

*Sewage & Effluents*  
Creating solutions  
over three decades



*Simply pump!*

# WET PIT VERTICAL PUMPS



Compact & user friendly design

Suitable for pit depth up to 6.5 mtrs

Option of oil / grease lubrication

No need of separate service water pump for lubrication purpose

Can be given for liquid temperature up to 95°C

FLP motors can provided with these pumps

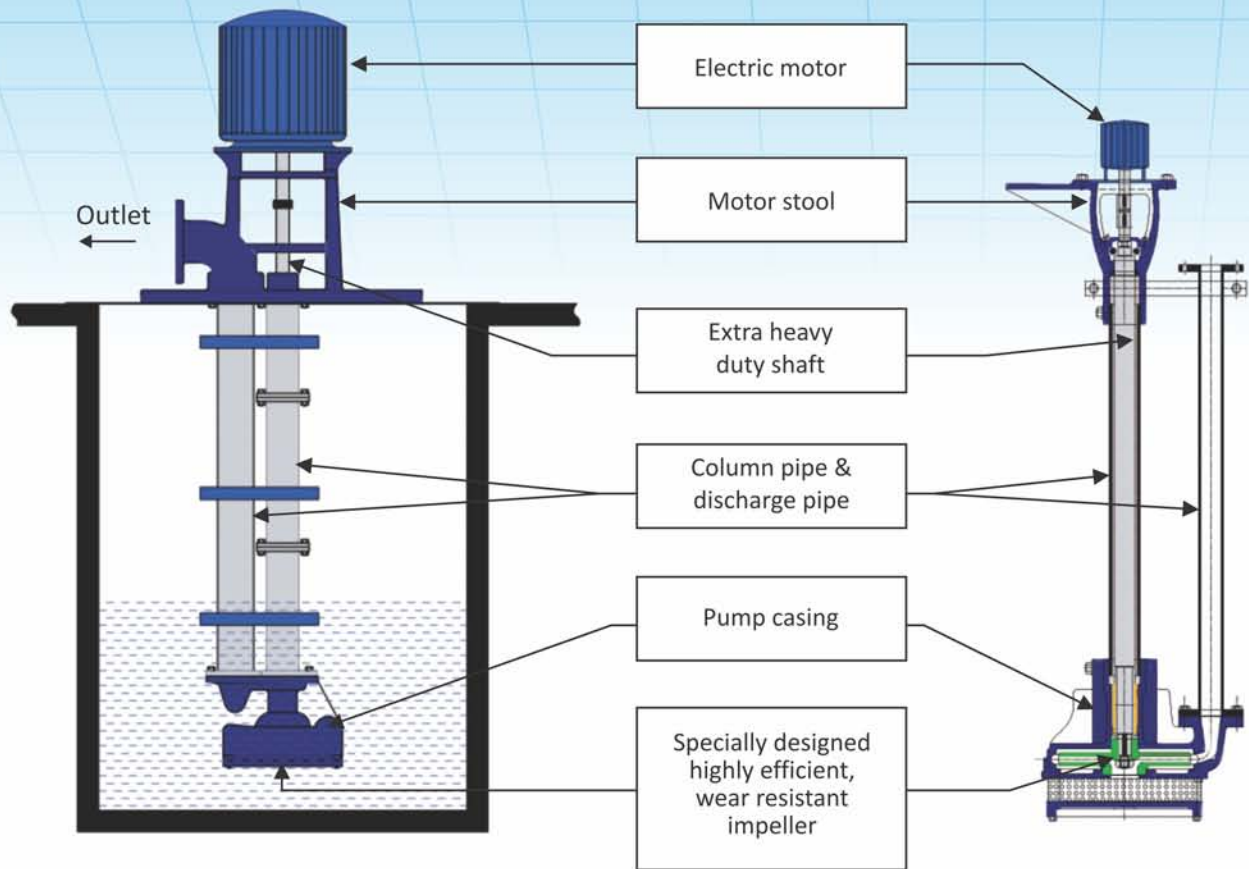
Choice of MOCs to handle liquids & variety of effluents

VERTICAL WET PIT SERIES PUMPS

**DARLING PUMPS**  
Pioneers in Submersible

# VERTICAL WET PIT PUMPS

Vertical Wet Pit Series Pumps are ideal for various sewage applications, industrial waste & effluents, sludge removal, raw sewage, slurry, pumping stations, boiler room, chemical plants, lifting stations, open cast mines, tanneries, govt. & private ETP & STP plants etc.



