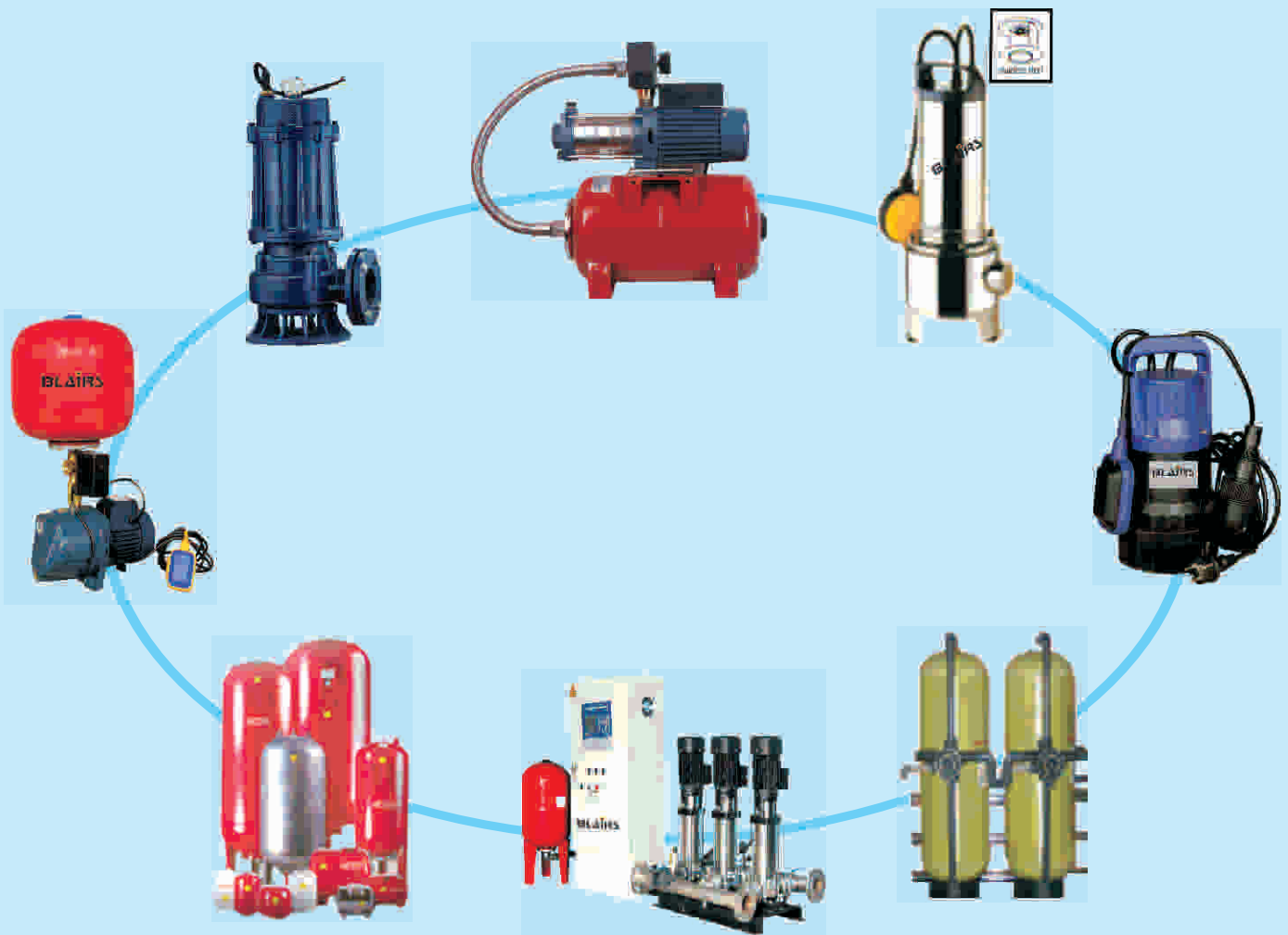


BLAIRS[®]

water... is life



www.bdsblairs.com

Total water pumping & treatment equipments

PBP (PERIPHERAL BOOSTER PUMP)

BLAIRS peripheral booster Pump is an equipment to achieve the right water pressure in a small domestic application. The automatic pressure systems are designed to automatically start and stop the pump on opening and closing of taps. pumps are able to offer high performance, consuming low power, reliable, economical, and simple to use which have particularly steady operating curves. For the correct functioning of the pump, use clean water. Pump is coupled with a Compact designed composed pump, a manometer, a Pressure diaphragm tank, a pressure adjustable switch, and a 3 or 5 ways connection in stamped brass. These pumps should be installed in a covered area, protected against the weather.

BLAIRS peripheral booster Pump **AUTO SPIN** is coupled with a **ELECTRONIC FLOW SWITCH** It makes the electric pump start when detecting a minimum fluid dropping movement into the pipe. **AUTO SPIN** Pumps shutdown suitably internally when the flow has been interrupted (taps closing or no water on suction side) from 10 to 180 seconds. It protects against the dry running, standard interval 60 min/4 attempts. No need of maintenance

APPLICATION

BLAIRS peripheral booster's pumps are particularly suitable for domestic applications and for automatic distribution of water from surge tanks, watering gardens and to boosting the insufficient water pressure supply from wells, domestic Storage tanks, To lifting water and distribution in domestic fittings to increase the pressure in aqueducts & automatic water distribution by small and medium sized Pressure tanks or by hydrosphere units.

