

Changing  
**lives**  
for **better**



**DARLING**  
**PUMP**

*Designing SMART pumping solutions...*

# Dewatering Pumps

Simplified pumping...



LJ Series



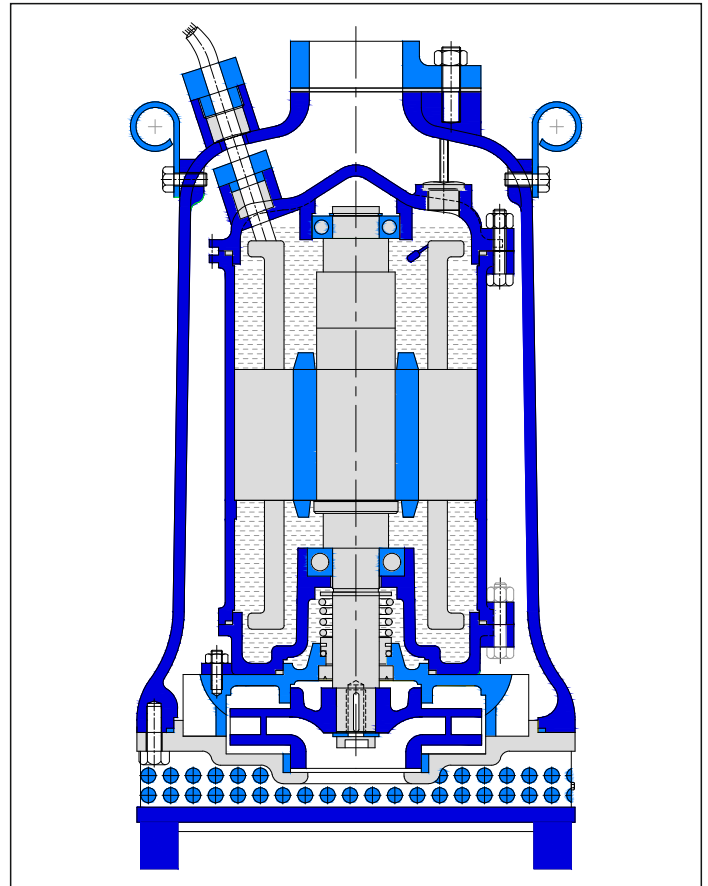
DEWATERING

# LJ Series : Features & Dimensions

## Features

- **Impeller** - Specially designed highly efficient, wear resistant impeller.
- **Motor** - Highly efficient oil filled motor, better heat dissipation.
- **Mechanical Seals** - Dual mechanical seal, independent of discharge pressure, thus provide improved seal life.
- **Bearing** - Heavy duty ball bearing used at top and bottom ends to balance adverse load.
- **Water Proof Winding** - Quick & easy maintenance, Rewindable at site with minimal facility hence lesser down time..
- **Shaft** - Extra heavy duty SS shaft not exposed to pumpage liquid.
- **Thermostat** - Inbuilt protection against temperature rise.
- **Jacketed Design** - Run-through cooling for better heat dissipation & low minimum submergence.
- **Portable** - light-weight & modular design for better handling.

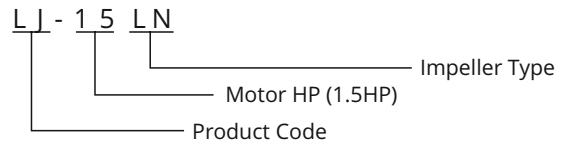
## Cross Sectional View



## Denominations

Product Code	LJ
Installation	Vertical / Portable
Impeller Characteristic	Radial / Nonclog
Discharge Connection	25/40/50 mm

