

Panasonic
ideas for life



A-130JTX

WATER PUMP



FEATURE HIGHLIGHT

Compact and Energy Efficient

- Pump cover with smooth curve for elegant outlook
- Brass-made casing cover and impeller are resistance to friction and high temperature that allow smoother water stream
- Nitrogen Gas is adopted in accumulator for stable and optimum performance ^{(*)1}
- Rubber Bladder made of pliable material Butyl that is strong enough to produce a more stable pressure ^{(*)1}

Reliable and Safe

- Equipped with Thermal Protector (130°C) enhances security against burning by turning off the pump directly as temperature exceeds the limit
- Double stator protection being resistant to abrasion reduce the danger of short circuit

Durable

- High accurate rotor with anti-rust layer allows operation up to 8,000 hours without stopping
- Stainless aluminum motor body and brass casing cover allow high durability
- Auto system with platinum equipped switch can operate 1 million on/off test without performance reduced ^{(*)2}

^{(*)1} For Auto Series only, except A-130JTX

^{(*)2} For Auto Series only

AUTO SERIES (SHALLOW WELL TYPE)

With Auto Series water pump, flow of water can be controlled by the automatic switch associated with water tap operation, that provides greater convenience.

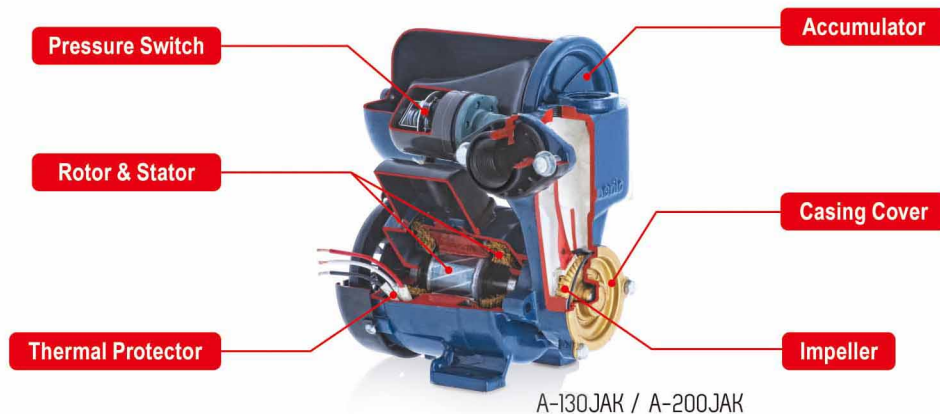


Model No.	A-130JTX	A-130JACK	A-130JAK	A-200JAK
Maximum Capacity	30 liters / minute	30 liters / minute	30 liters / minute	45 liters / minute
Capacity at 12m	18 liters / minute	18 liters / minute	18 liters / minute	29 liters / minute
Power Suction	9 meters	9 meters	9 meters	9 meters
Maximum Total Head	25 meters	27 meters	27 meters	27 meters
Motor Power	125 watts	125 watts	125 watts	200 watts
Switch On Pressure	1.1 kgf / cm ²	1.1 kgf / cm ²	1.1 kgf / cm ²	1.1 kgf / cm ²
Switch Off Pressure	1.6 kgf / cm ²	1.8 kgf / cm ²	1.8 kgf / cm ²	1.8 kgf / cm ²
Suction Pipe	3/4 inch (19 mm)	1 inch (25 mm)	1 inch (25 mm)	1 inch (25 mm)
Push pipe	3/4 inch (19 mm)	1 inch (25 mm)	1 inch (25 mm)	1 inch (25 mm)
Size (L x W x H)	Ø 330 x 425 mm	330 x 255 x 340 mm	246 x 225 x 240 mm	257 x 238 x 245 mm
Weight	14.5 kg	8.8 kg	6.9 kg	8.3 kg

S STRUCTURE (FOR AUTO SERIES)^(*)

- Accumulator is a compression space containing Nitrogen Gas which has characteristics of elasticity. The gas content will never deplete that always stay stable and optimum.
- Rubber Bladder is made of Butyl that is stainless and anti-leakage. It functions as water separator with the Nitrogen compression room.
- Automatic Switch equipped with a protector made of fire-retardant material and a Platinum-made Switch that is long-lasting. It functions to break the stream if the water stream is closed.

