

Changing
lives
for **better**

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

Vertical Wet Pit Pumps

Designed to be tough...



Enviro / VPP Series

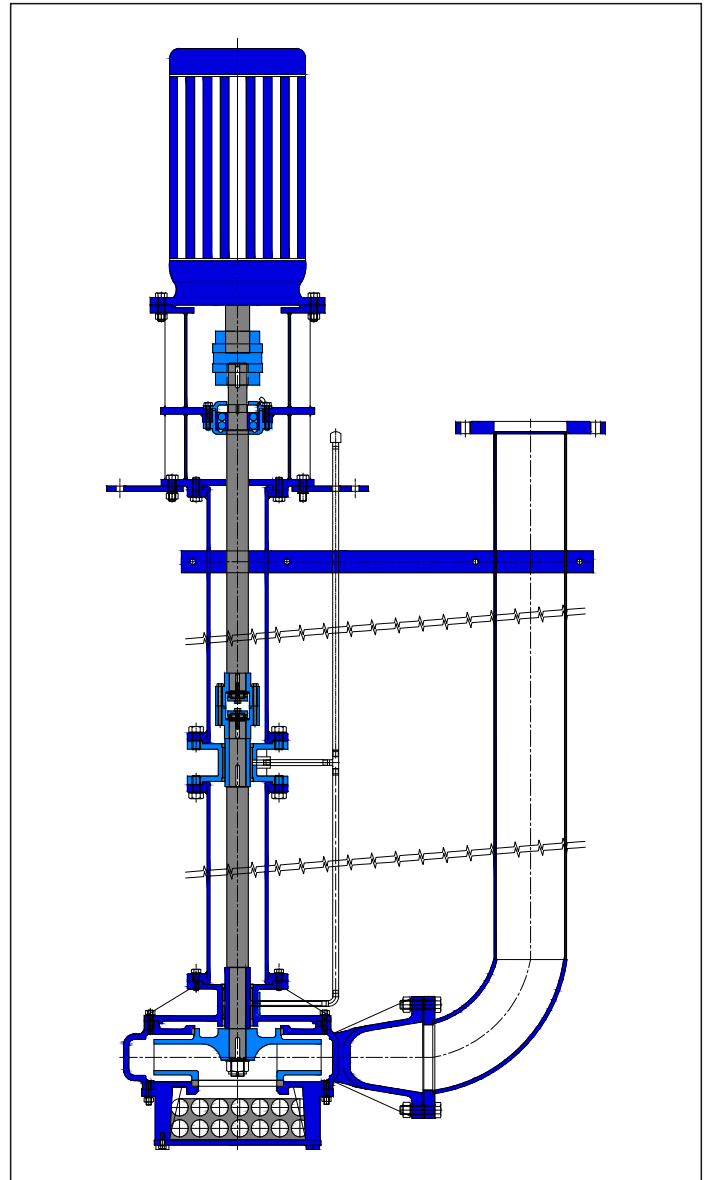


Vertical Wet Pit Series : Features & Dimensions

Features

- **Impeller** - Specially designed impeller with wide passages that can pass solids up to 63 mm.
- **Motor** - Vertical Flange Mounted TEFC motor. Can be FLP or Non FLP type.
- **Shaft** - Extra heavy duty SS Shaft, capable to withstand adverse load.
- **Bearing** - Heavy duty grease lubricated ball bearing used at Top, Bottom & Intermediate end of the shaft.
- **Casing** - Specially designed casing assisting the free flow of liquids & solids, also minimising the chances of pump clogging.
- **Column Pipe** - Can be offered for pit depth up to 6.5 mtrs

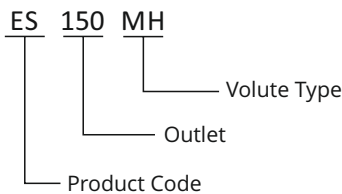
Cross Sectional View



Denominations

Product Code	ES/VPP
Installation	Vertical
Impeller Characteristic	Non-clog
Discharge Connection	50/65/80/100/150/200 mm

