

BWD - VSD BOOSTER PUMP



WATER & SOLAR COMPANY
WATER & ENERGY SYSTEMS



PRODUCT CATALOGUE

FEATURES & BENEFITS

Easy to operate

Low noise level

Automatic start/stop function Pre-wired with a 3-point plug

Energy-efficient

Up to 80% more energy savings compared to traditional pump systems

Restart delay

An integral time delay for restart after 3 seconds protects the motor from heat build-up due to continuous on/off switching

Auto-rotation

A built-in timer will automatically start the pump within a pre-selected cycle to rotate the bearings

Constant pressure

A pressure transducer ensures that constant pressure is maintained even when multiple water outlets are used simultaneously

Class leading efficiency

The unit has the following integrated functions for protection from:

Dry run

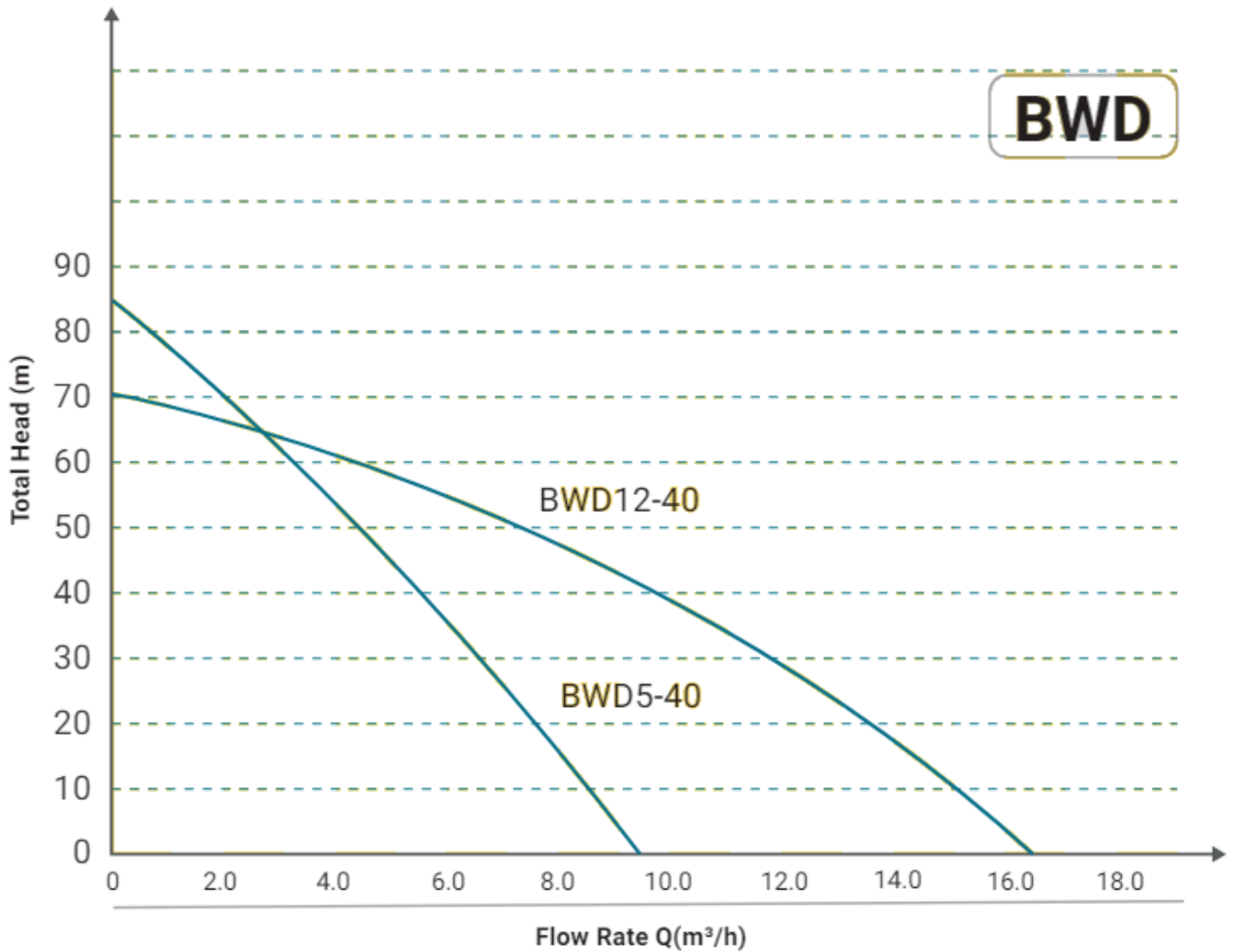
Over-current

Over/under voltage

Overload

Abnormal Pressure

PUMP PERFORMANCE CURVE



PUMP SPECIFICATIONS

Model	Power (Kw)	H.max (m)	H.rated (m)	Q.max (m³ /h)	Q.rated (m³ /h)	Speed. max (rpm)	Voltage (v)	Frequency (Hz)	In/Outlet (Inch)
BWD5-40	1.1	85	45	9.5	5	5000	200 ± 20%	50/60	1.25"×1.25"
BWD12-40	2.2	70	35	17	12	4500	200 ± 20%	50/60	2"×2"

Max. Fluid Temperature 80°C
Max. Ambient Temperature 40°C

Variable Speed Drive (VSD) Explained:

The pump's speed adjusts based on pressure needs to minimize energy consumption.

Unit intended for clean water usage, such as drinking water, or non-potable water piping system, as well as for irrigation purposes.

Unit suitable for use with water temperatures ranging from 2 to 80 degrees celsius.

OPERATING INSTRUCTIONS

Ensure that the power supply cable is connected correctly.

The suction and discharge piping should be of rigid characteristics, be able to withstand pressure of up to 6 bar, be air tight on the suction side and water tight on the discharge side.

Follow the priming instructions as per diagrams.

The booster pump is designed to operate with a 230V single-phase power supply. Voltage variance is maximum 10% up or down. Further variation will damage the electrical motor.

IMPORTANT INFORMATION

The pump must be earthed.

All the maintenance should be carried out with the power supply disconnected.

Do not put any strain on the electrical cable.

The pump is only designed for clean water use.

Do not adjust any settings without having carefully read and understanding the instructions.

Extending the cable may affect your factory warranty. Make use of an approved extending plug adapter.

The pump should be installed in a ventilated, undercover area to protect the unit against direct sunlight, rain and spray from an irrigation system.

Pumping muddy water or water containing suspended solids will severely reduce the life expectancy of the unit. Note that this type of application falls outside of the factory warranty.

The booster pump is equipped with a draining screw at the bottom of the suction/discharge casing. It is advised to drain the unit when temperatures fall below 0°C.



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