## Nomenclature



## Dimensions

\* without cable

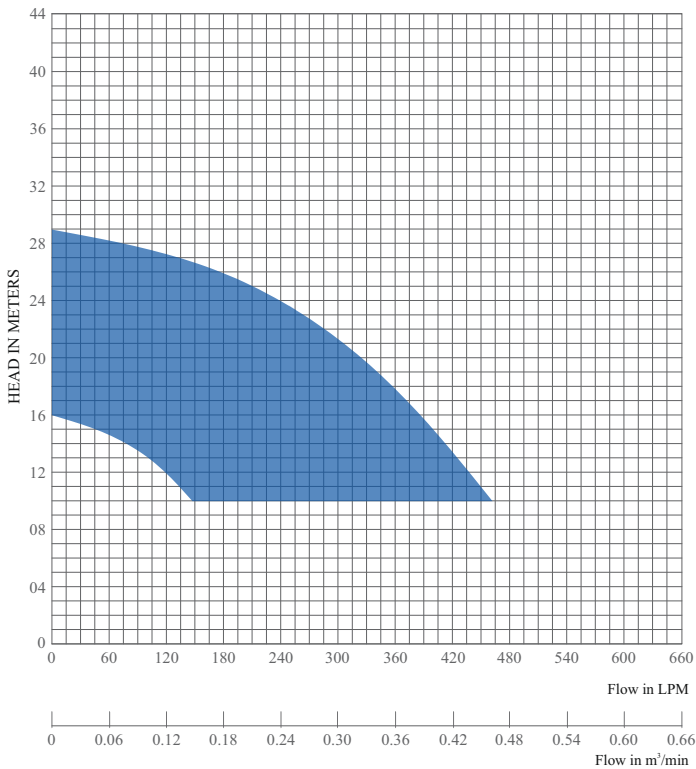
PUMP MODEL	HP/KW	RPM	OUTLET / DN SIZE (mm)	SOLID PASSAGE (mm)	MINIMUM SUBMERGE (mm)	WIDTH (Approx.) (mm)	HEIGHT (Approx.) (mm)	NET WEIGHT (kg)*
LJ-75H	0.75/0.55	2780	25	3	85	256	485	26
LJ-75LN	0.75/0.55	2780	50	6	85	234	445	25
LJ-10H	1.0/0.75	2790	25	3	85	256	485	26
LJ-10LN	1.0/0.75	2790	50	6	85	234	445	25
LJ-15H	1.5/1.1	2800	40	3	85	256	485	28
LJ-15LN	1.5/1.1	2800	50	6	85	234	445	27
LJ-20H	2.0/1.5	2800	50	3	85	256	485	29
LJ-20LN	2.0/1.5	2800	50	6	85	234	445	28

Note: All dimensions are in millimeter (mm).

# LJ Series : Technical Specifications & Performance

## Performance (Range)\*

(Upto 2 HP / 29M Head / 465LPM Flow)



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

## Tech. Specifications\*

Rating	: Up to 2HP
RPM	: 2900 (nominal)
Frequency	: 50Hz
Supply	: Three Phase - 415 V
Starting	: DOL
Motor	: Wet type

## Process Data

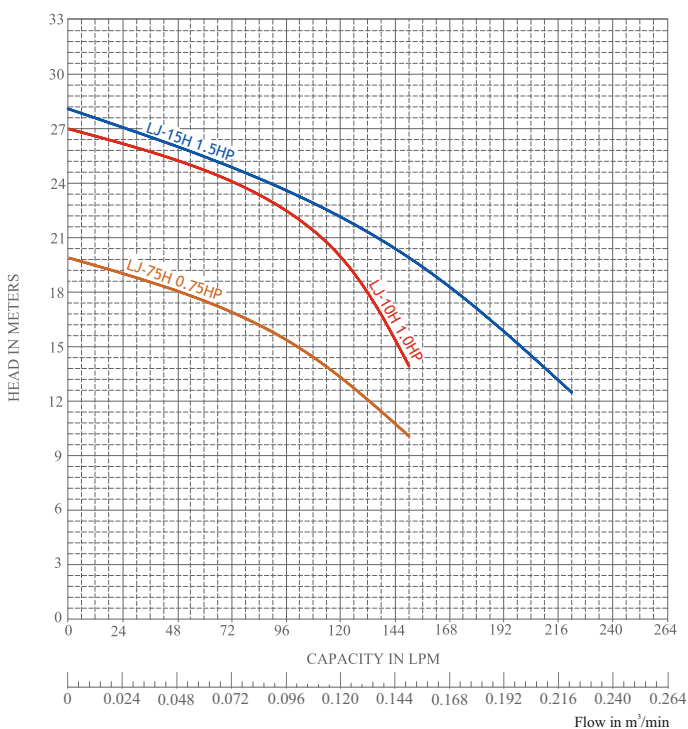
Liquid Temperature	Max 40°C
Liquid Density	Max 1100 kg/m³
Suitable for Liquid pH	6 to 8
Strainer Hole Size	Up to 6 mm

