



BS WATER SUPPLY EQUIPMENT BOOSTER SYSTEM

50Hz



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Product Features

1. **Reliable Performance:** The booster system features a technologically advanced, lightweight vertical multistage centrifugal pump paired with a standby pump to ensure uninterrupted and reliable operation.
2. **Compact and Sleek Design:** Engineered with precision and equipped with unique valves, the system minimizes unnecessary lengths, delivering a well-coordinated, space-saving design.
3. **Clean and Hygienic:** Constructed with stainless steel pressure-boosting pumps and sanitary-grade stainless steel pipe valves, the system provides smooth flow channels resistant to rust and dirt buildup. This ensures high efficiency and minimal secondary water contamination.
4. **Pressure Stabilizer System:** With fully automated operation, an imported Variable Frequency Drive (VFD), and an advanced PID control system, the booster system maintains stable pipeline pressure for seamless water usage.
5. **Significant Energy Savings:** The combination of high-efficiency pumps and PID control reduces energy consumption by 30%-60% compared to traditional air-pressure water supply systems.
6. **Reliable Water Shortage Protection:** The system incorporates robust water shortage protection, preventing booster pump damage during dry operations. It resumes operation automatically when the water supply is restored, whether from a tap or water sump.

Structure

As shown in Figure 1, this constant-pressure water supply system features four pumps. Stabilizing or auxiliary pumps are not included by default but can be added upon request.

The system's pressure-stabilizing tank size and the specifications of its inlet and outlet main pipes are fully customizable to meet user requirements.

For added functionality, an optional sensor can be installed at the outlet to prevent pipe bursts or enable emergency automatic water supply. This feature is available upon request and is not included in the standard configuration.

Structure

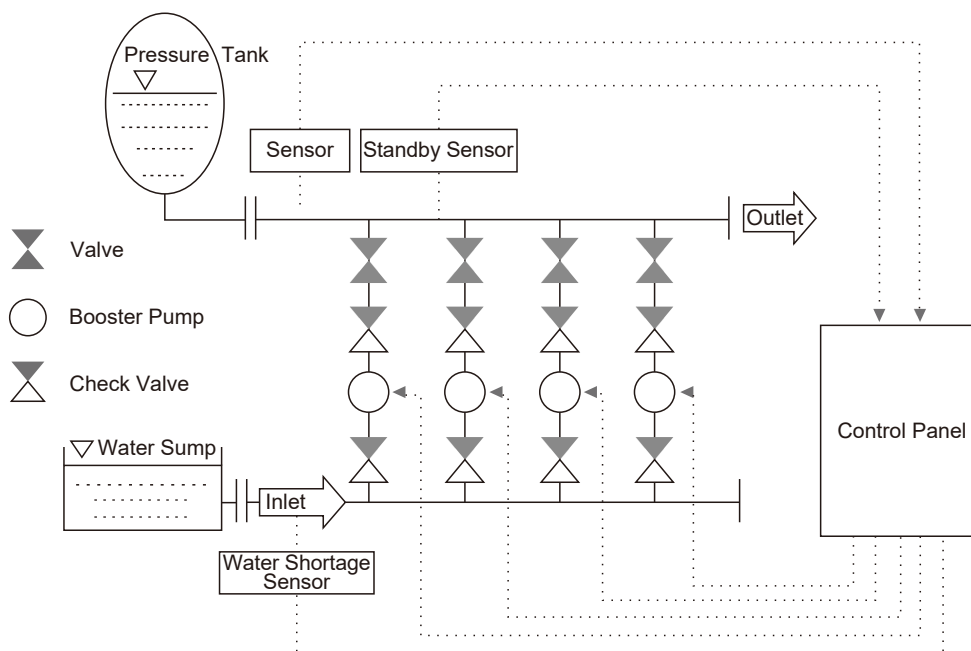
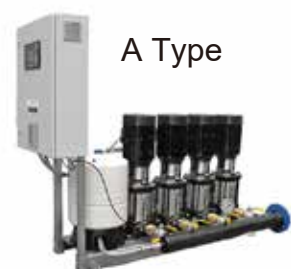
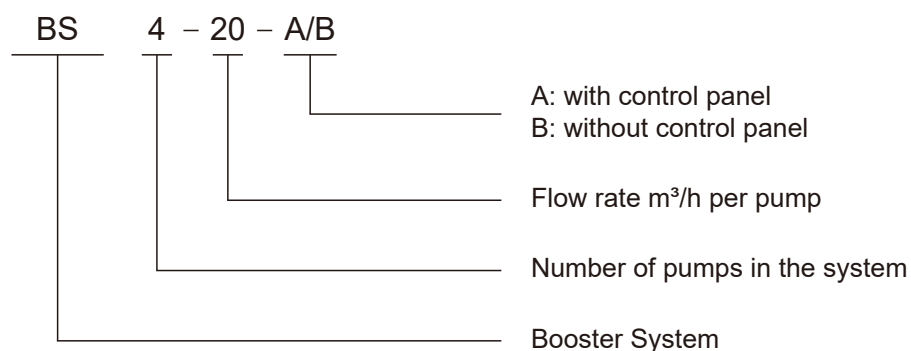


