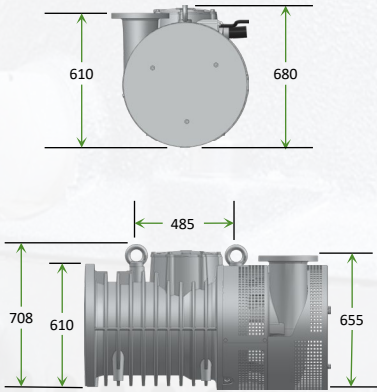


DATA SHEET MTP090KW HV 50HZ

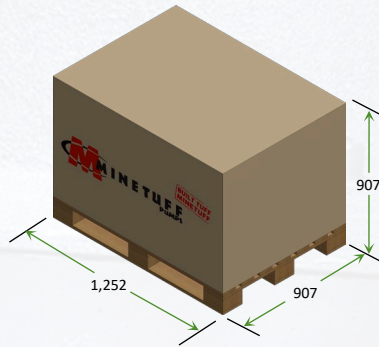
DIMENSIONS

Pump only

Pump packaged



Weight: 900kg (1,984lbs)



Weight: 915kg (2,017lbs)

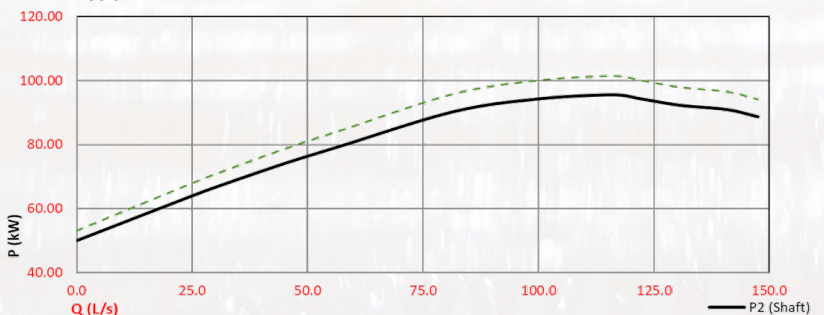
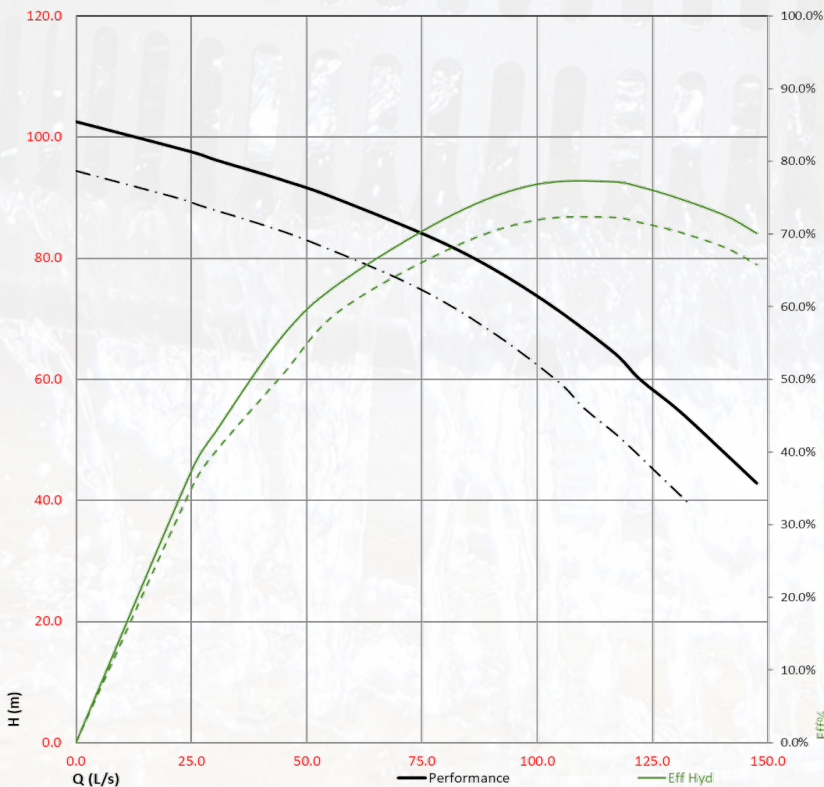
MOTOR SPECIFICATIONS

| Rated power | 90kW (120HP) | | |
|------------------------|-----------------------|--------------------|-----------|
| Full load output power | 89.8kW (120.4HP) | | |
| Full load input power | 95.6kW (128.2HP) | | |
| Rotational speed | 2,958 rpm | | |
| Power factor | 0.923 | | |
| Motor efficiency | 93.9 % | | |
| Pump efficiency | 77.2 % | | |
| Overall efficiency | 72.3 % | | |
| Voltage | Full Load Current (A) | Inrush Current (A) | Resist Ω* |
| 380V (Δ) | 168 | 1,265 | 0.0461 |
| 400V (Δ) | 159 | 1,341 | 0.0572 |
| 415V (Δ) | 153 | 1,161 | 0.0572 |
| 440V (Δ) | 145 | 1,213 | 0.0678 |
| 500V (Δ) | 127 | 891 | 0.0796 |
| 525V (Δ) | 121 | 950 | 0.0935 |
| 550V (Δ) | 116 | 972 | 0.1040 |
| 1000V (Y) | 64 | 504 | 0.1087 |

*75°C @ 2KVDC/1min

PUMP PERFORMANCE

PUMP SPECIFICATIONS



| | |
|---|---|
| Motor type | Submersible squirrel-cage induction |
| Pump type | Submersible centrifugal |
| Ingress Protection Rating | IP68 |
| Insulation Class | Class H (IEC 85) |
| Motor protection | Stator thermistors in series |
| Earth protection | Earth diode in series |
| Max allowable consecutive restarts per hour | 15 |
| Discharge connection (AUS Std) | 150mm (6") EN1092-2-T9 |
| Cable type (AUS Std) | Type 241.1 screened mining 50mm ² x3+Ex3+Px1 |
| Cable length (AUS Std) | 15m (50ft) |
| Zinc anodes | Fitted as standard ex works |

MATERIAL SPECIFICATIONS

| | | |
|------------------|----------------|---|
| Outer casing | Stator housing | EN1561 GJL-200 grey cast iron |
| Bearing housing | Oil housing | |
| Diffusers | Suction covers | |
| Oil housing | Diffusers | Co-polymer polyurethane wear protection |
| Suction covers | | |
| Impellers | | Stainless steel |
| Mechanical seals | | 316 Stainless steel / Viton + Tungsten / Silicon carbides |
| Rotor shaft | | Duplex Stainless steel |
| O-rings | | NBR + Hi-temp HNBR + Viton |
| Strainer | | 316 Stainless steel |

APPLICATION SPECIFICATIONS

| | |
|----------------------------|---|
| Maximum submerged depth | 75m (246ft) |
| Max liquid temperature | 40°C (104°F) |
| Allowable pumped liquid pH | 6-11 |
| Maximum liquid density | 1,100 kgm ³ (68 lbsft ³) |
| Maximum spherical solid Ø | 10mm (3/8") strainer hole |