



MECHLION[®]
PUMPS

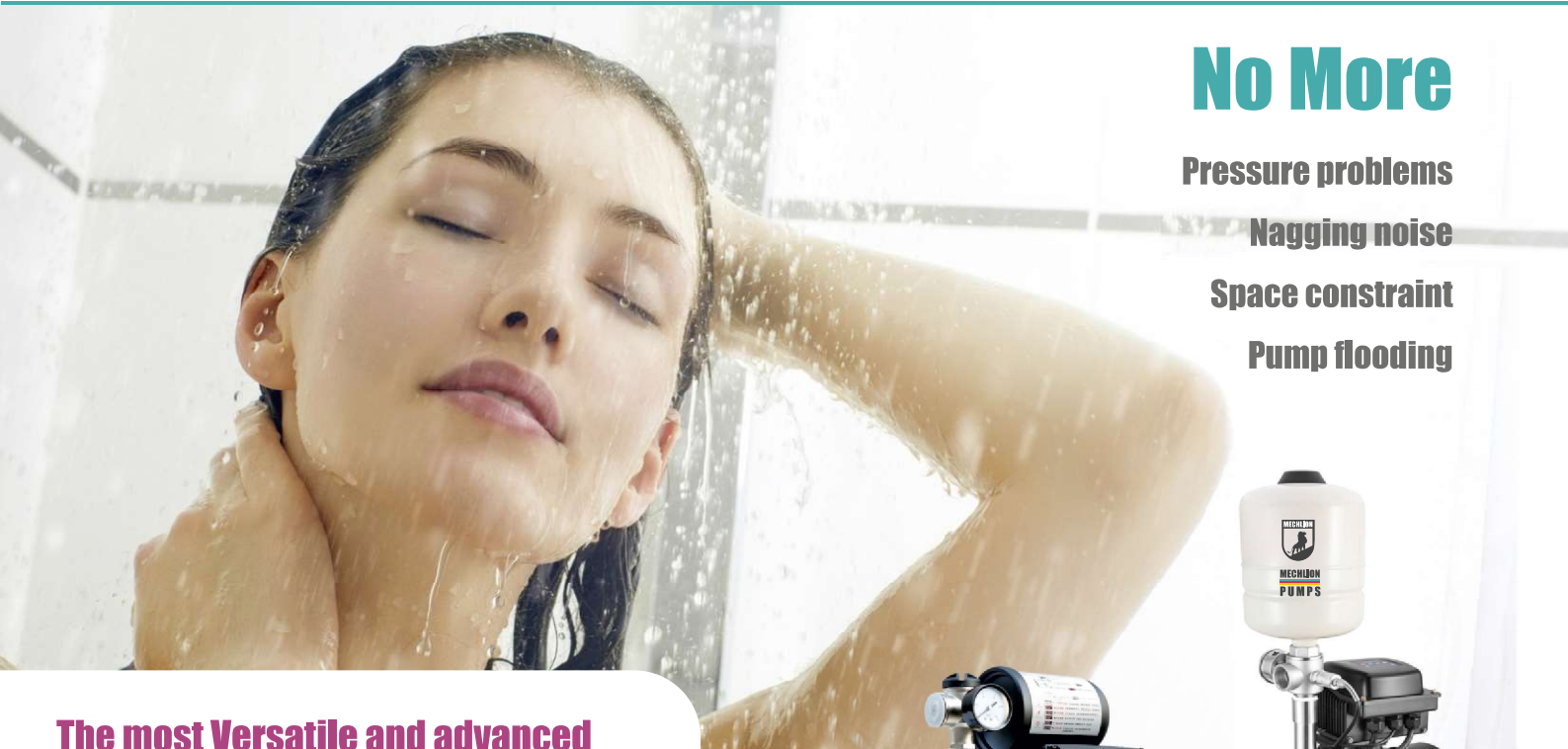


TRUBOOST

feel the real pressure

**All-In-One Integrated
Variable frequency
Single Pump Booster**





No More

Pressure problems

Nagging noise

Space constraint

Pump flooding

**The most Versatile and advanced
Booster system for your homes**

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 All-in-One Variable Frequency drive , 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, & easy to use.

