



# JJ TRADING (FZE)

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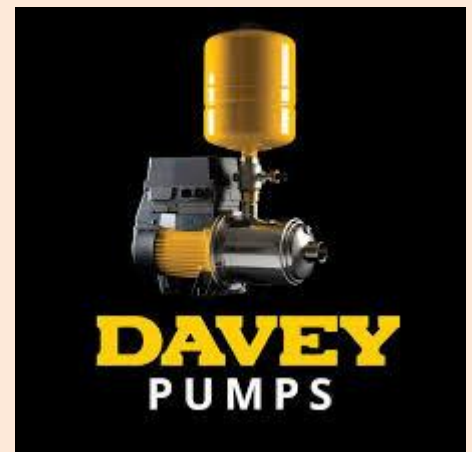
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مجمع الشارقة للبحوث  
والتكنولوجيا والابتكار  
Sharjah Research Technology  
and Innovation Park



## PUMP SUPPLIER COMPANY PROFILE



OUR TECHNICAL, YOUR SUCCESS.  
EMAIL: JJTRADING77@GMAIL.COM

## **PRODUCTS LIST- PUMP DIVISION**

**Supply of all type of water pumps & packaged pump sets**

**Fabrication of all type of water pump sets, as per the client' specification**

**Prompt repair & maintenance of pumps and packaged pump sets at site**

### **WATER PUMPS**

#### **Pumps Brand & Make**

**GRUNDFOS - DENMARK**

**ARVEN – ITALY**

**ESPA - SPAIN**

**SPERONI - ITALY**

**NOCCHI – ITALY**

**SAER - ITALY**

**LOWARA - ITALY**

**EBARA - ITALY**

**ALL OTHER PUMPS AS PER YOUR SPEC.**

**ALL OTHER PACKAGED SETS AS PER YOUR SPEC**

#### **TYPES OF PUMPS:**

**Vertical multistage inline centrifugal pumps**

**Horizontal Multistage end-suction pumps.**

**Vertical inline single-stage pump**

**Horizontal end-suction close-coupled and long-coupled Single stage pump**

**Sump Pump**

**Drainage pumps**

**Sewage Pumps**

**Cutter Pumps**

**Borehole pumps**

## **CLASSIFICATION BASED ON PROJECT APPLICATIONS**

**Transfer pump set**

**Booster pump set**

**Circulation pump set**

**Chilled water pump set**

**Pressurization unit.**

**Sump pump set**

**Sewage pump set**

**Borehole pumps**

**Irrigation pump set**

**Hot Water Circulation pump set.**

## **OTHER TYPES**

**Half hp pump.**

**One hp pumps.**

**2 hp pumps.**

**Diesel Water pumps**

**Petrol water pumps**

**Dewatering pumps**

**Swimming Pool Pumps**

## **PUMP DIVISION**

Pump Division caters to the requirement of pumping system of the contractors. Contractors can be broadly classified into MEP contractors, Irrigation contractors, Air conditioning contractors, STP contractors, Swimming pool contractors etc. Though the general assembly and materials used are similar, the logic of operation differs from case to case basis. Depending upon application, the packaged pump sets are divided into the following categories.

### **BOOSTER PUMPS**

These are used to increase the pressure of the water being pumped. As an example, take the case of a four-storied building, where water tank is situated on the top of the roof. The pressure of water will be sufficient up to the third floor, but the top floor will not have enough pressure. Here we have to fix a pump to increase the pressure. In some cases, it will not be possible to construct a water tank on the roof due to various reasons. In such cases we have to install a pump to provide water to all out lets. For irrigation pumps also the basic principle is the same, however, we have to increase the pressure which is compatible with the sprinklers, drip, solenoid valve etc used for irrigation.

### **COMPONENTS**

As an illustration, take the case of a booster set consisting of 2 pumps. The function of various elements is given below

#### **PUMPS**

Machine to increase the pressure

#### **PRESSURE SWITCH**

Digital sensor to give on and off command to the control panel (and in turn to the pump)

#### **PRESSURE VESSEL**

This is a pre charged tank either metallic or fiber glass, with a rubber bladder inside. When in operation, water enters into the bladder. The pressure of water inside is balanced by the backpressure of air in the tank.

The function of pressure vessel is (1) to keep the line pressurized, so that the fluctuation of pressure inside the manifolds are minimized (in order that pressure switch will not get erratic signals) and (2) to control the number of starts and stops of the pump by supplementing the water it carries.

## **VALVES**

To control the flow

## **PRESSURE GAUGE**

To note the pressures

## **FLOAT SWITCHES**

These are used to stop the pump automatically, when there is no water in the suction tank (dry run protection.) Manifolds: to provide a common path for the suction and discharge of each pump.

## **CONTROL PANEL**

This provides the logic of operation for the pumps. It mainly contains main circuit breakers, control cbs, contactors, over load relays, auxiliary relays, timers etc.

## **BASE FRAME**

All the above components are assembled on a common base frame and supplied as one unit.

## **TRANSFER PUMPS**

This is used to lift water from one tank to another, may be from a ground tank to an overhead tank. The construction is similar to the booster pumps, with some variations. Here pressure switch and pressure tank are absent. The operation of the pumps is controlled by either the float switch kept on the OH tank or timers. If the pump is controlled by float switch, the pump will start when float is at a lower level and stop when it is at higher level. If the pumps are controlled by timers, the pump will continue to work as per the timer settings.

## **CHILLED WATER PUMPS**

They are used in AC application. In multistoried buildings, air conditioning is based on chilled water principle. Chilled water pumps circulate the water through the pipes and heat exchanger. They are generally large end suction or Horizontal split casing pumps running at 1450 rpm. The pumps are coupled to the motors and supplied as one unit.

## **SEWAGE PUMPS**

These pumps are used for emptying sewage pit, storm water or drainage applications. There are different types of sewage pumps. Sewage pumps are used for building services and treatment plants. Generally pumps are supplied with a control panel that is different from the above-mentioned panels. Four float switches, placed at different levels in the tank, control the logic of operation. The panels are fitted with audiovisual alarms.

## **SWIMMING POOL PUMPS**

Swimming pool pump can be classified into two. (1). The pumps used for re-circulation and filtering. These pumps are normal pumps with a strainer attached to the suction. (2). Heat pumps. These are used to control the temperature of water in the pools. During summer, it will cool the water and during winter it will heat the water. Apart from this, heat pumps are used in villas for cooling the water inside their tank. We have a good range of heat pumps.