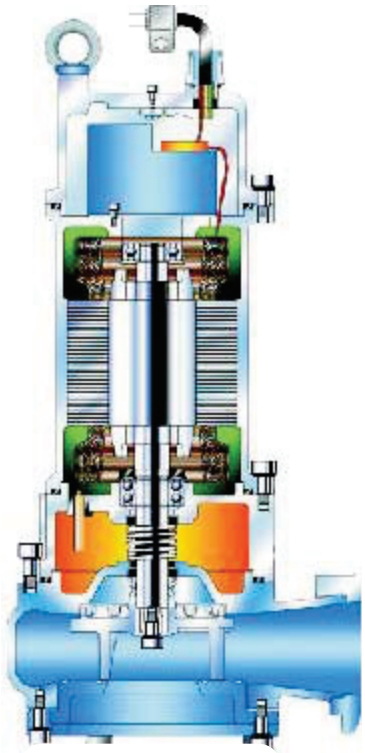




SUBMERSIBLE DRAINAGE PUMP

DR - SERIES

ISO 9001-2008



DR - series

- ❑ Submersible Drainage Pump
- ❑ Submersible Sump Pump
- ❑ Submersible Dewatering Pump

The compact design and rugged construction of the DR series allows this range of submersible pumps to be used for a multitude of applications. Particularly as an semi open type impeller is used, allowing the pump to pass small solids and sludge in suspension. Sealing is by way of a heavy duty 3 way oil bath system giving optimum protection to the motor. The pump have an overload protection device built in. all motor are of the ball bearing induction type. The DR series submersible pumps are able to be supplied in automatic or dual pump versions. The are designed to operate partly or completely submerged in water, and are fitted with a carrying handle to allow easy portability.

The DR series have 2 (two) floating switch, to control the starting and stopping of the pump automatically, and 2 pumps can be automatic alternating/ simultaneous operation by adjust position of floating switch.

Materials

Rugged cast iron construction with a steel plate strainer and stainless steel shaft.

