

Submersible Electric Pumps for drainage of clean and dirty water DOC pumps are versatile, corrosion-resistant and compact.

Three basic versions are available with 0,25 to 0,55 kW power. A DOC 7VX version with Vortex impeller is available.

DOC Series



APPLICATIONS

- Emptying of residential sump pits, rainwater tanks or laundry drainage.
- Garden and lawn irrigation, with suction from rainwater tanks.
- Emergency draining of flooded basements and garages.
- Transfer of water from tanks and basins.

SPECIFICATIONS

- Maximum liquid temperature: 40°C.
- **Dry motor** cooled by the pumped liquid.
- Power cord:
 - single-phase: with plug.
- three-phase: without plug.
- Insulation class 130°C (B).
- IPX8 protection.
- Maximum immersion depth: 5 m.
- The DOC3 pump features a flow rate up to 135 l/min, head up to 7 m, and passes suspended solids up to 10 mm in diameter.

Only available in single-phase version.

- The DOC7 pump features a flow rate up to 225 l/min, head up to 11 m, and passes suspended solids up to 10 mm in diameter.
- The DOC7VX pump features a flow rate up to 175 l/min, head up to 7 m, and can handle liquids with suspended solids up to 20 mm in diameter.
- Versions:
- Single-phase: 220-240V, 50Hz 2 poles.
- Three-phase: 220-240V, 50Hz 2 poles. 380-415V, 50Hz 2 poles.
- The single-phase versions feature:
 - pre-assembled float switch for automatic pump operation.
- built-in capacitor.
- thermal overload protection to stop pump supply in case of overheating.
- SG versions (single-phase without float switch), GW versions (single-phase with bell float switch), 60 Hz single-phase and three-phase versions, versions with various power cord lengths and various plugs are available on request.
- A "**shallow-suction device**", that can be mounted on both the DOC3 and DOC7 models, is available on request. It ensures the complete drainage of flooded floors (down to 3 mm from floor).

SOS KIT

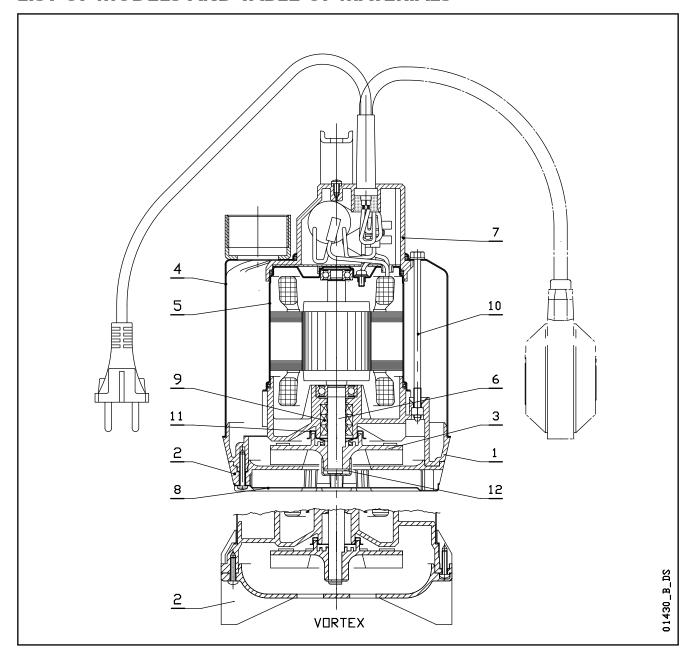
The **SOS Kit** is available, for quick emergency dewatering of flooded basements, garages and residential buildings.

The kit is composed of:

- a single-phase **DOC3** electric pump, equipped with float switch, 10 meters power cord with plug and a quick coupling already mounted for rapid hose connection.
- 6 meters long **flexible hose**, complete with quick coupling already mounted for rapid pump connection.
- **plastic box** that can be used to store the kit on a shelf when not in use, or as a strainer during operation.



