



MECHLION PUMPS

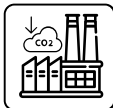


CSB-(H) Series

All-In-One Self-Priming Peripheral Silent Booster Pump

The CSB - (H) series is an All-in-One self-priming , Extremely silent, fully protected and automated booster pump for boosting both Hot and cold water applications.

	MOST SILENT PUMP IN ITS CLASS
	ROBUST & STRONG BUILT
	ECONOMICAL & HIGHER ENERGY SAVINGS
	FULLY PROTECTED PUMP SET
	HIGH RELIABILITY & PERFORMANCE
	INTELLIGENT CONTROLLER
	VERY LOW MAINTENANCE



The Most Versatile Residential Booster System



The **MECHLION™** Water Pressure Booster set was built with one simple goal in mind - to be the Most Unique, compact, Silent and reliable Residential Booster sets in the market for residential, light commercial and irrigation use.

The CSB - (H) series is an All-in-One self-priming silent booster pump for boosting both Hot and cold water. The compact design combined pressure tank, pressure switch, flow switch and full protection controller, moreover, the evolutionary flow channel and peripheral impeller design provide highly performance, by using this booster pump there is no more pump frequently ON/OFF, unstable water pressure and noise problems.

Unique: Our booster sets are the most uniquely designed system available in the market. With its All-in-one design which integrates patented intelligent pump controller along with Pump, Pressure switch, flow switch and pressure tank. All you need is to just plug and start using it.

A single-speed, totally enclosed fan-cooled motor drives the MECHLION™ booster pump with single phase power. It tells you its working status by illuminating dual LED signal. The indication readouts are simple and easy to understand. LED light signals to indicate 4 different operating statuses.

● Red light: Stand by ● Green light: Pump on ● Red flash: Over heat ● Green flash: No water



Silent: Our booster sets are with the evolutionary flow channel and peripheral impeller design along with the intelligent controller provide the most silent operation in class, so no more noise issue from pump short cycling.



Intelligent: Our Patented intelligent pump controller Electronic Circuitry Continuously monitors system, making sure that you have good, reliable pressure when you want it.



Solid built & Efficient: Booster set is built solidly with Robust construction for higher reliability and Best-in-class. Unique design offers higher efficiency for lower electricity bill.



Reliable: Electronic components are completely separated from piping and water ways for added safety and ease of field repair, pressure. Each component of the system is specifically designed to work together as one harmonious unit.



Dry-run protection:

Controller wrote in dry-run protecting function to prevent pump or pipe damage (dry run without water over 2 min), the pump will automatically rest for 15 min & restart again, if above cycling happen accumulate 10 times, the rest time will become 90 min & restart afterward.



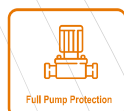
Anti-block system:

To prevent mechanical seal or impeller stick together, If the pump remains idle for 24 consecutive hours, the device will carry out a start-up of the pump motor for about 5 seconds



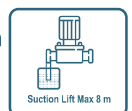
Double thermal protection for motor:

- Pump-disconnect at 55°C, & connect at 40°C
- Motor-disconnect at 135 ± 5°C, & connect at 86 ± 15°C

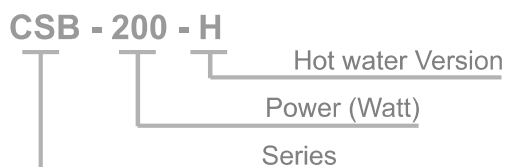


Max. 8 metre suction lift:

The pump will lift water to Max. 8 metre self-priming suction lift. Since it is self-priming it doesn't require any additional foot valve



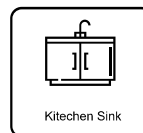
MODEL CODE :



