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**lives**  
for **better**

**DARLING**  
PUMPS GROUP **DARLING**  
**PUMP**   
*Designing SMART pumping solutions...*

# Dewatering Pumps

Simplified dewatering...



DJC Series



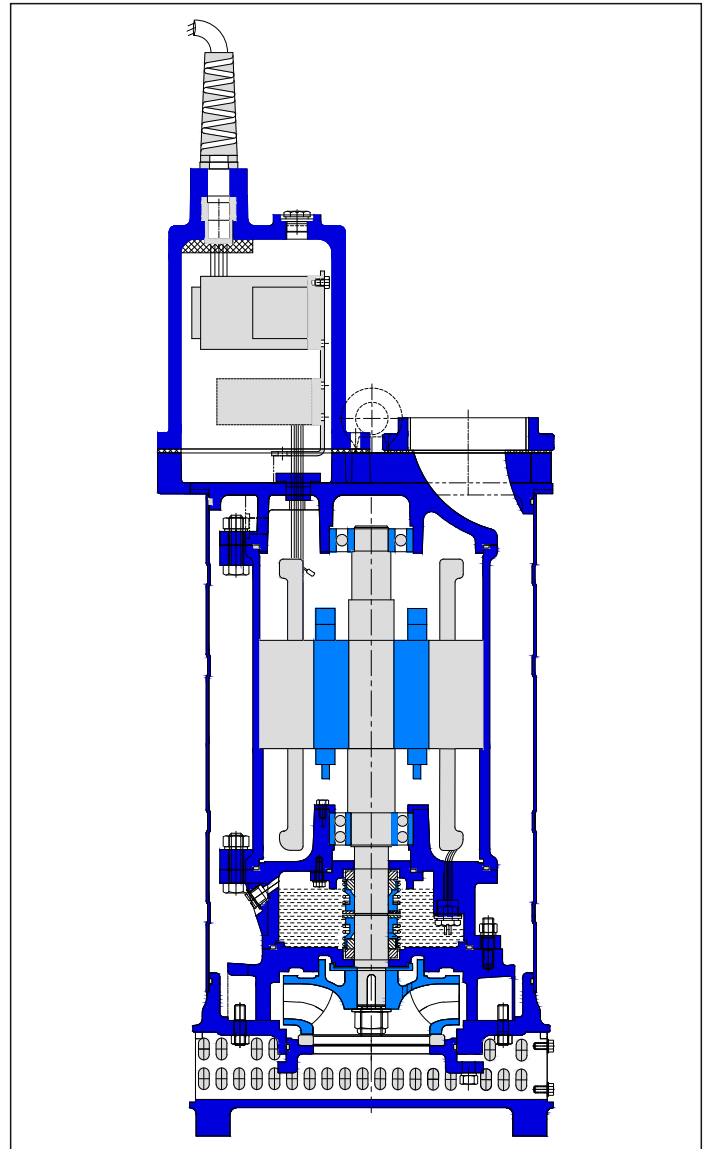
DEWATERING

# DJC Series : Features & Dimensions

## Features

- **Inbuilt Controller** - Protection against dry running, overloading, mechanical jamming etc.
- **Impeller** - Wear Resistant SS Impeller with wide passages that can pass solid up to 16mm.
- **Motor** - Motor capable to withstand wide voltage fluctuations, Highly efficient dry motors with built-in protection against temperature rise.
- **Shaft** - Shaft not exposed to pumpage liquid.
- **Efficiency Restoration System** - Adjustable Neckring / Wear ring to restore pump efficiency.
- **Mechanical Seals** - Dual mechanical seal, independent of discharge pressure, thus providing improved seal life.
- **Bearing** - Heavy duty ball bearing used at top and bottom ends to balance adverse load.
- **Seal-Guard Protection** - Additional protection for Mechanical Seal by seal guard.
- **Cable Sealing** - Special leak proof cable sealing arrangement to avoid ingress of water through cable. No need to open motor for changing cable.
- **Modular Design** - Option of pump portion interchangeability in given rating as per head/flow requirement.
- **Cooling** - Run-through cooling for better heat dissipation & low minimum submergence.

