

# 6" Dewatering Pump

## Model:CDW1206UH

### 90kW

These pumps are suitable for dewatering, over pumping sewage, drainage pumping, and chiller plants. The discharge is 6 inch with Impeller 316L with mechanical seal (Tungsten Carbide).

At Cosmos, we understand pumps, their application, and most importantly, the people using them. We have a complete range of Submersible, Sewage, Slurry, Flood Control diesel and electric-driven pumps that offer durability and long life. The modular design delivers flexibility in packaging. And, easy servicing of worn components means less downtime and more pumping without stopping.

#### Pump Specifications

Pump Make	COSMOS PUMPS	
Pump Model	CDW1206UH	
No. of Pole & Phase	2 & 3	
Motor Rating (Kw/hp)	90 Kw/ 120 Hp	
Frequency (Hz)	50Hz	
No. of Stange	2	
Maximum Depth	25 Mtr	
Perfomance	RPM	2950
	Discharge	210 m3/hr
	Total Head	198m

#### Material Of Construction

1. All Wet Parts SG 500/7
2. Impeller 316L
3. Dual Class Winding
4. 6 Wire Data Cable
5. Tungsten Carbide Mechanical Seal
6. Stainless Steel Mesh
7. Cable Length 10 mtr (35mm X 4) For DOL Twin Cable Optional for Star Delta

#### Additional Protection

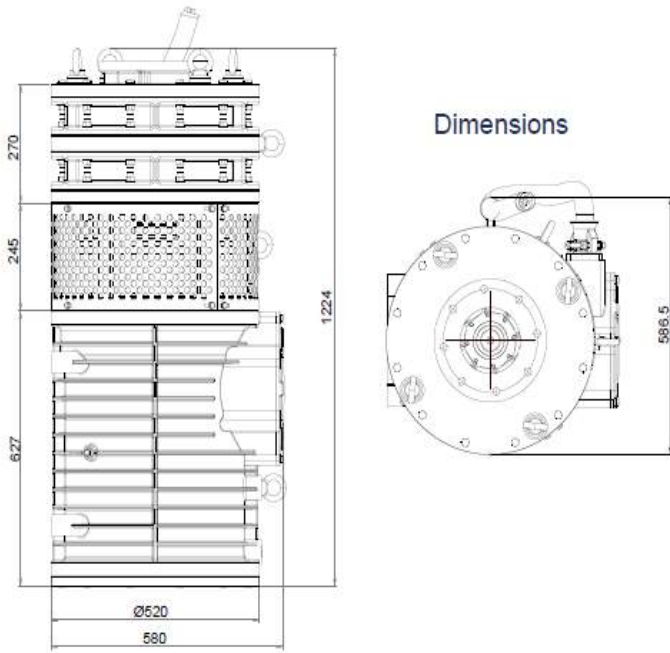
1. Temeptrature Sensor
2. Moisture Sensor
3. Four Bearing System

