

Changing
lives
for **better**



DARLING
PUMP 

Designing SMART pumping solutions...

Non-Clog Pumps

Designed to be tough...



Unclog Series

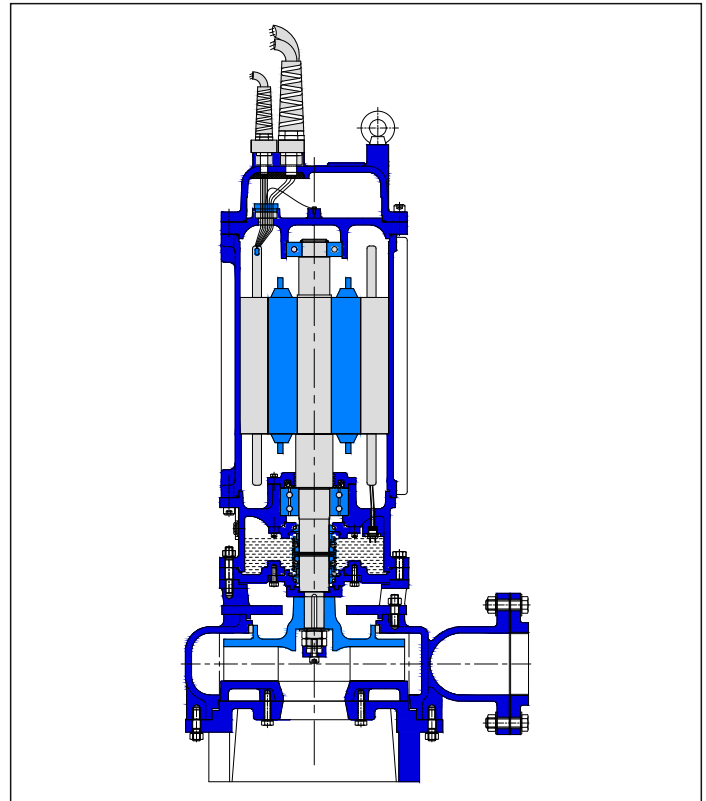


Unclog Series : Features & Dimensions

Features

- **Impeller** - Wear Resistant SS Impeller with wide passages that can pass solid up to 100mm.
- **Motor** - Highly efficient dry motors with built-in protection against temperature rise. Motor capable to withstand wide voltage fluctuations.
- **Shaft** - Extra heavy duty SS shaft to avoid deflection while pumping solids.
- **Mechanical Seals** - Dual mechanical seal fitted in independent chambers, not exposed to pumpage liquid and devoid of discharge pressure.
- **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.
- **Thrash Guard** - Special arrangement to avoid buildup of solids above the impeller.

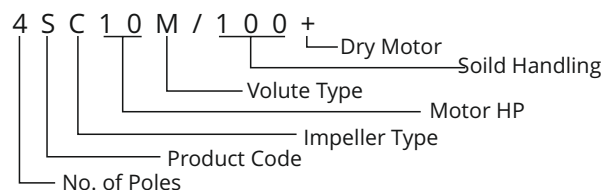
Cross Sectional View



Denominations

Product Code	4SC/4SR/4SP
Installation	Vertical / Portable
Impeller Characteristic	Non-clog
Discharge Connection	50/65/100/150/200 mm