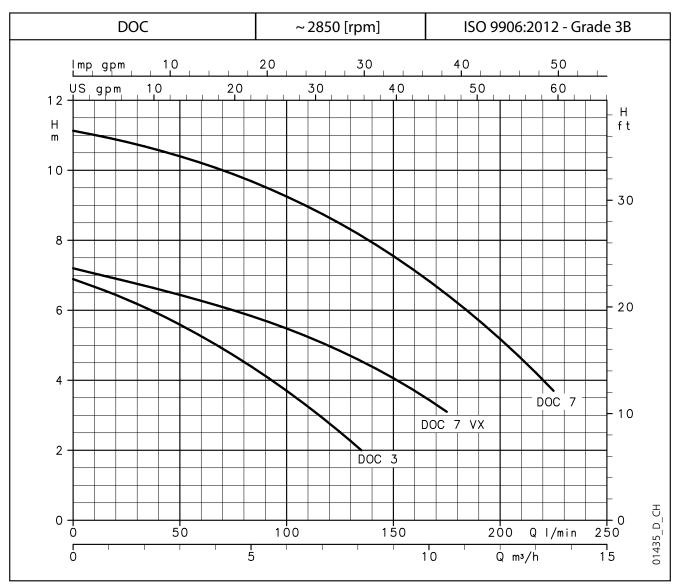
DOC SERIES LIST OF MODELS AND TABLE OF MATERIALS



REF.	NAME	MATERIAL	L REFERENCE STANDARDS					
N.			EUROPE	USA				
1	Pump body	PPE + PS resin + 2	20 % GF					
2	Suction strainer	PPE + PS resin + 20 % GF						
	Lower support	PPE + PS resin + 2	20 % GF					
3	Impeller DOC3	PPE + PS resin + 2	20 % GF					
5	Impeller DOC7 - DOC7VX	PA 66 + 30 % GF	66 + 30 % GF					
4	External case	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304				
5	Internal motor casing	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304				
6	Shaft	Stainless steel	EN 10088-1-X12CrS13 (1.4005)	AISI 416				
7	Head	PPE + PS resin + 20 % GF						
8	Lower cover	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304				
9	Elastomers	NBR						
10	Tie-rod and screws	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304				
11	Double wear ring	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304				
12	Impeller fixing ring	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304				



DOC SERIES OPERATING CHARACTERISTICS AT 50 Hz



HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	RA					Q =	DELIVERY	•				
	PO	WER	l/min	0	25	50	75	100	125	135	175	225
			m³/h	0	1,5	3	4,5	6	7,5	8,1	10,5	13,5
	kW	HP				H = TOTA	AL HEAD M	ETRES COL	UMN OF W	ATER	,	
DOC3	0,25	0,33		6,9	6,3	5,6	4,7	3,7	2,5	2,0		
DOC7(T)	0,55	0,75		11,1	10,8	10,4	9,9	9,3	8,5	8,1	6,5	3,7
DOC7VX(T)	0,55	0,75		7,2	6,8	6,4	6,0	5,5	4,8	4,5	3,1	

These performances are valid for liquids with density $\rho=$ 1,0 kg/dm³ and kinematic viscosity $\nu=$ 1 mm²/s.

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ELECTRICAL DATA TABLE

PUMP TYPE SINGLE-PHASE	ABSORBED POWER*	ABSORBED CURRENT* 220-240 V	CAPACITOR	
	kW	Α	μF / 450 V	
DOC 3	0,31	1,43	6,3	
DOC 7	0,78	3,47	16	
DOC 7VX	0,66	2,96	16	

