

Sewage Handling
Creating solutions
over three decades



Simply pump!

SEWAGE & EFFLUENT HANDLING PUMPS



Highly efficient slow speed motors

Better Solid handling passages, ensures clog free working

Special motor with temperature sensing device to prevent dry running, overloading or mechanical jamming

Built-in Thrash guard arrangement

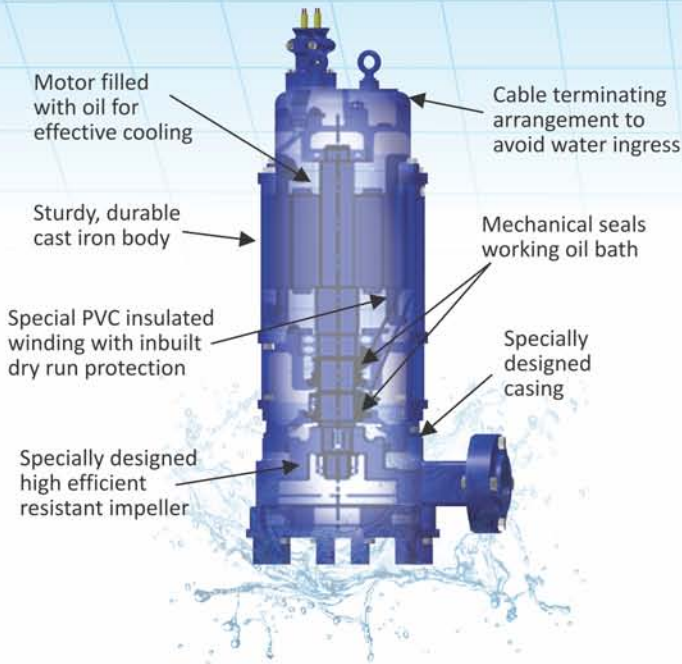
Choice of external cooling jacket, spiral cutting plate, fast out system & variety of MOCs

UNCLOG SERIES PUMPS

DARLING PUMPS®
Pioneers in Submersible

UNCLOG PUMPS – UP TO 30 HP

Unclog Pumps are ideal for pumping heavily contaminated water with sand, handling of raw sewage, industrial waste & effluents, sludge removal, ETP & STP pumping stations, hotels, boiler room, underpasses, lifting stations, open cast mines, river pollution cleaning, tanneries, steel, cement, chemical, sugar & oil industries, thermal power plant etc.



DENOMINATION

Product code	4SC+ & 4SR+
Installation	Vertical
Impeller characteristics	Radial/Mix flow

PROCESS DATA

Liquid temperature	Max +40°C
Liquid density	Max 1100kg/m ³
Solid passage	Up to 100mm

MOTOR DATA

Submersible squirrel cage Induction motor	
Frequency	50 Hz (±3%)
Voltage	415 (+6/-15%)
Phase	Three
Starting	D.O.L./Star Delta

SPEED & CURRENT

kW	Wt. (Kg)	Speed of motor(RPM)	Rated Current
2.2	120	1440	6.5
3.7	125	1440	9.5
5.5	190	1450	16
7.5	225	1450	16
11	250	1450	23
15	285	1450	32
18.5	285	1460	38
22	310	1460	45

MATERIALS

Casing	CI-FG-200
Impeller	CI-FG-200
Wear Plate	CI-FG-200
Motor Body	CI-FG-200
Shaft	Stainless Steel
O-Ring	Nitrile Rubber

