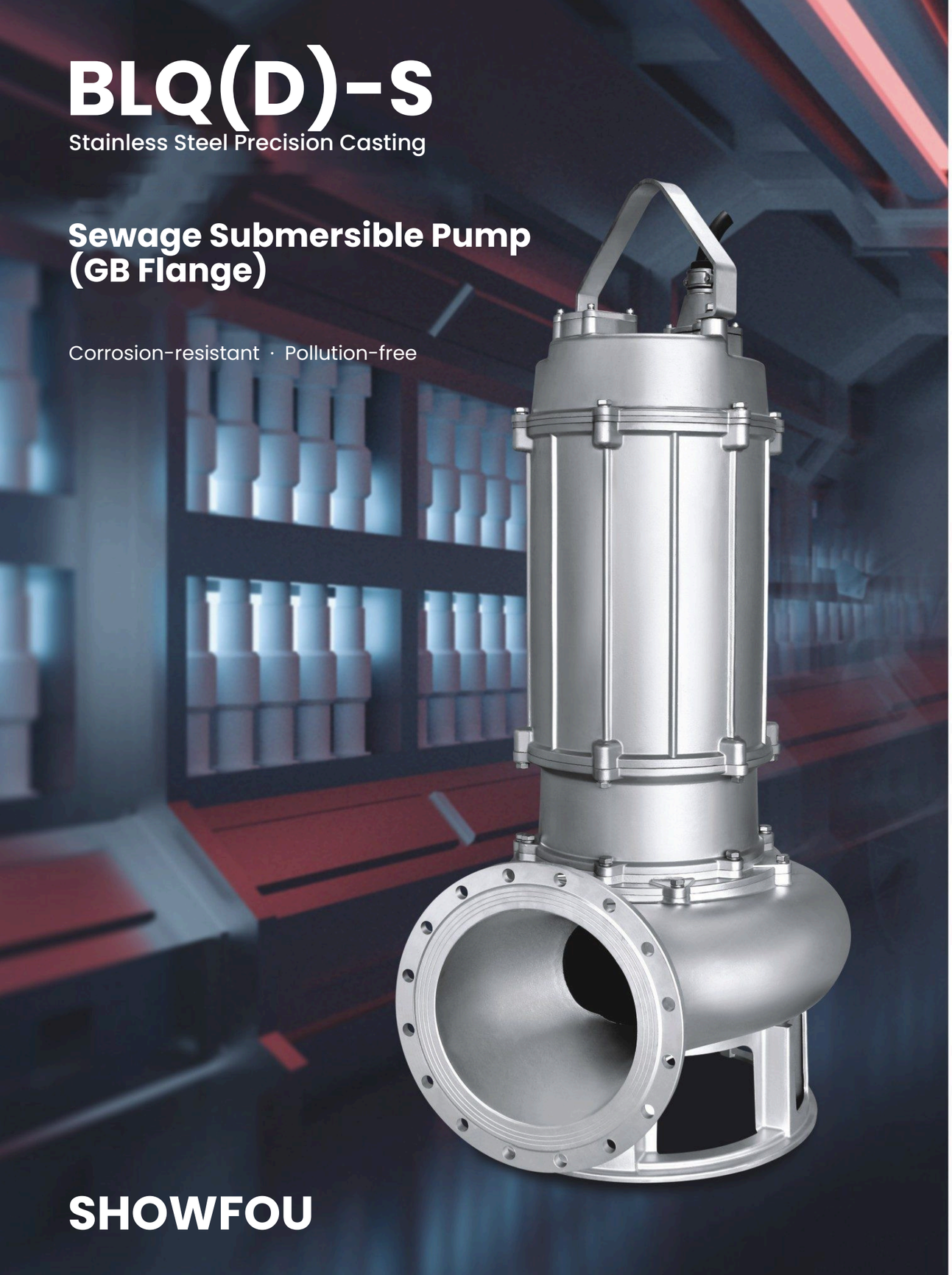


# BLQ(D)-S

Stainless Steel Precision Casting

## Sewage Submersible Pump (GB Flange)

Corrosion-resistant · Pollution-free

SHOWFOU

High Flow · High Head · Safe & Durable







Optional Agitator Device

## Sewage Submersible Pump (GB Flange) – BLQ(D)-S

### Product Overview

1. The BLQ(D)-S sewage submersible pump has a precision-cast stainless steel housing that is pollution-free and corrosion-resistant, widening its range of water supply and drainage applications. The closed double-channel impeller with a symmetrical flow path gives good balance, smooth running and low vibration, extending service life. The flow passage handles solids well, and measured efficiency exceeds the national standard for lower energy use.
2. Purpose-built submersible motor with IP68 protection and Class F insulation. Efficient water cooling keeps the actual temperature rise low and extends insulation life. Models of 7.5 kW and below are fitted with an overload protector that cuts power automatically if the motor runs abnormally.
3. Fluororubber double-face mechanical seal. Models below 7.5 kW also have a skeleton oil seal; models of 11 kW and above use two to three mechanical seals in series, forming multiple reliable sealing barriers. One seal in the pump chamber stops water from entering the oil chamber; the other, in the oil chamber, stops oil from entering the motor. The oil chamber holds suitable mechanical oil that lubricates and cools both independent seals, making them more reliable, and also removes heat from the lower bearing and part of the motor.
4. Some models use a special cable construction that fully prevents water from seeping into the motor through the gaps between conductors if the cable jacket is damaged or the cable end is submerged.
5. An agitator device can be fitted on request. Rotating with the motor shaft, it produces a strong stirring force that lifts sediment in the sump into suspension so it is pumped out.

### Operating Conditions

1. Power supply: 50 Hz, three-phase 380 V.
2. Liquid temperature ≤ 40 °C; solids content by volume < 2%; liquid density < 1200 kg/m³.
3. During operation, the liquid level must not fall below 2/3 of the motor height.
4. Solids in the liquid must not exceed the maximum particle size the pump can pass.
5. pH range of the pumped liquid (temperature-dependent, for reference only): SS304 (4–10), SS316 (4–13), SS316L (3–13).

### Applications

1. Sewage treatment systems for construction projects, industrial and mining enterprises and municipal works.
2. Sewage discharge, sewage relay pumping and sewage treatment in urban environmental systems.
3. Auxiliary equipment for exploration and mining.
4. Food processing, medical facilities, seawater drainage, ship bilge water and sewage discharge.
5. Agricultural irrigation, rural biogas digesters, fish farming, fountains and water features.

