



MECHLION[®] PUMPS



SMOOTH START &
SILENT OPERATION



COMPACT AND
STRONG BUILT



ECONOMICAL & HIGH
ENERGY SAVINGS



FULLY PROTECTED
PUMP SYSTEM



HIGH RELIABILITY
& PERFORMANCE



INTELLIGENT
ALL-IN-ONE VFD



EASY INSTALLATION
MAINTENANCE



All-In-One Integrated Variable frequency booster system

TRUBOOST series is a Single/Dual pump with integrated All-in-One next generation Variable frequency drive , Extremely silent, fully protected automatic booster pump for boosting applications.



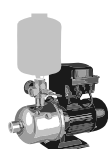
The Most Versatile & Advanced Booster System



The TRUBOOST is a compact, frequency controlled booster pump designed for a variety of domestic and light industrial applications. The TRUBOOST Booster ensures great comfort by providing constant pressure regardless of variations in demand. The system maintains constant pressure whilst controlling the pump operation against changing system demand. TRUBOOST is more efficient, more reliable, smarter and saves 30% to 60 % of energy than traditional way of water boosting.

The entire solution is a combined unit consisting of one Horizontal Multistage pump fitted with a five-way fitting and a diaphragm tank. The five-way fitting encompasses a check valve, a pressure transmitter, a pressure gauge and a diaphragm tank connection. When delivered, the entire package is ready to install, and easy to use.

TRUBOOST provides a completely integrated variable speed pumping solution. The integrated Variable Frequency Drive is equipped with an easy to use LCD display and is completely designed and built for controlling pump systems from the ground up. In addition, the TRUBOOST booster makes it possible to personalise the water pressure. By the touch of a button the pressure level is increased or decreased as desired.



System Features



SMOOTH START & SILENT IN OPERATION

The TRUBOOST Booster operates quietly, at around 55 decibels, significantly quieter pump currently available in the market.



ECONOMICAL & HIGH ENERGY SAVINGS

The frequency controller of the TRUBOOST matches the power consumption with the required water output, helping to conserve energy.



EASY INSTALLATION & MAINTENANCE

The TRUBOOST is very easy to install. Once the booster has been connected to the pipework, it is simply a matter of putting the plug into a socket, and the system is operational.



COMPACT & STRONG BUILT

Booster set is built solidly with Robust construction. Pumps complete wetted parts are made from high quality stainless steel AISI304 or AISI316 to ensure the longest life possible.



FULLY PROTECTED PUMP SYSTEM

The TRUBOOST Booster features dry run protection and is also protected against Over current, under voltage, Inverter overload, Motor overload, Overheating, Output/input phase loss.



HIGH SAFETY & RELIABILITY

IP 65 rated VFD is for all weather, thereby increasing its life with added safety and ease of field repair. Each component of the system is specifically designed to work together as one harmonious unit.



Pump Features

The Mechlion range of MLH, MLHI pumps are non-self-priming, horizontal, multistage, centrifugal pumps. Pump and motor are integrated in a compact and user-friendly design making the pumps suitable for installation in compact systems. The pump is fitted with a maintenance-free, mechanical shaft seal and through-going pump-motor shaft.



MHM: Suction / Discharge chamber : Cast Iron with CED
Complete wet hydraulics Chambers : SS 304

MHMI: Suction / Discharge chamber : SS 304
Complete wet hydraulics Chambers : SS 304



Connections	MHM(I)4	MHM(I)8	MHM(I)12
Suction port	Rp 1 1/4	Rp 1 1/2	Rp 1 1/2
Discharge port	Rp 1	Rp 1 1/4	Rp 1 1/2



