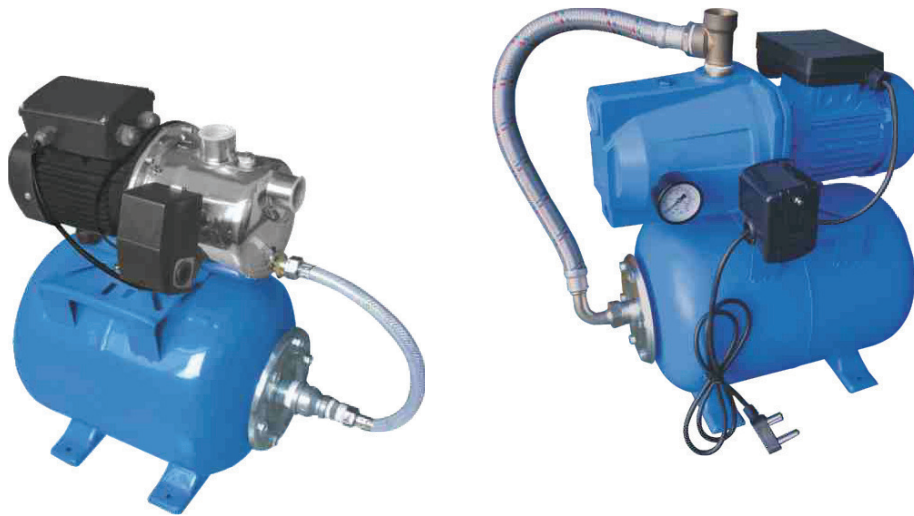


## Automatic Pressure Booster System



### DESCRIPTION

C.R.I. Automatic pressure booster systems comprises of Self priming Jet pump (JTS / JTC - Series), Pressure tank, Mechanical Pressure switch & other accessories designed ingeniously for delivering optimal performance. This system eliminates the need of over-head tanks & float switch. The electro mechanical control device switches ON & OFF the pump automatically whenever the pressure reaches the minimum and maximum preset levels. It maintains uniform pressurized water in the pipelines suitable for all domestic applications.

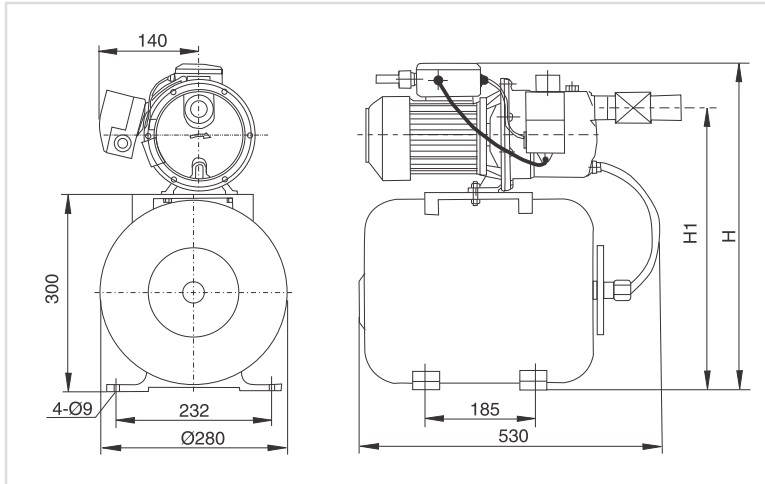
### FEATURES

- Sets free from operating the pump every time manually
- Eliminates need of overhead tank & float switch
- Ensures uninterrupted water supply with adequate pressure always
- Saves water, electricity & time
- Designed for easy installation

### APPLICATION

For all pressure boosting applications in Houses, Multi-storeyed Apartments, Villas, Gardens, Commercial centers, Hotels, Restaurants, etc.,

## DIMENSIONAL DETAILS



MODEL	Dimensions in mm		Weight in kg
	H	H1	
P24-JTS-3/05M	428	495	14.5
P24-JTS-3/07M	452	540	15.5

\* All Dimensions are in mm.