## DENOMINATION

Product code	50E/ES/VPP
Installation Standing/Mounting)	Vertical (Self-
Impeller characteristics	Radial

## PROCESS DATA

Liquid temperature	Max +90° C
Liquid density	Max 1100kg/m <sup>3</sup>
Solid passage	Upto 63 mm

## MOTOR DATA

Motor	Vertical Flange Mounted TEFC Motor
Rating	Up to 150 HP
RPM	1450 / 2900

## PUMP DATA

Outlet	25/50/65/80/100/150 mm
Column Length	Up to 6 mtrs

## MATERIALS

Casing	Cast Iron
Impeller	Cast Iron
Column Pipe	MS
Discharge Pipe	MS
Shaft	EN8
Motor Stool	MS Fabricated

## Darling make vertical wet pit 50E Sump Pumps

L.P.M.	3	4.5	6	7.5	9.5	12	15	18	21	24	DISCHARGE IN LPM
54	50E ½	50E ½	50E ½	50E ½	50E ¾	50E 1	50E 1¼	50E 2	50E 2	50E 2½	
90	50E ½	50E ½	50E ½	50E ½	50E ¾	50E 1	50E 1¼	50E 2	50E 2½	50E 2½	
125	50E ½	50E ½	50E ½	50E ¾	50E 1	50E 1¼	50E 2	50E 2	50E 2½	-	
180	50E ¾	50E ¾	50E ¾	50E 1	50E 1	50E 1½	50E 2	50E 2½	-	-	HEAD IN MTRS
220	50E ¾	50 E 1	50 E 1	50E 1	50E1½	50E 2	50E 2	50E 2½	-	-	
275	-	-	50 E1½	50E1½	50E 2	50E 2	50E 2½	-	-	-	
370	-	-	50 E 2	50E 2	50E 2½	50E 2½	-	-	-	-	

## Darling Make Vertical Wet PIT ES/VPP Pumps

Model : ES-40 - RPM 1450, Solid Handling DIA 25 mm, Outlet Size 40 mm

Actual HP	Recommended kW/H.P.	75	150	225	300	350	-	-	DISCHARGE IN LPM
0.5	1.0	4.5	3.5	1.0	-	-	-	-	
0.75	1.0	5.5	5.0	3.5	-	-	-	-	
1.0	1.5	8.5	8.0	6.5	4.0	1.5	-	-	HEAD IN MTRS
1.5	2.0	-	11.2	10	8.2	6.6	-	-	
2.0	3.0	11.5	11.0	10.5	8.5	7.0	-	-	

Model : ES-40S - RPM 2900, Solid Handling DIA 25 mm, Outlet Size 40 mm

Actual HP	Recommended kW/H.P.	125	250	375	500	625	750	875	DISCHARGE IN LPM
3.0	5.0	17	14	8.0	-	-	-	-	
5.0	7.5	23	21	17	10	-	-	-	
7.5	10.0	-	32	29	24	15	-	-	HEAD IN MTRS
10.0	12.5	-	45	44	40	32	20	6.0	

Model : ES-75C - RPM 1450, Solid Handling DIA 25 mm, Outlet Size 80 mm

Actual HP	Recommended kW/H.P.	360	540	720	900	1080	1260	-	DISCHARGE IN LPM
2.0	3.0	8.0	7.0	4.0	-	-	-	-	
3.0	5.0	10.5	10	8.0	5.0	-	-	-	
5.0	7.5	17	16	14	12	9.0	4.0	-	HEAD IN MTRS
7.5	10	21.5	20.5	19.5	17	14.5	10	-	
10.0	12.5	23	22.5	21	19.6	16.5	12	-	

Model : ES-75 - RPM 1450, Solid Handling DIA 38 mm, Outlet Size 80 mm

Actual HP	Recommended kW/H.P.	150	300	450	600	750	900	1050	DISCHARGE IN LPM
1.0	1.5	5.0	4.0	2.0	-	-	-	-	
1.5	2.0	7.5	7.0	5.0	3.0	3.2	-	-	
2.0	3.0	-	9.0	8.0	6.4	4.0	-	-	HEAD IN MTRS
3.0	5.0	-	13	11.5	10	7.5	4.0	-	
5.0	7.5	-	19	18	15.8	13.6	11	6.4	
7.5	10	-	20	18.7	17	15	12.6	8.8	

