



## A COMPLETE DEWATERING SOLUTION



### DEWATERING PROJECTS SALES- PUMPS & ACCESSORIES RENTAL, DRILLING AND SERVICES

Janoub Al Gharbi Trading & Contracting  
P.O.Box 1791, Al Jubail 31951, Kingdom of Saudi Arabia  
TEL:+966133441263, FAX:+966133614832  
Email: [dewatering@jag.com.sa](mailto:dewatering@jag.com.sa)  
[www.jag.com](http://www.jag.com)

Vendor Code  
Saudi Aramco - 10043968      SABIC - 507202



# KIRLOSKAR ENGINE

Enriching Lives

HA294



HA394



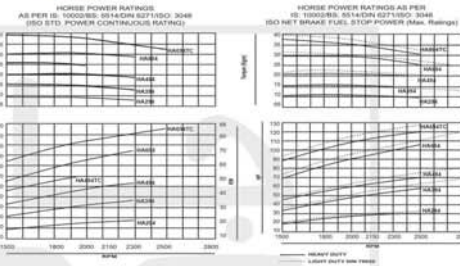
HA494



HA694



| Engine | rpm   | kW    | HP    | Nm    | Torque Kg-m |
|--------|-------|-------|-------|-------|-------------|
| HA294  | 1500  | 16.5  | 23    | 90    | 9.15        |
|        | 2000  | 18.4  | 25    | 97    | 9.95        |
|        | 2300  | 20.2  | 27.5  | 94    | 9.55        |
| HA394  | 1500  | 23.60 | 32.00 | 150   | 15.30       |
|        | 1800  | 28    | 38.00 | 148   | 15.10       |
|        | 2000  | 30.2  | 41.00 | 144   | 14.70       |
| 2300   | 34.80 | 47.00 | 143   | 14.60 |             |
| HA494  | 1500  | 31.80 | 43.00 | 201   | 20.50       |
|        | 1800  | 38.20 | 52.00 | 211   | 21.70       |
|        | 2000  | 48.40 | 65.00 | 193   | 19.60       |
| 2300   | 52.20 | 71    | -     | -     |             |

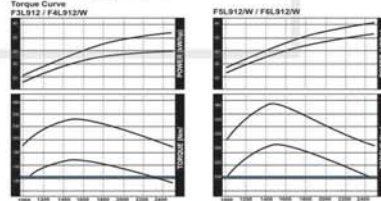


# DEUTZ ENGINE



### Technical Data

| Engine type                                  | 3                       | 4                   | 5                   | 6                   |                     |
|--|-------------------------|---------------------|---------------------|---------------------|---------------------|
| No. of cylinders                             | 3                       | 4                   | 5                   | 6                   |                     |
| Bore/stroke                                  | mm   in                 | 102/132 (4.02/5.20) | 102/132 (4.02/5.20) | 102/132 (4.02/5.20) | 102/132 (4.02/5.20) |
| Displacement                                 | l   cu in               | 3.23 (197.1)        | 4.31 (263.0)        | 5.35 (326.5)        | 6.47 (394.8)        |
| Maximum nominal speed                        | min <sup>-1</sup>   rpm | 2500                | 2500                | 2500                | 2500                |
| <b>Power Output</b>                          |                         |                     |                     |                     |                     |
| Power output as per ISO 14396                | kW   hp                 | 40/54               | 54/66 (72/62)       | 66/57 (91/76)       | 82/69 (110/93)      |
| at speed                                     | min <sup>-1</sup>   rpm | 2500                | 2500                | 2500                | 2500                |
| Max. torque                                  | Nm   ft-lb              | 186 (136.4)         | 247 (182.2)         | 308 (227.2)         | 370 (272.9)         |
| at speed                                     | min <sup>-1</sup>   rpm | 1450                | 1450                | 1450                | 1450                |
| Minimum idling speed                         | min <sup>-1</sup>   rpm | 650                 | 650                 | 650                 | 650                 |
| Specific fuel consumption <sup>1</sup>       | g/kWh   lb/hp-h         | 225 (0.370)         | 225 (0.370)         | 225 (0.370)         | 225 (0.370)         |
| Weight as per DIN 70020 Part 7A <sup>2</sup> | kg   lb                 | 277 (611)           | 307 (677)           | 380 (838)           | 430 (946)           |



## DEWATERING PUMPS

This Pump is suitable for Dewatering, Sewerage Drainage and fuel transaction. The suction and discharge is with closed type impeller with mechanical seal. (Open type impeller also available). Priming Tank is made of Mild Steel (Stainless Steel Also available) and the internal parts are of Teflon, Stainless Steel & Bronze which increase the life and efficiency of the pump. Volute Cast Iron (Stainless Steel also available) & Discharge Head Mild Steel (Stainless Steel also available) and it is designed in such a way that the shape of both helps to give better discharge. Shaft, Impeller, Stuffing box and all other internal parts made of stainless steel. We are manufacturing pumps as per the demand of the customer requirement like open impeller pumps, Electric Motors driven pumps with pneumatic 2 wheel on the road type and also solid tyre 4 wheel trolley.