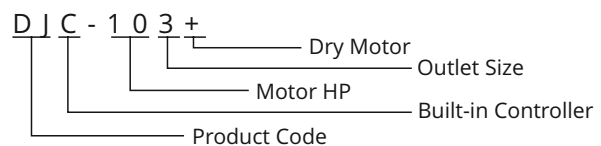
## Cross Sectional View



## Denominations

Product Code	DJC
Installation	Vertical / Portable
Impeller Characteristic	Radial / Nonlog
Discharge Connection	65/80/100 mm

## Nomenclature



## Dimensions

PUMP MODEL	HP/KW	RPM	OUTLET/DN SIZE	SOLID PASSAGE	MIN. SUB.	WIDTH (Approx.)	HEIGHT (Approx.)	NET WT. (kg)*
DJC-32+	3/2.2	2900	65	8	100	270	722	47
DJC-33+	3/2.2	2900	80	16	120	270	735	47
DJC-52+	5/3.7	2900	65	8	100	270	722	49
DJC-53+	5/3.7	2900	80	16	120	270	735	49
DJC-72+	7.5/5.5	2900	80	8	110	270	770	62
DJC-73+	7.5/5.5	2900	80	16	110	270	770	62
DJC-74+	7.5/5.5	2900	100	16	150	340	808	70
DJC-102+	10/7.5	2900	80	8	110	270	830	67
DJC-102SP+	10/7.5	2900	65	8	110	270	830	67
DJC-103+	10/7.5	2900	80	16	110	270	830	67
DJC-104+	10/7.5	2900	100	16	150	340	870	80

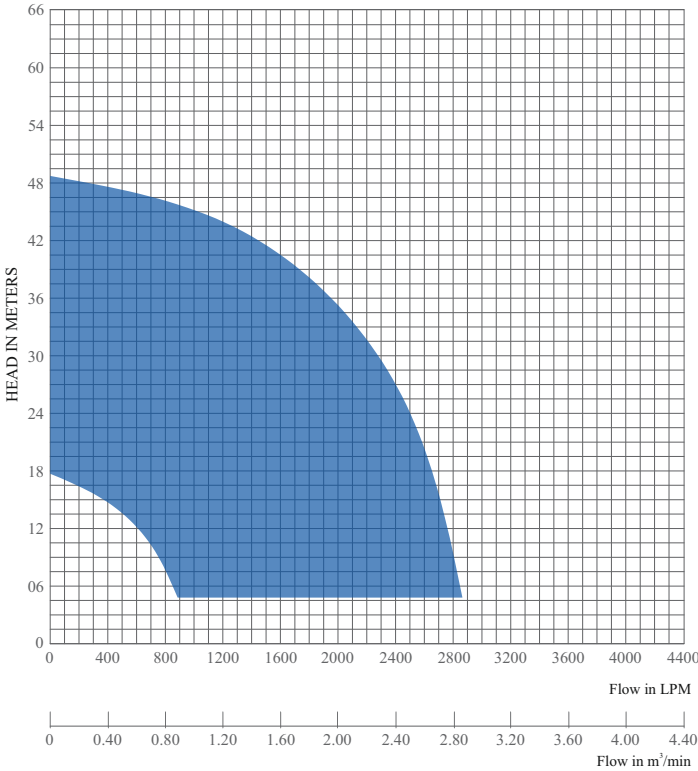
\* without cable

Note: All dimensions are in millimeter (mm).

# DJC Series : Technical Specifications & Performance

## Performance (Range)\*

(Upto 10 HP / 49M Head / 2850LPM Flow)



**\* We offer fully customised pumps for your specific needs and applications**

## Tech. Specifications\*

<b>Rating</b>	: Up to 10HP
<b>RPM</b>	: 2900 (nominal)
<b>Frequency</b>	: 50Hz
<b>Supply</b>	: Three Phase - 415 V
<b>Starting</b>	: DOL
<b>Motor</b>	: Dry Type