MONITORING EQUIPMENT

Thermal contacts cut off temperature +85°C

CABLE

Heavy-duty double sheathed Submersible cable

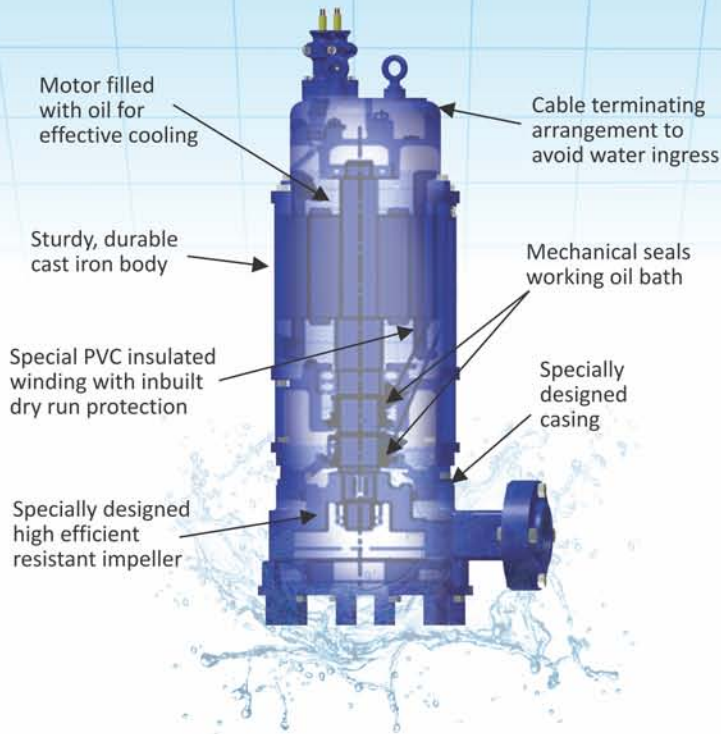
UNCLOG PUMPS – UP TO 30 HP

Model	kW/HP	Outlet in MM/Inch	200	400	600	800	1000	1200	-	-	DISCHARGE IN LPM
45R-03G/40+	2.2/3	100 / 4"	11.8	10.4	8.5	-	-	-	-	-	
45C-03G/80+	2.2/3	100 / 4"	9	8	7	5.5	4	-	-	-	
45R-05F/ 16+	3.7/5	65 / 2.5"	23.8	21.8	17.5	-	-	-	-	-	
45R-05G/40+	3.7/5	100 / 4"	13.7	12.2	10.5	8.2	-	-	-	-	
45C-05G/80+	3.7/5	100 / 4"	11	10	8.8	7.6	6.2	4.8	-	-	HEAD IN MTRS
45R10F/40+	7.5/10	65 / 2.5"	24	22.8	20.9	17.7	-	-	-	-	
45R-20J/35+	15/20	100 / 4"	35	33.8	32.3	30.3	27.5	24.2	-	-	
45R-25J/35+	18.5/25	100 / 4"	39.3	38.6	37.3	37.3	32.1	28	-	-	
Model	kW/HP	Outlet in MM/Inch	300	600	900	1200	1500	1800	2100	2400	DISCHARGE IN LPM
45P-07IL/20+	5.5/7.5	100 / 4"	15.1	14.7	14.2	13.6	12.6	11.3	9.6	-	
45P-07ML/20+	5.5/7.5	150 / 6"	12.2	12	11.8	11.5	11	10.5	9.7	8.6	
45R-07I/40+	5.5/7.5	100 / 4"	17.2	16.4	15	12.8	10	-	-	-	HEAD IN MTRS
45C-07I/100+	5.5/7.5	100 / 4"	17	16	14.8	13.2	11.3	-	-	-	
45P-10ML/20+	7.5/10	150 / 16"	15.3	15.1	14.8	14.5	14.2	13.8	13.1	12.3	
Model	kW/HP	Outlet in MM/Inch	300	600	900	1200	1500	1800	2100	2400	DISCHARGE IN LPM
45R-10H/30+	7.5/10	80 / 3"	22	20.7	19.2	17.5	13.8	-	-	-	
45R-10I/40+	7.5/10	100 / 4"	19	18	16	15	12	10	-	-	
45C-10I/100+	7.5/10	100 / 4"	18	17	16	15	13	12	11	-	
45R-15K/50+	11.2/15	100 / 4"	26	24	22.5	21	18	14	-	-	
45C-15I/100+	11.2/15	100 / 4"	20.8	19.5	18.4	17.2	16	14.8	13.3	12	HEAD IN MTRS
45R-20K/50+	15/20	100 / 4"	28	26	24	22	20	17	14	-	
45R-25K/60+	18.5/25	100 / 4"	32	31	30	29	28	26.5	24.3	21.8	
45R-30J/20+	22/30	100 / 4"	40.4	39.5	38.3	37	35	32	28	-	
45R-30K/60+	22/30	100 / 4"	35	34	33	32	31	29.4	27.2	21.8	
Model	kW/HP	Outlet in MM/Inch	500	1000	1500	2000	2500	3000	3500	4000	DISCHARGE IN LPM
45C-10M/100+	7.5/10	150 / 6"	16.2	15	13.4	11.8	10	8	5.5	-	
45R-20M/100+	15/20	150 / 6"	22	21	20	18.8	17.2	15.5	13.4	11	HEAD IN MTRS
45R-25M/100+	18.5/25	150 / 6"	27	25	23	21.5	20	18.3	16.5	15	
45R-30M/100+	22/30	150 / 6"	30.8	28.8	27..2	26	24.5	22.5	19.5	16	

Note: 1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz) 2. Above performance is for specific gravity 1 and viscosity as of water.
3. Due to continuous improvements from time to time, given performance is subject to change without any prior notice. 4. Highlighted / Bold duties are best efficiency point for given pump.

UNCLOG PUMPS – 40 TO 150 HP

Unclog Pumps are ideal for pumping heavily contaminated water with sand, handling of raw sewage, industrial waste & effluents, sludge removal, ETP & STP pumping stations, hotels, boiler room, underpasses, lifting stations, open cast mines, river pollution cleaning, tanneries, steel, cement, chemical, sugar & oil industries, thermal power plant etc.