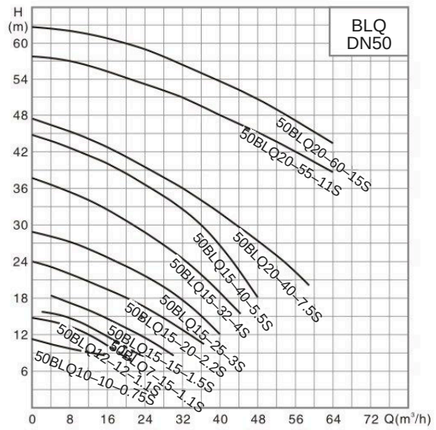
### Model Designation

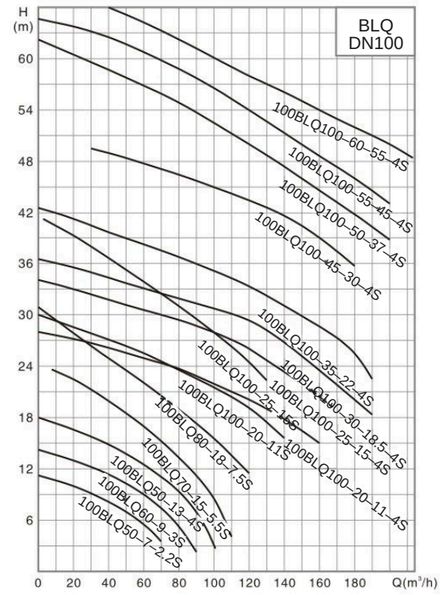
**50 BLQ 15 - 20 - 2.2 S**

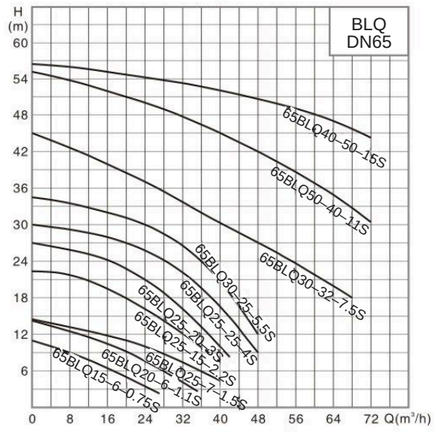
- S — Stainless steel
- 2.2 — Power (kW)
- 20 — Rated head (m)
- 15 — Rated flow (m³/h)
- BLQ — Sewage submersible pump
- 50 — Outlet diameter (mm)

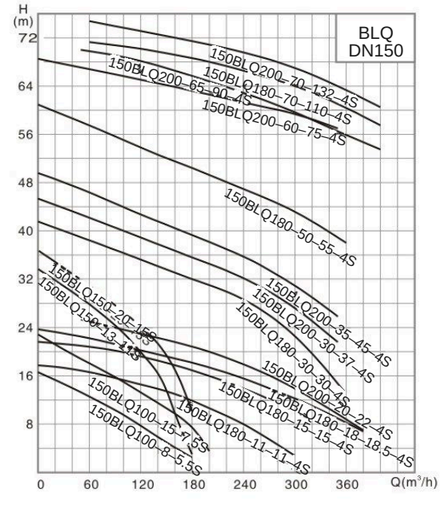
**Material corrosion-resistance data available on request.**

