



॥ राष्ट्रदेवो भवः ॥



**Falcon**<sup>®</sup>  
A MACHINE FOR MANKIND

Since 1994

# AC SOLAR PUMPING SYSTEM - BOREWELL



Live Stock Watering



Drinking Water Supply



Gardening



Mfg. by : **Falcon Pumps Pvt. Ltd.**

Chale Pragati Ki Aur<sup>®</sup>

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## ■ SALIENT FEATURES

- Highly efficient 3-phase water filled motor
- Easily rewindable
- Dynamically balanced design
- Extended life with flawless performance
- Thrust bearing : Carbon + S.S. material for High thrust load capacity
- 100% EC grade copper winding
- Presenting world 1st design (design registered 100% fully S.S.-304 investment casting pumps.
- Zero maintenance
- Superior performance
- Sand proof operation
- Highly efficient 3-phase water filled motor

## ■ PRODUCT SPECIFICATION

|                              |                          |
|------------------------------|--------------------------|
| Power Range                  | : 1.0 HP to 20.0 HP      |
| Operating Speed              | : 0 – 2890 RPM           |
| Operating Frequency          | : 0 – 50 Hz              |
| Input Solar DC Power Range   | : 900 Wp – 20000 Wp      |
| Input Solar DC Voltage Range | : 110 Vmp – 600 Vmp      |
| Head Range                   | : 30 Mtr – 220 Mtr       |
| Discharge Range              | : 10000 LPD – 420000 LPD |
| Type of Duty                 | : S1                     |



● Customized Design Available upto 100HP - 330Mtr.

## ■ MATERIAL OF CONSTRUCTION - MOTOR

| <u>Part</u>       | <u>Grade</u>          |
|-------------------|-----------------------|
| Body Lock         | : Spring Steel        |
| Stud Ring         | : M.S. (Zinc Coated)  |
| Stator Stamping   | : CRNGO - M45 Silicon |
| Winding Wire      | : 100% EC Copper      |
| Shaft             | : SS-420              |
| Rotor Stamping    | : CRNGO - M45 Silicon |
| Copper Lamination | : 100% EC Copper      |
| Upper Housing     | : SS-304              |
| Lower Housing     | : SS-304              |
| Connection Piece  | : SS-304              |
| Oil Seal          | : NBR                 |
| TB Set            | : Carbon + SS         |
| Base              | : SS-304              |
| Drain Plug        | : Brass               |
| Couple Sleeve     | : Stainless Steel     |
| Water Bolt        | : Brass               |



## ■ MATERIAL OF CONSTRUCTION – PUMP

| <u>Part</u>     | <u>Grade</u>      |
|-----------------|-------------------|
| Suction         | : SS-304          |
| Couple          | : Stainless Steel |
| Couple Counter  | : SS-304          |
| Rubber Seal     | : NBR             |
| Bush Seal Cover | : SS-304          |
| Bowl            | : SS-304          |
| Impeller        | : SS-304          |
| Key             | : SS-410          |
| Bowl Bush       | : NBR             |
| Bush            | : LTB-4           |
| Middle          | : SS-304          |
| Cap             | : NBR             |
| Outlet          | : SS-304          |