PERFORMANCE RANGE

Flow rate up to 50 l/min.(3.0m³/h)
Head up to 60 m

OPERATING LIMITS

Suction lift up to 8 m
Fluid temperature up to 60°C
Maximum ambient temperature 40°C

STRUCTURAL CHARACTERISTICS

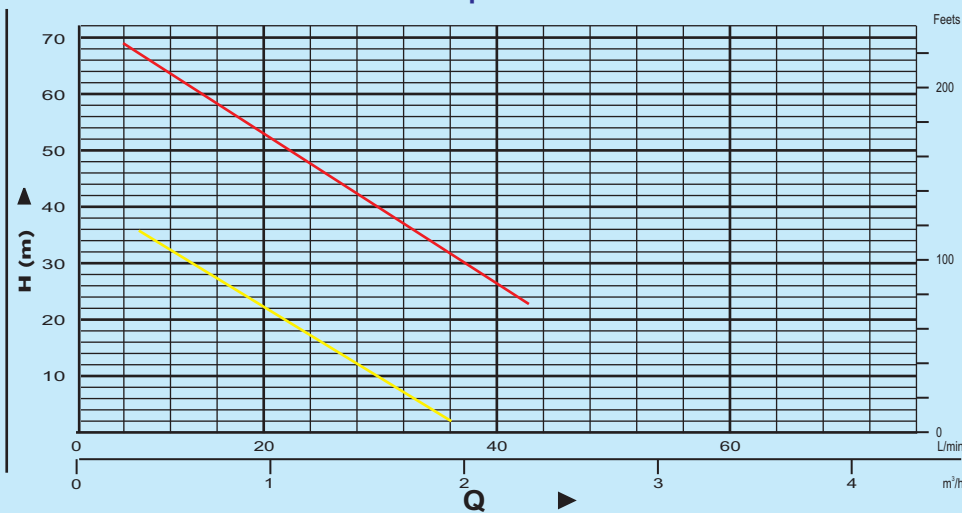
Pump body Cast Iron
Motor Support Cast Iron
Impeller Brass
Shaft with rotor Stainless Steel
Mechanical seal Carbon/Ceramic

MOTOR

Built-in overload motor protector with automatic reset
Permanent split capacitor
Protection IP 44



PERFORMANCE CHART AT n=2900rpm



Pump Model	POWER		Q	0	0.3	0.6	1	1.2	1.5	1.8	2.1	2.4	3.0
	KW	HP	m3/h	0	5	10	15	20	25	30	35	40	50
Single phase			l/min										
● PBP 60	0.37	0.6	H (m)	40	38	33.5	29	24	19.5	15	10	5	
● PBP 80	0.6	0.8		70	66	61	56	51	46	41	36	31	22

H=TOTAL HEAD IN METERS.

Q=FLOW RATE

JBP (JET BOOSTER PUMP)

BLAIRS Jet booster Pump is an equipment to achieve the right water resource/pressure. The automatic pressure systems are designed to automatically start and stop the pump on opening and closing of taps. Pressure booster Pump is coupled with a Compact designed composed pump, a manometer, a Pressure diaphragm tank, a pressure adjustable switch, dry running protector and a 3 or 5 ways connection in stamped brass. These pumps should be installed in a covered area, protected against the weather. Self priming jet pump has a very high hydraulic performance and a considerable pressure capacity. They are very silent and reliable.

APPLICATION

BLAIRS jet boosters are particularly suitable to increase pressure of water supply from wells, Storage tanks lifting and distribution in domestic fittings by small and medium sized Pressure tanks.

PERFORMANCE RANGE

Flow rate up to 225 l/min.(13.5 m³/h)
Head up to 60 m

OPERATING LIMITS

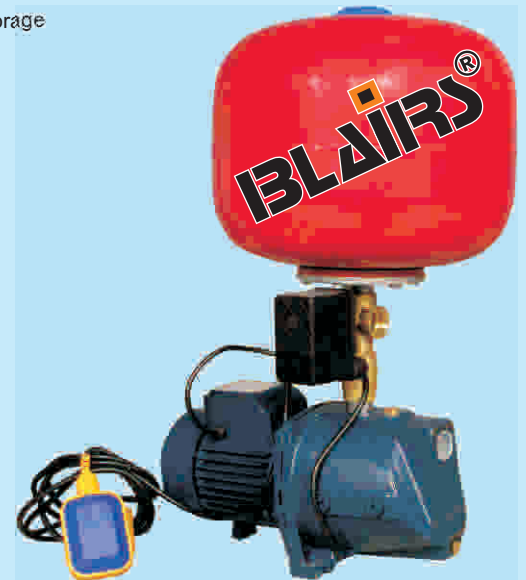
Suction lift up to 9 m
Fluid temperature up to 60°C
Maximum ambient temperature 40°C

STRUCTURAL CHARACTERISTICS

Pump body: Cast Iron
Pump body cover: Stainless steel
Motor Support: Aluminum
Impeller: Brass
Diffuser: Noryl
Pump flange: Stainless steel
Shaft with rotor: Stainless steel
Mechanical seal Carbon/Ceramic

MOTOR

Built-in overload motor protector with automatic reset
Permanent split capacitor
Protection IP 44
Shaft with rotor Stainless Steel

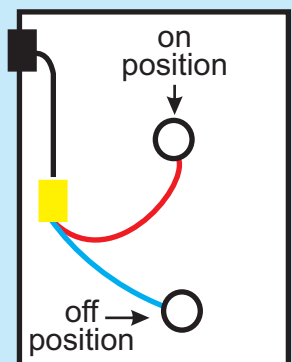
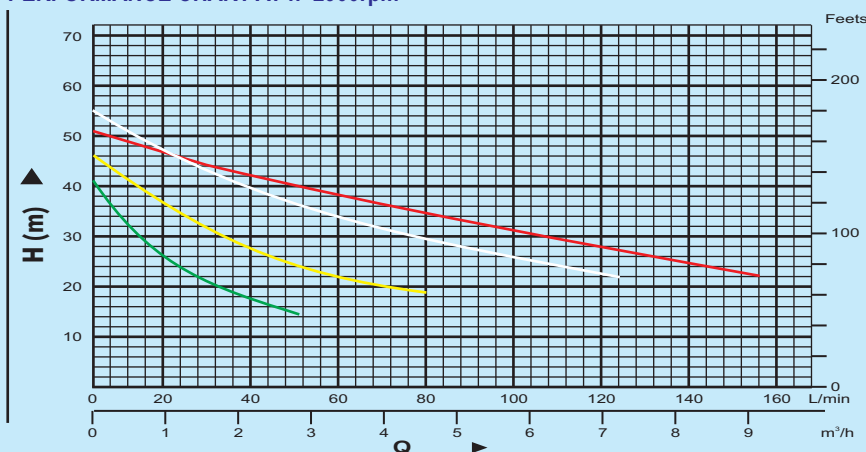


