



ESP Motor Series



Full range of motor sizes and power options

SPECTRUM ESP motors are three-phase AC, two-pole, squirrel cage, induction motors that convert high voltage AC electrical power into mechanical power for the pump. Motors are selected to provide the horsepower required by the pump to deliver the desired flow and lift. For higher horsepower/higher flow applications two or more motors can be installed in series enabling production from deeper wells.

Excellent motor lubrication and heat dissipation

All SPECTRUM ESP motors are hand wound and filled with highly refined synthetic/mineral oil to provide insulation, lubrication for rotor bearings and heat dissipation. Motors rely on the velocity and thermal conductivity of the wellbore fluid flowing past the motor to ensure adequate cooling. Alkhorayef employs proprietary insulating materials with a maximum winding operating temperature of 404°F (206°C).

Greater efficiencies gained through the use of silicone steel laminations and non rotating rotor bearings greatly reduce the amount of heat generated, prolonging ESP run life.

For hot and harsh environments, resistance to exterior corrosion is provided by Monel flame spray coatings or a ferritic steel construction.

SPECTRUM ESP motors are available in a range of diameters (series) with multiple horsepower, voltage and current nameplate options.

SERIES

380 560
450 740
550

APPLICATIONS

- Water wells
- Conventional oil wells
- Offshore/remote ESP installations
- Unconventional oil wells
- Gassy wells

BENEFITS

- High HP models enables reliable production from deep offshore wells
- Higher temperature models suitable for hot, gassy environments
- Improved insulation for increased ESP run life
- Greater efficiency motors for reduced heat generation

FEATURES

- Kapton insulated magnet wire
- Monel flame spray coating or ferritic steel construction options available
- Max winding operating temperature 404°F (206°C)
- Involute splines on high HP models



Alkhorayef™

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SPECTRUM

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SPECIFICATIONS

Motor series	OD, in (mm)	60 Hz HP
380	3.75 (95.25)	15-60
450	4.56 (115.82)	24-216
550	5.43 (137.92)	30-300
560	5.62 (142.75)	68-509
740	7.4 (187.96)	150-700

Note: Tandem configurations available for high HP applications