## Materials\*

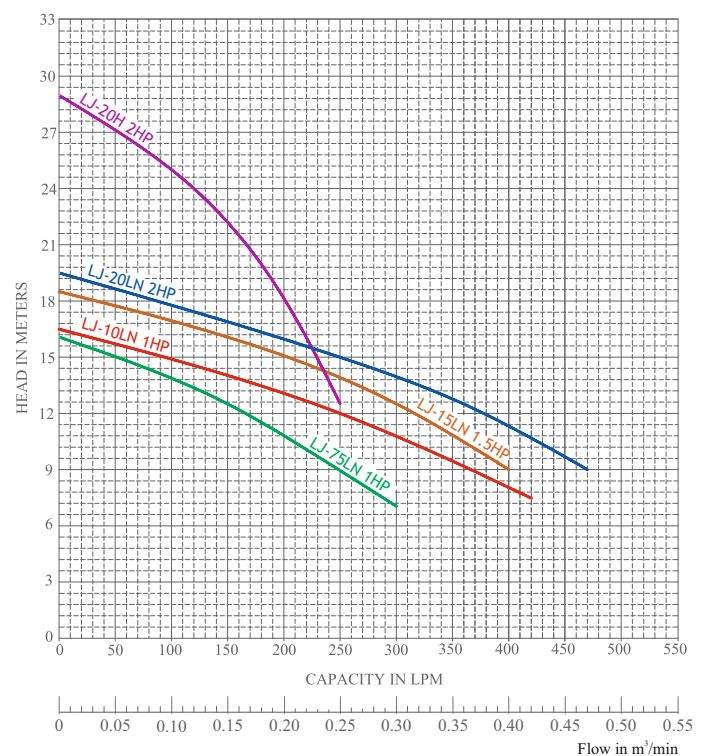
Impeller	: CI / Various grades of SS
Shaft	: EN8 / Various grades of SS
Difusser	: Various grades of CI / AL / SS
Wear Plate	: Various grades of CI / SS
Mech. Seal	: Sic v/s Sic, Tc v/s Tc

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

### Performance for Pump in DN-25/40mm



### Performance for Pump in DN-50mm





# 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

- Option of pumps with inbuilt agitator arrangement.
- 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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Channel Partner :

# Dewatering Pumps

Simplified dewatering...