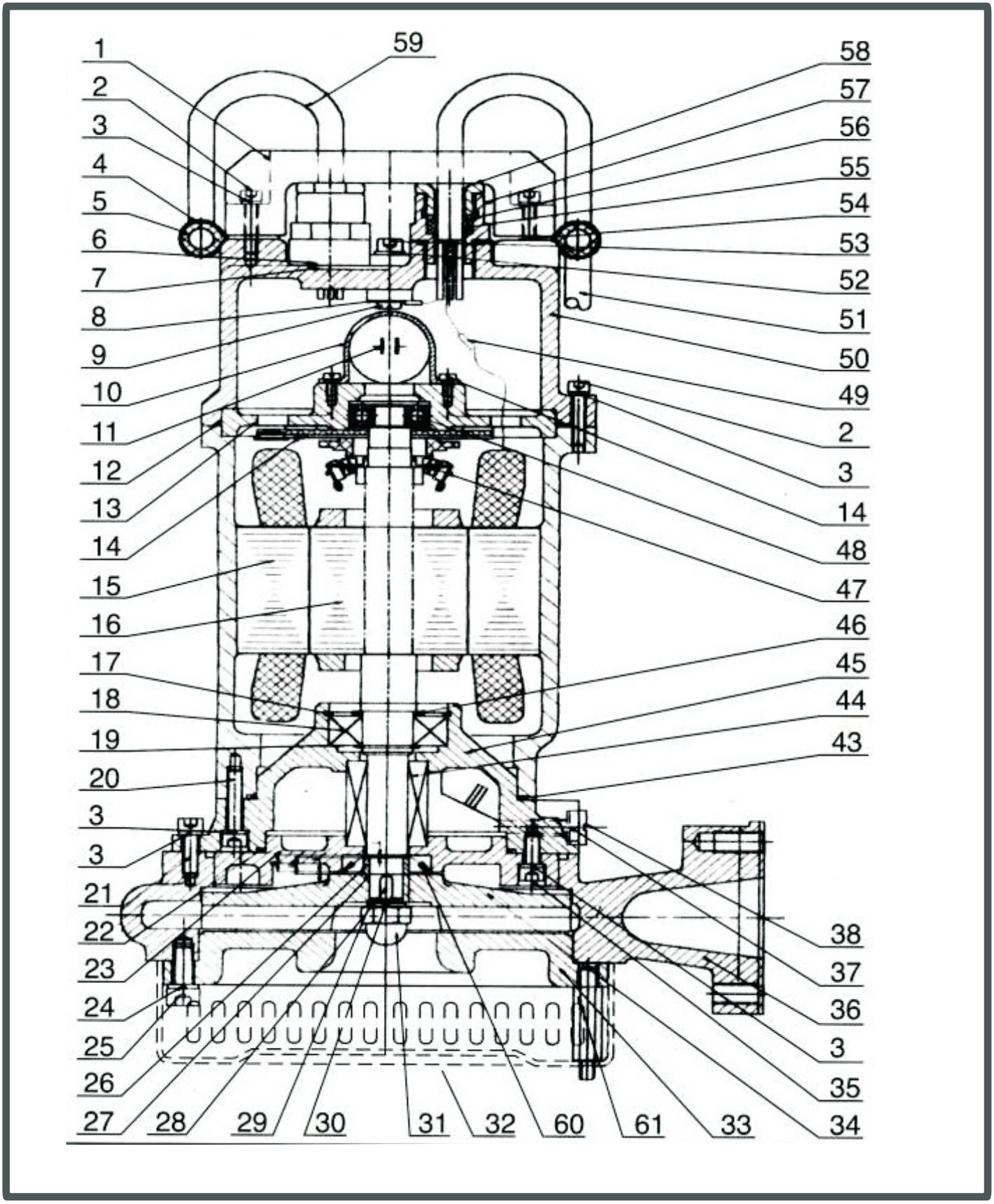
Application

- ❑ Industrial applications
- ❑ Draining basements
- ❑ Watering orchads and gardens
- ❑ Domestic / civil drainage jobs
- ❑ Pumping from rain water sumps
- ❑ Building sites and road work
- ❑ Screened waste water pumping
- ❑ Water treatment
- ❑ Stock-farming

Technical Data

Capacity	3 - 1100 M^3/H
Total Head	3 - 130 M
Speed	1400 - 2900 Rpm
Motor Power	0.75 - 80 Hp
Operating Temperature	Max. 40℃