Operating conditions

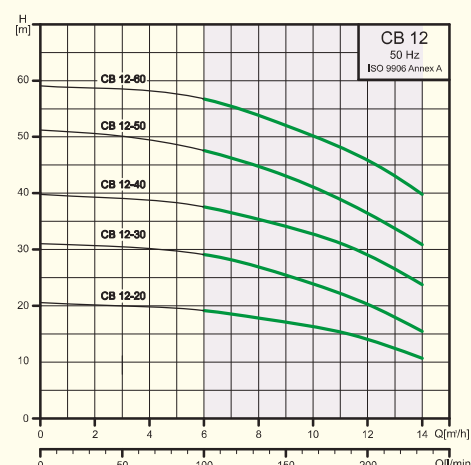
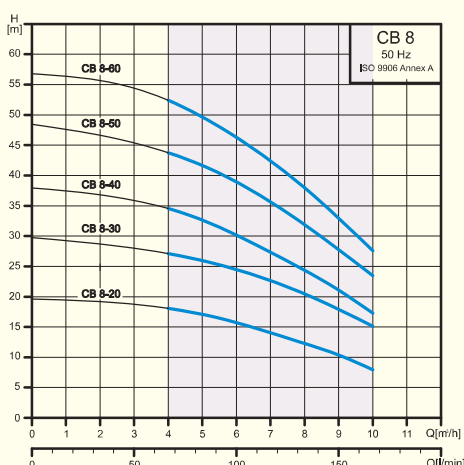
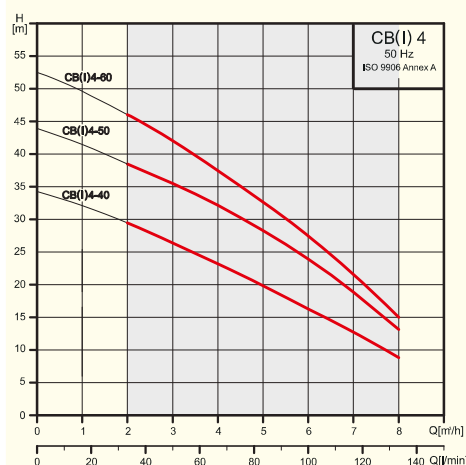
Flow range : 1 – 14 m³/hr
Head Range : 5 - 55 m
Liquid temperature: 0 °C to +60 °C
System pressure: Max. 10 bar
Liquid temperature: 0 °C to +60 °C
Ambient temperature: Max. +50 °C
Medium: clean , clear liquid without solid & fibre

Technical data

Mains voltage: 1 x 240 V, 50 Hz
Enclosure class: IP55
Insulation class: F
Sound pressure level: < 55 dBA
Motor duty: Continuous
Motor type: 3 Phase, TEFC
Output Power range (P₂): 0.37 KW – 2.2 KW

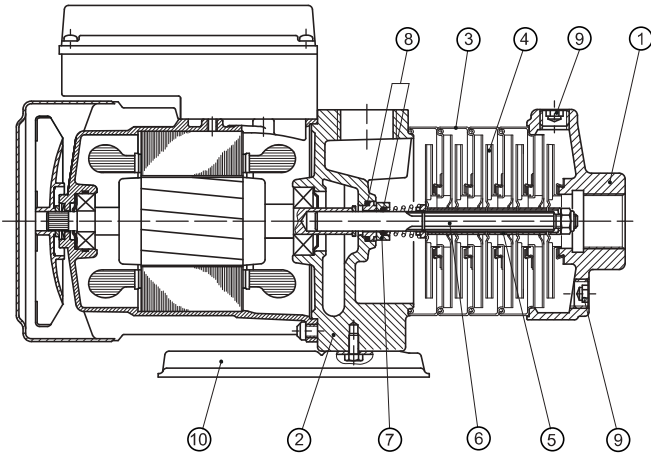


Performance curves

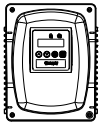




Material construction



Parts	MHM - Series	MHMI - Series
① Suction Chamber	Cast Iron	SS 304
② Pump Head	Cast Iron	SS 304
③ Intermediate chamber	SS 304	SS 304
④ Impeller	SS 304	SS 304
⑤ Spacing Pipe	SS 304	SS 304
⑥ Shaft	SS 431	SS 431
⑦ Mechanical Seal	Silicon carbide / Carbon	Silicon carbide / Carbon
⑧ O-Ring	EPDM	EPDM
⑨ Drain and priming plug	Steel	Steel
⑩ Base plate	Steel	Steel



VFD Features

The TRUBOOST comprises of next generation all-in-one pump drive, suitable for small single pump constant pressure water supply equipment.