DJC Series



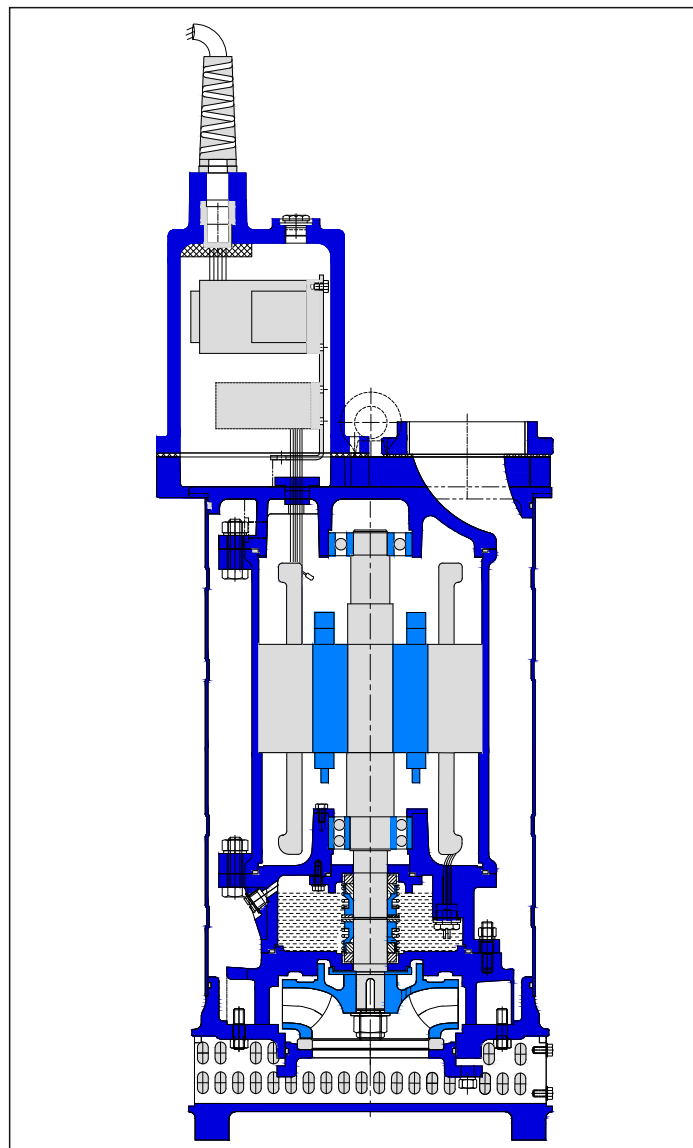
DEWATERING

# 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.

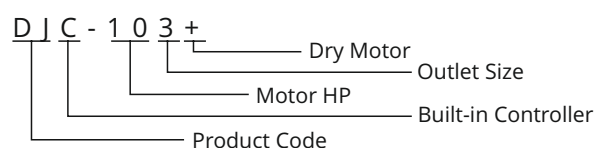
## Cross Sectional View



## 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

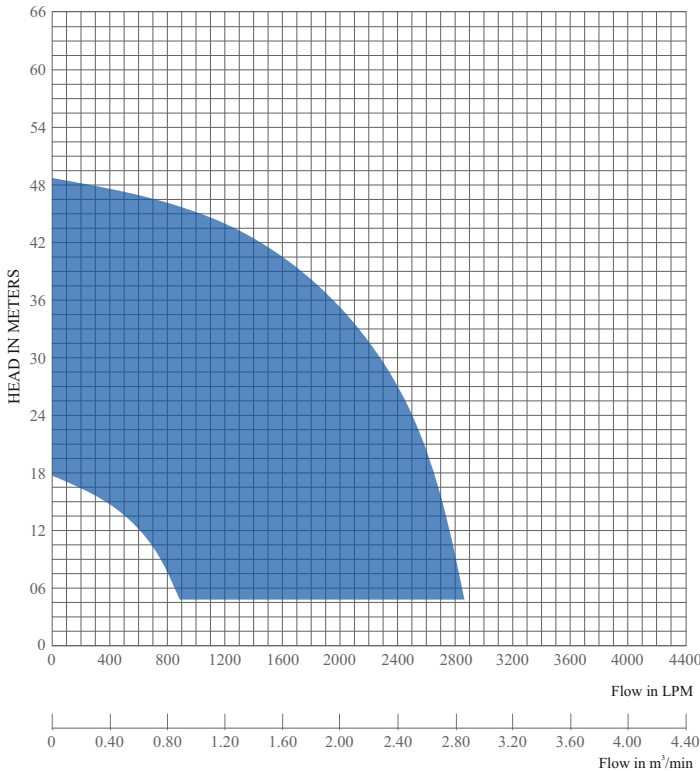
Note: All dimensions are in millimeter (mm).



# 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\*

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

## Process Data

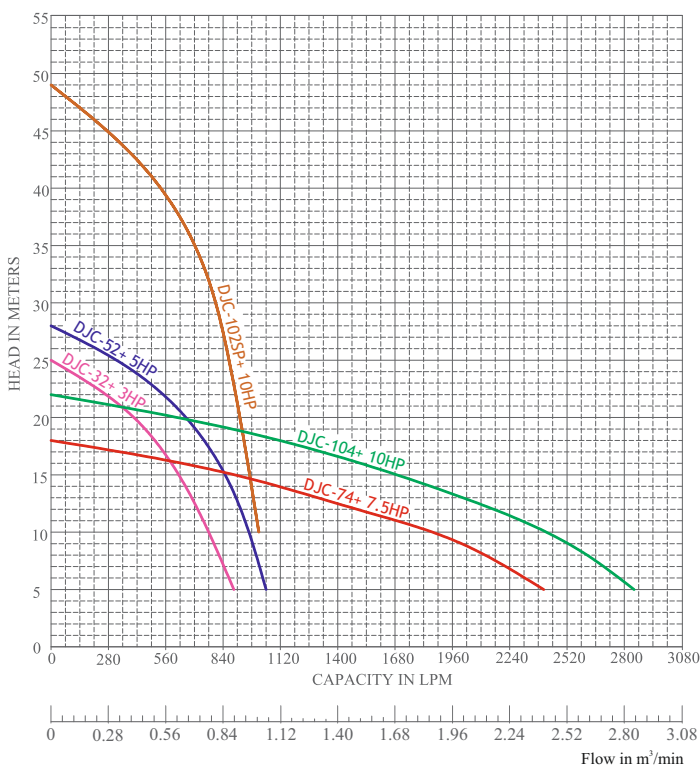
Liquid Temperature	Max 40°C
Liquid Density	Max 1100 kg/m³
Suitable for Liquid pH	6 to 8
Strainer Hole Size	Up to 16 mm