Sectional Drawing



Parts List

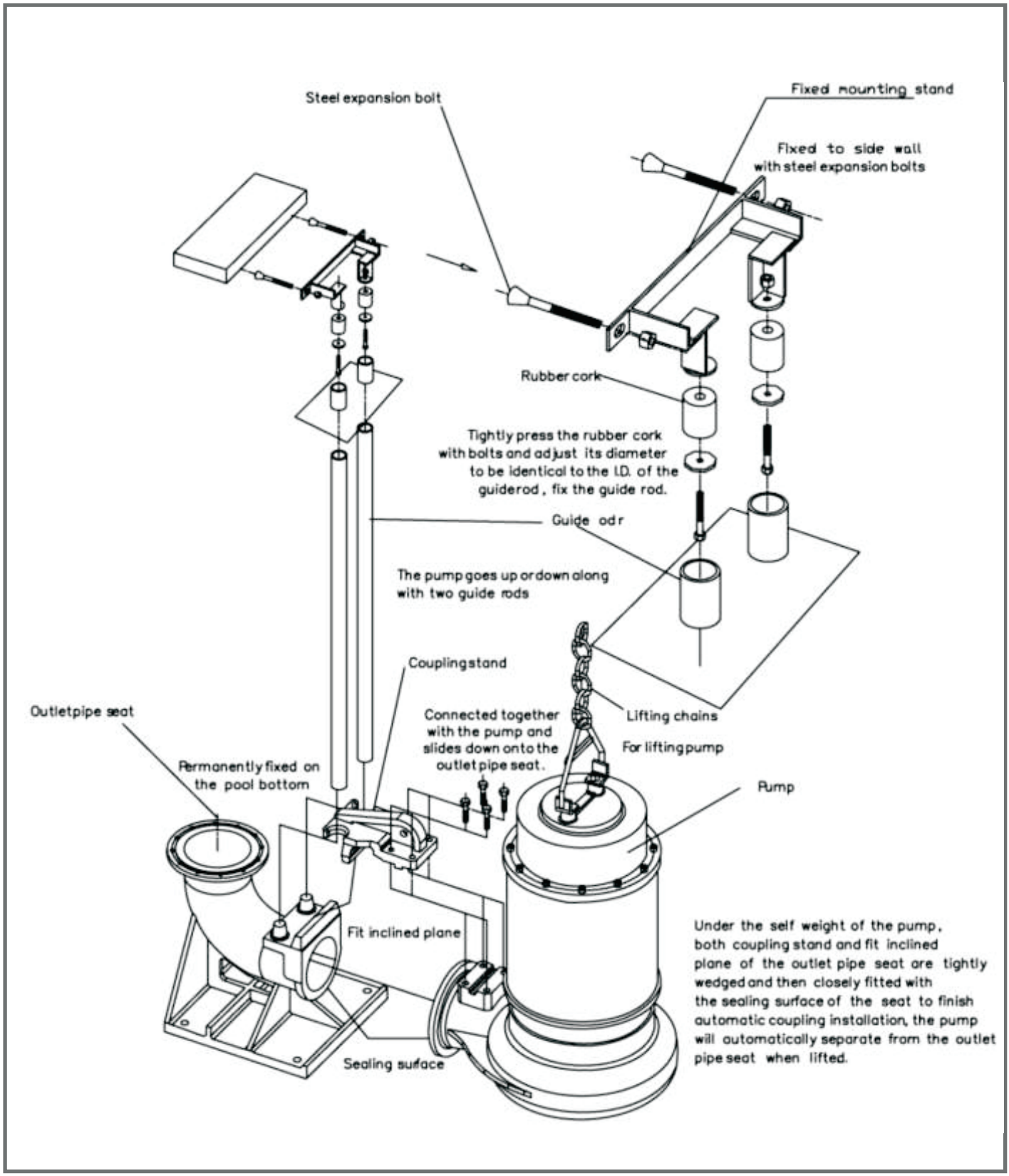
Sr. N	Description	Material	Qty.
1	Handle	ABS	1
2	Screw	304 Stainless steel	6
3	Spring washer	65Mn	18
4	Cable clip	304 Stainless steel	2
5	Cable sleeve	Rubber	2
6	Rivet	304 Stainless steel	4
7	Nameplate	304 Stainless steel	1
8	Connection terminal		2
9	Screw	304 Stainless steel	5
10	Clip	304 Stainless steel	1
11	Capacitor		1
12	O-ring	Rubber	1
13	Up bearing lid	GG25	1
14	Screw	304 Stainless steel	4
15	Stator		1
16	Rotor		1
17	Circlip	65Mn	1
18	Bearing		1
19	Circlip	65Mn	1
20	Screw	304 Stainless steel	4
21	Screw	304 Stainless steel	4
22	O-ring	Rubber	1
23	Seal lid	GG25	1
24	Spring washer	65Mn	3
25	Screw	304 Stainless steel	3
26	Impeller washer	304 Stainless steel	1
27	Adjust washer	Cu	
28	Key	Steel	1
29	Washer	65Mn	1

Sr. N	Description	Material	Qty.
30	Spring washer	304 Stainless steel	1
31	Screw	304 Stainless steel	1
32	Strainer	304 Stainless steel	1
33	Bottom plate	GG25	1
34	Impeller	GG25	1
35	Screw	304 Stainless steel	4
36	Volute	GG25	1
37	O-ring	Rubber	1
38	Screw	304 Stainless steel	1
43	O-ring	Rubber	1
44	Mechanical seal		1
45	Lower bearing lid	GG25	1
46	Bearing washer	304 Stainless steel	1
47	Centrifugal switch		1
48	Bearing		1
49	Connector		3
50	Up cover	GG25	1
51	Cable		1
52	Seal washer	Cu	1
53	Screw	304 Stainless steel	1
54	O-ring	Rubber	2
55	Cable seal	Rubber	2
56	Cable washer	Cu	2
57	Cable holder	Cu	2
58	Cable cover	Cu	2
59	Float		1
60	Lip seal		1
61	Screw	304 Stainless steel	3