Nomenclature



Dimensions

PUMP MODEL	HP/KW	RPM	DN SIZE	SOLID PSSG	MIN. SUB.	WD (Approx.)	HT (Approx.)	N.WT. (kg)*
ES-50	5.0/3.7	1470	50			550		
ES-50	7.5/5.5	1470	50			550		
ES-50	10/7.5	1470	50	CONDITIONS	CONDITIONS	550	CONDITIONS	CONDITIONS
ES-65	7.5/5.5	1470	65			615		
ES-65	10/7.5	1470	65			615		
ES-65	12.5/9.3	1470	65	CONDITIONS	CONDITIONS	615	CONDITIONS	CONDITIONS
ES-65	15/11	1470	65	PER SITE	PER SITE	615	PER SITE	PER SITE
ES-65H	20/15	1470	65	PER SITE	PER SITE	715	PER SITE	PER SITE
ES-65H	25/18.5	1470	65	PER SITE	PER SITE	715	PER SITE	PER SITE
ES-65H	30/22	1470	65	PER SITE	PER SITE	715	PER SITE	PER SITE
ES-80	10/7.5	1470	80			615		
ES-80	12.5/9.3	1470	80	VARY AS	VARY AS	615	VARY AS	VARY AS
ES-80H	15/11	1470	80			685		
ES-80H	20/15	1470	80	SHALL	SHALL	685	SHALL	SHALL
ES-100J	20/15	1470	100			835		

* without cable

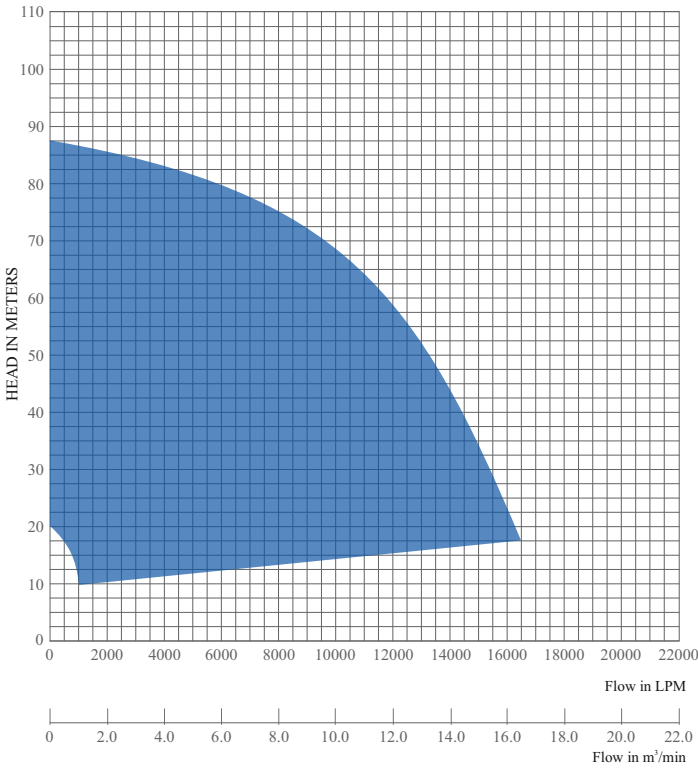
PUMP MODEL	HP/KW	RPM	DN SIZE	SOLID PSSG	MIN. SUB.	WD (Approx.)	HT (Approx.)	N.WT. (kg)*
ES-100J	25/18.5	1470	100			835		
ES-100J	30/22	1470	100			835		
ES-100J	35/26.1	1470	100	CONDITIONS	CONDITIONS	835	CONDITIONS	CONDITIONS
ES-100J	40/30	1470	100			835		
ES-100JH	50/37	1470	100			870		
ES-100JH	60/45	1470	100	CONDITIONS	CONDITIONS	870	CONDITIONS	CONDITIONS
ES-100JH	75/55	1470	100	PER SITE	PER SITE	870	PER SITE	PER SITE
ES-150M	50/37	1470	150			1030		
ES-150M	60/45	1470	150	PER SITE	PER SITE	1030	PER SITE	PER SITE
ES-150M	75/55	1470	150	PER SITE	PER SITE	1030	PER SITE	PER SITE
ES-150M	100/75	1470	150			1030		
ES-150MH	75/55	1470	150			1060		
ES-150MH	100/75	1470	150	SHALL	SHALL	1060	SHALL	SHALL
ES-200'00'	75/55	1470	200			1250		
ES-200'00'	100/75	1470	200	SHALL	SHALL	1250	SHALL	SHALL

Note: All dimensions are in millimeter (mm).

Vertical Wet Pit Series : Technical Specifications & Performance

Performance - Enviro Series Pumps

(Upto 100 HP / 90M Head / 16500LPM Flow)



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

Tech. Specifications*

Rating	: Up to 100HP
RPM	: 1450 / 2900
Frequency	: 50Hz
Supply	: Three Phase - 415 V
Motor	: FLP / Non FLP Vertical Flange Mounted Type