Figure 1

Model Specification



B Type



Performance Range

Rated voltage	3 Phase/380-415V
Motor speed	2,900 rpm
Flow range	4~360 m³/h
Pressure range	0.1~2.5 Mpa
Control mode	Manual (Power frequency) Automatic (frequency conversion)
Inlet diameter	DN65-DN300
Maximum Temperature	90°C

Frequency	50Hz
Pump Material	SS304/SS316
Head Range	10-250m
Power range	0.37-45Kw
Number of Pumps	2 ~ 4
Outlet diameter	DN65-DN300
Ambient temperature	Below 40°C

Specification

BS2-2

Rated flow: 2 m³/h per pump

Model	Electric Pump x2 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS2-2	0.37	DN65	50
	0.55	DN65	50
	0.75	DN65	50
	1.1	DN65	50
	1.5	DN65	50
	2.2	DN65	50
	3.0	DN65	50

BS2-15

Rated flow: 15 m³/h per pump

Model	Electric Pump x2 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS2-15	1.1	DN100	100
	2.2	DN100	100
	3.0	DN100	100
	4.0	DN100	100
	5.5	DN100	100
	7.5	DN100	100
	11	DN100	100
	15	DN100	100

BS2-45

Rated flow: 45 m³/h per pump

Model	Electric Pump x2 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS2-45	3.0	DN150	150
	4.0	DN150	150
	5.5	DN150	150
	7.5	DN150	150
	11	DN150	150
	15	DN150	150
	18.5	DN150	150
	22	DN150	150
	30	DN150	150
	37	DN150	150
	45	DN150	150

BS2-5

Rated flow: 5 m³/h per pump

Model	Electric Pump x2 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS2-5	0.37	DN65	50
	0.55	DN65	50
	0.75	DN65	50
	1.1	DN65	50
	1.5	DN65	50
	2.2	DN65	50
	3.0	DN65	50
	4.0	DN65	50
	5.5	DN65	50

BS2-20

Rated flow: 20 m³/h per pump

Model	Electric Pump x2 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS2-20	1.1	DN100	100
	2.2	DN100	100
	4.0	DN100	100
	5.5	DN100	100
	7.5	DN100	100
	11	DN100	100
	15	DN100	100
	18.5	DN100	100

BS2-64

Rated flow: 64 m³/h per pump

Model	Electric Pump x2 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS2-64	4	DN200	200
	5.5	DN200	200
	7.5	DN200	200
	11	DN200	200
	15	DN200	200
	18.5	DN200	200
	22	DN200	200
	30	DN200	200
	37	DN200	200
	45	DN200	200

BS2-10

Rated flow: 10 m³/h per pump

Model	Electric Pump x2 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS2-10	0.37	DN80	80
	0.75	DN80	80
	1.1	DN80	80
	1.5	DN80	80
	2.2	DN80	80
	3.0	DN80	80
	4.0	DN80	80
	5.5	DN80	80
	7.5	DN80	80