## 4" PUMP SPECIFICATION

### MODEL JAG 100

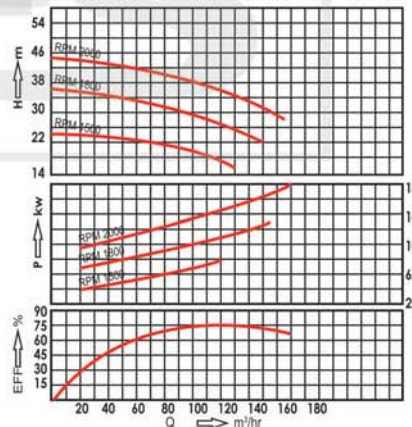
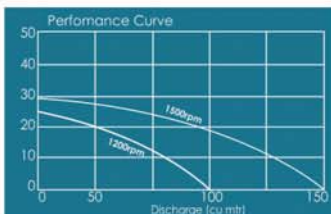
- Vacuum Lift 8 mtr
- Shaft seal Mechanical Seal
- Vacuum Capacity : 70 cfm
- Water flow : 100 - 120 m<sup>3</sup>/hr
- Suction/Discharge : 4" x 4" (100mm x 100mm)
- Total Head : 30 mtr
- Volute Housing : High Grade Cast Iron
- Pump Shaft : Stainless steel SS - 304
- Impeller : Stainless Steel SS - 304
- Stuffing Box : Mechanical seal immersed in oil bath for better efficiency & longer durability
- Priming Tank - : (i) Aluminium (Sykes Type) (ii) Stainless Steel SS 304 (Miller Type)

**Mounting :** Portable Four wheel chassis with built in fuel tank having a Fuel Capacity of 160 liters.



| DEUTZ Engine Specification |                                       |
|----------------------------|---------------------------------------|
| Engine                     | Deutz F2L912 Air cooled Diesel Engine |
| Capacity                   | 22 HP                                 |
| Speed                      | 1500 RPM                              |
| Starting                   | Electric                              |

| KIRLOSKAR Engine Specification |   |
|--------------------------------|---|
| Engine                         | KIRLOSKAR HA 294, 2 Cylinder Air cooled Diesel Engine |
| Capacity                       | 22 HP   |
| Speed                          | 1500 RPM  |
| Starting                       | Electric  |



## 6" PUMP SPECIFICATION

### Model JAG 150

|                   |   |
|-------------------|---|
| Vacuum Lift       | 9 mtr   |
| Shaft Seal        | Mechanical Seal   |
| Vacuum Capacity   | : 70 cfm  |
| Water Flow        | : 350-400 m <sup>3</sup> /hr  |
| Suction/Discharge | : 6"x6" (150mm x 150mm)   |
| Total Head        | : 40 mtr  |
| Volute Housing    | : High Grade cast Iron  |
| Pump Shaft        | : Stainless Steel SS-304  |
| Impeller          | : DIA 269 mm, Stainless Steel SS-304  |
| Stuffing Box      | : seal Immersed in oil bath for better efficiency longer durability<br>(i) Aluminium (Sykes Type)<br>(ii) Stainless Steel |
| Priming Tank      | SS-304 (Miller Type)  |

