









JOS Openwell - Submersible Pumpset





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**ALWAYS BUY PUMPS WITH** 







LOGOS ON PACKAGING

# JOS

## HORIZONTAL OPENWELL PUMPS

#### **TECHNICAL SPECIFICATION**

Head Range - Up to 64 Metres Discharge Range - Up to 48.5 LPS

Power Rating - 2.2 to 15 kW (3 to 20 HP)

Voltage Range\* - 200 to 440 Volts (Three Phase)

Insulation - PP Protection - IP68

## MATERIAL OF CONSTRUCTION

Impeller-Cast IronDelivery Casing-Cast IronMotor Body-Cast IronPump Shaft-Stainless Steel

### **APPLICATIONS**

- · Irrigation in horticulture & agriculture
- Sprinkler and drip irrigation
- · Water supplies for high rise building
- Rural water supply
- Domestic and community water supply

#### **FEATURES**

#### Wide Voltage Design

The motor is designed to withstand wide voltage variations which reduces the chances of motor burning at low voltage.

#### **Design to Prevent Overloading**

Lesser chances of motor burning even if the pump operates at lower head than recommended as motor does not get overload thus ensures substantial saving from maintenance cost and breakdown.

#### High Efficiency and Energy Saving Design

Innovative design manufactured at state of art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.

#### **Dynamically Balanced Rotating Parts**

Minimum vibration protects components from damage during the operation, thus ensures consistent performance over longer time period as concentricity is maintained.

#### **Advanced Water Cooled Motors Designs**

The motor is filled with potable water, protects from overheating and facilitates smoother and trouble free operation for the years.

## Wide Voltage Motor Designs

Motors are designed with extra overload capacities, more water spaces and engineered with high grade materials to performs well in low voltage with minimum discharge drops and suitable for wide voltage applications.

#### **Easy Maintainable Designs**

Easy maintainable design and better interchangeability of components so that pump can be serviced even at remote locations by semi-skilled technicians

## **High Head Applications**

The pump has been designed to deliver large volumes of water for high head applications, helping customers to achieve high turnaround time and productivity.

| PERFORMANCE CHART FOR JOS SERIES, 2 POLE, OPENWELL PUMPS, AT RATED VOLTAGE, 50 Hz FREQUENCY, THREE PHASE A.C. POWER SUPPLY |            |       |        |                |              |         |                      |      |      |      |      |      |       |        |       |       |      |      |     |     |     |     |
|--|------------|-------|--------|----------------|--------------|---------|----------------------|------|------|------|------|------|-------|--------|-------|-------|------|------|-----|-----|-----|-----|
| S. No.   | PUMP MODEL |       |        | · · ·          |              | Rated   | TOTAL HEAD IN METRES |      |      |      |      |      |       |        |       |       |      |      |     |     |     |     |
|  |            | Power | Rating | Pipe Size (mm) |              | Voltage | 10                   | 12   | 14   | 16   | 18   | 20   | 22    | 24     | 26    | 28    | 30   | 32   | 34  | 36  | 38  | 40  |
|  |            | kW HP |        | SUC.           | C. DEL. (Vol |         |                      |      |      |      |      | DISC | IARGE | IN LIT | RES P | ER SE | COND |      |     |     |     |     |
| 1  | JOS - 326  | 2.2   | 3      | 65             | 65           | 380     | -                    | 13.2 | 12.4 | 11.6 | 10.4 | 8.8  | 7.2   | 4.4    | -     | -     | ı    | -    | -   | -   | -   | -   |
| 2  | JOS - 330  | 2.2   | 3      | 65             | 50           | 380     | 11.9                 | 11.5 | 11.0 | 10.4 | 9.7  | 9.0  | 8.0   | 6.6    | 4.8   | 2.0   | ı    | -    | -   | -   | -   | -   |
| 3  | JOS - 335  | 2.2   | 3      | 50             | 40           | 380     | -                    | -    | -    | -    | -    | -    | -     | -      | 5.8   | 5.4   | 4.8  | 4.2  | 3.2 | 2.2 | -   | -   |
| 4  | JOS - 531  | 3.7   | 5      | 65             | 65           | 380     | -                    | -    | -    | 14.8 | 14.4 | 13.9 | 13.4  | 12.4   | 11.5  | 9.2   | 6.0  | -    | -   | -   | -   | -   |
| 5  | JOS - 540  | 3.7   | 5      | 65             | 50           | 380     | -                    | -    | -    | -    | -    | -    | -     | 11.3   | 10.8  | 10.2  | 9.2  | 8.4  | 6.8 | 5.2 | 3.2 | -   |
| 6  | JOS - 835  | 5.5   | 7.5    | 80             | 65           | 380     | -                    | -    | -    | -    | 20.2 | 19.9 | 19.2  | 18.5   | 17.2  | 15.8  | 14.0 | 12.2 | 9.5 | -   | -   | -   |
|  |            |       |        |                |              |         | 20                   | 22   | 24   | 26   | 28   | 30   | 32    | 34     | 36    | 38    | 40   | 42   | 44  | 46  | 48  | 50  |
| 7  | JOS - 550  | 3.7   | 5      | 50             | 40           | 380     | -                    | -    | -    | -    | -    | 5.5  | 5.4   | 5.2    | 5.1   | 4.8   | 4.6  | 4.2  | 3.8 | 3.4 | 2.8 | 2.2 |
| 8  | JOS - 846  | 5.5   | 7.5    | 65             | 50           | 380     | 15.7                 | 15.2 | 14.6 | 14.0 | 13.4 | 12.7 | 11.8  | 11.0   | 10.1  | 9.2   | 7.8  | 6.0  | 4.0 |     | -   | -   |
| 9  | JOS - 854  | 5.5   | 7.5    | 65             | 50           | 380     | -                    |      | -    |      | -    | -    | 13.0  | 12.3   | 11.6  | 10.9  | 10.0 | 9.0  | 8.0 | 6.5 | 4.0 | -   |
| 10   | JOS - 1040 | 7.5   | 10     | 80             | 65           | 380     | 20.0                 | 19.3 | 18.5 | 17.7 | 16.8 | 15.9 | 14.5  | 13.3   | 12.0  | 10.5  | ı    | -    | 1   | -   | -   | -   |
| 11   | JOS - 1050 | 7.5   | 10     | 65             | 65           | 380     | -                    | -    | -    | -    | -    | -    | -     | 11.6   | 11.2  | 10.6  | 10.2 | 9.5  | 8.8 | 8.0 | 7.0 | 6.0 |
| 12   | JOS - 2040 | 15    | 20     | 100            | 100          | 380     | 48.5                 | 46.5 | 44.5 | 42.0 | 39.8 | 37.0 | 34.0  | 30.5   | 26.0  | 21.0  | 12.0 | -    | -   | -   | -   | -   |
|  |            |       |        |                |              |         | 28                   | 30   | 32   | 34   | 36   | 38   | 40    | 42     | 44    | 46    | 48   | 50   | 52  | 56  | 60  | 64  |
| 13   | JOS - 1065 | 7.5   | 10     | 65             | 50           | 380     | -                    | -    | -    | -    | -    | -    | -     | -      | 7.4   | 7.2   | 7.0  | 6.6  | 6.2 | 5.6 | 4.7 | 3.6 |

#### Note:

- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

## KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company



<sup>\*</sup>Under ideal condition with suitable cable size.