Small size

Great performance



IP65
Dust Liquid



INTELLIGENT ALL-IN-ONE VFD

- ▶ Installed directly to motor, no need of control cabinet
- ▶ Pressure boost & stabilization, restarting at power on, water shortage protection, self-recovery
- ▶ One-key pressure setting, rapid parameter view
- ▶ Single phase 220VAC input, easy application
- ▶ IP 65 protection - Dust and water proof

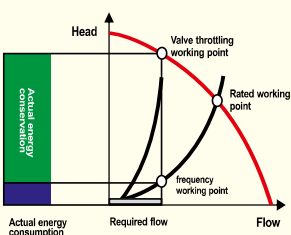


FULL- PROTECTION

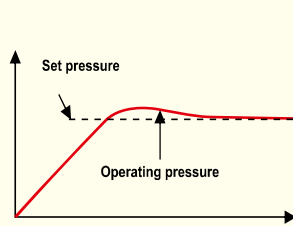
- ▶ Over current
- ▶ Over voltage
- ▶ Inverter overload protection
- ▶ Motor overload protection
- ▶ Overheating protection
- ▶ Dry run protection
- ▶ Over water pressure protection
- ▶ Output/input phase loss protection



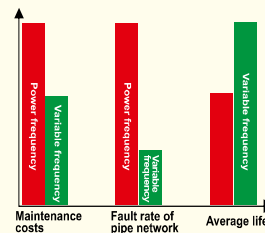
Preferred variable frequency drive



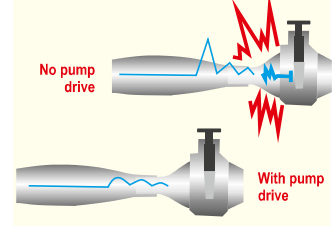
Constant pressure, smart control



Long life, low costs

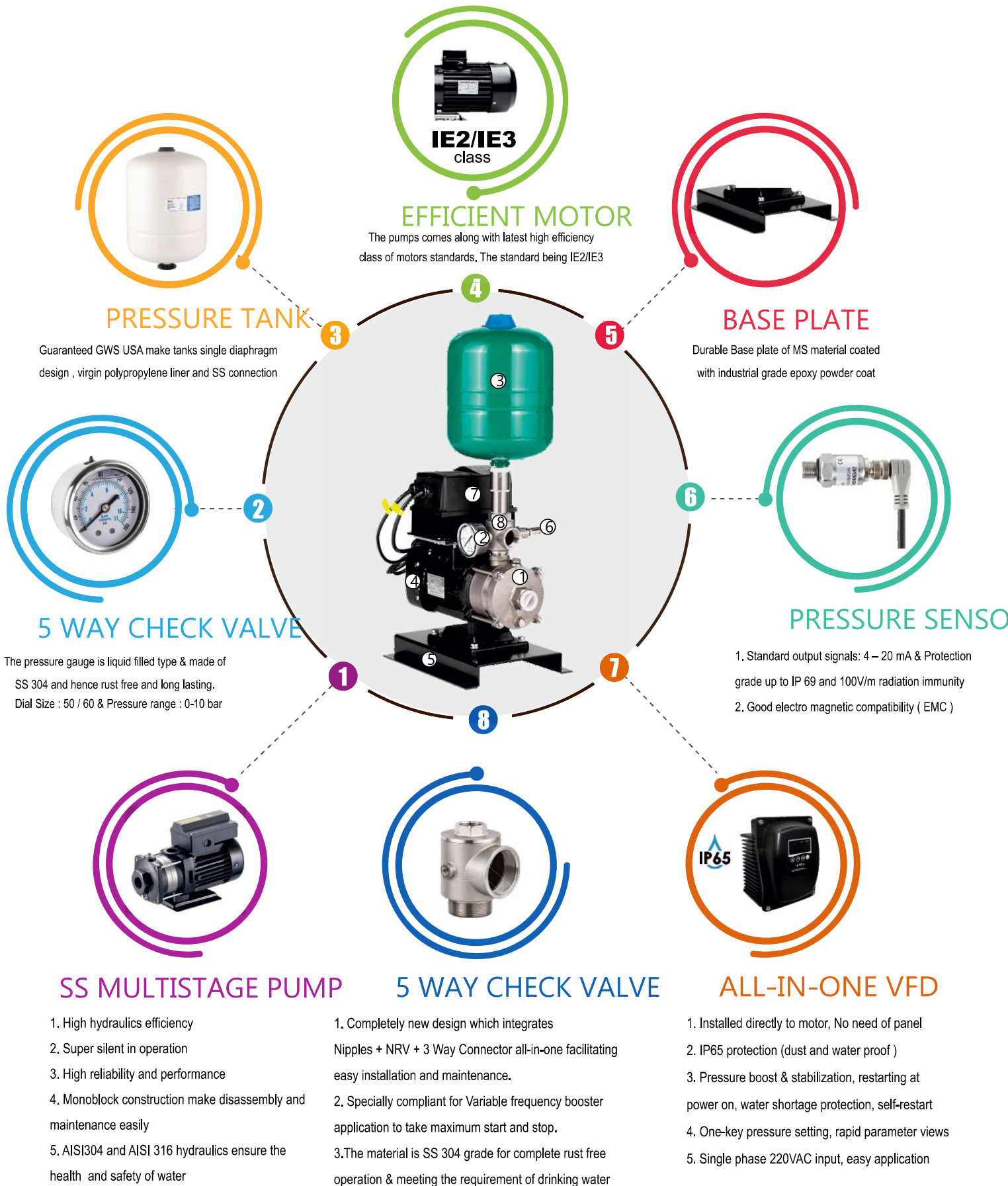


Soft start/stop to relieve water hammer



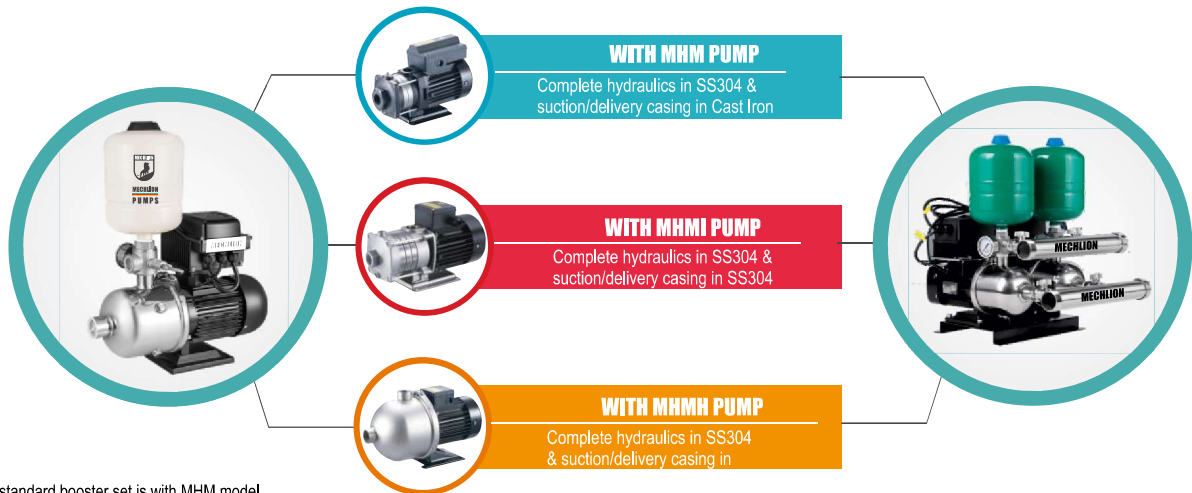