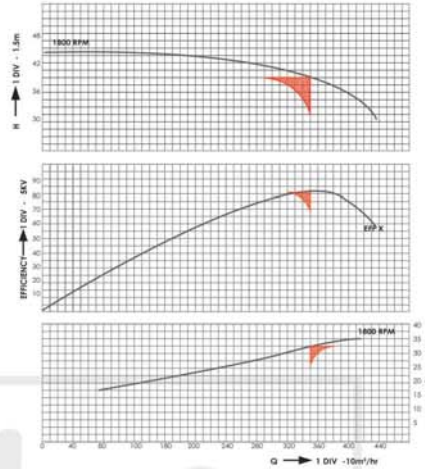
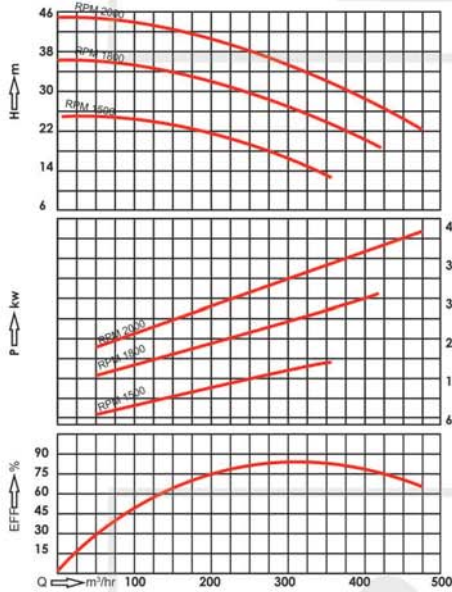
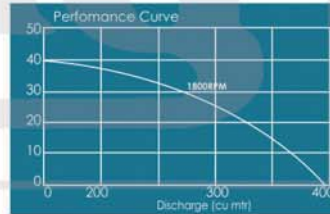
Mounting Portable Four wheel chasis with built in fuel tank having a Fuel capacity of 160 liters



### KIRLOSKAR Engine Specification

|          |   |
|----------|---|
| Engine   | KIRLOSKAR HA 394, 3 Cylinder Air cooled Diesel Engine |
| Capacity | 38 HP   |
| Speed    | 1800 RPM  |
| Starting | Electric  |

| DEUTZ Engine Specification |                                       |
|----------------------------|---------------------------------------|
| Engine                     | Deutz F3L912 Air cooled Diesel Engine |
| Capacity                   | 40 HP                                 |
| Speed                      | 1800 RPM                              |
| Starting                   | Electric                              |



## 8" PUMP SPECIFICATION

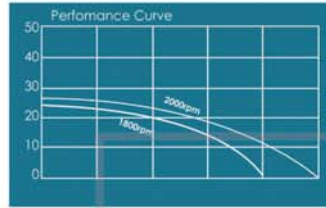
### Model JAG 200

|                   |   |
|-------------------|---|
| Vacuum Lift       | 8 mtr   |
| Shaft Seal        | Mechanical Seal   |
| Vacuum Capacity   | : 70 cfm  |
| Water Flow        | : 500-550 m <sup>3</sup> /hr  |
| Suction/Discharge | : 8"x 8" (200mm x 200mm)  |
| Total Head        | : 40 mtr  |
| Volute Housing    | : High Grade cast Iron  |
| Pump Shaft        | : Stainless Steel SS-304  |
| Impeller          | : DIA 300mm, Stainless Steel SS-304   |
| Stuffing Box      | : seal Immersed in oil bath for better efficiency longer durability<br>(i) Aluminium (Sykes Type)<br>(ii) Stainless Steel |
| Priming Tank      | SS-304 (Miller Type)  |

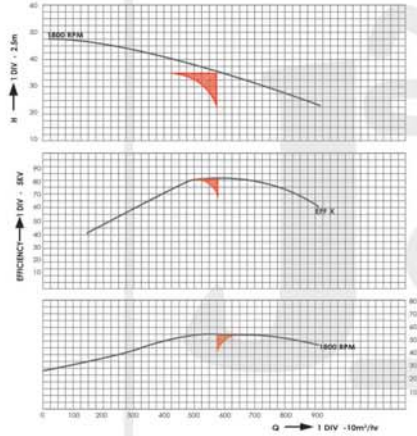
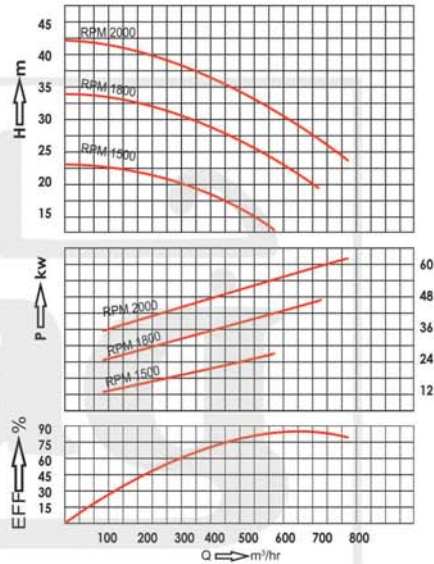
Mounting Portable Four wheel chasis with built in fuel tank having a Fuel capacity of 160 liters



| KIRLOSKAR Engine Specification |   |
|--------------------------------|---|
| Engine                         | KIRLOSKAR HA 494, 4 Cylinder Air cooled Diesel Engine |
| Capacity                       | 52 HP   |
| Speed                          | 1800 RPM  |
| Starting                       | Electric  |



| DEUTZ Engine Specification |  |
|----------------------------|--|
| Engine                     | Deutz F4 L912 Air cooled Diesel Engine |
| Capacity                   | 52 HP                                  |
| Speed                      | 1800 RPM                               |
| Starting                   | Electric                               |