DENOMINATION

Product code	4SC+ & 4SR+
Installation	Vertical
Impeller characteristics	Radial/Mix flow

PROCESS DATA

Liquid temperature	Max +40°C
Liquid density	Max 1100kg/m ³
Solid passage	Up to 100mm

MOTOR DATA

Submersible squirrel cage Induction motor	
Frequency	50 Hz (±3%)
Voltage	415 (+6/-15%)
Phase	Three
Starting	Star Delta

SPEED & CURRENT

kW	Wt. (Kg)	Speed of motor(RPM)	Rated Current
30	400	1460	60
37	450	1460	75
45	550	1460	90
55	550	1460	110
75	900	1460	140
90	850	1460	170
110	1100	1460	210

MATERIALS

Casing	CI-FG-200
Impeller	CI-FG-200
Wear Plate	CI-FG-200
Motor Body	CI-FG-200
Shaft	Stainless Steel
O-Ring	Nitrile Rubber

MONITORING EQUIPMENT

Thermal contacts cut off temperature +85°C

CABLE

Heavy-duty double sheathed Submersible cable

UNCLOG PUMPS – 40 TO 150 HP

Model	kW/HP	Outlet in MM/Inch	1000	2000	3000	4000	5000	6000	7000	8000	DISCHARGE IN LPM
4SR-25N/100+	18.5/25	200 / 8"	16.8	15.7	14.5	13.1	11.7	10	8	-	HEAD IN MTRS
4SR-30N/100+	22/30	200 / 8"	23.5	21.8	19.8	17.5	15	11.8	-	-	
4SR-40N/100+	30/40	200 / 8"	24.2	22.5	20.8	19.2	17.5	15.5	12.	-	
4SR-50N100+	37/50	200 / 8"	33.5	31.5	29.5	26.5	23	20	17.8	16	
4SR-75MM/16+	55/75	150 / 6"	62.1	57.8	50	38.8	-	-	-	-	
4SR-120NN/25+	90/120	200 / 8"	65.2	64.8	63.8	61.6	57.8	51.9	44.8	-	

Model	kW/HP	Outlet in MM/Inch	2000	4000	6000	8000	10000	12000	14000	16000	DISCHARGE IN LPM
4SR-50(O)/100+	37/50	200 / 8"	17	16	15.3	13.5	12	10	8	-	HEAD IN MTRS
4SR-60'H/50+	46.5/60	200 / 8"	30.6	29	26.6	23	18	-	-	-	
4SR-75'OH'/50+	55/75	200 / 8"	33	31.6	29.5	26.1	22	18	-	-	
4SR-100'OH'/100+	75/100	200 / 8"	38.4	36.7	34.7	31.8	27.7	22	-	-	
4SR-150'OH'/100+	110/150	200 / 8"	48.8	47.2	45.4	42.2	37	30	-	-	

- Note:
1. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50Hz)
 2. Above performance is for specific gravity 1 and viscosity as of water.
 3. Due to continuous improvements from time to time, given performance is subject to change without any prior notice.
 4. Highlighted / Bold duties are best efficiency point for given pump.

UNCLOG SERIES PUMPS



OUR COMPLETE RANGE OF PRODUCTS



CLEAR WATER PUMPS

Head
Up to 150 M

Capacity
Up to 6000 LPM

Rating
0.75 to 110 kW

Suitable for:

- Housing & commercial complex
- Sprinkler & drip irrigation
- River water pumping
- Gardening
- Water supplies in industries, hospital, hotels, cooling tower etc.
- Raw water pumping



DEWATERING PUMPS

Head
Up to 108 M

Capacity
Up to 12000 LPM

Rating
0.55 to 110 kW

Suitable for:

- Infrastructure project
- Construction sites
- Steel / power plant
- Pumping heavily contaminated water with sand & gravel
- Mines dewatering
- Micro tunneling projects



WASTE WATER PUMPS

Head
Up to 72 M

Capacity
Up to 1800 LPM

Rating
0.37 to 37 kW

Suitable for:

- Packaged STP / ETP
- Treated water
- Drainage & septic tanks waste pumping
- Industrial processes
- Pharmaceutical plant
- Waste in hotels, hospital, malls etc.



SEWAGE EFFLUENT PUMPS

Head
Up to 62 M

Capacity
Up to 14000 LPM

Rating
2.2 to 110 kW

Suitable for:

- Raw unscreened sewage.
- STP & ETP plants
- Sewage pumping station
- Boiler room
- Effluents & solvents
- Industrial waste water
- Storm & tunnel water de-watering



SLURRY PUMPS

Head
Up to 85 M

Capacity
Up to 14000 LPM

Rating
3.7 to 110 kW

Suitable for:

- AHP / CHP
- Metal processing unit
- Mineral processing unit
- Mineral mines
- Iron scale slurry
- Ceramic slurry

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



Simply pump!



DARLING PUMPS PVT. LTD.

HEAD OFFICE

36-F, Sector B, Sanwer Road,
Indore - 452015, India.
Tel : +91 731 2720558, 2721782.
Fax : +91 731 2721136.
E-mail : dpplin@darlingpumps.in

SALES OFFICE

124, B-Wing, First Floor, Runwal Commercial Complex,
Opp. Govardhan Nagar, L.B.S. Marg,
Mulund (W), Mumbai - 400 080, India.
Tel : +91 22 25604451. Fax : +91 22 25682690.
E-mail : dpplm@darlingpumps.in

WORKS

K-No.340/2, Tigaria Badshah,
Agarbatti Complex, Industrial Estate,
Sanwer Road, Indore - 452015.
Tel : +91 731 2972043 / 2970052

EXPORTS

exports@darlingpumps.in



darlingpumps.in