



AQUATEX Hydro pneumatic systems are reliable, efficient, booster systems that deliver water at constant pressure to all outlets in high rise buildings.

APPLICATIONS

- Pressurized water supply to multi-storeyed apartments, commercial buildings, hotels, and industries.

FEATURES

- Protection from electrical disturbances like low / high voltage, phase reversal, missing phases, unbalance voltage etc.
- Dry run and overload protection.

Hydropneumatic system with constant speed control panel

- MCB provides protection from short circuits. Activates alternate motor if one motor has a fault.
- Automatic and manual control with standby pump selection.
- LED indication for all functions and faults.

Hydro pneumatic system with variable speed control panel

- Protection from electrical disturbances like low / high voltage, phase reversal, missing phases, unbalanced voltage etc.
- Protection from water hammering, pressure surges, and excessive mechanical shock.
- Automatic energy optimizer keeps the system running at optimal efficiency.
- Automatic motor alteration enhances motor performance and maintains equal operating time of all motors.
- End of curve monitoring and broken pipe detection prevent impeller and mechanical seal damage and enhance pump life.
- Two line LCD display (four line LCD display optional). Building Management System compatible.

OPERATING DATA

Power range	: Single phase: 0.37 kW to 1.5 kW, 220 V to 230 V, 50 Hz AC supply
	: Three phase: 0.37 kW to 75 kW, 380 to 415 V, 50 Hz AC supply
Speed	: 2900 rpm
Degree of protection	: IP 55
Insulation class	: Class 'F'

Pump Data:

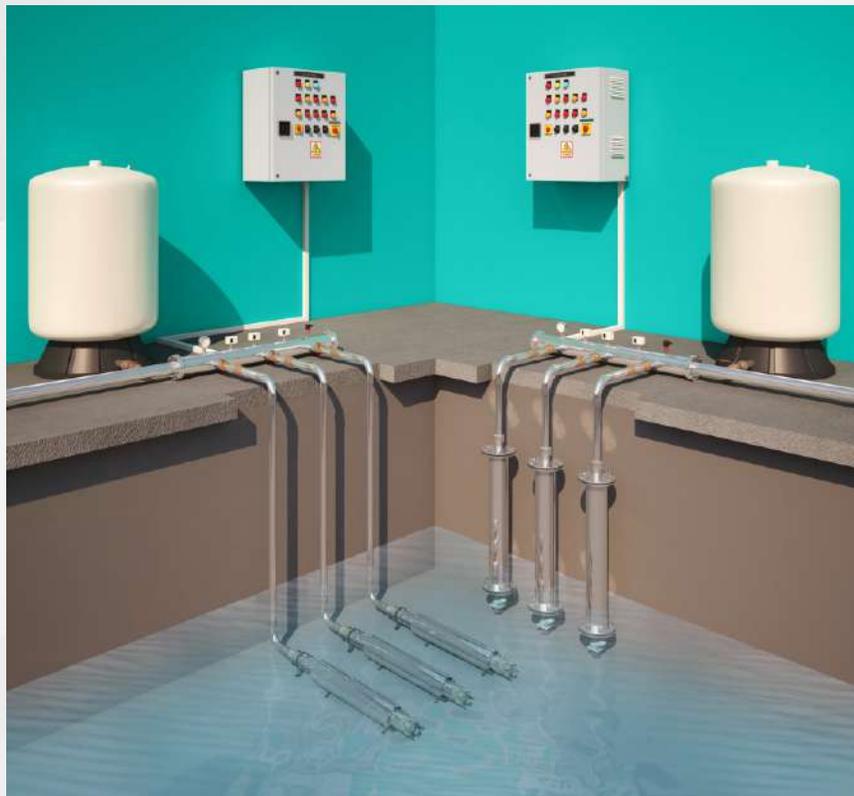
Flow rate	: Up to 150 m ³ hr
Head	: Max 320 m
Temperature	: -15°C to 120°C
Inlet Pressure	: Up to 20 bar
Operating Pressure	: Up to 30 bar

Standard system equipment:

- Up to 6 vertical multistage pumps.
- E-coated mild steel suction and delivery manifolds.
- One check valve and two brass isolating valves per pump.
- Pressure transmitter.
- Pressure switches.
- MS base frame.
- Control panel.
- Analog pressure gauge.
- System is tested at the factory.

APS Series

Hydropneumatic Systems with Borewell Submersibles



FEATURES

Ideal for negative suction

Since the pumps are submerged underwater, there will always be a positive suction head. With no mechanical seal in their construction, mechanical seal failure (a common occurrence in vertical multistage pumps) cannot occur. Additionally these pumps can handle up to 100 starts and stops per hour.

Less floor space and Ease of extraction

These systems take up less space in the pump room and are ideal for retrofitting into an existing sump. Vertical submersible borewell pumpsets can be easily extracted using chain and pulley.

Noise free operation and Dry run protection

Submerged underwater, these pumps run silently and do not experience dry running.

Enhanced motor cooling

Our unique design allows vertically mounted pumps to pump water right down to the bottom of the sump while enhancing motor cooling.

PRODUCT DETAILS

Operating Data:

Power range	: Single phase: 0.37 kW to 1.5 kW, 220 V to 230 V, 50 Hz AC supply
	: Three phase: 0.37 kW to 18.5 kW, 380 to 415 V, 50 Hz AC supply
Speed	: 2900 rpm
Degree of Protection	: IP 68

Pump Data:

Flow rate	: Up to 30 m ³ /hr
Head	: Max 350 m
Temperature	: Max 35°C
Operating Pressure	: Up to 35 bar

Standard system equipment:

- Up to 3 borewell submersible pumps.
- E-coated mild steel delivery manifolds.
- One check valve and one brass isolating valve per pump.
- Pressure transmitter.
- Pressure switches.
- Pressure shroud / flow shroud on request.
- Control panel.
- Analog pressure gauge.
- System is tested at the factory.