

Pumping Perfection
and more....

WILO

HYDRO PNEUMATIC BOOSTER SYSTEM

**One-stop solution to
all pressure boosting systems**



HYDRO PNEUMATIC BOOSTER SYSTEM

One-stop Solution To All Pressure

Boosting Systems

Quality parts to deliver remarkable performance

WILO packaged Hydro Pneumatic Booster Sets has two or more centrifugal pumps and a pressure tank combined with manifolds and valves. Each of these pumps is built with a discharge non-return valve end suction and discharge isolating valves. We have built a control panel to the base plate of the tanks and pumps. Each pump has a built-in pressure switch. This system is easy to install where one needs to mount it on a common frame with all accessories and piping.



Accessories

All systems in this set are designed as Compact units on a common base. The pumps are fixed with galvanized iron suction and discharge manifolds, which includes all isolating valves and check valves.

Pre-pressured Tanks

This JKKP approved top quality pneumatic vessels can provide up to 200 psig working pressure. Inspected to comply within the requirements of the local Machinery Department, this pre-

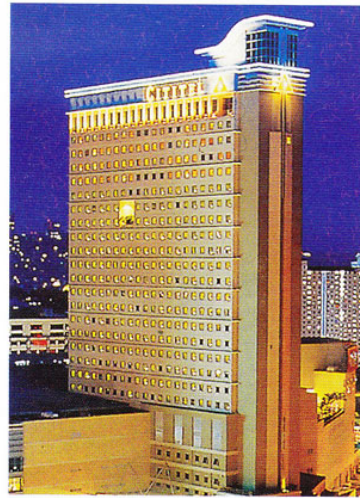
pressured bladder tank offers plenty of flex-power for best performance.

Pumps Design

Multistage not self-priming vertical high pressure centrifugal pump of Inline design, PN 16/25 or with victaulic coupling with equally sized suction and discharge ports. Stage construction with stainless steel impellers, diffusers and pressure casing. Pump stub shaft and motor spindle of the IEC - standards motor are directly close coupled. A separate stool mounted roller bearing serves to balance the axial forces so that any make of IEC-standard motor are directly close coupled. A separate stool mounted roller bearing serves to balance the axial forces so that any make of IEC-standard motor (mounting frames V1 or V18) can be used. Maintenance-free, bi-directional mechanical seal. All relevant parts suitable to handle food-compatible fluids.

Electric Motor

Electric Motor IEC - standards threephase motor, V18 frame up to size 5.5kW , V1 frame for 7.5kW and larger .



Citelitel Hotel - Hydro Pneumatic Booster System

Automatic Control Panel

The epoxy coated mild steel panel offers lasting and trouble-free functionality. We also provide efficient follow-up customer service to ensure a smooth running operation.

Hydro Pneumatic Booster System

Offering customers with a complete range of pressure boosting pumps, **WILO** is undoubtedly the leading supplier of turnkey systems to date. Our vast experience and reliable service combined with progressive product research and development have ensured our customers of quality products that boast of the highest performance.

WILO packaged Hydro Pneumatic Booster System is applicable for enhancing water supply to domestic, industrial, municipal, commercial and various sectors.



APPLICATIONS

Domestic : High-rise buildings, condominiums, etc.
Social Service : Health clinics, hospitals, schools and other institutions.
Commercial : Hotels, restaurants, office-blocks and departmental stores.
Industrial : Processing and manufacturing industries and cleaning applications.

