



## BoostStar Hydropneumatic Systems





Established in 1939, A.T.E. today has metamorphosed into a multifaceted engineering group. With an impeccable track record, A.T.E. is reputed for its dedication towards excellence and customer satisfaction. A.T.E.'s strengths stem from its rich and varied experience across various industry segments.

### Flow Technology

Backed by more than three decades of experience in the field of flow technology and with representations of world renowned pump manufacturers, A.T.E. is well established in the Indian market. By leveraging the core competency of its skilled professionals in flow technology and with its ability to offer standardized as well as customised solutions, A.T.E. has developed an excellent reputation as a dependable solution provider.

### A.T.E. BoostStar

A.T.E. BoostStar hydropneumatic systems are designed and engineered to meet the operating conditions of domestic as well as industrial applications. Even in changing conditions, be it those of variable flow, variable pressure or variable pressure and flow, a BoostStar system will deliver reliable performance through optimum configuration of pumps, instrumentation and control.

BoostStar systems are available in various configurations with both vertical as well as horizontal pumps in SS 304 or SS 316 L constructions, with single VFD or multi-VFD operations. They are offered both as small packaged systems as well as customised systems.

### Highlights

- A system for every need
- Configured with the world's best technology for pumps, pressure tanks, VFDs & instrumentation
- High efficiency and reliability - clear differentiators
- Robust systems - low maintenance
- Low total cost of ownership

### BoostStar HyP HS and HyP CS

Standardised booster packages designed to effectively manage pressurised water supply requirements in domestic as well as commercial buildings and industrial applications.

The BoostStar HyP HS series is a series of fully automatic compact units, each comprising of a horizontal centrifugal pumpset, pressure tank and other instrumentation, that is sold fully assembled and ready for plug-in and start. This series is suitable for residential bungalows, villas, etc.

BoostStar HyP CS consists of two identical horizontal centrifugal pump sets connected in parallel and mounted on a skid configured with manifolds, valves, pressure tank, pressure switches and pump controller. It is suitable for applications in villas, duplex bungalows, small residential buildings, small hotels, resorts, spas, etc.





## BoostStar HyP VS

The BoostStar HyP VS range is a complete microprocessor controlled pressure boosting system designed to meet demanding duty conditions and variations in load patterns.

This series consists of a skid mounted system comprising of a battery of sheet metal SS pumps with controls to deliver flow patterns meeting varying demands. Automation is achieved through a pressure transmitter, a PLC and a VFD.



### Main features

- The cascade control feature allows optimum number of pumps in operation at all times. The variable frequency drive operates the pumps at optimum frequency, leading to energy savings.
- Mounted on a common frame, including manifolds, valves and pressure transmitter.
- The pump operations and the water supply management can be programmed to suit the user defined or demand defined consumption pattern.
- Preset and ready-to-use – simply connect water and power.

### Applications

- Water supply to housing colonies, townships, etc.
- Multi-story buildings (domestic and commercial), hotels, hospitals, IT Parks, schools and large complexes.
- Water parks, fountains, golf courses, irrigation, etc.
- Fire fighting.
- HVAC.
- Water treatment and RO filtration systems.
- Industrial applications in pharma, automotive, textile.

## Remote performance monitoring system (Optional)

For systems that operate round-the-clock, constant vigilance is a desirable, but humanly impossible task. A.T.E. Enterprises, in collaboration with EcoAxis, provides you with a 24-hour monitoring of your pumping system. Relevant data from your pumping system is transmitted by the controller deployed at your site, to EcoAxis' servers where it is continuously analysed by an intelligent software. Any deviation from normal and expected values is flagged and an actionable message is sent to the operator by SMS and email for immediate corrective action. If action taken is not confirmed within a stipulated time, the matter can be escalated to a higher level in the organisation. Also, it is possible to generate and send meaningful reports periodically to the concerned authorities. The following alerts are commonly triggered:

- Notifications for manual maintenance actions.
- Early warning of performance fall off or potential failures
- Prompts for wear management.

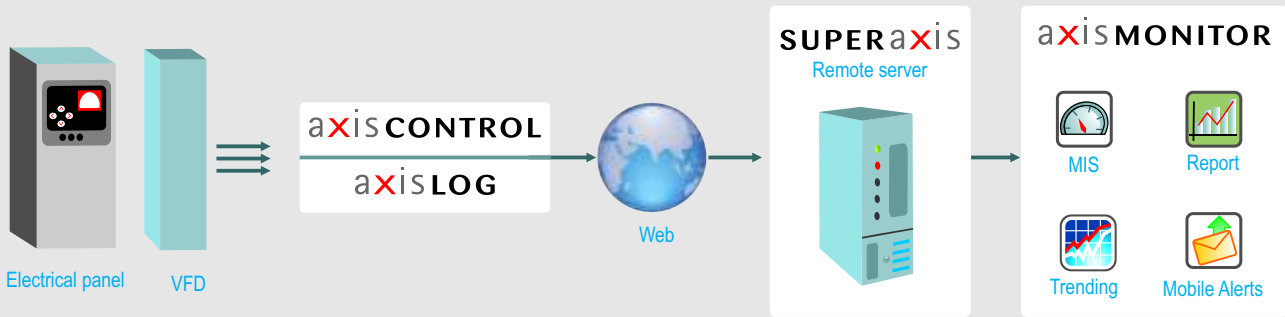
### Benefits

Problem	A.T.E. controller benefits
High energy consumption	Reduce energy bills through optimum equipment management
Need for constant human vigilance	Intelligently and automatically monitored from a remote server
Problem noticed after it occurs	Advance warnings of potential problems

### Controller features

- Upto eight pumps automatically cascaded
- Dry running protection
- Friction loss compensation
- Level monitoring to prevent dry running
- Equalising of operating time of each pump
- Change of switching sequence, pump on VFD, pump priority
- On/off regulation based on water flow parameters and water consumption set points
- Condition based pump switching and pump prioritisation
- Manual operation
- Alarms
- Periodic self tests
- Remote monitoring and diagnostics
- Operative/fault condition data availability for service engineers
- LEDs for indication
- Backlit display
- Easy access buttons

## EcoAxis solution architecture



## Pump selection guide

## A.T.E.'s BoostStar

Applications	Hyp-HS	Hyp-CS	*Hyp-FS	Hyp-VS	*Hyp-MS
<b>Domestic</b> High rise, multi-storied buildings, villas, bungalows, row houses, etc.	●	●		●	●
<b>Commercial</b> Business houses, call centers, IT parks, SEZs, malls, multiplexes, retail outlets, stadiums, hotels, hospitals, resorts, spas, schools, etc.		●	●	●	●
<b>Industries</b> Pharma, petrochemicals, metal, textile, breweries, dairies, vegetable processing units, etc.		●	●	●	
<b>Water treatment plants</b> (RO, DM, etc.)				●	
<b>Fire fighting</b>				●	
<b>Industrial washing systems</b>			●	●	
<b>HVAC</b>				●	●
Amusement parks, theme parks, water worlds, etc.			●	●	
Irrigation, golf courses, sports fields, vineyards, green houses, nurseries, etc.			●	●	

\* Hyp-FS is a fixed speed system, Hyp-MS is a multi - VFD system

## A.T.E. advantages

A.T.E.'s Flow Technology division, with its India-wide network of regional sales and service offices, is always close to its customers and provides them prompt pre and post sales services. Our qualified and trained sales and service teams support our customers on product recommendation, application engineering, design layouts as well as installation.



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