

## STANDARDISED PRODUCTS

# WATER BOOSTER SYSTEMS

Hitachi Aqua-Tech Water Booster systems is developed with focus on user comfort and easy operation. It is suitable for any clean-water (hot & cold) pressure booster application.

### FEATURES AND BENEFITS

- Constant water pressure regardless of flow fluctuation
- 2-4 pumps configuration (with option for 5 or 6 pumps)
- Built-in controller for highest performance and energy efficiency
- Stainless steel to ensure hygiene and protection against corrosion
- Pre-programmed for simple installation & start-up
- Easy operation with user friendly interface
- IP20/21 (NEMA1) or IP55 (NEMA12) enclose



## HITACHI AUTOMATIC WATER PUMPS

Hitachi Automatic Water Pumps are high quality and professional-grade booster pumps, which are reliable and easy to use and install.

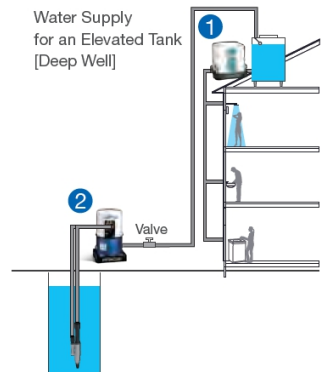
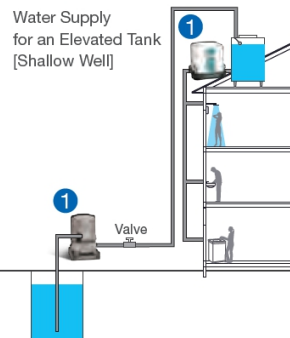
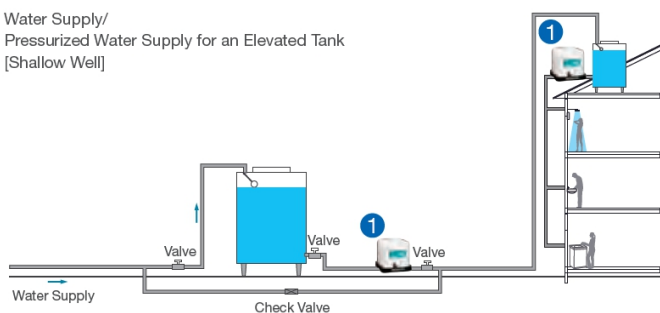
### FEATURES AND BENEFITS

- Durable and high powered motors for long service life
- Japanese standard quality ensures high performance and reliability
- Stable water pressure with pressure tank
- Reliable safety with water temp relay
- Environment-friendly design
- Quiet, non-disturbing operation



## INSTALLATION CAUTIONS

Water Supply/  
Pressurized Water Supply for an Elevated Tank  
[Shallow Well]



\*Water source for the pump is a receiving tank (tap water), ground water, etc.

## WATER BOOSTER SYSTEM EXPLODED VIEW

### Motors

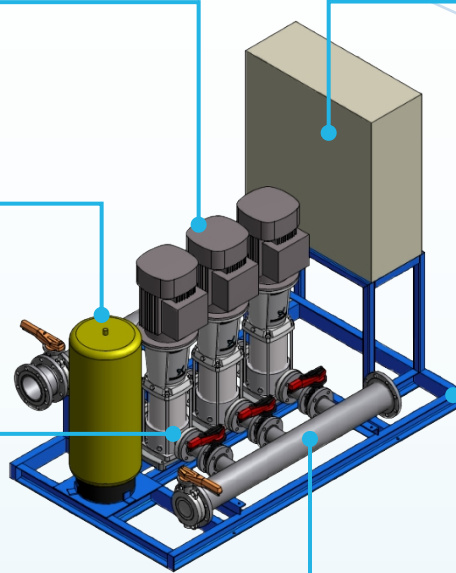
Premium efficiency IE3 motors are remarkably silent and highly efficient. Construction material from AISI304/cast iron to Titanium.

### Pressure Tank

A diaphragm and bladder pressure tank ensures stable water pressure and convenience since there's no need to refill the gas or worry about rust.

### Pumps

2-4 numbers of end-suction or multi-stage centrifugal pumps with stainless steel construction are highly reliable and efficient.



### Control Panel

#### System Controller

The controller controls up to six pumps and features both digital and analogue outputs.

#### Individual VFD

Technologic (Danfoss) NEMA 1 or 12 VFD's with individual fused disconnect permits continued operation and serviceability with maintaining partial or full flow.

### Base Frame

The base frame is made of mild steel material. It is sand blasted and coated with 3 layers of coating. Stainless steel skid is available as option.

### Manifold

The stainless steel manifold efficiently reduces noise, friction, rust and bacteria growth in the pipes. High-quality welding and finish ensure that all hygienic standards are met.

## THE SYSTEM CONTROLLER - CU352 (GRUNDFOS)







### FEATURES AND BENEFITS

- Compensation for start-up time
- Forced pump changeover
- Dry run protection
- Clock program
- Soft pressure build-up to reduce water hammer
- Fault and alarm clearly displayed
- Two levels of password protection
- User-friendly colour display
- Back-up battery (optional battery required)
- BUS communication (optional CIM card required)
- Log function to trend/monitor system data (power consumption and system pressure) and early warning for system fault



## HITACHI AUTOMATIC WATER PUMPS

Automatic Water Pump has six designs to choose from.

	Type	Model	Capacity (L/min)	Head (m)	Benefits
Shallow Wells	<b>Inverter Type</b>				Providing a constant flow of water, these pumps are powerful, quiet and energy-efficient.
		WM-P750XV	71 (max. 78)	21	
		WM-P400XV	59 (max. 62)	21	
		WM-P250XV	48 (max. 59)	18	
	<b>Compact Type</b>				Providing constant water pressure.
		WM-P350XS	53 (max. 65)	18	
		WM-P300XS	51 (max. 61)	18	
		WM-P250XS	47 (max. 59)	18	
		WM-P200XS	43 (max. 55)	14	
		WM-P150XS	37 (max. 50)	13	
<b>Turbine Type</b>				Big capacity, quiet automatic turbine pump for more comfortable life in urban areas.	
	TM-60L	60 (max. 75)	12		
<b>Stainless Steel</b>				Durable, safe and rust-resistant stainless steel tank, which is made in Japan.	
	WT-PS300XS	49 (max. 59)	20		
	WT-PS250XS	45 (max. 51)	20		
<b>Tank Type</b>				Automatic operation for great convenience.	
	WT-P400XS	58 (max. 68)	20		
	WT-P350XS	55 (max. 63)	20		
	WT-P300XS	50 (max. 60)	20		
	WT-P250XS	46 (max. 52)	20		
	WT-P200XS	42 (max. 50)	20		
	WT-P150XS	34 (max. 46)	14		
	WT-P100XS	30 (max. 40)	14		
Deep Wells	<b>Tank Type</b>				Ideal for deep well suction.
		DT-P300XS (PJ)	16	12	
DT-P300XS (SJ)		20.5	11	12	



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