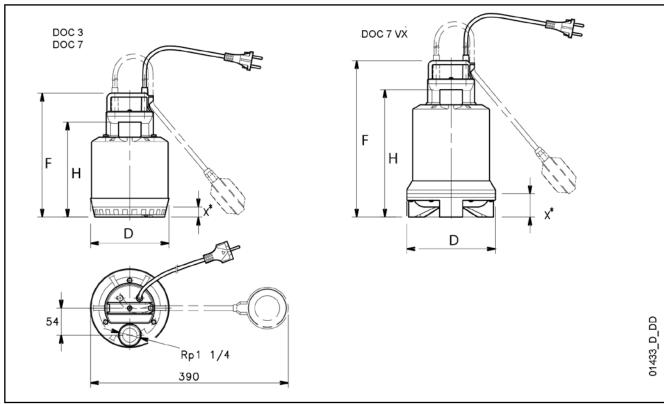
PUMP TYPE	ABSORBED	ABSORBED	ABSORBED
	POWER*	CURRENT*	CURRENT*
THREE-PHASE		220-240 V	380-415 V
	kW	Α	Α
-	1	-	-
DOC 7T	0,79	2,82	1,63
DOC 7VXT	0,66	2,68	1,55

*Maximum values within operating range

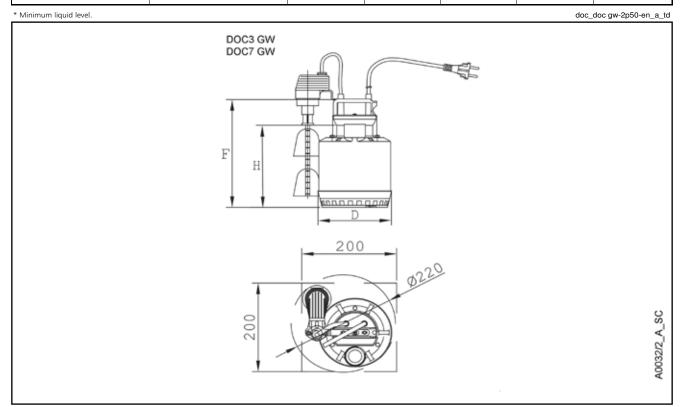
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DOC SERIES DIMENSIONS AND WEIGHTS

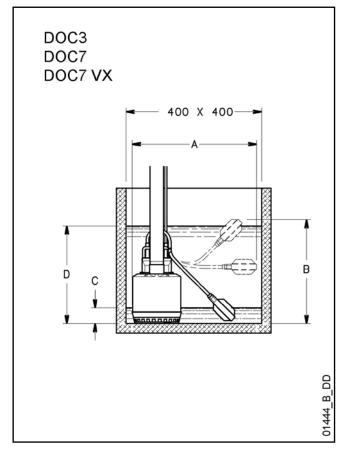


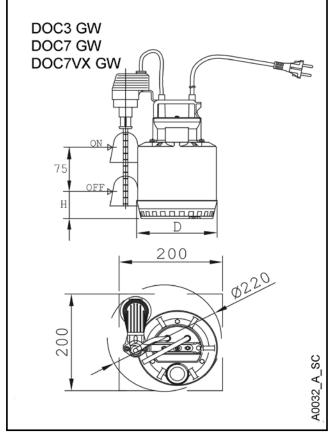
PUMP TYPE			DIMENSIONS (mm)				
		F	н	D	X*	kg	
DOC3	DOC3 GW	245	188	155	20	4	
DOC7	DOC7 GW	285	228	155	20	6	
DOC7VX	-	310	252	175	45	6	





DOC SERIES INSTALLATION EXAMPLES





PUMP TYPE		DIMENSIO	ONS (mm)	MINIMUM WATER LEVEL	MAXIMUM WATER LEVEL	MINIMUM WATER LEVEL
		Α	В	C*	D*	н
DOC3	DOC3 GW	390	330	50	310	75
DOC7	DOC7 GW	390	370	90	350	75
DOC7VX	-	390	395	115	375	125
-	DOC7VX GW	390	370	90	350	100

^{*} Indicative values depending on the float switch adjustment.

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ACCESSORIES