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.



SMOOTH START & SILENT IN OPERATION

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



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.



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.



ECONOMICAL & HIGH ENERGY SAVINGS

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



COMPACT & STRONG BUILT

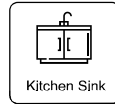
Booster set is built solidly with Robust construction. Pumps complete wetted parts are made from high quality stainless steel AISI304 or AISI316 to ensure the longest life possible.



All-In-One Integrated Variable frequency Single Pump Booster



Washing M/C



Kitchen Sink



Tap and Faucets



Wash Basin



Car Washing



Shower panel



Garden Sprinkler



MHM



MHM(S)



MHMI

VFD Features

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

INTELLIGENT ALL-IN-ONE VFD

Small size **Great performance**

- ▶ The Drive is 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
Dust Liquid



Pump Features

The Mechlion range of MHM, MHMI 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	MHM	MHMI
Suction / Discharge chamber :	Cast Iron with CED	SS 304	SS 304
Complete wet hydraulics Chambers :	SS 304	SS 304	SS 304

Technical Superiority

The TRUBOOST booster system has two stage important functioning

Stage 1 : Complete protections against incoming voltage source and then give a protected supply to the Drives making it a safe and reliable operation

Stage 2 : Dedicated smart all-in-one water boosting VFD, which is the heart of the system and works seamlessly, intelligently in maintaining the constant pressure as required by the user.

Automatic power switcher/voltage protector is a device preventing damage to system from power fluctuation at source.

- ▣ Wide regulated voltage range 140-280V
- ▣ Microprocessor controlled PCB board
- ▣ Adjustable parameters settings
- ▣ High speed response time <200ms
- ▣ Auto recovery without user intervention

Stage 1



Stage 2



The drive system is very easy to operate and cost effective with high reliability and low noise. It has built-in complete protections ensuring a trouble free & long lasting reliable system.

Primary Protection

- LOW VOLTAGE PROTECTION
- HIGH VOLTAGE PROTECTION
- OVER LOAD PROTECTION
- SHORT CIRCUIT PROTECTION
- SURGE/ SPIKE PROTECTION
- DELAY OUTPUT PROTECTION

Secondary Protection

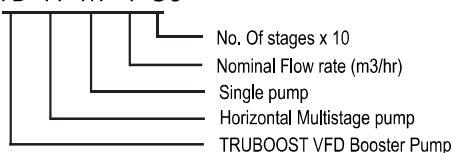
- LOW VOLTAGE PROTECTION
- HIGH VOLTAGE PROTECTION
- DRY RUN PROTECTION
- SHORT CIRCUIT PROTECTION
- SURGE/ SPIKE PROTECTION
- OVER TEMP. PROTECTION
- OPEN CIRCUIT PROTECTION
- OVER LOAD PROTECTION