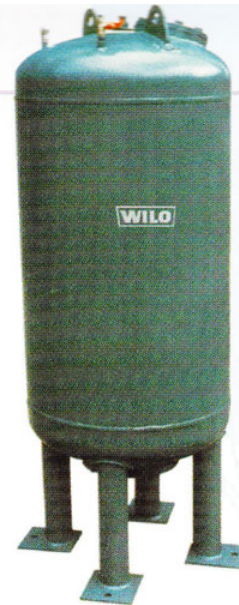
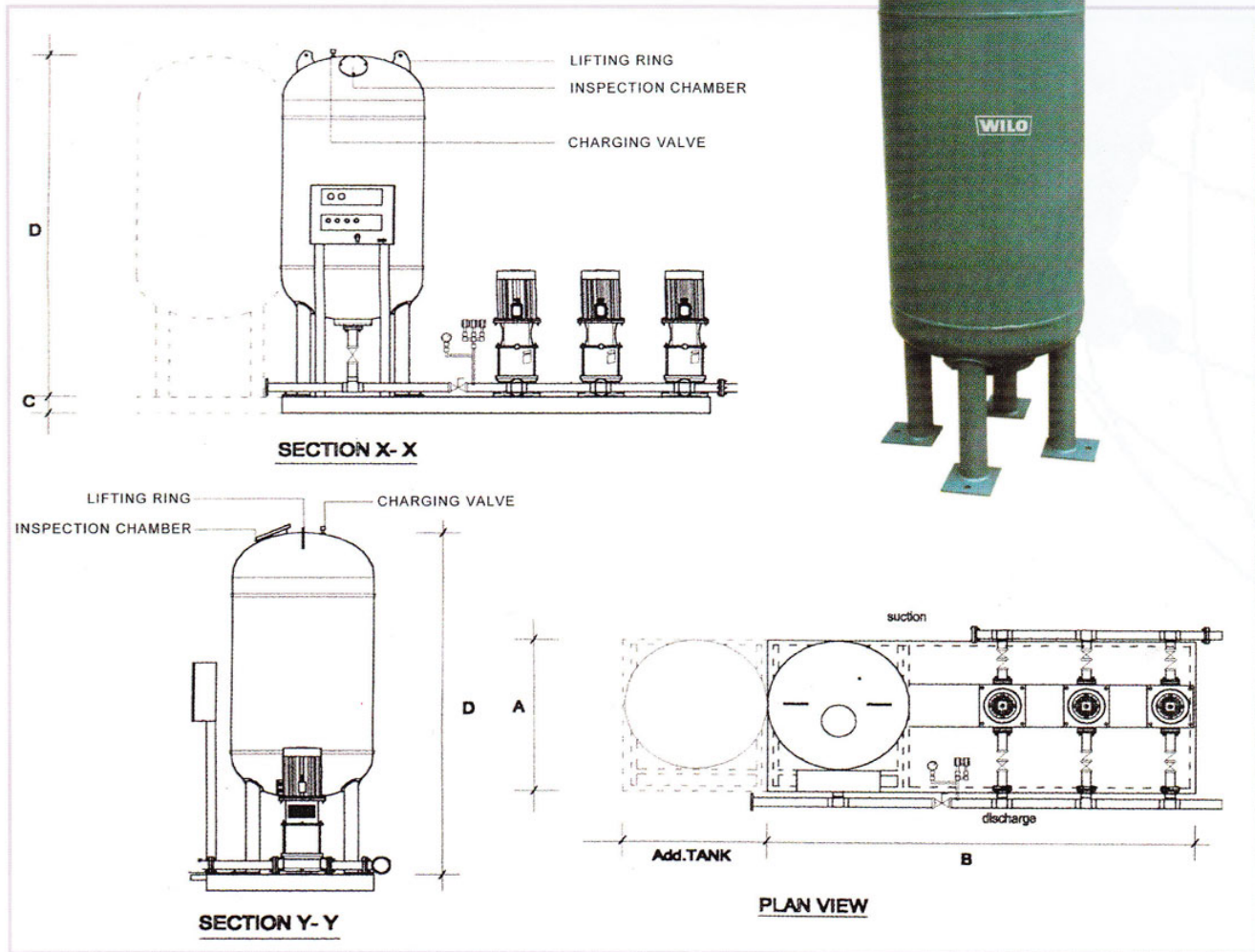
- Agriculture & Irrigation.
- Fire Fighting.
- Swimming Pools, Water Park, etc.