(*) Except A-130JTX



N NON-AUTO SERIES (SHALLOW WELL TYPE)

Compact-size and high performance of Non-auto Series allow easy installation and maintenance in different applications.



Model No.	GP-129JXK	GP-200JXK	GP-350JA
Maximum Capacity	30 liters / minute	45 liters / minute	45 liters / minute
Capacity at 12m	18 liters / minute	29 liters / minute	39 liters / minute
Power Suction	9 meters	9 meters	9 meters
Maximum Total Head	30 meters	30 meters	45 meters
Motor Power	125 watts	200 watts	350 watts
Suction Pipe	1 inch (25 mm)	1 inch (25 mm)	1 inch (25 mm)
Push pipe	1 inch (25 mm)	1 inch (25 mm)	1 inch (25 mm)
Size (L x W x H)	206 x 152 x 212 mm	225 x 182 x 215 mm	239 x 182 x 250 mm
Weight	5.9 kg	7.5 kg	14 kg

SPECIFICATION COMPARISON

	Auto Series				Non-Auto Series		
	A-130JTX	A-130JACK	A-130JAK	A-200JAK	GP-129JXK	GP-200JXK	GP-350JA
Capacity (Liter/min)	30	30	30	45	30	45	45
Discharge Head (Meter)	16	18	18	18	21	21	36
Suction Head (Meter)	9	9	9	9	9	9	9

INSTALLATION AND SELECTION

To get the right pump for the job, following criteria should be determined

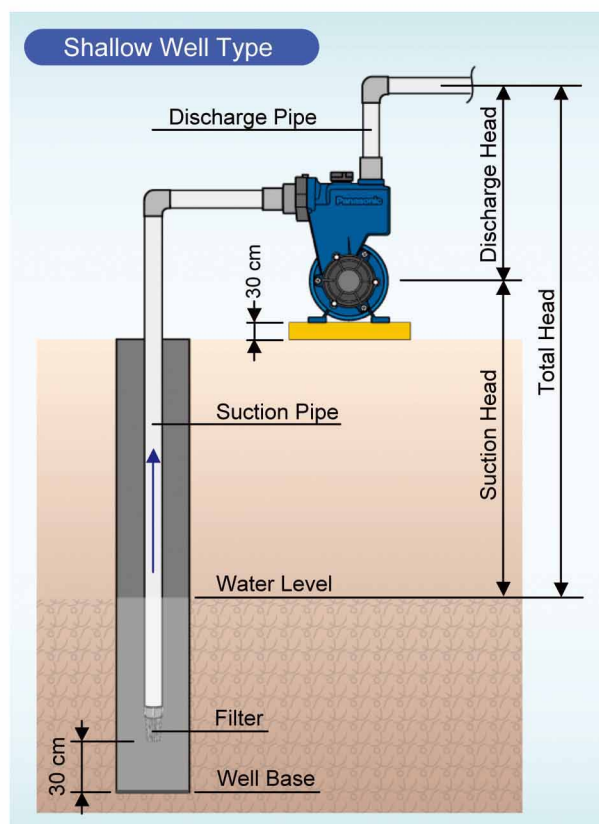
- 1) Required amount of water
- 2) Suction Head
The vertical distance from water level to the centerline of the pump
- 3) Discharge Head
The vertical distance from the centerline of the pump to final discharge outlet
- 4) Friction Loss
Resistance and loss of pressure due to the flow of water pass through the pipes and fittings within the pump system
* Friction loss can be found from reference table for standard pipe supplies and manufacturer-provided charts for particular parts respectively
- 5) Total Dynamic Head
Suction Head + Discharge Head + Friction Loss

Once the values are determined, the pump can be sized according to Required Amount of Water and Total Dynamic Head from Pump Characteristic Chart.

Principle of Water Pump

The principal is same as a person drinks or sucks water where the pressure in the throat is lower than that in the glass, so the water could flow from high pressure region to lower.

In nature, normal pressure is 1 atmosphere or around 10 mH₂O. For smooth water flow, resistances should be minimized in pipe installation to reduce friction loss.



- Specifications are subject to change without prior notice.
- Actual colors may vary slightly from those shown.

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