MODEL	POWER		Q	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	6.0	7.2	8.4	9.6	
	KW	HP	m ³ /h	0	5	10	15	20	25	30	35	40	50	60	70	80	100	120	140	160	
● JBP 70	0.5	0.7	H (m)	41	36	31	27	24	22	20	17	16	15								
● JBP 100	0.8	1.0		46	44	41	39	37	35	32	30	28	25	22	21	19					
● JBP 150	1.1	1.5		55	53	50	48	47	44	41	39	36	34	31	29	27	25	22			
● JBP 200	1.5	2.0		51	50	48	46	45	44	43	42	41	39	37	35	33	30	27	24	22	

H=TOTAL HEAD IN METERS.

Q=FLOW RATE

PERFORMANCE CHART AT n=2900rpm



DRY RUNNING PROTECTOR FUNCTIONING INSTRUCTIONS

SMP (STAINLESS STEEL MULTI-STAGE PUMPS)

BLAIRS Stainless-steel Multistage booster Pump is an equipment to achieve the right water resource/pressure. The automatic pressure systems are designed to automatically start and stop the pump on opening and closing of taps. Pressure booster Pump is coupled with a Compact designed composed pump, a manometer, a Pressure diaphragm tank, a pressure adjustable switch, dry running protector and a 3 or 5 ways connection in stamped brass. These pumps should be installed in a covered area, protected against the weather. They are very silent and reliable.

BLAIRS Stainless-steel Multistage pump is designed with advanced features such as the leakage-free design and fully stainless steel materials for rust-free operation without affecting your water quality. These pumps provide silent, strong & comfortable for water pressure all the time. They assure you the best water pumping performance for your applications, higher in efficiency and easy to operate Stainless-steel pumps. Featured with flat curves and construction in SS assures safe drinking water. Multistage design of the pump with high accuracy allows high head with lower motor capacity, which is ideally used for all high-pressure applications. The most exceptional merit of these SS Pumps is that it's all wetted parts and casings including suction and delivery casing are made of stainless steel AISI 304 and 303.

APPLICATION

Pumps are suitable for pumping water in Industries, Cooling systems, Aqua farming, Water treatment, Circulation of hot Water, Pumps on Water Treatment Plants, RO, DM Water Plants, Marine Water Handling, Fertilizing - metering & dosing applications.

PERFORMANCE RANGE

Max. Flow rate up to 60 M³/hr (1000 ltr/min)
Head max up to 230 M.

OPERATING LIMITS

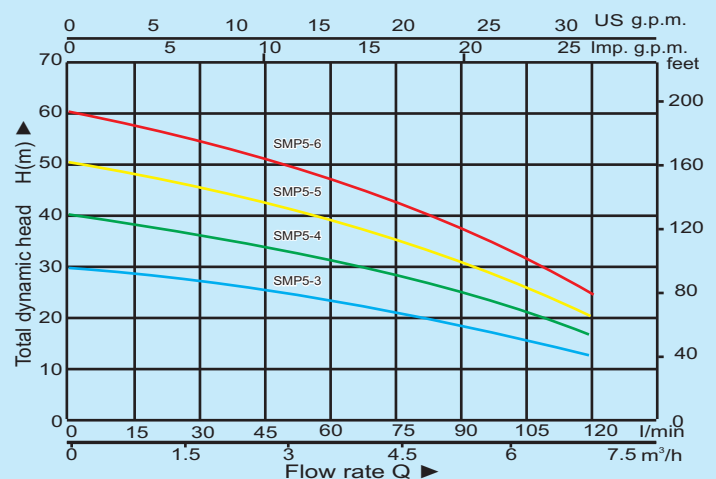
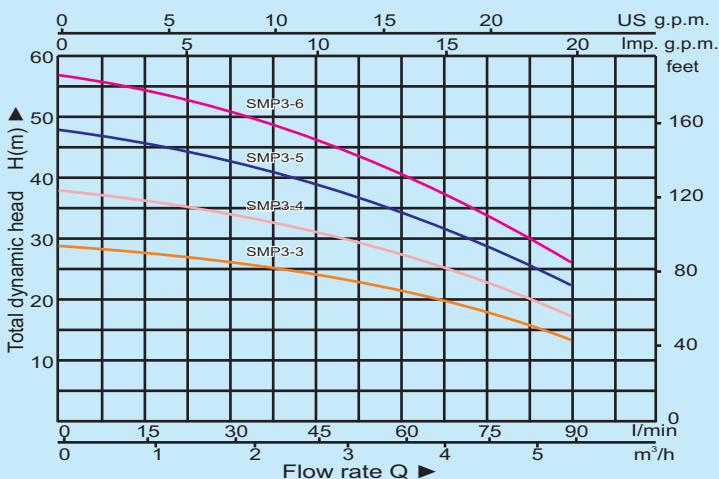
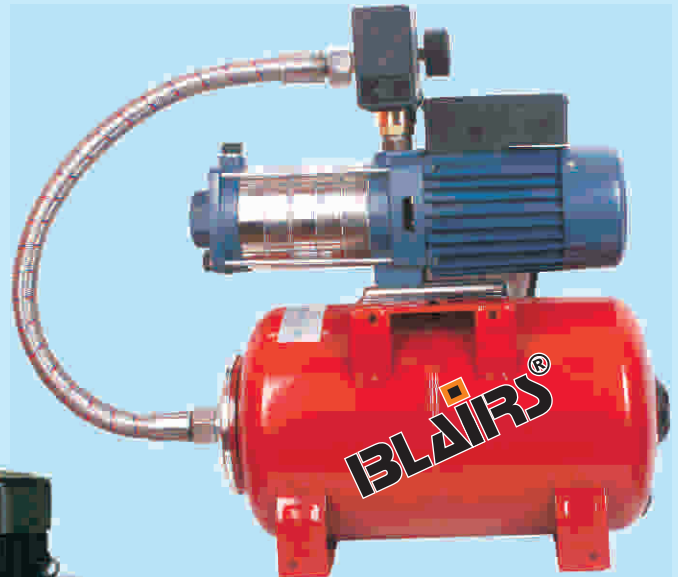
Temperature ranges of 0° C to +110° C.
Single mechanical seals very easy to interchange.