Construction Materials

Impellers	Grade 304/316L Stainl.steel
Diffusers	Grade 304/316L Stainl.steel
Pump Casing	Grade 304/316L Stainl.steel
Shaft	Grade 304/316L Stainl.steel
Seal	EP851/Viton
Casing Cove	Grade 304/316L Stainl.steel
Mech.seal	PN 16Tungsten carbide/ carbon PN 25Tungsten carbide/ carbon

Code:

- 1) Up to 40% glycol content, 10% and above require hydraulic data corrections.
- 2) Without abrasive or fibrous matter so long as they are non-aggressive to the given pump materials.
- 3) Max. inlet pressure: Max. system pressure less shut-off head.
- 4) Explosion protection on request. AISI 304=German 1.4301 AISI 316L= German 1.4404



Technical Details:

MODEL	TANK CAPACITY (Liter)	SYSTEM CONNECTION (mm)	WORKING PRESSURE (PSI)	DIMENSION			EMPTY WEIGHT (Kg)
				a: Overall Width (mm)	b: Diameter (mm)	c: Height (mm)	
MT 300	300	38.5	100	740	610	1590	270
MT 500	500	38.5	100	890	760	1715	300
MT 750	750	38.1	100	830	700	2015	410
MT 1000	1000	63.5	100	890	760	2110	440
MT 1500	1500	63.5	100	1030	900	2300	540
MT 2000	2000	63.5	100	1400	1100	2331	780

All data listed herein are subject to changes without notice.

TECHNICAL FEATURES:

- Working Pressure : 100 psi
- Hydraulic Test Pressure : 150 psi
- Pre-charges Pressure : 30 psi (2 Bar)
- Max. Water Temperature : 100 degree C
- Construction Material : Pressure Vessel - Steel (JIS G3101 SS400)
- : Diaphragm - Linatex
- Design Standard : ASME Boiler and Pressure Vessel Code, Sect. VIII, Division I, 1998
- Design Approved By : Jabatan Keselamatan Dan Kesihatan Pekerjaan. (J.K.K.P)

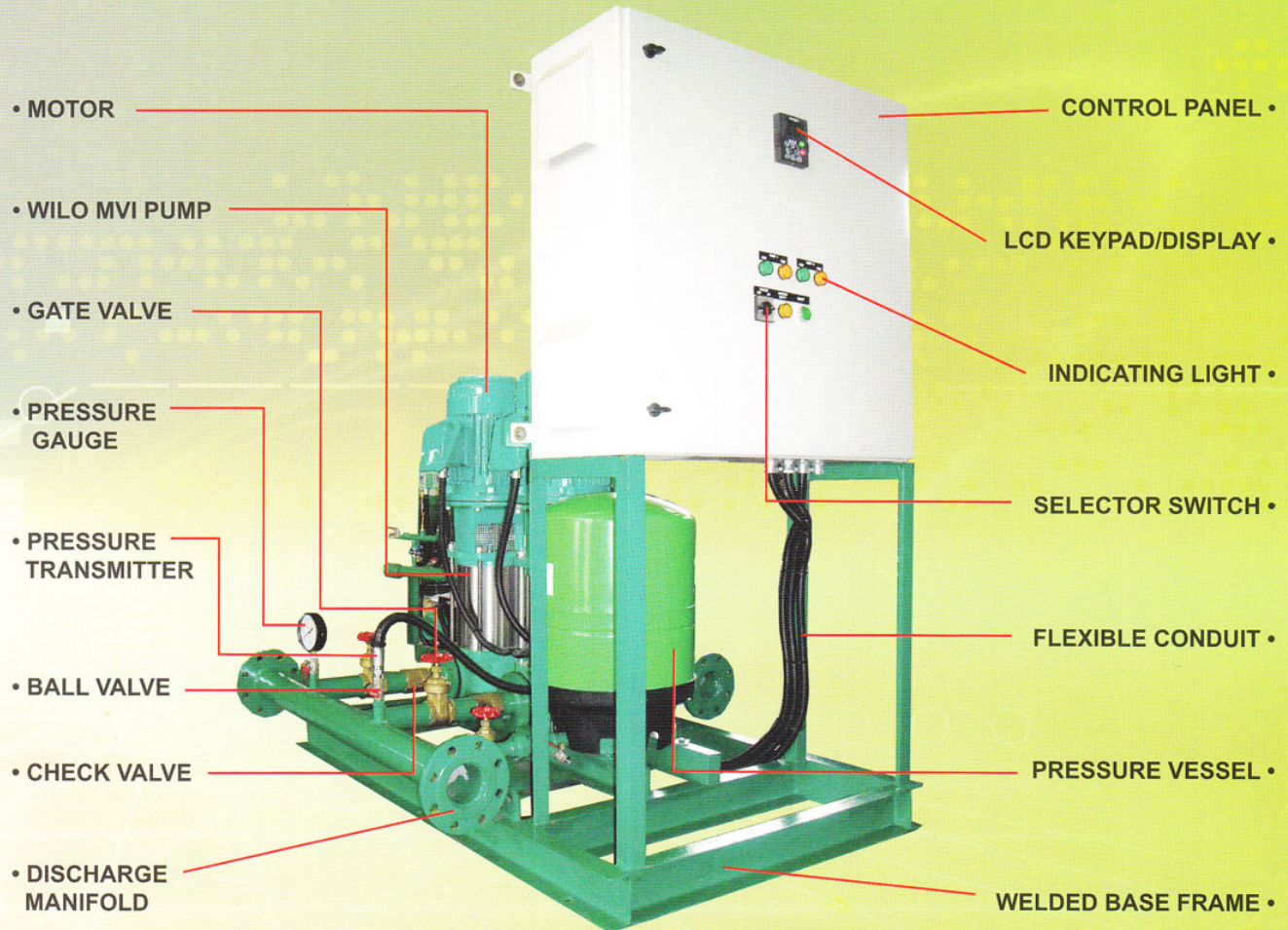
APPLICATION FOR:

- Pressurization of water systems
- Anti Water Hammer Devices
- Expansion Vessel For Heating Application and System
- Fire-Fighting System
- Air-Conditioning Make-up System

PRESSURE BOOSTING SYSTEM - MULTIPLE PUMP UNIT

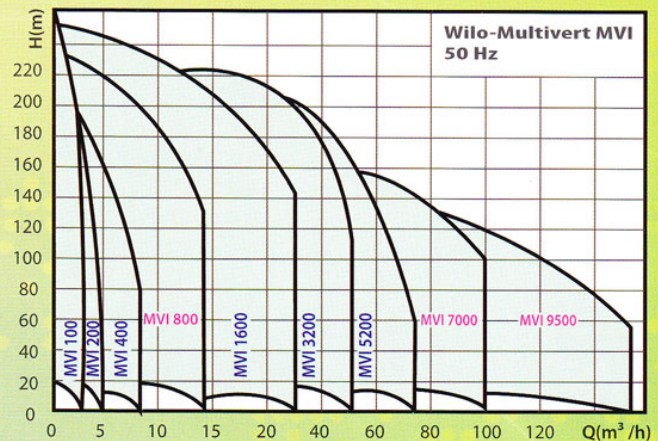
Pumpen Intelligenz.

- WILO VARIABLE SPEED PUMPSET SYSTEM
- WILO COMFORT COR/S



◀ WILO COMFORT COR/S MVI ▶

- Sets available with 2 to 6 pumps
- Timed changeover (optional)
- IP 54 Protections
- Quick & easy installation
- Alternating Start
- Industry leading pumps and inverters fitted



PUMPSET SYSTEM



◀ PRESSURE TRANSMITTER



FREQUENCY CONVERTER ▶

• APPLICATION

For completely automatic water supply and pressure boosting in residential and office buildings, hotels, hospitals, department stores and for industrial systems.

- Pumping of potable water, process water, cooling water, water for fire fighting or other water mixtures.

• DESIGN

Pressure boosting system with speed control and 2 to 6 non-self priming stainless steel high pressure centrifugal pumps switched in parallel.