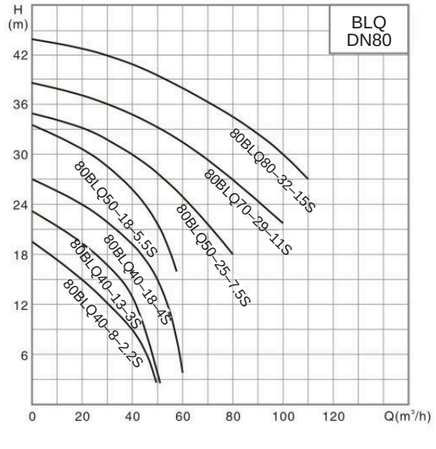
## Performance Curve



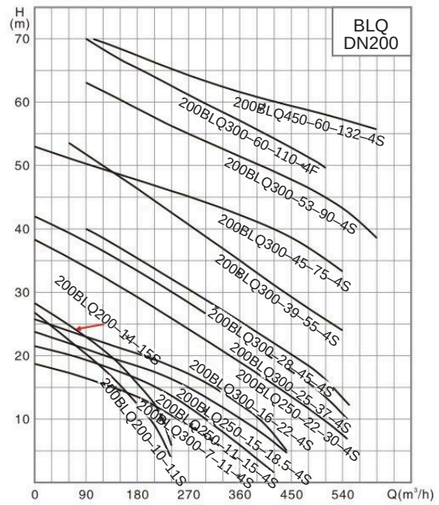



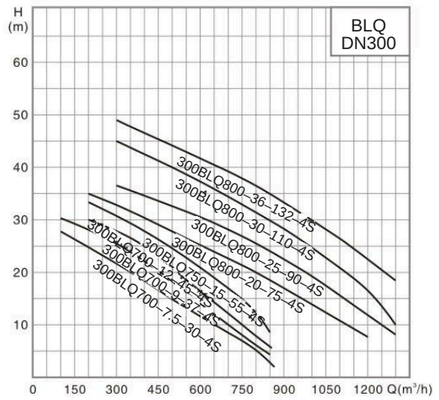



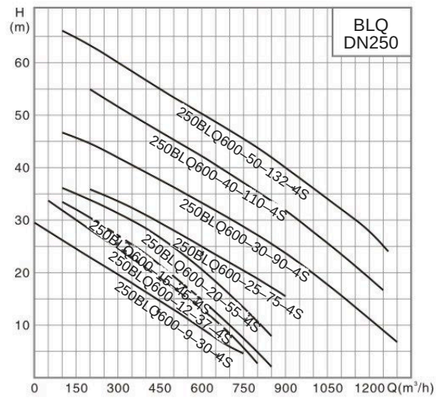


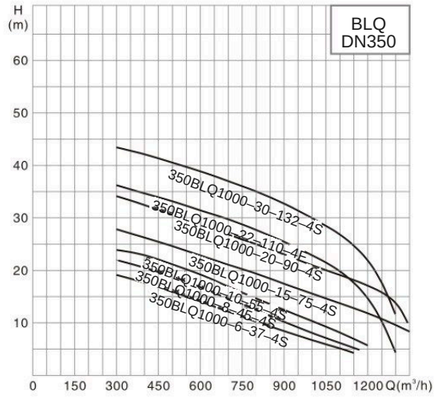



## Performance Curve



## Technical Parameters

| Model | Rated Flow (m³/h) | Rated Head (m) | Power (kW) | Voltage (V) | Outlet Dia. (mm) | Speed (r/min) |
|---|---|---|---|---|---|---|
| 50BLQD10-10-0.75S | 10 | 10 | 0.75 | 220 | 50 | 2850 |
| 65BLQD15-6-0.75S | 15 | 6 | 0.75 | 220 | 65 | 2850 |
| 50BLQD7-15-1.1S | 7 | 15 | 1.1 | 220 | 50 | 2850 |
| 65BLQD20-6-1.1S | 20 | 6 | 1.1 | 220 | 65 | 2850 |
| 50BLQ10-10-0.75S | 10 | 10 | 0.75 | 380 | 50 | 2850 |
| 65BLQ15-6-0.75S | 15 | 6 | 0.75 | 380 | 65 | 2850 |
| 50BLQ7-15-1.1S | 7 | 15 | 1.1 | 380 | 50 | 2850 |
| 65BLQ20-6-1.1S | 20 | 6 | 1.1 | 380 | 65 | 2850 |
| 50BLQD15-15-1.5S(I) | 15 | 15 | 1.5 | 220 | 50 | 2850 |
| 65BLQD25-7-1.5S(I) | 25 | 7 | 1.5 | 220 | 65 | 2850 |
| 50BLQ15-15-1.5S(I) | 15 | 15 | 1.5 | 380 | 50 | 2850 |
| 65BLQ25-7-1.5S(I) | 25 | 7 | 1.5 | 380 | 65 | 2850 |
| 50BLQD15-15-1.5S | 15 | 15 | 1.5 | 220 | 50 | 2850 |
