

॥ राष्ट्रदेवो भवः ॥



Since 1994



FCM SERIES



Farming



Domestic



Gardening



Water Supply



Industrial



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

Chale Pragati Ki Aur®

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■ MONOBLOCK PUMPS

Falcon centrifugal monoblock pumpsets are powered by a totally enclosed fan cooled AC induction two pole motor. Motor stator is made of low watt loss silicon steel laminations assembled under pressure and rigidly locked in the frame. The windings are of high-grade enameled copper wire offer excellent resistance and are varnish impregnated. Construction of motor frame and usage of quality materials result in high performance and low temperature rise thereby increasing the life cycle of the motor.

■ SALIENT FEATURES

- High operating efficiency resulting in lower power consumption
- Good suction lift characteristics
- Specially designed for wide voltage operation.
- Dynamically balanced rotating parts including rotor and impeller ensures minimum vibration and longer life.
- Back pull-out design for easy servicing and repair.
- Double shielded ball bearings, so no need of external lubrication.
- Mechanical seal is provided as per customers requirement.



■ SPECIFICATION

- Power Range	: 2.2 Kw - 11.2 Kw (3.0 HP - 15.0 HP)
- Version	: Three Phase, 380-415V, 50Hz AC Supply
- Speed	: 2880 RPM
- Maximum Total Head	: 65 Mtr.
- Maximum Flow Rate	: 1450 LPM
- Maximum Suction Lift	: 7 Mtr.
- Degree of Protection	: IP 44
- Class of Insulation	: B
- Maximum Ambient Tem.	: 40°C
- Sealing	: Stuffing Box
- Type of Duty	: S1 (Continuous)
- Direction of Rotation	: Three Phase, Electrically Reversible
- Nominal Pumpset Size (Suction X Delivery in inch)	: 50 X 40, 50 X 50, 65 X 50, 80 X 65, 80 X 80 100 X 80 and 100 X 100 (All size in mm)



**DOUBLE ZZ
SKF BEARING**



**CRNGO
PROGRESSIVE CUTTING
STAMPING STACK**



ALUMINUM FAN



**ALUMINUM DIE
CAST ROTOR STACK**



■ CHARACTERISTICS OF CLEAR COLD WATER

- Maximum liquid temperature : 33°C max
- Permissible amount of sand : 25 g/m³
- Allowable solids : 3000 ppm (max.)
- Chloride ion density : 500 ppm (max.)
- Turbidity : 50 ppm silica scale (max.)
- Hardness (Drinking Water) : 300 ppm (max.)
- Specific gravity : 1.004 (max.)
- Viscosity : 1.75 x 10⁶ m²/sec (max.)
- Ph Value : 6.5 to 8.5

■ MATERIAL OF CONSTRUCTION - MOTOR

<u>Part Name</u>	<u>Material</u>
Gland Dori	: Graphite String
Motor Shaft	: EN-19 with SS SLEEVE
Motor Body	: FG-250
Bearing	: SKF
End Cover	: FG-250
Bracket	: FG-250
Flange	: FG-250
Casing	: FG-250
Impeller	: FG-250
Cooling Fan	: Aluminium