## Materials\*

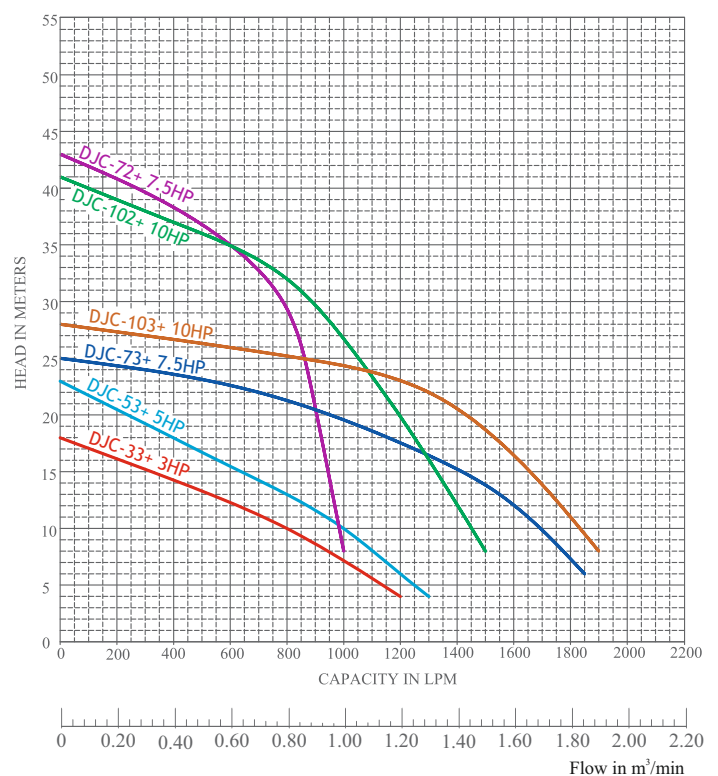
Impeller	: CA-15, CF8, CF8M
Shaft	: AISI-410, SS-304, SS-316
Difusser	: Various grades of CI / AL / SS
Wear Plate	: Various grades of CI / SS
Mech. Seal	: Sic v/s Sic, Tc v/s Tc