System Components details

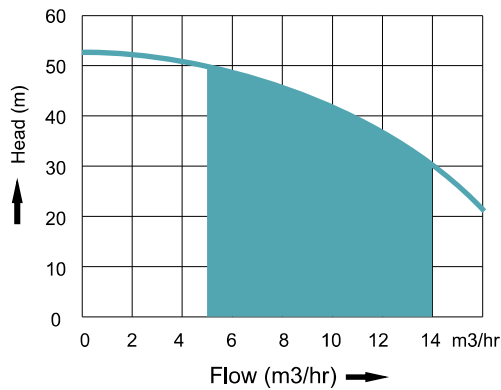
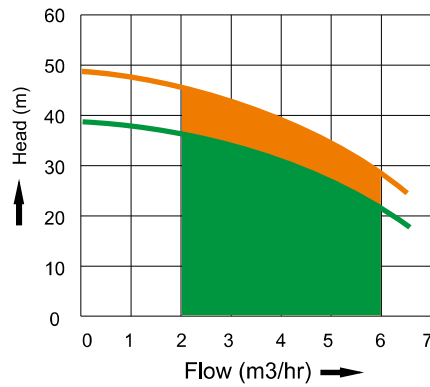
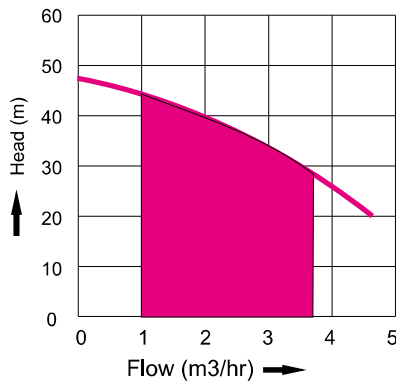


Nomenclature

TB H M 4 50



Performance curves



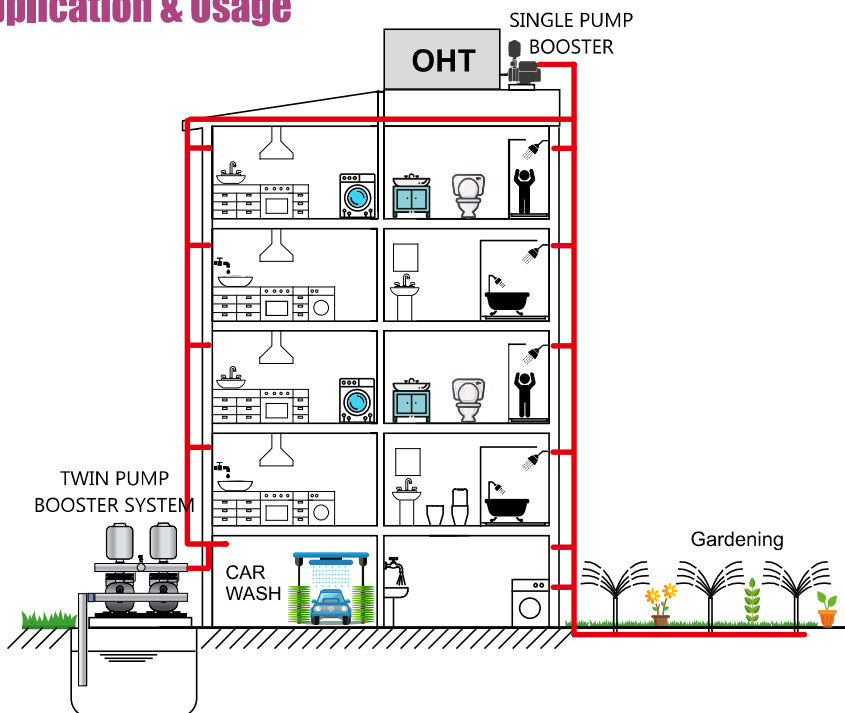
Operating conditions

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: S1 Continuous
 Motor type: 3 Phase, TEFC
 Output Power range (P2): 0.37 KW – 2.2 KW

Application & Usage



Applications

High Pressure Shower



Car Washing



Garden Sprinklers



Dish Washing



Body / Shower jets





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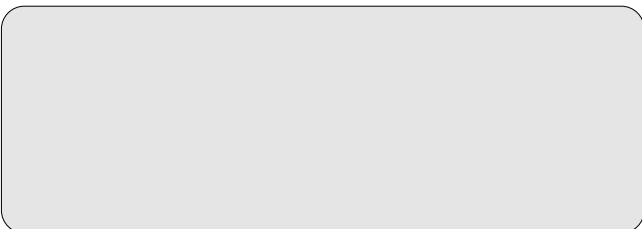


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