STRUCTURAL CHARACTERISTICS

Pump body: Stainless steel
Pump body cover: Stainless steel
Motor Support: Stainless steel
Impeller: Stainless steel
Diffuser: Stainless steel
Pump flange: Stainless steel
Shaft with rotor: Stainless steel

MOTOR

Built-in overload motor protector with automatic reset
Permanent split capacitor
Insulation Class F
Protection IP 54
Shaft with rotor Stainless Steel



HPS (HYDROPNEUMATIC SYSTEMS)

BLAIRS Hot water circulation system monitors temperature in return pipe operates according to the increase and decrease of temperature, starts as the temperature decreases and stop as soon as reach the required temperature maintains an stable temperature through out the pipe line. Control panel consisting of MCB's, Contactors, overload relay, cyclic timer for pumps to be rotary every 15 minute (adjustable as per requirement), push button, auto manual switch and switch for particular pump operation, Digital Temperature Display in return Pipe, volt meter, ampere meter, Temperature sincere to switch on the pump and off the pump at an certain temperature.

APPLICATIONS:

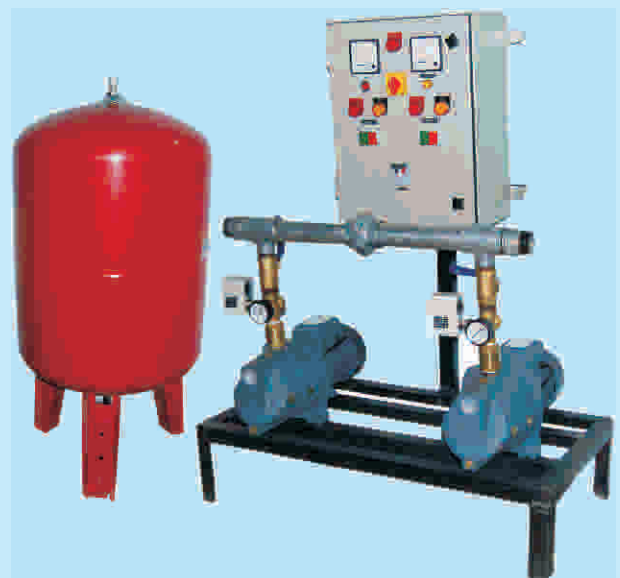
Hydro Pneumatic systems are in fix drive or Variable Frequency Drive for gated communities, Process Industry, Utility Usage, Industrial Washing, Sprinkler Application, Chemical Industry, Food Processing Industry, Multi-storey buildings, Hotels, Schools, Hospitals, IT Parks, high end musical Fountains, Public/municipal water supply and distribution networks to get equal water pressure for all Commercial & Residential Complexes and All type of industries, as they are considered as energy efficient systems resulting in reduction of electrical costs



BLAIRS hydro-pneumatic pressure booster system consists of an automatic pressure controlled pump and a pressure tank. This contains an air filled poly-ether-urethane (PEU) bladder. The water gets pumped in this tank that compresses it and pressurizes the bladder which in turn maintains a desired pressure within the whole water system. This automatic system requires no manual intervention and is built for low maintenance. As the entire distribution system is kept under pressure by the system. HIGHLY ADVANCE VARIABLE FREQUENCY DRIVE (VFD) OPERATED WATER BOOSTER SYSTEM. The method of reducing starting current and inverter loading is to vary motor speed. The law of effinity states that the power required to run a pump varies as the cube of any change in speed. If one reduces the normal running speed of a 1 HP pump by 50% only 1/8 HP is required to run it at the lower speed. By starting the pump at a lower frequency and ramping up to full speed over a period of a second or so, starting current is greatly reduced. Another advantage of VFD controlled pump is that their speeds can be controlled automatically to provide constant pressure during varying flow conditions. A simple pressure transducer, connected to the VFD, monitors pump discharge pressure and varies motor speed accordingly. At the end power requirement will be reduced and power reduction will defiantly give savings of electricity bills.



BLAIRS HPS constantly monitors the system pressure and acts according to the change in pressure. HPS can be installed at overhead tank or over the water storage sump which is mostly located in cellar or basement. With an assembly of a logic control panel unit with 2 to 6 pumps and a Pre charged Membrane pressure tank, the system is uniquely easy to operate from installation to everyday surveillance. Only required numbers of pumps are operational at anytime. The control panel variably adjusts the output of the pump for required operations. Providing change over from one stand by pump to another is unique feature of HPS. This ensures that all the pumps are put to equal use and operation of entire systems is steady and constant It also equipped with protection system from dry running when the suction tank is empty. The materials used for designing ensures that all wet parts never corrodes and no harmful traces of metal pass into the water. The pressure tank is made of Food & Drug Administration (FDA) and National Sanitation Federation (NSF) listed materials, thus are environmentally safe, Complete and efficient management of water & pressure.