| 65BLQD25-7-1.5S | 25 | 7 | 1.5 | 220 | 65 | 2850 |
| 50BLQ15-15-1.5S | 15 | 15 | 1.5 | 380 | 50 | 2850 |
| 65BLQ25-7-1.5S | 25 | 7 | 1.5 | 380 | 65 | 2850 |
| 50BLQD15-20-2.2S | 15 | 20 | 2.2 | 220 | 50 | 2850 |
| 65BLQD25-15-2.2S | 25 | 15 | 2.2 | 220 | 65 | 2850 |
| 80BLQD40-9-2.2S | 40 | 9 | 2.2 | 220 | 80 | 2850 |
| 100BLQD50-7-2.2S | 50 | 7 | 2.2 | 220 | 100 | 2850 |
| 50BLQ15-20-2.2S(I) | 15 | 20 | 2.2 | 380 | 50 | 2850 |
| 65BLQ25-15-2.2S(I) | 25 | 15 | 2.2 | 380 | 65 | 2850 |
| 80BLQ40-9-2.2S(I) | 40 | 9 | 2.2 | 380 | 80 | 2850 |
| 50BLQ15-20-2.2S | 15 | 20 | 2.2 | 380 | 50 | 2850 |
| 65BLQ25-15-2.2S | 25 | 15 | 2.2 | 380 | 65 | 2850 |
| 80BLQ40-9-2.2S | 40 | 9 | 2.2 | 380 | 80 | 2850 |
| 100BLQ50-7-2.2S | 50 | 7 | 2.2 | 380 | 100 | 2850 |
| 50BLQ15-25-3S | 15 | 25 | 3 | 380 | 50 | 2850 |
| 65BLQ25-20-3S | 25 | 20 | 3 | 380 | 65 | 2850 |
| 80BLQ40-15-3S | 40 | 15 | 3 | 380 | 80 | 2850 |
| 100BLQ50-10-3S | 50 | 10 | 3 | 380 | 100 | 2850 |
| 50BLQ15-32-4S(I) | 15 | 32 | 4 | 380 | 50 | 2900 |
| 65BLQ25-25-4S(I) | 25 | 25 | 4 | 380 | 65 | 2900 |
| 80BLQ40-18-4S(I) | 40 | 18 | 4 | 380 | 80 | 2900 |
| 100BLQ50-15-4S(I) | 50 | 15 | 4 | 380 | 100 | 2900 |