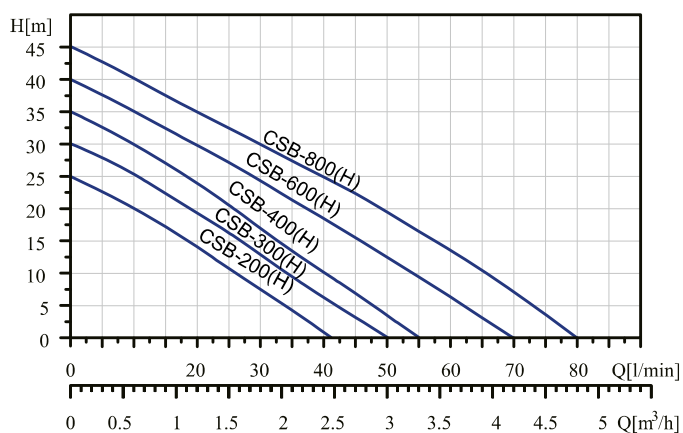
**CSB - 200(H)
HOT WATER**



**CSB - 200
COLD WATER**



PERFORMANCE CURVES :



OPERATING CONDITIONS:

Liquid Temperature	2°C - 40°C
Ambient Temperature	2°C - 90°C (H Type)
Max. System Pressure	CSB (H) 200/300/400 - 5kg/cm ² CSB (H) 600/800 - 7kg/cm ²

MOTOR DETAILS:

Motor Type	2 Pole, Totally enclosed Fan cooled
Frequency	50HZ
Standard Voltages	1Ø - 220 - 240 V
Insulation Class	F class (155°C)
Enclosure Protection Class	IP 54
Nominal Speed	2850 rpm

SPECIFICATIONS:

Model	Phase	Power		Head		Flow		Ampere		No of taps	Connection	Weight
		HP	Watt	Rated (M)	Max. (M)	Rated (L/min)	Max. (L/min)	Rated (A)	Max. (A)			
CSB (H) -200	3	0.25	200W	12.5	25	21	41	1.1/1.1	1.8/1.7	2	Z-Lock	10
CSB (H) -300		0.35	300W	13.5	30	28	50	1.4/1.4	2.2/2.1	3		10.5
CSB (H) -400		0.5	400W	14.5	35	32	55	1.7/1.7	2.4/2.3	4		11
CSB (H) -600		0.75	600W	15.5	40	43	70	2.7/2.6	4.2/4.0	5		13
CSB (H) -800		1	800W	17	45	50	80	3.1/3.0	5.2/4.9	6		14.5

* Models with "H" are hot water types



KEY COMPONENT FEATURE DESCRIPTION



A



Patented wind-collecting type centrifugal fan provides great heat dissipation for motor and reduces wind noise

F



Patented balanced flow switch design provides stable water flow

B



Patented intelligent pump controller functions like dry-run protection, anti-block & delayed shutdown

G



In-let screen design prevents debris from getting into pump casing

C



Motor auto reset thermal protection for longer motor life

H



Special impeller and flow channel design highly increase pump performance and self-priming ability under ultra-silent operation

D



High Durable epoxy coating tank for high rust resistant & reduce No.of start stop & smooth working

I



Pump casing auto reset thermal protection to prevent dry running

E



Patented precise pressure switch design provides stable water pressure. The cut-in pressure setting can be slightly adjusted by hand