BLAIRS dirty Water Submersible pumps with open impeller are suitable to lift waste liquids even with suspended solids. Pumps have been developed with the most advanced and sophisticated engineering and it has the possibility to operate also if partially submerged. The total absence of screws and motor cover in stainless steel one of the most technological advanced pumps available in the market. Max. Free passage of Grain size up to Ø 30 mm.

APPLICATION

BLAIRS submersible draining pumps is suitable for automatic fixed domestic applications and for draining cellars and garages subject to flooding, also particularly useful as a portable pump for emergencies such as draining waste from tanks or rivers, emptying muddy swimming pools, fountains or excavations and subways. These pumps can lift liquids even with suspended solids in sewage water from septic tank. Level float switch offers permanent and automatic pump operation.

PERFORMANCE RANGE

Flow rate up to 225 l/min.(13.5m³/h)

Head up to 8 m

OPERATING LIMITS

Fluid temperature up to 35°C

Maximum ambient temperature 40°C

STRUCTURAL CHARACTERISTICS

Pump body, Impeller: Moplen

Impeller: Noryl

Shaft with rotor: stainless steel Aisi 420A

Mechanical seal: carbon–ceramics.

Motor casing: stainless steel

Continuous duty.

TYPE Con galleggiante with float switch

MOTOR

Built-in overload motor protector with automatic reset

Permanent split capacitor

Protection IP 68

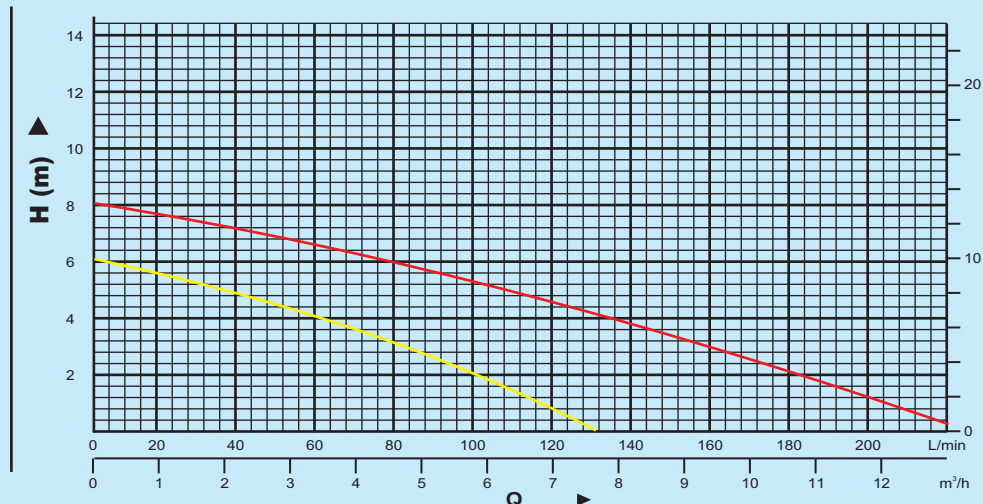


MODEL	INPUT POWER (W)	MAX.FLOW (m ³ /h)	MAX.HEAD (m)
● MSP 400	400	9	6
● MSP 750	750	13.5	8

H=TOTAL HEAD IN METERS.

Q=FLOW RATE

PERFORMANCE CHART AT n=2900rpm



SVS (SINGL VANE SEWAGE PUMPS)

BLAIRS Single vane stainless steel submersible pump for professional use. particularly efficient and reliable in fixed installations with automatic operation with general motor specification and hard-faced mechanical seal. pump are highly efficiency pumps for professional use & built completely in stainless steel. They are extremely reliable and suitable for continuo's duty. Single vane impeller is mounted on the end of the drive shaft and enclosed in a large ring chamber framed by the pump body and the base. The suction opening is direct with the liquid to be pumped. The rotating impeller which is centrifuged in the ring chamber transmits kinetic energy to the water; kinetic energy is transformed into pressure energy. The particular shape of the impeller optimizes efficiency. Max. Free passage of Grain size up to Ø 50 mm.

APPLICATION

BLAIRS single vane submersible pump is designed to handle dirty water for pumping liquids containing suspended solids, including short fibers and sewage in domestic and civil applications. It is particularly recommended for the transfer of water mixed with mud in areas such as: domestic housing, industrial applications and underground car parks. in a purposely built pit with minimum dimensions 500x500x500 mm is recommended for fixed installations to give total drainage and to allow correct operation of the automatic float switch.

PERFORMANCE RANGE

Flow rate up to 500 l/min. (30m³/h)
Head up to 12 m

OPERATING LIMITS

Fluid temperature up to 50 °C
Maximum operating depth 5m below water level
Maximum passage for Grain size inlet Ø 30 mm

STRUCTURAL CHARACTERISTICS

Pump body: Stainless steel
Single vane Impeller: Stainless steel.
Motor sleeve: Stainless steel
Motor base: Stainless steel
Motor shaft: Stainless steel.
Mechanical Seal: Double mechanical seal silicon carbide on the pump side and sealing ring on the motor side (with barrier oil chamber to lubricate and cool the sealing surfaces in the absence of water).