BLQ(D)-S SHOWFOU

## Technical Parameters

| Model | Rated Flow (m³/h) | Rated Head (m) | Power (kW) | Voltage (V) | Outlet Dia. (mm) | Speed (r/min) |
|---|---|---|---|---|---|---|
| 50BLQ15-32-4S | 15 | 32 | 4 | 380 | 50 | 2900 |
| 65BLQ25-25-4S | 25 | 25 | 4 | 380 | 65 | 2900 |
| 80BLQ40-18-4S | 40 | 18 | 4 | 380 | 80 | 2900 |
| 100BLQ50-15-4S | 50 | 15 | 4 | 380 | 100 | 2900 |
| 50BLQ15-40-5.5S | 15 | 40 | 5.5 | 380 | 50 | 2900 |
| 65BLQ30-25-5.5S | 30 | 25 | 5.5 | 380 | 65 | 2900 |
| 80BLQ50-18-5.5S | 50 | 18 | 5.5 | 380 | 80 | 2900 |
| 100BLQ80-10-5.5S | 80 | 10 | 5.5 | 380 | 100 | 2900 |
| 150BLQ100-8-5.5S | 100 | 8 | 5.5 | 380 | 150 | 2900 |
| 50BLQ20-40-7.5S(I) | 20 | 40 | 7.5 | 380 | 50 | 2900 |
| 65BLQ30-32-7.5S(I) | 30 | 32 | 7.5 | 380 | 65 | 2900 |
| 80BLQ45-22-7.5S(I) | 45 | 22 | 7.5 | 380 | 80 | 2900 |
| 100BLQ80-18-7.5S(I) | 80 | 18 | 7.5 | 380 | 100 | 2900 |
| 150BLQ100-10-7.5S(I) | 100 | 10 | 7.5 | 380 | 150 | 2900 |
| 50BLQ20-55-11S | 20 | 55 | 11 | 380 | 50 | 2900 |
| 65BLQ40-45-11S | 40 | 45 | 11 | 380 | 65 | 2900 |
| 80BLQ70-30-11S | 70 | 30 | 11 | 380 | 80 | 2900 |
| 100BLQ100-20-11S | 100 | 20 | 11 | 380 | 100 | 2900 |
| 150BLQ150-15-11S | 150 | 15 | 11 | 380 | 150 | 2900 |
| 200BLQ220-8-11S | 220 | 8 | 11 | 380 | 200 | 2900 |
| 50BLQ20-60-15S | 20 | 60 | 15 | 380 | 50 | 2900 |
| 65BLQ40-50-15S | 40 | 50 | 15 | 380 | 65 | 2900 |
| 80BLQ70-35-15S | 70 | 35 | 15 | 380 | 80 | 2900 |
| 100BLQ100-25-15S | 100 | 25 | 15 | 380 | 100 | 2900 |
| 150BLQ150-20-15S | 150 | 20 | 15 | 380 | 150 | 2900 |
| 200BLQ220-10-15S | 220 | 10 | 15 | 380 | 200 | 2900 |
| 100BLQ100-20-11S | 100 | 20 | 11 | 380 | 100 | 1450 |
| 150BLQ180-11-11S | 180 | 11 | 11 | 380 | 150 | 1450 |
| 200BLQ250-7-11S | 250 | 7 | 11 | 380 | 200 | 1450 |
| 100BLQ100-25-15S | 100 | 25 | 15 | 380 | 100 | 1450 |
| 150BLQ180-15-15S | 180 | 15 | 15 | 380 | 150 | 1450 |
| 200BLQ250-11-15S | 250 | 11 | 15 | 380 | 200 | 1450 |
| 100BLQ100-30-18.5S | 100 | 30 | 18.5 | 380 | 100 | 1450 |
| 150BLQ180-18-18.5S | 180 | 18 | 18.5 | 380 | 150 | 1450 |
| 200BLQ250-15-18.5S | 250 | 15 | 18.5 | 380 | 200 | 1450 |