BS2-32

Rated flow: 32 m³/h per pump

Model	Electric Pump x2 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS2-32	1.5	DN125	100
	2.2	DN125	100
	3.0	DN125	100
	4.0	DN125	100
	5.5	DN125	100
	7.5	DN125	100
	11	DN125	100
	15	DN125	100
	18.5	DN125	100
	22	DN125	100
	22	DN150	100
	30	DN150	100

BS2-90

Rated flow: 90 m³/h per pump

Model	Electric Pump x2 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS2-90	5.5	DN200	200
	7.5	DN200	200
	11	DN200	200
	15	DN200	200
	18.5	DN200	200
	22	DN200	200
	30	DN200	200
	37	DN200	200
	45	DN200	200

* Pump Operation Mode (BS2): The system alternates between one pump operating and the other on standby, ensuring balanced performance and a longer system lifespan.

Specification

BS3-2
Rated flow: 2 m³/h per pump

Model	Electric Pump x3 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS3-2	0.37	DN65	50
	0.55	DN65	50
	0.75	DN65	50
	1.1	DN65	50
	1.5	DN65	50
	2.2	DN65	50
	3.0	DN65	50

BS3-15
Rated flow: 15 m³/h per pump

Model	Electric Pump x3 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS3-15	1.1	DN100	100
	2.2	DN100	100
	3.0	DN100	100
	4.0	DN100	100
	5.5	DN100	100
	7.5	DN100	100
	11	DN100	100
	15	DN100	100

BS3-45
Rated flow: 45 m³/h per pump

Model	Electric Pump x3 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS3-45	3.0	DN200	150
	4.0	DN200	150
	5.5	DN200	150
	7.5	DN200	150
	11	DN200	150
	15	DN200	150
	18.5	DN200	150
	22	DN200	150
	30	DN200	150
	37	DN200	150
	45	DN200	150

BS3-5
Rated flow: 5 m³/h per pump

Model	Electric Pump x3 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS3-5	0.37	DN65	50
	0.55	DN65	50
	0.75	DN65	50
	1.1	DN65	50
	1.5	DN65	50
	2.2	DN65	50
	3.0	DN65	50
	4.0	DN65	50
	5.5	DN65	50

BS3-20
Rated flow: 20 m³/h per pump

Model	Electric Pump x3 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS3-20	1.1	DN125	100
	2.2	DN125	100
	4.0	DN125	100
	5.5	DN125	100
	7.5	DN125	100
	11	DN125	100
	15	DN125	100
	18.5	DN125	100

BS3-64
Rated flow: 64 m³/h per pump

Model	Electric Pump x3 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS3-64	4	DN200	200
	5.5	DN200	200
	7.5	DN200	200
	11	DN200	200
	15	DN200	200
	18.5	DN200	200
	22	DN200	200
	30	DN200	200
	37	DN200	200
	45	DN200	200

BS3-10
Rated flow: 10 m³/h per pump

Model	Electric Pump x3 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS3-10	0.37	DN80	80
	0.75	DN80	80
	1.1	DN80	80
	1.5	DN80	80
	2.2	DN80	80
	3.0	DN80	80
	4.0	DN80	80
	5.5	DN80	80
	7.5	DN80	80

BS3-32
Rated flow: 32 m³/h per pump

Model	Electric Pump x3 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS3-32	1.5	DN150	100
	2.2	DN150	100
	3.0	DN150	100
	4.0	DN150	100
	5.5	DN150	100
	7.5	DN150	100
	11	DN150	100
	15	DN150	100
	18.5	DN150	100
	22	DN150	100
	30	DN150	100

BS3-90
Rated flow: 90 m³/h per pump

Model	Electric Pump x3 (kW)	Inlet / outlet Diameter	Pressure Tank (Litre)
BS3-90	5.5	DN250	200
	7.5	DN250	200
	11	DN250	200
	15	DN250	200
	18.5	DN250	200
	22	DN250	200
	30	DN250	200
	37	DN250	200
	45	DN250	200

* Pump Operation Mode (BS3): The system alternates between two pumps operating and the other on standby, ensuring balanced performance and a longer system lifespan.