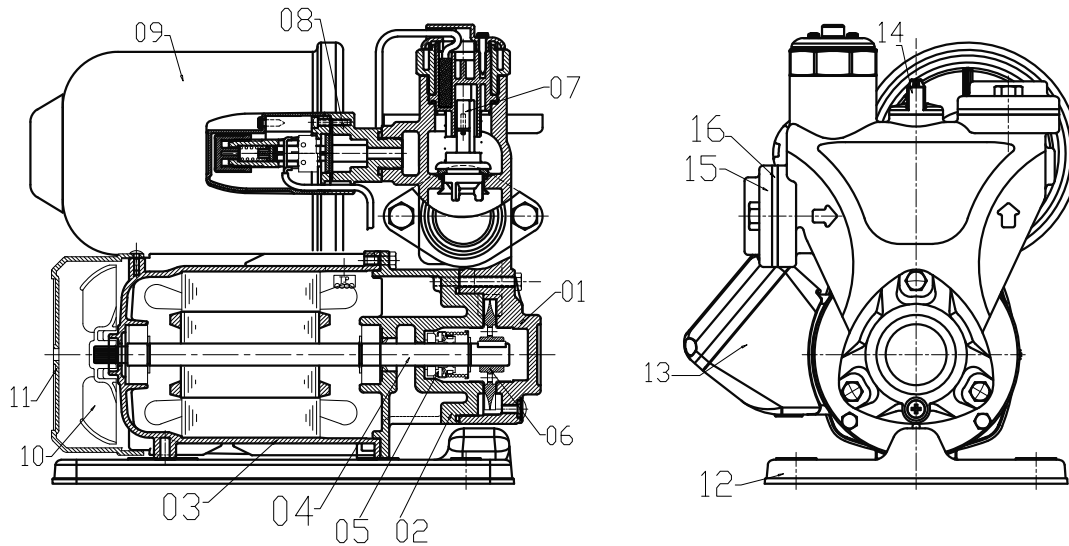
J



Double stainless-steel bushing design prevents impeller lock and wear

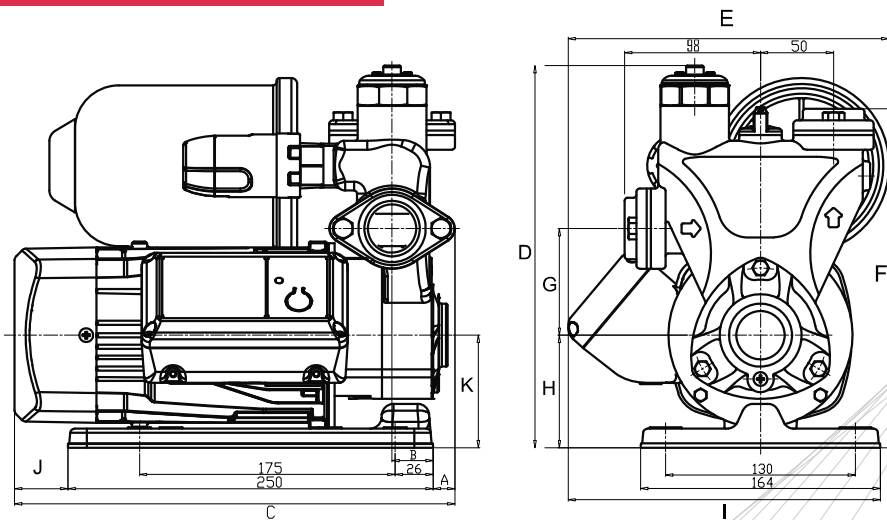


COMPONENTS / MATERIALS:



No.	Component	Material	No.	Component	Material
1,2	Pump & Motor stool	FC200	9	Pressure tank	SPCC
3	Motor	ADC12	10	Motor fan	PP
4	Shaft	Stainless Steel 400 Series	11	Fan cover	PP
5	Mechanical seal	Ceramic + Carbon + NBR (Standard)	12	Pump base	ABS
		Ceramic + Carbon + Viton (Hot water)	13	Wiring box	ABS
6	Impeller	Brass	14	Filling plug	Nylon
7	Flow switch + check valve	Nylon+POM	15	Flange	FC200
8	Pressure switch	Nylon	16	Flange gasket	NBR

DIMENSIONS:



Model	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm
CSB (H) -200	17	26	274	248	214	223	75	70	208	6.5
CSB (H) -300	19	24	276	248	214	223	75	70	208	6.5
CSB (H) -400	21	22	278	248	214	223	75	70	214	36.5
CSB (H) -600	12	32	298	261	220	237	77	73	214	36.5
CSB (H) -800	15	28	302	261	220	237	77	73	214	36.5

* Models with "H" are hot water types





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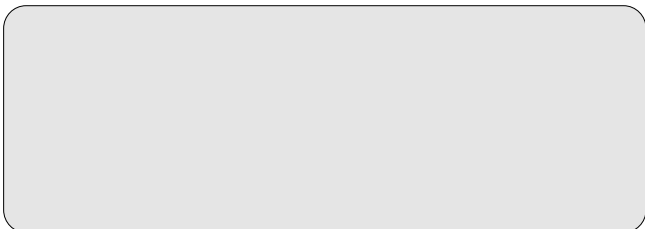


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