## Technical Parameters

| Model | Rated Flow (m³/h) | Rated Head (m) | Power (kW) | Voltage (V) | Outlet Dia. (mm) | Speed (r/min) |
|---|---|---|---|---|---|---|
| 250BLQ500-7-18.5S | 500 | 7 | 18.5 | 380 | 250 | 1450 |
| 100BLQ100-35-22S | 100 | 35 | 22 | 380 | 100 | 1450 |
| 150BLQ200-20-22S | 200 | 20 | 22 | 380 | 150 | 1450 |
| 200BLQ300-16-22S | 300 | 16 | 22 | 380 | 200 | 1450 |
| 250BLQ500-9-22S | 500 | 9 | 22 | 380 | 250 | 1450 |
| 100BLQ100-45-30S | 100 | 45 | 30 | 380 | 100 | 1450 |
| 150BLQ180-30-30S | 180 | 30 | 30 | 380 | 150 | 1450 |
| 200BLQ250-22-30S | 250 | 22 | 30 | 380 | 200 | 1450 |
| 250BLQ600-9-30S | 600 | 9 | 30 | 380 | 250 | 1450 |
| 300BLQ800-7-30S | 800 | 7 | 30 | 380 | 300 | 1450 |
| 100BLQ100-50-37S | 100 | 50 | 37 | 380 | 100 | 1450 |
| 150BLQ200-30-37S | 200 | 30 | 37 | 380 | 150 | 1450 |
| 200BLQ350-25-37S | 350 | 25 | 37 | 380 | 200 | 1450 |
| 250BLQ600-12-37S | 600 | 12 | 37 | 380 | 250 | 1450 |
| 300BLQ800-9-37S | 800 | 9 | 37 | 380 | 300 | 1450 |
| 350BLQ1000-6-37S | 1000 | 6 | 37 | 380 | 350 | 1450 |
| 100BLQ100-55-45S | 100 | 55 | 45 | 380 | 100 | 1450 |
| 150BLQ200-35-45S | 200 | 35 | 45 | 380 | 150 | 1450 |
| 200BLQ400-25-45S | 400 | 25 | 45 | 380 | 200 | 1450 |
| 250BLQ600-15-45S | 600 | 15 | 45 | 380 | 250 | 1450 |
| 300BLQ800-12-45S | 800 | 12 | 45 | 380 | 300 | 1450 |
| 350BLQ1000-8-45S | 1000 | 8 | 45 | 380 | 350 | 1450 |
| 100BLQ100-65-55S | 100 | 65 | 55 | 380 | 100 | 1450 |
| 150BLQ180-50-55S | 180 | 50 | 55 | 380 | 150 | 1450 |
| 200BLQ300-40-55S | 300 | 40 | 55 | 380 | 200 | 1450 |
| 200BLQ400-30-55S | 400 | 30 | 55 | 380 | 200 | 1450 |
| 250BLQ600-20-55S | 600 | 20 | 55 | 380 | 250 | 1450 |
| 300BLQ800-15-55S | 800 | 15 | 55 | 380 | 300 | 1450 |
| 350BLQ1000-10-55S | 1000 | 10 | 55 | 380 | 350 | 1450 |
| 150BLQ200-60-75S | 200 | 60 | 75 | 380 | 150 | 1450 |
| 200BLQ300-45-75S | 300 | 45 | 75 | 380 | 200 | 1450 |
| 250BLQ600-25-75S | 600 | 25 | 75 | 380 | 250 | 1450 |
| 300BLQ800-20-75S | 800 | 20 | 75 | 380 | 300 | 1450 |
| 350BLQ1000-15-75S | 1000 | 15 | 75 | 380 | 350 | 1450 |
| 400BLQ1300-13-75S | 1300 | 13 | 75 | 380 | 400 | 1450 |