**\* 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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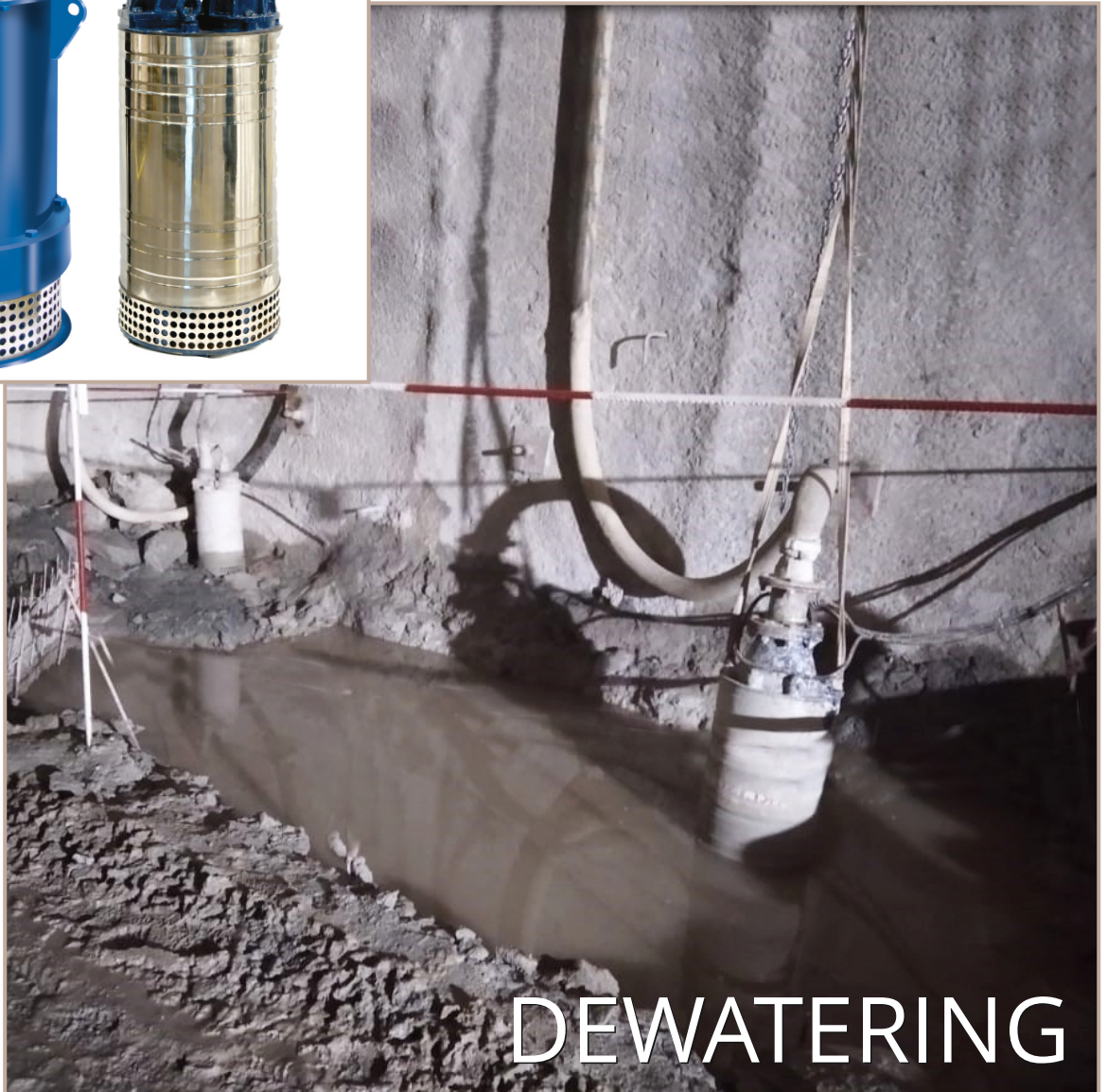


# Dewatering Pumps

Simplified dewatering...



DJ Series

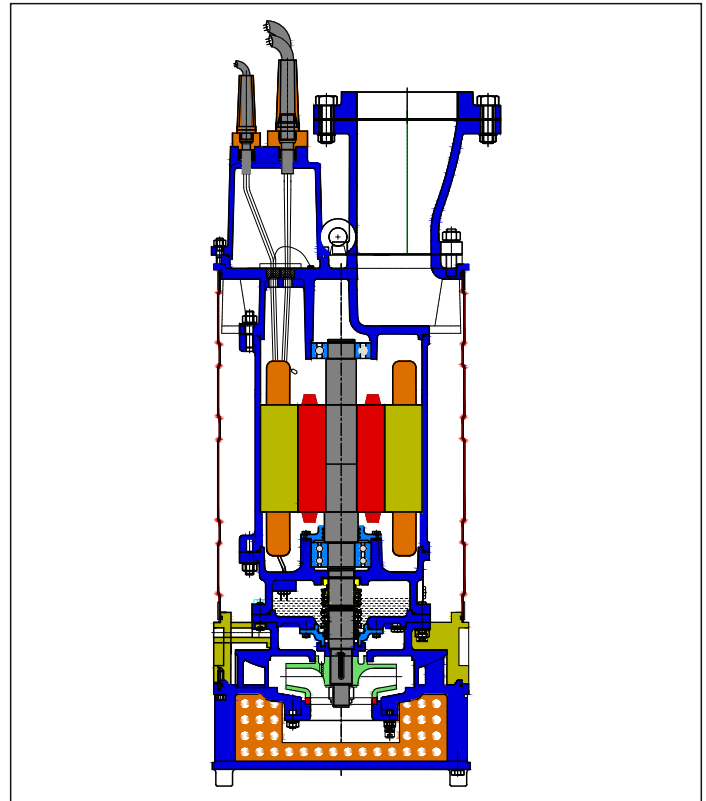


# DJ Series : Features & Dimensions

## Features

- **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** - Extra heavy duty SS shaft not exposed to pumpage liquid.
- **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.
- **Cooling** - Run-through cooling for better heat dissipation & low minimum submergence.