MOTOR

Designed for continuous duty, even with the pump partially submerged (min.250mm).
Neoprene H07 RN-F submerged supply cable.
Construction and safety standards in compliance with EN 60 335-1(IEC 335-1, CE61-150) EN 60034-1(IEC 34-1, CEI 2-3).
Type: Con galleggiante with float switch
Built-in overload motor protector with automatic reset is incorporated in the single phase model.
Permanent split capacitor
Insulation: Sealed induction motor with double impregnated class F winding (ensuring extended motor life and wide range of use)
Protection IP 68

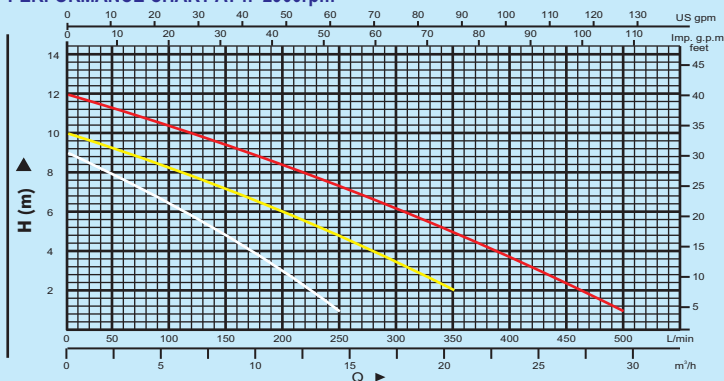


Model	POWER		Q	0	3.0	6.0	1	12	15	18	21	24	30
	KW	HP	m ³ /h	0	50	100	150	200	250	300	350	400	500
● SVS 75	0.55	0.75	H (m)	9	8	6.5	5	2.5	1				
● SVS 100	0.75	1		10	8.7	7.5	6.5	5.8	4.8	3.9	2		
● SVS 150	1.1	1.5		12	10.7	9.5	8.7	7.8	6.8	5.9	4.3	3	1

H=TOTAL HEAD IN METERS.

Q=FLOW RATE

PERFORMANCE CHART AT n=2900rpm



Single Vane Stainless Steel Impeller

CSCP (Cast-Iron Sewage Double-Channel Pump) CSVP (Cast-Iron Sewage Vortex Pump)

BLAIRS Sewage submersible Pumps are ideal for pumping drainage water, sewage or waste water or nuisance water. These pumps are outstanding for their reliability in fixed installations with automatic operation. Exceptional sturdiness even under severe working conditions also featured by its long durability and safety with stable performance curves

APPLICATION

BLAIRS Sewage submersible pump is extensively used in dirty water, designed mainly for industrial and civil fields, sewers, galleries, excavation sites, wells, channels, underground car parks and architectural operations. They are also recommended for draining dirty water in domestic and civil sectors.

WORKING PRINCIPLE

BLAIRS Sewage submersible pumps are allowed to pump liquids containing suspended solid bodies with dimensions up to 35 mm and short fibers. Pumps are made of hard alloy and reliably well-sealed and equipped with overheat & overload protection devise,

PERFORMANCE RANGE

Flow rate up to 1083 l/min. (65m³/h) Head up to 30 m

OPERATING LIMITS

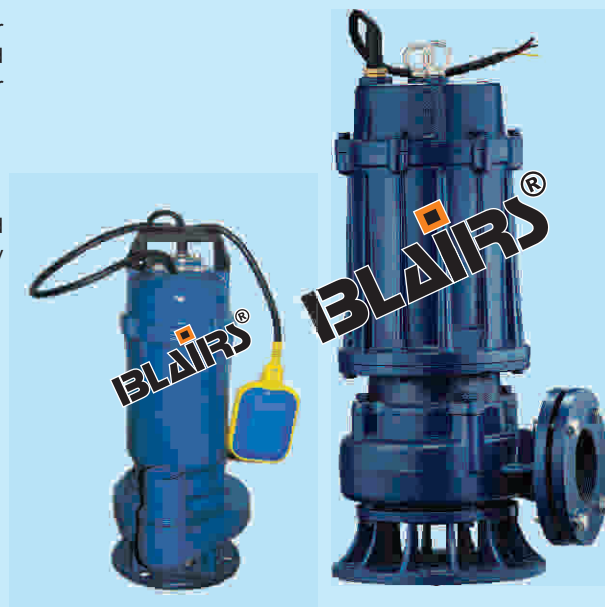
Fluid temperature up to 40°C
Maximum ambient temperature 40°C
Maximum operating depth 8m below water level
Maximum passage for Grain size inlet Ø 35 mm

STRUCTURE FEATURE

Motor Housing: Cast iron
Pump Body: Cast iron
Impeller: Cast iron
Motor Shaft: stainless steel
Mechanical seal: Stainless steel/Ceramic - Graphite,

MOTOR

Insulation: Class F
Protection: Ip68
Electric motor: Single-phase 220V - 50Hz with capacitor and thermal overload protector, three phases Voltage fluctuation for 10% more or less is allowed.



MODEL	VOLT	SIZE	POWER		Q									
					0	3.5	7	10.5	14	20	25	30		
	(V)	MM	KW	HP	l/min	0	58	117	175	233	333	416	500	
CSCP 6 - 12 - 0.55	180-240	35	0.55	0.75	H (m)	17	14.3	12	9	7.5	3			
CSCP 6 - 16 - 0.75	180-240	35	0.75	1		21	18.4	16	13	11	6	3		
CSVP 10 - 10 - 0.75	180-240	50	0.75	1		14	14.5	13	11	9	6.5	4.5		
CSVP 7 - 15 - 1.1	180-240	35	1.1	1.5		18.4	17	15	14	13	11	7		
CSVP 15 - 10 - 1.5	180-240	50	1.5	2		16	15	14	12.5	11	9.5	5.5		
CSVP 10 - 7 - 0.55	300-440	35	0.55	0.75		9.5	8.5	8.1	7	4.5				
CSVP 10 - 10 - 0.75	300-440	35	0.75	1		14	14.5	13	11	9	6.5	4.5		
CSVP 15 - 10 - 1.5	300-440	65	1.5	2		13	12	11.8	11	10.5				
CSVP 15 - 20 - 2.2	300-440	65	2.2	3		25	24	22	21.8	20.5	17.5	16		