FLOW VALUM, Q MAXIMUM @ 840m³/hr @ 200m DELIVERY HEAD, H MAXIMUM.

• TECHNICAL DATA

- Mains connection 3~230V /400V / 50Hz.
- Fluid temperature maximum 50°C.
- Max Working pressure 16 bar / 25 bar.
- Protection class IP 54.

• EQUIPMENT / FUNCTION

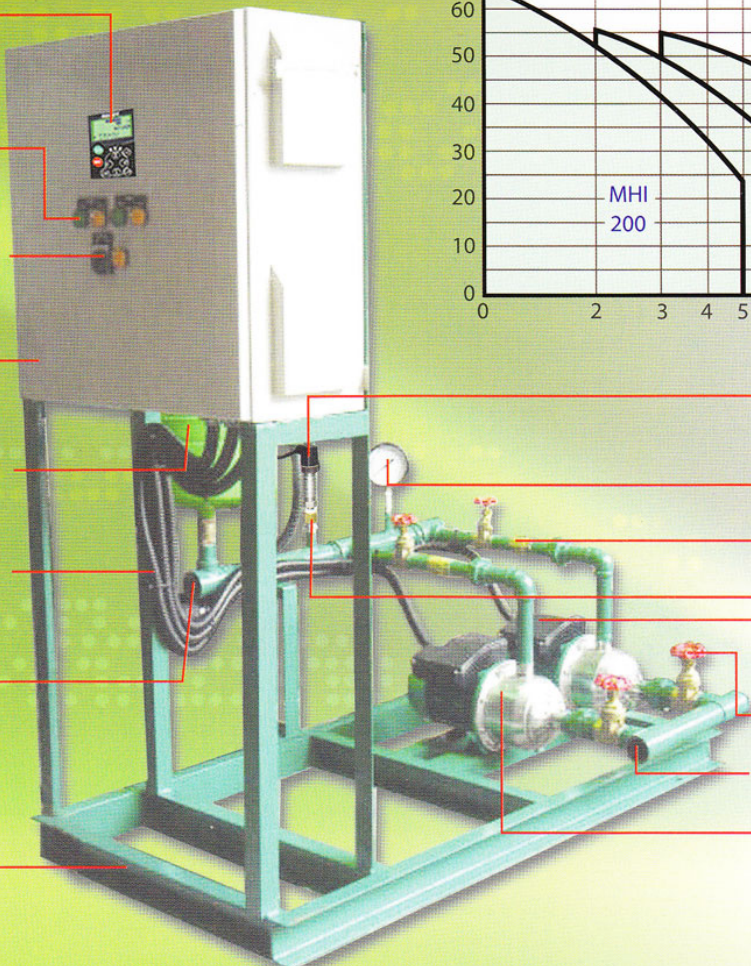
- 2 to 6 pumps per system.
- Stepless base-load pump control operation via frequency converter integrated in controller.
- Components that come into contact with fluids corrosion-resistant.
- Box section welded baseframe.
- 1.4571 stainless steel pipe work (optional)
- Gear-operation shut off ball cock / annular shut off valve on every pump, on suction and pressure side (optional).
- Non return valve, on the pressure side
- Diaphragm pressure vessel on discharge side.
- Pressure sensor, discharge side.

• SPECIAL FEATURES

- Easy to use system conforming to all the requirements of plumbing system.
- 2 to 6 vertical high pressure centrifugal pumps switched in parallel.
- Speed controlled base load pump.

WILO COMFORT COR/S MHI ▶▶

- LCD KEYPAD /DISPLAY
- INDICATING LIGHT
- SELECTOR SWITCH
- CONTROL PANEL
- PRESSURE VESSEL
- FLEXIBLE CONDUIT
- DISCHARGE MANIFOLD
- WELDED BASE FRAME



- PRESSURE TRANSMITTER
- PRESSURE GAUGE
- CHECK VALVE
- BALL VALVE
- MOTOR
- GATE VALVE
- SUCTION MANIFOLD
- WILO MHI PUMP