#### Control Panel

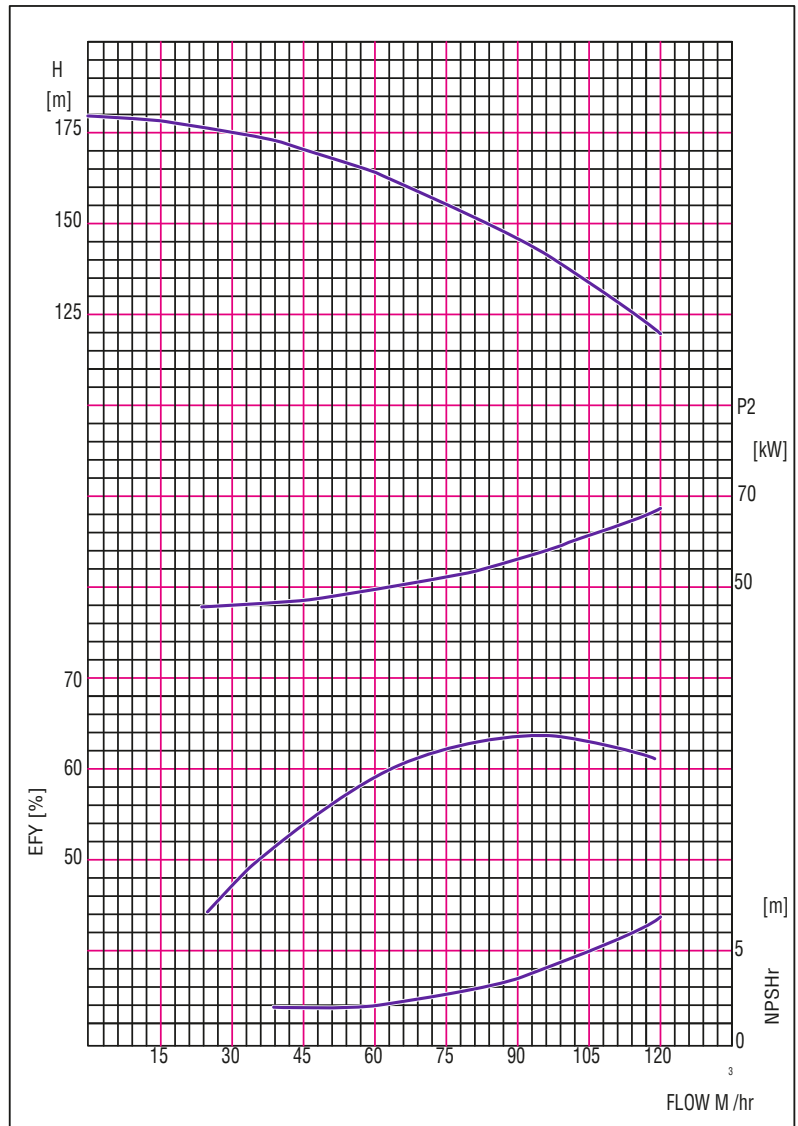
1. VFD Based System
2. Temperature Relay for Auto Cut Off
3. Warwick Moisture Sensor Cum Relay



# GAD Drawing Dimension



# Performance Curve



# Pump Parts Description

## CDW Series, Ultra High Head

- POWER CABLE** - 100% Water & Oil proof, PVC insulated, double sheathed, copper conductor flexible cable of 15 meters length.
- EASE OF HANDLING** - Lifting Hook (SS316) provided for ease of access while operations.
- ENHANCED PERFORMANCE** - SS316 diffuser & bronze wear rings makes the pump efficient & improves efficiency day to day on continues running.
- RUST PROOF** - Anti-Corrosive Stainless Steel Strainer.
- BALL BEARING** - 5 bearing system includes radial & taper roller bearing are filled with high temperature greases containing special anti-corrosive additive & can withstand radial and axial thrust which ensure long life and makes it suited for extreme working conditions.
- IMPROVED ABRASIVE RESISTANCE** - All rubber parts are made up of Viton rubber which can withstand saline water & can also be used where containment of abrasive particles are more.
- NATURALLY COOLED** - As motor is naturally cooled thus overall efficiency is more & probability of failure is less.
- DATA CABLE** - 7 core x 1.5 sq. mm cable embedded with 3 warnick (JSA) sensor of which one is in motor one is mechanical seal & one temperature sensor for overhaul protection for inclusion of foreign material.
- HIGH WEAR RESISTANCE** - 2-Stage Impeller in SS316 grade which resists wear & tear caused by abrasive particles & enables pump for extended performance.
- MULTI STAGE PUMP** - 2 stage Ultra High Head Pump for dewatering purpose upto 200m.
- MODULAR SEALING SOLUTION** - Dual SIC vs SIC mechanical & Oil seal, which offers double sealing, reliability and Zero leakage into motor in abrasive & muddy environment. Therefor, reducing the risk of failure & ensure long life between service intervals.
- FLEXIBLE DEPLOYMENT** - It can be installed and used in vertical as well as Horizontal position.
- ANTI-CORROSIVE** - High torsional strength shaft (S5431).
- MOTOR PROTECTION** - H class insulation winding (temperature rise to 180C) embedded with thermal sensor in stator winding which protects the motor in the event of excessive high temperature.

**Note:** We are manufacturing pumps as per the demand of the customer requirements: Open Impeller pumps, Electric motor driven pumps, with 2/4 wheel types, skid mounted types silenced canopy and MOC according to customer requirements. For pumping range upto flow 3500m<sup>3</sup>/Hr & head upto 200m.

## ASIAN PRESENCE

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