MODEL	SIZE	POWER		Q													
				0	5	10	15	25	30	35	40	50	65	80	150		
VOLT – (300-440)	MM	KW	HP	l/min	0	83	167	250	416	500	583	667	833	1083	1333	2500	
CSVP(T) 15-13-1.5	50	1.5	2	H (m)	17.5	16.5	15	13	7.5	6							
CSVP(T) 20-13-2.2	75	2.25	3		19	18	16.5	14	8	7	5.5						
CSVP(T) 25-20-3	65	3.0	4		31.5	29	26	25	20	13							
CSVP(T) 30-20-4	75	4.1	5.5		29	28	27	25	22.5	20	18	16	12	4			
CSVP(T) 34-22-4	75	4.1	5.5		38	36	35	33	28	25	22.5	20	10	6			
CSVP(T) 20-36-5.5	63	5.5	7.5		48	46	45	41	30	25	15						
CSVP(T) 45-22-7.5	75	7.5	10		26	25.5	25	24.5	24	23.5	23	22.5	21	20	20.5	18	



Best Value in Water R. O. Equipment

Corrosion free components for long service life.
 Simple controls for trouble free operation.
 Easy accessibility to all components
 Single phase units available to 16,000 GPD
 316 Stainless steel triplex plunger pumps
 All pumps close coupled to electric motor.
 High rejection RO membranes
 Most competitive price in the industry.
 Unit frame of rustproof fiberglass structural channel.
 All units are factory tested.
 Operation controlled by low feed water pressure switch and solid state time delay relay.
 Ten Standard Models: 100, 150, 300, 1000, 2700, 4000, 5400, 8000, 12000, & 16000 LPM.
 Customer support by professional engineering staff.

RO systems remove salts, micro-organisms and high molecular weight organics. The System capacity depends on three major factors.

1. The feed water temperature.
2. Total dissolved solids in feed water (TDS).
3. Operating pressure and the over all recovery of the system.

Why pay more?

Buy BLAIRS RO System & Save Money!
 Why go for plastic jars and colorful labels that squeeze your water everyday.
 Switch to BLAIRS RO System and make your own bottled mineral water. For economical to use
 Economical to use. at less than 50 paisa a liter. Save valuable cooking time and costs.

What is RO?

RO is a latest technology to remove all excess total dissolved solids dangerous chemicals from water up to 95 %. It remove bacteria and virus to leave of 99%.It resorts the original tests and quality of water. Other purification methods have no effect on TDS level of water. The diameter of RO membranes is less than 0.0001 micron (which is 500,000times less than diameter of our hair)

Why RO?

BLAIRS RO is the most efficient and effective method of water purification known to man. It removes impurities as small as 0.0001 micron size (a human hair is 50-70 microns thick!) cleansing water of all biological impurities, suspended particles, dissolved solids (TDS), salts, fluorides, metals and chemicals. Most non-RO systems can filter particles only up to 5-10 microns in size, leaving behind almost all dissolved impurities (like bad-tasting salts) and some fine physical impurities.

RO is membrane separation process in which feed water flows along the membrane surface under pressure. Purified water permeates the membrane and is collected, while the concentrated water containing dissolved and un dissolved impurities that do not flow through the membrane is discharged to the drain. RO is a modern process technology to purify water for a wide range of applications including semiconductors, fisheries, food processing, biotechnology, pharmaceuticals, power generation, seawater desalting, and municipal drinking water.

RO is the cost effective water purification system it is an immediate source of pure water. The process of RO represents the finest level of liquid filtration available today. And though the term sounds mysterious RO isn't really that complicated. Ordinary water filters use a screen to separate particles from water streams. The holes that these filters have are fairly large. This allows just about everything that is dissolved in the water to pass through as well. An RO system employs a semi-permeable membrane. The membrane is a thin multi-layered sheet with pores so small that water molecules can pass through, but it acts as a barrier to dissolved solids like salts and other chemicals. Thus even bacteria and viruses are trapped and not allowed to pass through.

Maximum purity is attained by reducing

- a) 95% - 99% of the TDS.
- b) 99% of the organics and bacteria.

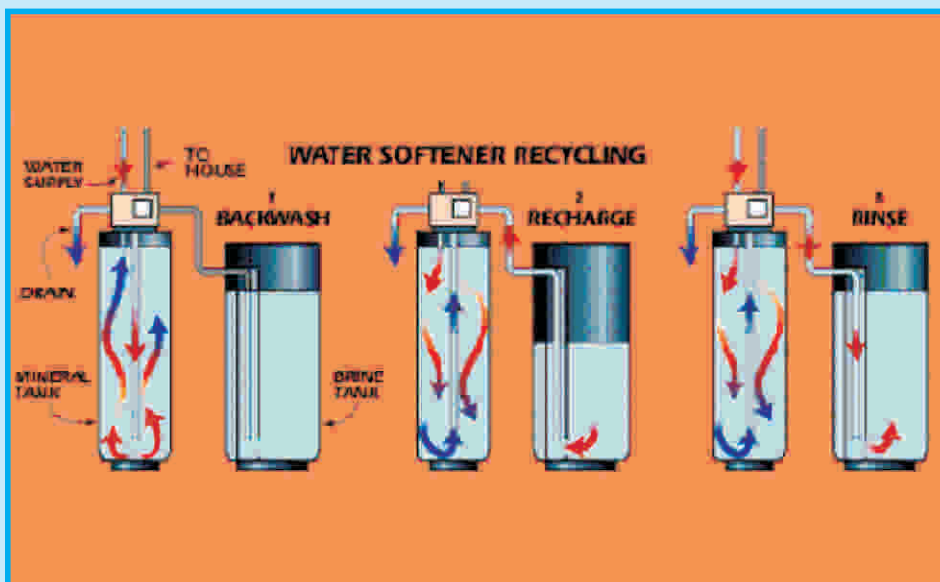
For waters with TDS of 200 ppm or more, RO is less expensive than ion exchange. Even on comparable water it has better sediment and organic removal capabilities. Compared with distillation, RO uses only a fraction of the total energy and does not have high temperature problems, scaling and corrosion

RO Six Stage Cleaning Process...