System Components details



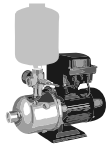


System Variants



The standard booster set is with MHM model

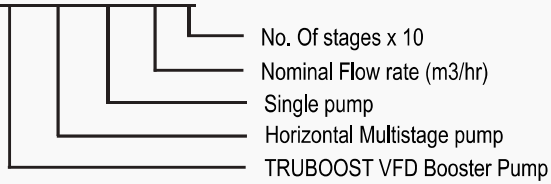
Detail about booster with MHMI and MHMH models are available on request



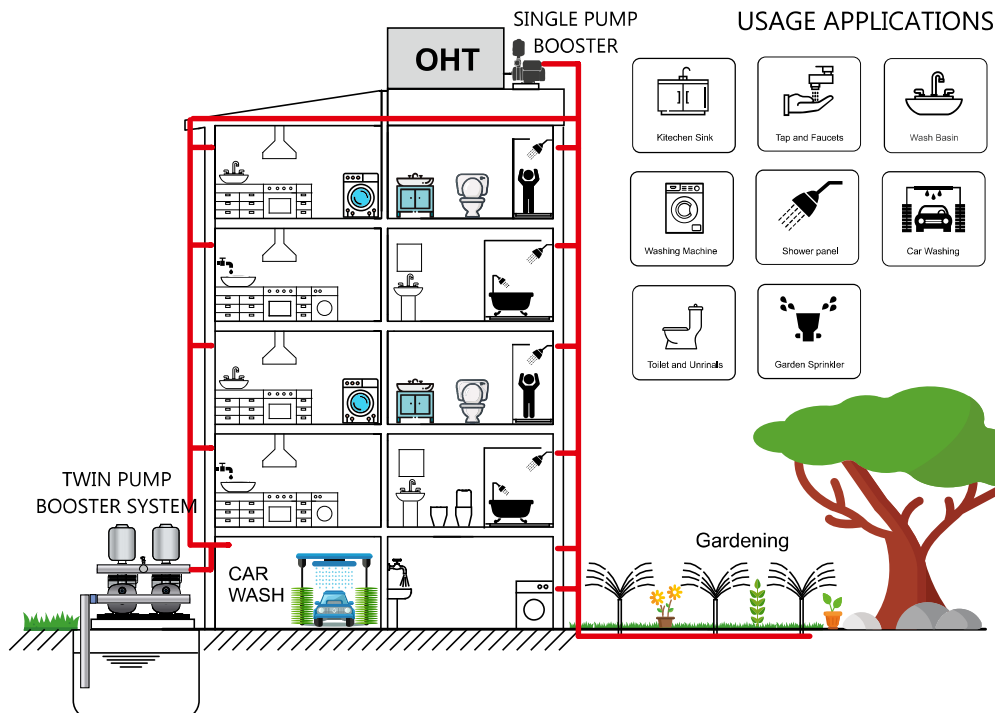
Nomenclature

TRUBOOST

TB H M 4 50



Application & Usage







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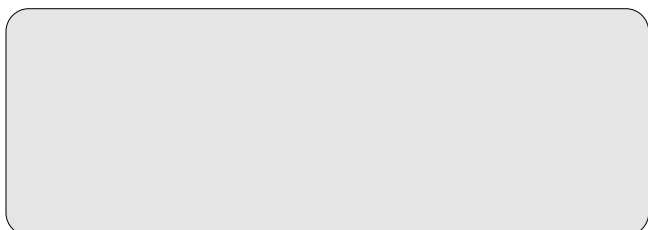


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