Nomenclature



Dimensions

PUMP MODEL	HP/KW	RPM	DN SIZE	SOLID PSSG	MIN. SUB.	WD (Approx.)	HT (Approx.)	N.WT. (kg)*
4SR-03G/40+	3.0/2.2	1440	100	40	720	405	875	125
4SC-03G/80+	3.0/2.2	1440	100	80	720	405	875	125
4SR-03EH/18+	3.0/2.2	1440	50	18	600	460	750	115
4SR-05EH/18+	5.0/3.7	1440	50	18	600	460	750	120
4SR-05G/40+	5.0/3.7	1440	100	40	720	405	875	130
4SC-05G/80+	5.0/3.7	1440	100	80	720	405	875	130
4SR-07EH/18+	7.5/5.5	1450	50	18	600	460	800	180
4SR-07I/40+	7.5/5.5	1450	100	40	760	465	955	205
4SC-07I/100+	7.5/5.5	1450	100	100	760	465	955	205
4SP-07IL/20+	7.5/5.5	1450	100	20	690	480	890	177
4SP-07ML/20+	7.5/5.5	1450	150	20	690	520	895	187
4SP-10ML/20+	10/7.5	1450	150	20	690	520	895	197
4SR-10F/40+	10/7.5	1450	65	40	610	480	810	197
4SR-10I/40+	10/7.5	1450	100	40	760	465	955	242
4SC-10I/100+	10/7.5	1450	100	100	760	465	955	242
4SC-10M/100+	10/7.5	1450	150	100	740	590	945	242
4SR-15K/50+	15/11	1450	100	50	780	580	990	267
4SC-15I/100+	15/11	1450	100	100	820	465	1025	267
4SR-15F/40+	15/11	1450	65	40	675	480	880	220
4SR-20K/50+	20/15	1460	100	50	860	580	1065	292
4SR-20J/35+	20/15	1460	100	35	850	635	1055	267

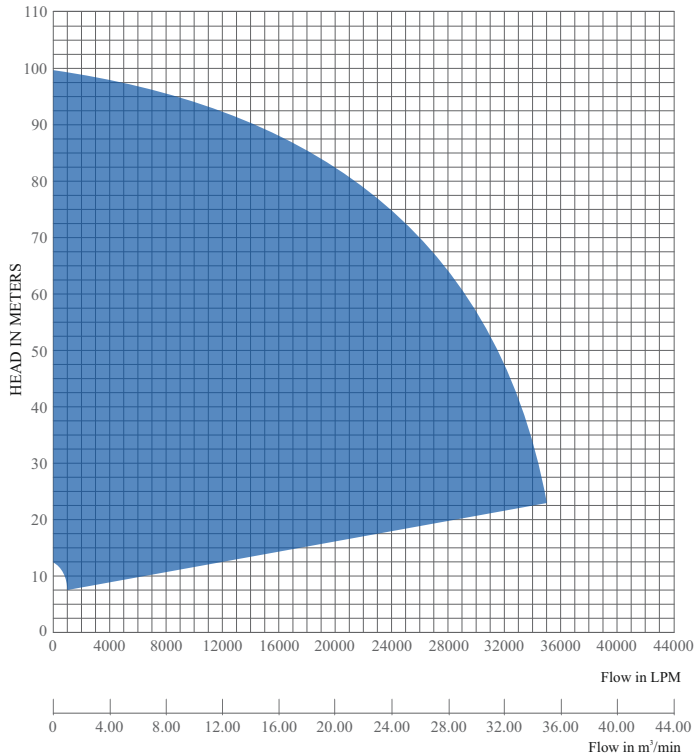
									* without cable
PUMP MODEL	HP/KW	RPM	DN SIZE	SOLID PSSG	MIN. SUB.	WD (Approx.)	HT (Approx.)	N.WT. (kg)*	
4SR-20M/100+	20/15	1460	150	100	870	590	1080	295	
4SR-25J/35+	25/18.5	1460	100	35	850	635	1055	295	
4SR-25K/60+	25/18.5	1460	100	60	870	580	1075	295	
4SR-25M/100+	25/18.5	1460	150	100	870	590	1080	295	
4SR-25N/100+	25/18.5	1460	200	100	910	670	1120	295	
4SR-30J/20+	30/22	1460	100	20	935	635	1140	320	
4SR-30K/60+	30/22	1460	100	60	955	580	1160	320	
4SR-30M/100+	30/22	1460	150	100	960	590	1165	320	
4SR-30N/100+	30/22	1460	200	100	1000	670	1205	330	
4SR-40N/100+	40/30	1460	200	100	1000	670	1205	410	
4SR-40M/50+	40/30	1460	150	50	870	730	1075	400	
4SR-50M/50+	50/37	1460	150	50	990	730	1375	658	
4SR-50N/100+	50/37	1460	200	100	1015	670	1505	510	
4SR-50O/100+	50/37	1460	200	100	1230	780	1615	510	
4SR-60'OH/50+	60/45	1460	200	50	1225	785	1615	590	
4SR-75'OH/50+	75/55	1460	200	50	1225	785	1615	590	
4SR-75MM/16+	75/55	1460	150	16	1175	760	1565	650	
4SR-75MM/20+	75/55	1460	150	20	990	710	1395	700	
4SR-100'OH/100+	100/75	1460	200	100	1280	875	1700	900	
4SR-120NN/25+	120/90	1460	200	25	1400	820	1815	850	
4SR-150'OO/100+	150/110	1460	200	100	1430	875	1850	1100	