- Stage 1: Sediment filter removes physical and suspended impurities such as sand, dust and rust etc.
- Stage 2: Antiscalant removes chemical hardness
- Stage 3: GAC - Granular Activated Carbon removes colors and free chlorine in the water and also absorbs organics on its surfaces
- Stage 4: This stage implies a protective mechanism to preserve the highly sensitive RO membrane
- Stage 5: The advanced thin film composite RO membrane removes dissolved salts, heavy metal micro-organisms and other chemical impurities to drain
- Stage 6: The post filter & polisher keeps a check on the growth of bacteria at the point of use and restores the natural taste of water

BLAIRS water softener is attractive, compact easy to operate and maintain. The pressure vessel is made up of FRP (Fiber Reinforced Plastic), pipes are of PVC (Poly Vinyl Chloride), Valves of ABS (Acrylic Butyl Styrene). Easy to install & doesn't require civil work. The FRP Vessels are designed and tested for high pressure flow, last much longer than MS vessels. They are fitted with multipor valves which give all the operations by a single liver operation and thus are cost effective & easy to use. They do not require any painting or maintenance. Moreover the advantage is that they are of food grade quality and can be used even in the food industry. They are also light in weight and can be easily mounted on rooftops of the premises.

1. Soaps and shampoos don't lather, leave you feeling unwashed. Which is why you'll love water softener: It cuts out the hardness in water and puts the goodness right back, leaving your skin smooth as silk.
2. Hard water causes residual deposits and scale build-ups, damaging your water heaters, washing machines, showers, dishwashers, pipelines, taps and other appliances, Their life goes down by 45% while maintenance costs go up by 25%.
3. "Fine crystal stands for fine taste". But it needs soft water to keep its sheen. And hard water can make life hard for it.
4. Hard water reduces the cleaning power of detergents. Soft water reduces soaps requirements by about 70%.
5. Food and water taste different. Cooking takes longer than ever before. Cooking gas consumption increases by 30%. Hard water also causes scale deposits on utensils.
6. Would you bear to see your expensive bathroom fittings decay? Hard water leaves scales which clog pipes, faucets, valves and fixtures.
7. Hard water leads to deterioration and fading of fabrics. It reduces life of your fabrics by 15%
8. Hard water makes hard work out of washing floors, tiles and walls. It renders cleaning ineffective.
9. Craggy hairs, dry hairs, hair loss, all have roots in hard water.
10. Hard water reacts adversely with detergents, which means even your little ones ultra soft towels turn rough on their soft skin. Soft water caresses: Hard water irritates.



How does a water softener work?

A water softener uses a medium that serves to exchange "ions" of Calcium and magnesium with sodium and potassium. This occurs in four steps:

1. To do the ion replacement, the water runs through a resin bed of small plastic beads. The beads are covered with sodium or potassium ions. As the water flows past the ions they swap places with the calcium and magnesium ions. Eventually the beads contain nothing but calcium, magnesium and softening stops. It is then time to regenerate the beads.
2. To regenerate the beads need to regain their sodium & potassium ions by being flooded with a salty brine solution that is rich in sodium and potassium.
3. Once completed, the calcium and magnesium, dirt and sediments are flushed from the beads into the drain in a process called backwash.
4. The final phase rinses the mineral tank with fresh water and loads the brine tank so it's ready for the next cycle.



PRESSURIZED WATER AND EXPANSION TANKS

Varem® S.p.A. (Italy) are in the water and heating field for more than 25 years and is a world leader in the production of expansion of water tanks. Varem® not only distinguishes itself in the manufacturing of metal tanks, but also for the production of their rubber membranes. With research and continuous investment Varem® has been able to maintain the CE and ISO 9001:2000 certification, a synonym of constant product quality and service efficiency.

Varem® pressurized water tanks are being used for various applications like hydro pneumatic systems, home water pressure boosting systems, commercial water distribution systems, mineral/RO plants, solar heating systems over time and not even single problem with these tanks had been reported in INDIA.

TANK SIZES : 5 Ltrs., 8 Ltrs., 19 Ltrs., 24 Ltrs., 40 Ltrs., 50 Ltrs., 80 Ltrs., 100 Ltrs., 150 Ltrs., 200 Ltrs., 300 Ltrs., 500 Ltrs., 750 Ltrs., 1000 Ltrs., 1500 Ltrs., 2000 Ltrs.

BLADDERS FOR PRESSURE TANKS



The bladders for pressure tanks are made of a compound for products intended for contact with drinking water or for water to be conditioned. The white-cream coloured compound is made up of a mixture of NATURAL RUBBER, natural mineral fillers, mineral white oil refined for pharmaceutical use, physiologically harmless pigments and non-toxic vulcanizers. The maximum working temperature is 60°C. By request, we can supply black bladders in EPDM – synthetic rubber – (ethylene/poly-propylene) resistant until a temperature of 90°C and in BUTYL – butyl synthetic rubber, whose resistance reaches 100°C. Hardness: 40 ±5 SH

FLOAT SWITCHES



BLAIRS float switch is a device used to detect the level of liquid within a tank, an indicator, an alarm, automation or other devices.

PRESSURE GAUGES



Unfilled ABS Casing		
Casing	::	Black ABS
Window	::	Polycarbonate
Driving mechanism	::	Brass
Pressure element	::	Copper alloy Bourdon tube
Dial	::	White painted aluminium showing double range*
Pointer	::	Black painted aluminium
Welding	::	Tin alloy
Temperature limits	::	-10° C + 80° C
Protection	::	IP 43

PRESSURE SWITCHES FOR WATER SYSTEM APPLICATIONS



The switch controls the pump working automatically and makes it work between the minimum and maximum setting values: at the minimum setting value, the electric contacts close and start the motor; at the maximum value, they open and stop the motor.

CONNECTORS



Model	Connection
3 way	1"
4 way	1"
5 way	1"

Note :- BLAIRS reserves right to modify design and technical specification without any notification.



BLAIRS®
water... is life

Dealer / Distributor :-

BDS ENGINEERING

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