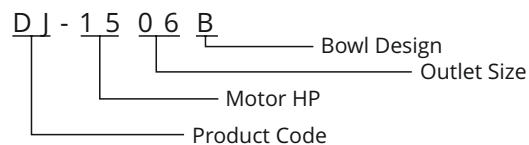
## Cross Sectional View



## Denominations

Product Code	DJ
Installation	Vertical / Portable
Impeller Characteristic	Radial / Nonclog
Discharge Connection	100/150 mm

## Nomenclature



## Dimensions

PUMP MODEL	HP/KW	RPM	OUTLET/DN SIZE	SOLID PASSAGE	MIN. SUB.	WIDTH (Approx.)	HEIGHT (Approx.)	NET WT. (kg)*
DJ-1504	15/11	2900	100	8	180	390	1000	227
DJ-1506	15/11	2900	150	16	180	435	1040	227
DJ-1506B	15/11	2900	150	16	200	435	1030	247
DJ-2004	20/15	2900	100	8	180	390	1035	257
DJ-2004H	20/15	2900	100	8	180	390	1025	260
DJ-2006	20/15	2900	150	16	180	435	1080	257
DJ-2006B	20/15	2900	150	16	200	435	1070	277
DJ-2504	25/18.5	2900	100	8	180	390	1055	265
DJ-2506	25/18.5	2900	150	16	180	435	1110	265
DJ-2506B	25/18.5	2900	150	16	200	525	1100	285
DJ-3004	30/22	2900	100	8	180	390	1055	270
DJ-3006	30/22	2900	150	16	180	435	1110	270
DJ-3006B	30/22	2900	150	16	200	525	1100	290
DJ-3504	35/26.1	2900	100	8	180	390	1085	275
DJ-3506	35/26.1	2900	150	16	180	435	1130	275
DJ-4006	40/30	2900	150	16	340	545	1530	490
DJ-4006B	40/30	2900	150	16	1500	545	1560	490
DJ-5006	50/37	2900	150	16	340	545	1585	522
DJ-5006B	50/37	2900	150	16	1500	545	1610	522
DJ-6006	60/45	2900	150	16	340	545	1665	565
DJ-6006B	60/45	2900	150	16	1500	545	1695	565
DJ-7506	75/55	2900	150	16	350	545	1750	650
DJ-10006	100/75	2900	150	16	350	545	1790	730

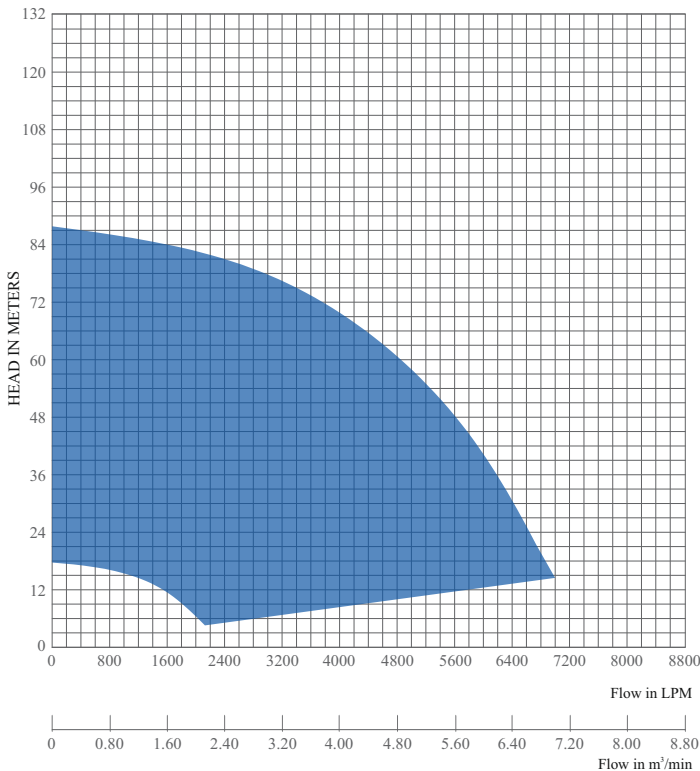
\* without cable

Note: All dimensions are in millimeter (mm).