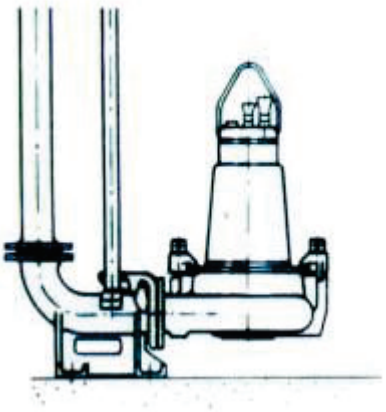
Technical Data

Type	Flow (m3/h)	Head (m)	Power (kW)	Voltage (V)	Current (A)	Phase	Speed (rpm)	Outlet (mm)	Wt. (kg)
DR-S400-2(A)	6	9	0.4	220	3.9	1	2900	38	20
DR-S 550-2(A)	6	14	0.55		4.7				22
DR-S 750-2(A)	6	20	0.75		6.4				25
DR 750-2(A)	6	20	0.75	380	2.9	3			
DR-S 1000-2(A)	10	18	1	220	7.5	1			38
DR 1000-2(A)	10	18	1	380	3.2	3			
DR-S 1500-2(A)	10	24	1.5	220	9.5	1			
DR 1500-2(A)	10	24	1.5	380	4.3	3			
DR 2200-2H(A)	10	34	2.2		4.9				50
DR 2200-2M(A)	25	18						50	
DR 3000-2H(A)	10	36	3		6.4			50	
DR 3000-2M(A)	25	20						50	
DR 4000-2H(A)	16	30	4		8.2			65	75
DR 4000-2M(A)	25	24						80	
DR 5500-2	40	19	5.5		11.1			100	180
DR 7500-2	40	24	7.5		15				

Installation Packaged Assembly Schematic



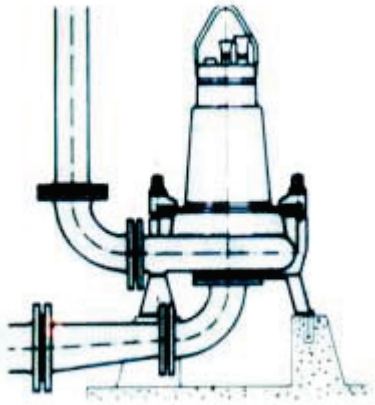
Standard Installation Method



"Quick Disconnect" Wet Pit Installation, -F

The stationary discharge elbow is bolted to the sump floor, and also to the discharge piping. Twin guide-rails run from the discharge elbow to the edge of the sump access hatch. The complete pump automatically detaches from the discharge elbow when hoisted from above, and is guided by the two guide rails out of the pit for routine maintenance or repair.
When returned to the bottom of the pit, the pump automatically locks onto its elbow and the connection is sealed by the pump's weight.

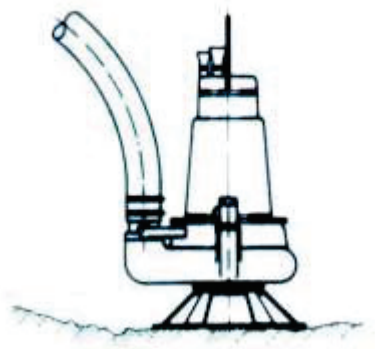




"Non-Submersed" Dry Pit Installation, -T

The pump is supported above the floor of fabricated steel supports, which also support the suction elbow and piping. All piping is bolted directly to the pump volute. (Since the motor is already floodproof, many installations of this type also employ waterproof control enclosures for added dependability.)
Using a chainfall suspended from the ceiling, the rotating assembly can be quickly hoisted to inspect the inside of the pump by rotating the two latch-bolts which hold it in the volute.