Process Data

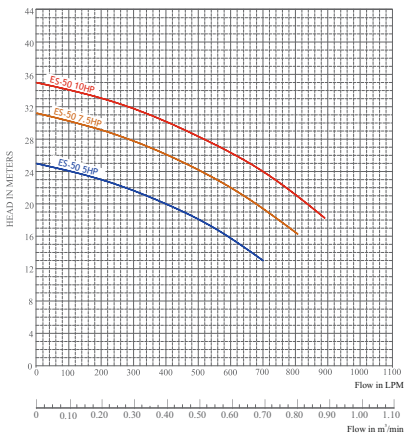
Liquid Temperature	Max 40°C
Liquid Density	Max 1100 kg/m³
Suitable for Liquid pH	6 to 8
Solid Passage	Up to 63 mm

Materials*

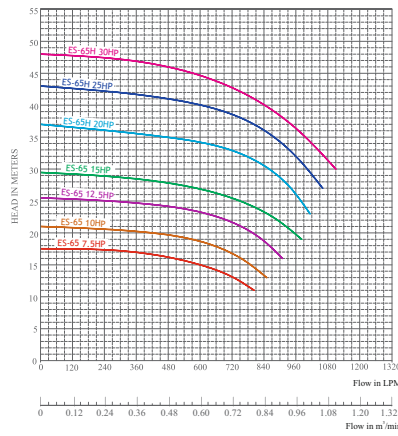
Impeller	: Various grades of CI / SS
Shaft	: AISI-410, SS-304, SS-316
Casing	: Various grades of CI / SS
Column Pipe	: Various grades of MS / SS
Discharge Pipe	: Various grades of MS / SS

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

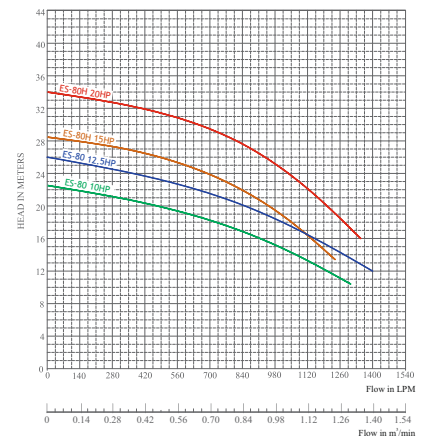
Performance for Pump in DN-50mm



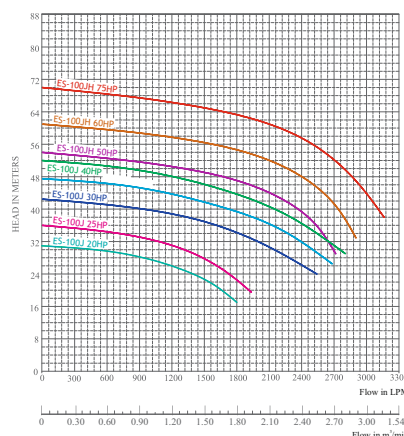
Performance for Pump in DN-65mm



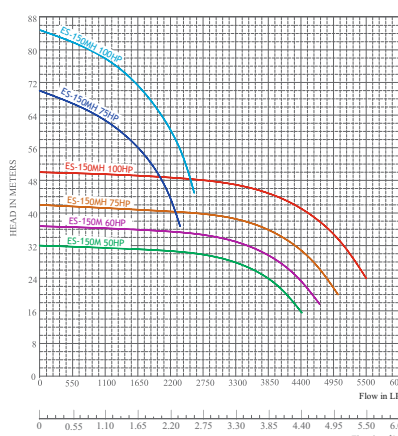
Performance for Pump in DN-80mm



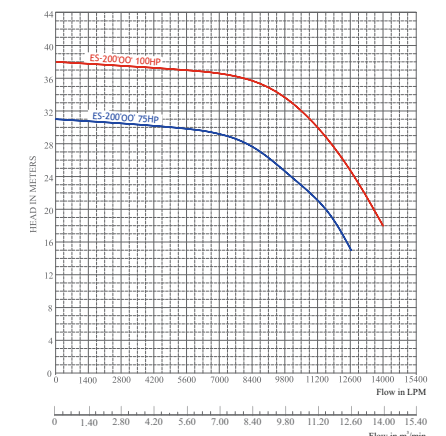
Performance for Pump in DN-100mm



Performance for Pump in DN-150mm



Performance for Pump in DN-150mm



For pumps above 100HP please consult our application engineer.

User Industries and Applications



Water & Waste Water

- Chemical Processing Units
- Desalination projects
- Treated water
- Intake well cleaning

Sewage & Effluent

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



Docks & Marines

- Pumping Highly contaminated marine water with muck & sediments
- Dry dock pumping
- Ship repair yards
- 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

- Pumps can be offered for liquid temperature of 90°C
- Pump can be offered for pumping waste from hazardous areas as well
- Pumps can be offered for 60Hz.
- Variety of MOCs to choose from.

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 safety & running of these pumps.
- Always ensure that pump is properly earth.

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