# DJ Series : Technical Specifications & Performance

## Performance (Range)\*

(Upto 100 HP / 88M Head / 7000LPM Flow)



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

## Tech. Specifications\*

Rating	: Up to 100HP
RPM	: 2900 (nominal)
Frequency	: 50Hz
Supply	: Three Phase - 415 V
Starting	: DOL / STARDELTA
Motor	: Wet type / Dry Type

## Process Data

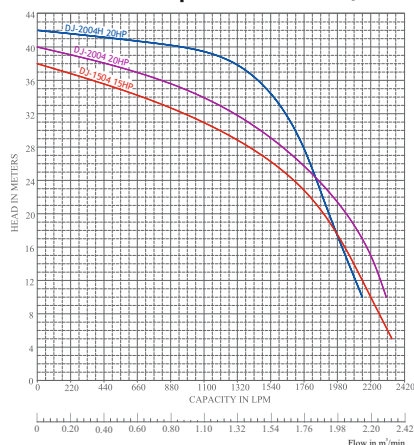
Liquid Temperature	Max 40°C
Liquid Density	Max 1100 kg/m³
Suitable for Liquid pH	6 to 8
Strainer Hole Size	Up to 16 mm

## Materials\*

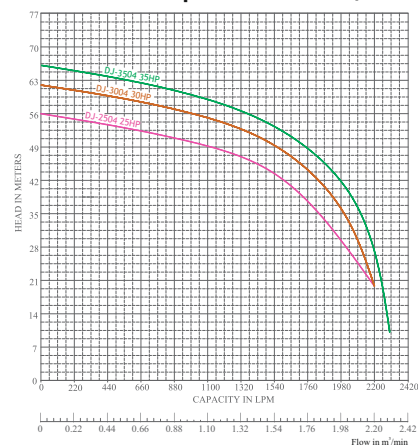
Impeller	: CA-15, CF8, CF8M
Shaft	: AISI-410, SS-304, SS-316
Difusser	: Various grades of CI / AL / SS
Wear Plate	: Various grades of CI / SS
Mech. Seal	: Sic v/s Sic, Tc v/s Tc

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

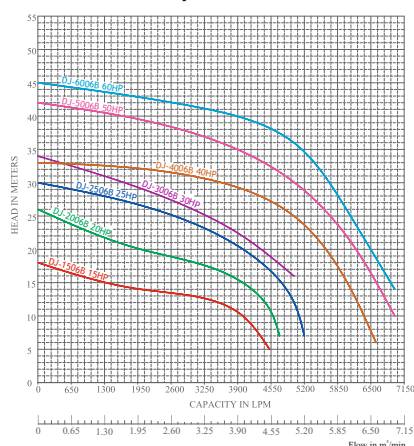
### Performance for Pump in DN-100mm (15 to 20HP)



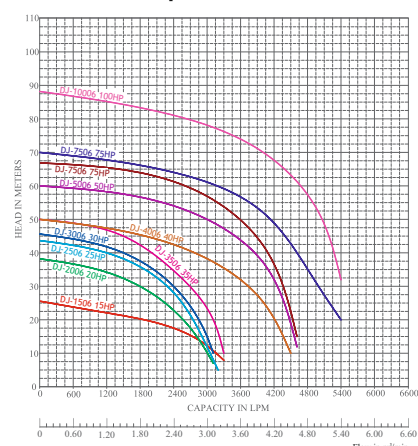
### Performance for Pump in DN-100mm (25 to 35HP)



### Performance for Pump in DN-150mm (Bowl Type)



### Performance for Pump in DN-150mm (Diffuser Type)



**For pumps above 100HP please consult our application engineer.**



# User Industries and Applications



## Civil and Infra Sector

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



## Mines

- Underground water pumping
- Dewatering of fluids with abrasive particles
- High head water pumping
- Portable dewatering
- Dewatering of contaminated water with sediments



## Docks & Marines

- Sea water pumping
- Pumping Highly contaminated marine water with muck & sediments
- Dry dock pumping
- Ship repair yards
- Ship dewatering
- Dewatering at ports and jetties



## 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

- Option of pump with dry motor as well as oil filled motor.
- Option of pumps with inbuilt agitator arrangement.
- 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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