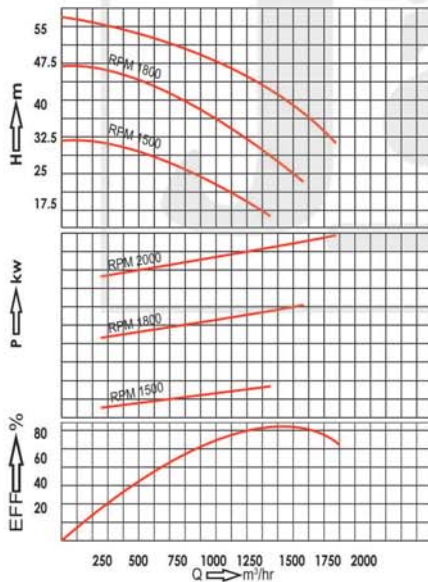
## 12" PUMP SPECIFICATION

- Model JAG 300**  
 Vacuum Lift 8 mtr  
 Shaft Seal Mechanical Seal  
 Vacuum Capacity : 70 cfm (Double Vacuum Motor)  
 Water Flow : 900-1250 m³/hr  
 Suction/Discharge : 12" x 12" (300mm x 300mm)  
 Total Head : 30 mtr  
 Volute Housing : High Grade cast Iron  
 Pump Shaft : Stainless Steel SS-304  
 Impeller : Stainless Steel SS-304 with Double Mechanical  
 Stuffing Box : seal Immersed in oil bath for better efficiency longer durability  
 Priming Tank : Mild Steel

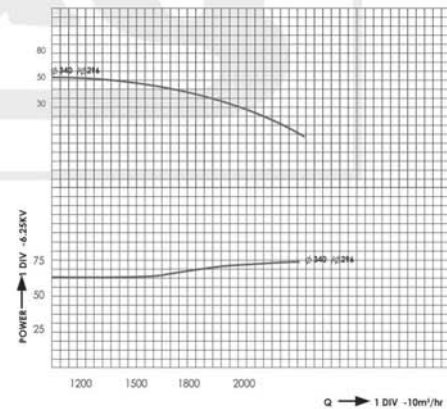
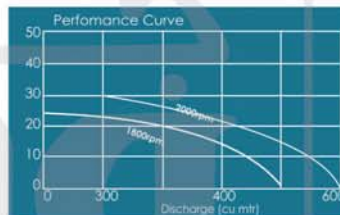


Mounting Portable Four wheel chasis with built in fuel tank having a Fuel capacity of 225 liters

| DEUTZ Engine Specification |  |
|----------------------------|--|
| Engine                     | Deutz F6 L912 Air cooled Diesel Engine |
| Capacity                   | 80 HP                                  |
| Speed                      | 1800 RPM                               |
| Starting                   | Electric                               |



| KIRLOSKAR Engine Specification |   |
|--------------------------------|---|
| Engine                         | KIRLOSKAR HA 694, 4 Cylinder Air cooled Diesel Engine |
| Capacity                       | 85 HP   |
| Speed                          | 1800 RPM  |
| Starting                       | Electric  |

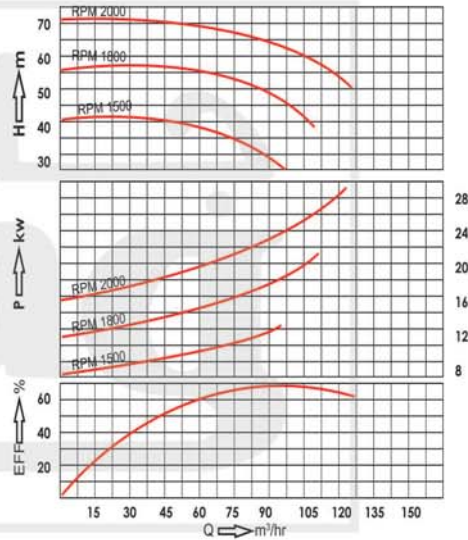


## 3" JETTING PUMP SPECIFICATION



| KIRLOSKAR Engine Specification |   |
|--------------------------------|---|
| Engine                         | KIRLOSKAR HA 394, 3 Cylinder Air cooled Diesel Engine |
| Capacity                       | 22HP  |
| Speed                          | 1500 RPM  |
| Starting                       | Electric  |