## Technical Parameters

| Model | Rated Flow (m³/h) | Rated Head (m) | Power (kW) | Voltage (V) | Outlet Dia. (mm) | Speed (r/min) |
|---|---|---|---|---|---|---|
| 150BLQ200-65-90S | 200 | 65 | 90 | 380 | 150 | 1450 |
| 200BLQ300-55-90S | 300 | 55 | 90 | 380 | 200 | 1450 |
| 250BLQ600-30-90S | 600 | 30 | 90 | 380 | 250 | 1450 |
| 300BLQ800-25-90S | 800 | 25 | 90 | 380 | 300 | 1450 |
| 350BLQ1000-18-90S | 1000 | 18 | 90 | 380 | 350 | 1450 |
| 400BLQ1300-16-90S | 1300 | 16 | 90 | 380 | 400 | 1450 |
| 150BLQ200-75-110S | 200 | 75 | 110 | 380 | 150 | 1450 |
| 200BLQ400-55-110S | 400 | 55 | 110 | 380 | 200 | 1450 |
| 250BLQ600-40-110S | 600 | 40 | 110 | 380 | 250 | 1450 |
| 300BLQ800-30-110S | 800 | 30 | 110 | 380 | 300 | 1450 |
| 350BLQ1000-22-110S | 1000 | 22 | 110 | 380 | 350 | 1450 |
| 400BLQ1500-17-110S | 1500 | 17 | 110 | 380 | 400 | 1450 |
| 150BLQ200-80-132S | 200 | 80 | 132 | 380 | 150 | 1450 |
| 200BLQ400-60-132S | 400 | 60 | 132 | 380 | 200 | 1450 |
| 250BLQ600-50-132S | 600 | 50 | 132 | 380 | 250 | 1450 |
| 300BLQ800-35-132S | 800 | 35 | 132 | 380 | 300 | 1450 |
| 350BLQ1000-28-132S | 1000 | 28 | 132 | 380 | 350 | 1450 |
| 400BLQ1700-16-132S | 1700 | 16 | 132 | 380 | 400 | 1450 |
| 250BLQ600-60-160S | 600 | 60 | 160 | 380 | 250 | 1450 |
| 300BLQ800-40-160S | 800 | 40 | 160 | 380 | 300 | 1450 |
| 350BLQ1000-35-160S | 1000 | 35 | 160 | 380 | 350 | 1450 |
| 400BLQ1600-20-160S | 1600 | 20 | 160 | 380 | 400 | 1450 |
| 500BLQ2000-16-160S | 2000 | 16 | 160 | 380 | 500 | 1450 |
| 250BLQ600-70-185S | 600 | 70 | 185 | 380 | 250 | 1450 |
| 300BLQ900-40-185S | 900 | 40 | 185 | 380 | 300 | 1450 |
| 350BLQ1100-38-185S | 1100 | 38 | 185 | 380 | 350 | 1450 |
| 400BLQ1600-25-185S | 1600 | 25 | 185 | 380 | 400 | 1450 |
| 500BLQ2200-15-185S | 2200 | 15 | 185 | 380 | 500 | 1450 |
| 250BLQ750-75-200S | 750 | 75 | 200 | 380 | 250 | 1450 |
| 300BLQ1000-45-200S | 1000 | 45 | 200 | 380 | 300 | 1450 |
| 350BLQ1300-35-200S | 1300 | 35 | 200 | 380 | 350 | 1450 |
| 400BLQ1600-27-200S | 1600 | 27 | 200 | 380 | 400 | 1450 |
| 500BLQ2500-15-200S | 2500 | 15 | 200 | 380 | 500 | 1450 |
| 300BLQ1200-45-250S | 1200 | 45 | 250 | 380 | 300 | 1450 |
| 350BLQ1500-36-250S | 1500 | 36 | 250 | 380 | 350 | 1450 |
| 400BLQ1600-30-250S | 1600 | 30 | 250 | 380 | 400 | 1450 |
| 500BLQ2800-15-250S | 2800 | 15 | 250 | 380 | 500 | 1450 |