## Process Data

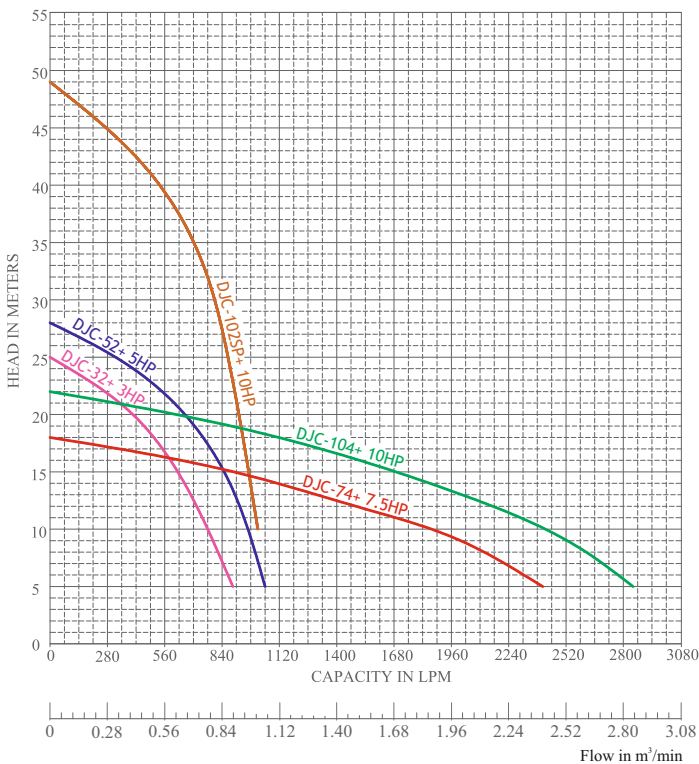
Liquid Temperature	Max 40°C
Liquid Density	Max 1100 kg/m <sup>3</sup>
Suitable for Liquid pH	6 to 8
Strainer Hole Size	Up to 16 mm

## Materials\*

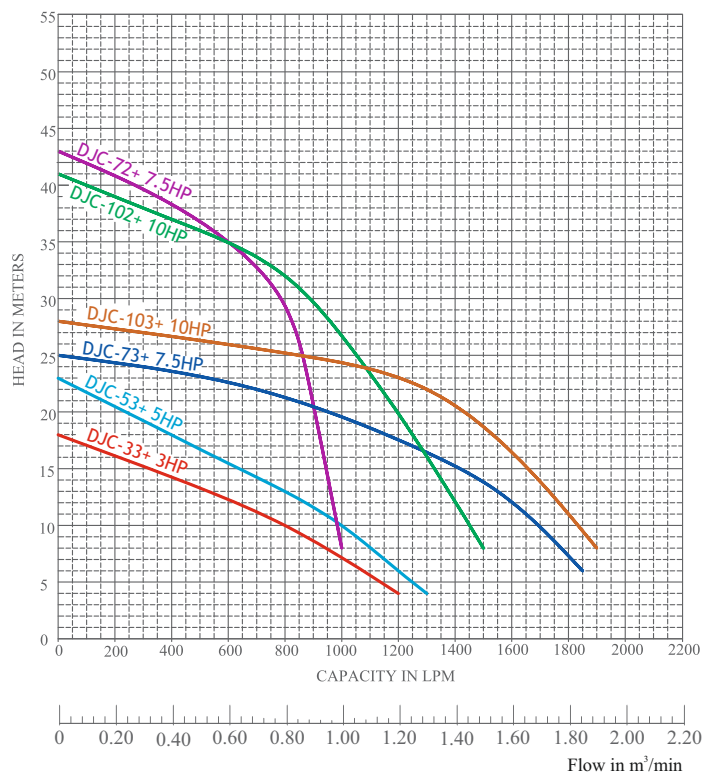
Impeller	: CA-15, CF8, CF8M
Shaft	: AISI-410, SS-304, SS-316
Difusser	: Various grades of CI / AL / SS
Wear Plate	: Various grades of CI / SS
Mech. Seal	: Sic v/s Sic, Tc v/s Tc

**\* Option of complete pump in special MoC is also available**

### Performance for Pump in DN-65/100mm



### Performance for Pump in DN-80mm



# User Industries and Applications



## Building Services

- Storm water pumping
- Basement sump dewatering
- Landscaping
- Fountains
- Waterfalls
- Horticulture & irrigation projects



## Civil and Infra Sector

- Road building
- Bridge building
- Tunneling projects
- Metro rail projects
- Airport Authorities
- Industrial infrastructure



## Industrial Sector

- Dewatering of contaminated water with sediments
- ZLD projects
- Utility applications
- Cooling towers
- Hot water Pumping
- Extraction of water from rivers, lakes, reservoirs, ponds etc.



## Municipal & Govt. Sector

- Emergency storm water pumping
- Flood relief applications
- Dewatering of under passes and tunnels
- River linking projects
- Dam site dewatering
- PHED's , PWD's and CPWD's

## Options

- Pumps can be offered without controller arrangement.
- Option of pump with oil filled motor.
- Pumps can be offered for 60Hz.
- Variety of MOCs to choose from.
- Special series of pumps for pumping hot water.
- Special series of pumps for saline water pumping.

## Recommendations

- Always flush the pump with clean water after use.
- In case of maintenance always use Genuine Spares.
- Ensure use of proper control panel for proper safety & running of Dewatering pumps.
- Always ensure that pump is properly earth.

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