## PERFORMANCE DETAILS

### Pressure Booster System with Stainless Steel Pumps

MODEL	TANK CAPACITY in lts	MOTOR POWER		Inlet & Outlet Size in Inches	Head (Suc) in m	l/s m³/h	0.42	0.61	0.66	Pressure switch setting (bar)		Pressure level in pressure tank (PSI)
		kW	HP				1.5	2.2	2.4	ON	OFF	
P24-JTS-3/05M	24	0.55	0.75	1 x 1	7	Head in metres	25	22	19	1	2.5	15 - 18
P24-JTS-3/07M	24	0.75	1.0	1 x 1	7		31	28	25	2.1	3.5	15 - 18

MODEL	TANK CAPACITY in lts	MOTOR POWER		Inlet & Outlet Size in Inches	Head (Suc) in m	l/s m³/h	0.42	0.61	0.66	Pressure switch setting (bar)		Pressure level in pressure tank (PSI)
		kW	HP				1.5	2.2	2.4	ON	OFF	
P24-JTB-3/06M	24	0.60	0.8	1 x 1	7	Head in metres	24.5	21.5	20	1.4	2.8	15 - 18
P24-JTB-3/07M	24	0.75	1.0	1 x 1	7		33	29	26	2.1	3.5	15 - 18

The above models can be supplied with 60 ltrs tank also.

## GENERAL INFORMATION

### IMPORTANT NOTES :

1. Read our operator's manual carefully before installation.
2. Pump should not be operated dry. Install dry run preventor to protect the pumpset from dry running.
3. Use appropriate size, good quality cable and starter / protection devices.
4. Use low friction good quality pipes.
5. The pipe diameters must never be smaller than the pump connections.
6. Install pump according to the recommended Head range.
7. Reduce number of bends, elbows, T-bends as much as possible in the pipe line.
8. Pump should run for few minutes atleast once in 2 days to prevent from seizing.
9. All pumps employ a prime mover motor suitable for 230 volts single phase or 380-415 volts three phase, 50 Hz, A.C supply.
10. Use frictionless quality foot valves wherever required.
11. Avoid fatal electrical shock or injury by disconnecting power before working on or around the pumping system. Only technically qualified personnel must perform the works complying with local electricity rules and regulations. To reduce the risk of electrical shock during operation, an appropriate earthing is mandatory.
12. Maximum permissible supply voltage should lie between  $\pm 10\%$ .
13. The performance data and curves are at rated voltage and only indicative.
14. Pipe sizes mentioned in inches are nominal pipe sizes and are nearest conversion of mm.
15. All pumps are only suitable for pumping clear, cold, fresh, non-aggressive, non-explosive water without abrasives, solid particles or fibres. Clear cold water shall mean water having the following characteristics.

a)	Temperature	50 °C (max.)
b)	Permissible amount of sand	25 gm / m <sup>3</sup> (max.)
c)	Chlorine ion density	500 ppm (max.)
d)	Allowable solids	3000 ppm (max.)
e)	Specific gravity	1.004 (max.)
f)	Hardness (Drinking water)	300 (max.)
g)	Viscosity	$1.75 \times 10^6 \text{ m}^2 / \text{sec. (max.)}$
h)	Turbidity	50 ppm silica scale (max.)
i)	pH	6.5 to 8.5

### PERFORMANCE CURVE CONDITIONS :

The conditions below apply to the curves in this booklet.

- Curve tolerance according to ISO 9906, Annex A.
- The performance are at rated voltage and are only indicative. Actual discharge depends on availability of water in well / tank, height of water column from the suction pipe end.
- The measurements were made with airless water at 20°C. When pumping liquids with a density higher than of water, motors with correspondingly higher outputs must be used.
- The bold curves indicate the recommended performance range.
- Pipe friction losses have not been included in the performance curves & performance tables.
- The pipe connection threads are given as per BSP standard.
- The main scales of the Performance curve are metre and m<sup>3</sup>/h which have been given for head and flow respectively.