Flow 100 m<sup>3</sup> / hrs  
 Vacuum Capacity 30 cfm  
 Vacuum Lift 8 mtr  
 Capacity 34 KW  
 Working Pressure 5 to 10 bar  
 Suction / Discharge 3" x 2" (75 mm x 50 mm)  
 Total Head 40 mtr



## PISTON PUMP SPECIFICATIONS



**Model JAG 900**  
 Installed Engine Power 9.6 KW  
 Cylinder Diameter 175 mm  
 Number of Cylinders 2 nos  
 Maximum Capacity 95 m<sup>3</sup>/h  
 Maximum Head 22 mtr  
 Maximum Vacuum 9.4 mtr  
 Bare end pump weight (approx) 825 kg  
 Efficiency upto 92%  
 Shaft Sealing Gland Packing

### Pump End Material of Construction

|                         |                                |
|-------------------------|--------------------------------|
| Pump Casting            | Cast Iron, >GG20               |
| Gear Box Casing         | Cast Iron, >GG20               |
| Cylinders               | Stainless Steel, SS-304        |
| Piston Rods             | Stainless Steel, SS-304        |
| Collars                 | Special Rubber                 |
| Collar Bodies           | Moulded Glass filled Nylon     |
| Valve Seats             | Brass                          |
| Valves                  | Moulded Rubber with Steel core |
| Crankshaft              | S.G.Iron                       |
| Connecting Rods         | S.G.Iron                       |
| Valve Stem guide Screws | Stainless Steel, SS-316        |
| Studs in Pump body      | Stainless Steel, SS-317        |
| Gear wheels on crank    | Cast Steel                     |
| Pinion Shaft            | Alloy Steel                    |
| Drive Pulley            | Cast Iron, CG 20               |

**Scope of supply:- Pump fitted on structure with Kirloskar Diesel Engine- 13 HP @ 1500RPM**

## SEWAGE VACUUM PUMP SPECIFICATION

Rate of Flow Maximum 7000 LPM  
 RPM Maximum 1400 RPM  
 Working Pressure Maximum 2.5 Bar  
 Vacuum Maximum (-) 0.94 Bar  
 Power Absorption Maximum Pressure 19 KW  
 Power Absorption Maximum Vacuum 12 KW

### FEATURES

Heavy duty Ball and Taper Roller Bearings  
 Oil Sealed Sealings  
 Bed Mounted type, two way suction and pressure operating  
 Driven through Pulley and Belt for particular application on Truck

### Applications

Transport Sewage  
 Fertilizing Irrigation  
 Drainage Pumps

### Materials

Grade Cast Iron Body outer Components  
 S,G Iron Rotor  
 LS 30 Vacuum Blade - High Impact & Temperature resistant



## SUBMERSIBLE PUMP



Available with 3" (75m) to 6" (150m)

CAPACITY :30m<sup>3</sup> to 220m<sup>3</sup>  
 Total Head :32mtr to 100mtr  
 Power : 3Kw (4hp) to 30 Kw (40hp)  
 : Three Phase 380v, 60Hz/ 50Hz  
 :Single / Three Phase 400v, 60Hz/ 50Hz

### PUMP Application

Dewatering  
 Agriculture & Irrigation  
 Construction Work  
 Mines, Quarries, Coal ore & Slurries  
 Sewage treatment plants  
 General Pumping purpose

## BOOSTER PUMP 8" X 6"

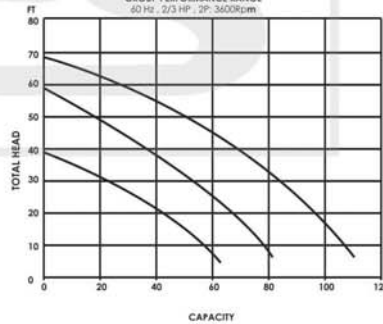


### Air Cooled Diesel Engine

Capacity 34 kw  
 Speed 2000 rpm  
 Starting Electric

#### GROUP PERFORMANCE RANGE

60 Hz - 2/3 HP - 2P, 3600rpm



Suction & Discharge 150 mm \* 150 mm  
 Flow 300 m<sup>3</sup>/hrs  
 Total Head 30 mts  
 Volute Housing Cast Iron  
 Impeller Stainless Steel  
 Pump Shaft Stainless Steel  
 Shaft Seal Mechanical Seal



A COMPLETE DEWATERING SOLUTION