Specification

BS4-2

Rated flow: 2 m³/h per pump

Model	Electric Pump x4 (kW)	Inlet / outlet Diameter	Pressure Tank (Litres)
BS4-2	0.37	DN65	50
	0.55	DN65	50
	0.75	DN65	50
	1.1	DN65	50
	1.5	DN65	50
	2.2	DN65	50
	3.0	DN65	50

BS4-15

Rated flow: 15 m³/h per pump

Model	Electric Pump x4 (kW)	Inlet / outlet Diameter	Pressure Tank (Litres)
BS4-15	1.1	DN125	100
	2.2	DN125	100
	3.0	DN125	100
	4.0	DN125	100
	5.5	DN125	100
	7.5	DN125	100
	11	DN125	100
	15	DN125	100

BS4-45

Rated flow: 45 m³/h per pump

Model	Electric Pump x4 (kW)	Inlet / outlet Diameter	Pressure Tank (Litres)
BS4-45	3.0	DN200	200
	4.0	DN200	200
	5.5	DN200	200
	7.5	DN200	200
	11	DN200	200
	15	DN200	200
	18.5	DN200	200
	22	DN200	200
	30	DN200	200
	37	DN200	200
	45	DN200	200

BS4-5

Rated flow: 5 m³/h per pump

Model	Electric Pump x4 (kW)	Inlet / outlet Diameter	Pressure Tank (Litres)
BS4-5	0.37	DN80	50
	0.55	DN80	50
	0.75	DN80	50
	1.1	DN80	50
	1.5	DN80	50
	2.2	DN80	50
	3.0	DN80	50
	4.0	DN80	50
	5.5	DN80	50

BS4-20

Rated flow: 20 m³/h per pump

Model	Electric Pump x4 (kW)	Inlet / outlet Diameter	Pressure Tank (Litres)
BS4-20	1.1	DN125	100
	2.2	DN125	100
	4.0	DN125	100
	5.5	DN125	100
	7.5	DN125	100
	11	DN125	100
	15	DN125	100
	18.5	DN125	100

BS4-64

Rated flow: 64 m³/h per pump

Model	Electric Pump x4 (kW)	Inlet / outlet Diameter	Pressure Tank (Litres)
BS4-64	4	DN250	200
	5.5	DN250	200
	7.5	DN250	200
	11	DN250	200
	15	DN250	200
	18.5	DN250	200
	22	DN250	200
	30	DN250	200
	37	DN250	200
	45	DN250	200

BS4-10

Rated flow: 10 m³/h per pump

Model	Electric Pump x4 (kW)	Inlet / outlet Diameter	Pressure Tank (Litres)
BS4-10	0.37	DN100	100
	0.75	DN100	100
	1.1	DN100	100
	1.5	DN100	100
	2.2	DN100	100
	3.0	DN100	100
	4.0	DN100	100
	5.5	DN100	100
	7.5	DN100	100

BS4-32

Rated flow: 32 m³/h per pump

Model	Electric Pump x4 (kW)	Inlet / outlet Diameter	Pressure Tank (Litres)
BS4-32	1.5	DN200	150
	2.2	DN200	150
	3.0	DN200	150
	4.0	DN200	150
	5.5	DN200	150
	7.5	DN200	150
	11	DN200	150
	15	DN200	150
	18.5	DN200	150
	22	DN200	150
	30	DN200	150

BS4-90

Rated flow: 90 m³/h per pump

Model	Electric Pump x4 (kW)	Inlet / outlet Diameter	Pressure Tank (Litres)
BS4-90	5.5	DN300	300
	7.5	DN300	300
	11	DN300	300
	15	DN300	300
	18.5	DN300	300
	22	DN300	300
	30	DN300	300
	37	DN300	300
	45	DN300	300

* Pump Operation Mode (BS4): The system alternates between three pumps operating and the other on standby, ensuring balanced performance and a longer system lifespan.



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