Model : ES-100 - RPM 1450, Solid Handling DIA 63 mm, Outlet Size 100 mm

Actual HP	Recommended kW/H.P.	250	500	750	1000	1250	1500	1750	DISCHARGE IN LPM
1.0	2.0	3.0	2.2	1.5	-	-	-	-	
2.0	3.0	4.0	3.6	2.8	1.6	-	-	-	
3.0	5.0	6.0	5.0	4.5	3.8	2.3	-	-	HEAD IN MTRS
5.0	7.5	9.0	7.3	6.8	6	4.8	-	-	
7.5	10	12	11	9.8	9	7.5	5.8	-	
10	12.5	15	13.5	12.5	11.5	10	8.5	6.2	

Model : ES-100 H - RPM 1450, Solid Handling DIA 63 mm, Outlet Size 100 mm

Actual HP	Recommended kW/H.P.	300	600	900	1200	1500	1800	2100	DISCHARGE IN LPM
1.5	2.0	3.5	2.5	2.0	-	-	-	-	
2.0	3.0	6	4.0	3.5	2.0	-	-	-	
3.0	5.0	8.5	7.0	6.5	5.0	-	-	-	HEAD IN MTRS
5.0	7.5	12.5	11	10	9	7.0	-	-	
7.5	10	17.5	16	15	13	11.0	7.5	-	
10	12.5	21	20	19	7	15	12	9	

Model : ES-100 K - RPM 1450, Solid Handling DIA 25 mm, Outlet Size 100 mm

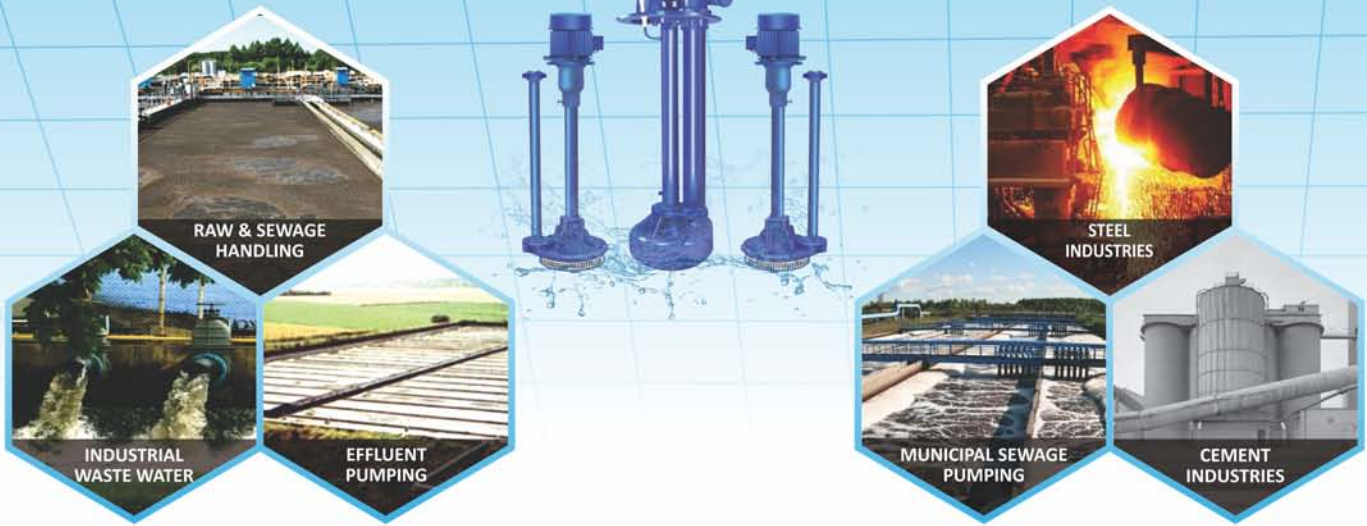
Actual HP	Recommended kW/H.P.	500	1000	1500	2000	2500	-	-	DISCHARGE IN LPM
20	25	35	32	26.8	22	15.4	-	-	HEAD IN MTRS

Model : ES-150 - RPM 1450, Solid Handling DIA 63 mm, Outlet Size 150 mm

Actual HP	Recommended kW/H.P.	1000	2000	3000	4000	5000	6000	-	DISCHARGE IN LPM
40	50	35.5	34.5	33.5	31.5	29.5	25.8	-	HEAD IN MTRS

**Note:** 1. Suitable vertical flange mounted TEFC motor for recommended HP has to arranged separately. 2. Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz). 3. Above performance is for specific gravity 1 and viscosity as of water. 4. All pumps (except ES40S) can be provided for maximum column length of 6 mtrs. In case of ES40S (2900 RPM) pump the maximum column length which can provided is 1.5 mtrs. 5. Due to continuous improvements from time to time, given performance is subject to change without any prior notice. 6. Highlighted / Bold duties are best efficiency point for given pump.

## VERTICAL WET PIT 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