Note: All dimensions are in millimeter (mm).

Unclog Series : Technical Specifications & Performance

Performance (Range)*

(Upto 300 HP / 100M Head / 35000LPM Flow)



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

Tech. Specifications*

Rating	: Up to 300HP
RPM	: 1450 / 960
Frequency	: 50Hz
Supply	: Three Phase - 415 V
Starting	: DOL / Star Delta
Motor	: Dry Type / Wet type

Process Data

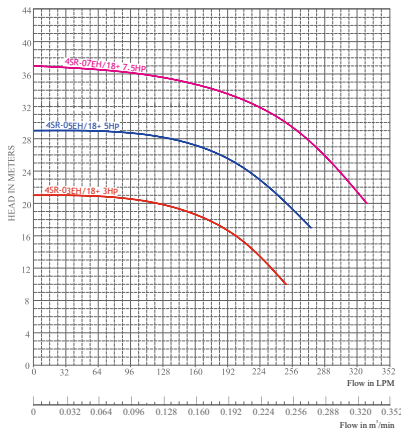
Liquid Temperature	Max 40°C
Liquid Density	Max 1100 kg/m³
Suitable for Liquid pH	6 to 8
Solid Passage	Up to 100 mm

Materials*

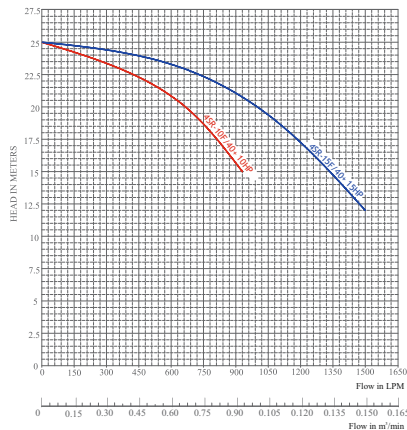
Impeller	: CA-15, CF8, CF8M, Various grades of CI
Shaft	: AISI-410, SS-304, SS-316
Casing	: Various grades of CI / SS
Wear Plate	: Various grades of CI / SS
Mech. Seal	: Sic v/s Sic, Tc v/s Tc