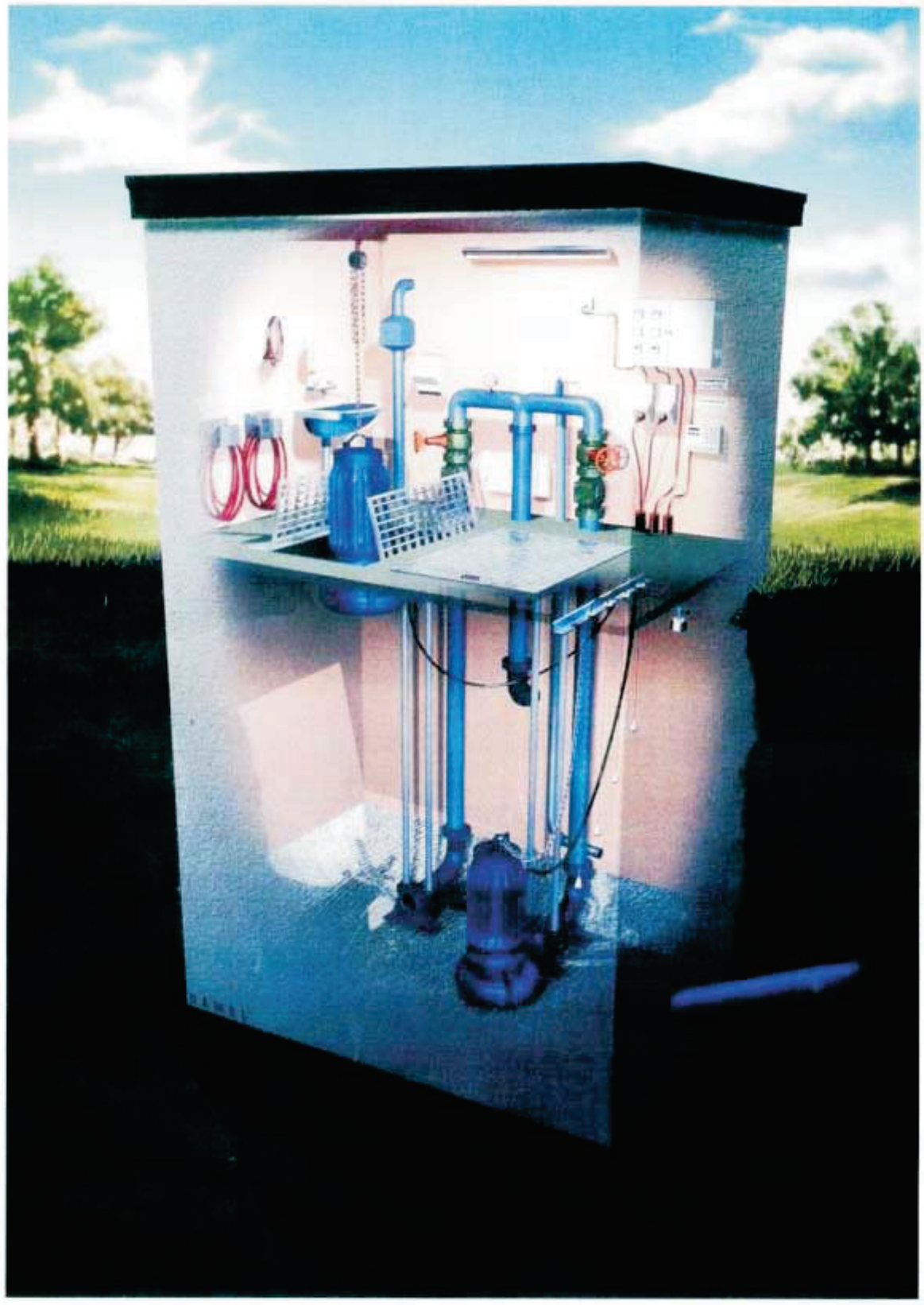




"Portable" or Temporary Installation, -P

The versatile portable version is supported by a combination suction-strainer-and-stand, and has a plain-end discharge elbow for connecting a hose. This unit is usually operated by a manual switch, included with the power cable.





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