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

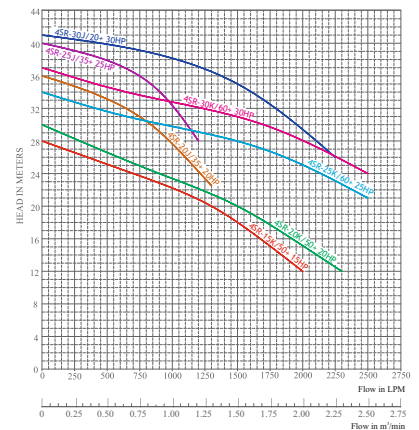
Performance for Pump in DN-50mm



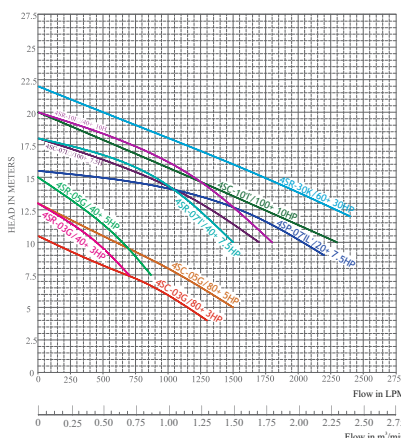
Performance for Pump in DN-65mm



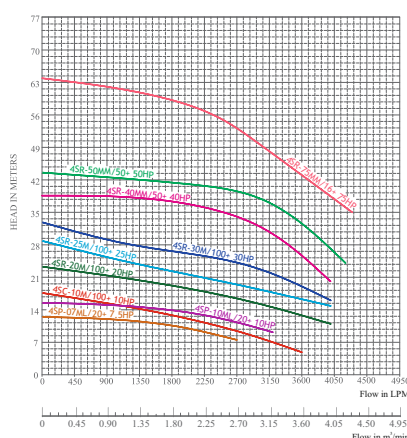
Performance for Pump in DN-100mm



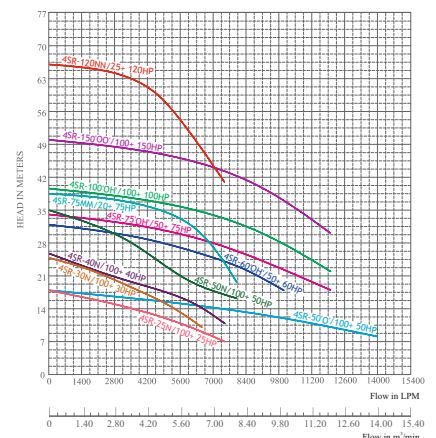
Performance for Pump in DN-100mm



Performance for Pump in DN-150mm



Performance for Pump in DN-150/200mm



For pumps above 100HP please consult our application engineer.

User Industries and Applications



Water & Waste Water

- River water intake
- Desalination projects
- Water Parks & Resorts
- Landscaping & fountains
- Village & Municipal water supply
- Treated water
- Intake well cleaning



Sewage & Effluent

- Raw & unscreened Sewage
- Industrial Wastes & Effluents
- Tailing ponds
- Sewage treatment plants
- Effluent treatment plants
- Tanning units
- River cleaning projects



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



Govt. Sector

- Dams sites
- Ordnance factories
- Port trusts & Dockyards
- Railways
- Water Supply projects
- River linking Projects
- PHED's • 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.
- Option of pumps with cooling jacket.
- Option of pumps with spiral cutting plate.
- Guiderail / Fastout arrangement upto 20mtr pit depth.
- Variety of MOCs to choose from.
- Choice of casing and impeller to suit specific soil handling applications.

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 Non-Clog pumps.
- Always ensure that pump is properly earth.

For exclusive range of
Darling products scan



DARLING PUMPS PVT. LTD.

REGD. ADDRESS & SALES OFFICE

124-B, 1st Flr., Runwal Commercial Complex,
Opp. Govardhan Nagar, L.B.S. Marg,
Mulund (W), Mumbai - 400 080, MS, India.
Tel : +91 22 25604451 / 25682690.
E-mail : dpplm@darlingpumps.in

HEAD OFFICE & WORKS

K-No.340/2, Tigaria Badshah,
Agarbatti Complex, Industrial Estate,
Sanwer Road, Indore - 452015, MP, India.
Tel : +91 9981992833 / 34 / 38
Email : dpplin@darlingpumps.in

SALES OFFICE KOLKATA :

F-9, Balaka Apartment,
402, Motilal Gupta Road,
Tollygunge, Behind Sodepur Bazar,
Haridevpur, Kolkata - 700082, WB, India.
Email : isk@darlingpumps.in



EXPORTS :

exports@darlingpumps.in • Tel : +91 62640 04760

Disclaimer: On account of continuous improvements, data mentioned in this leaflet is subject to change without prior notice.

Channel Partner :