

Technical Data



<http://www.dabpumps.us>



TECHNICAL DATA

Flow rate maximum: 34 gpm

Head up to: 145 ft

Maximum immersion depth: 49 ft

Type of pumped liquid: Clean, free from solid or abrasive substances, non-viscous, non-aggressive, non-crystallized and chemically neutral

Liquid temperature range: from 32°F to 122°F

Minimum and maximum ambient temperature: 32°F to 122°F

Set cut-in: 34 psi (+0.2)

Pump maximum diameter: 7.28 "

Power cable (m) and plug: 49ft (15 m) with plug

Single phase power input: 115V or 230V 60 Hz single phase

Possible type of installation: Fixed, horizontal or vertical. Submerged or semi-submerged. It can be installed on the surface, under the water level, or outside in a vertical position with the DOC 68 accessory (supplied separately).

Certification:

CSA, CSAus, NSF 61 and 372 (only model for drinking water)

APPLICATIONS

DTron is a 7" submersible electronic multi-impellers pump for clean water designed for use in wells and tanks. It can be used submerged, partially submerged or on the surface (with the appropriate accessory). It is suitable for use in domestic and residential environments for pressurization, rainwater reuse, gardening and irrigation activities. The pump can be installed even horizontally. It is also available in version X with 1" inlet and kit X which includes 3.2 ft (1 meter) suction hose and float to prevent the suction of impurities from the bottom. The entire pump is classified IP 68, with the DOC68 accessory (supplied separately) it becomes an IP 68 surface pump that can be used under the level of the water. On request a certified version for drinking water is available. The expansion vessel is integrated, no external expansion vessel is required.

CONSTRUCTION FEATURES OF THE PUMP

Technopolymer pump body to resist corrosion and oxidation. Integrated check valve. Integrated debris filter. Overpressure valve to resist the formation of ice in the piping and to protect from water hammer. Air-vent valve that improves priming during the first installation or in the event of emptying the tank/well. Integrated maintenance free 0.04 liter expansion vessel sized to prevent the pump from cycling in the event of small leakages and to compensate in case of water hammer.

CONSTRUCTION FEATURES OF THE MOTOR

Asynchronous submersible water cooling motor. The hydraulic side of the motor shaft is in AISI 303 stainless steel. Double mechanical seal in oil chamber ensure the pump watertight. Capacitor and integrated thermal protection.

DTRON 2 Fixed start pressure : 34 psi

DTRON 3 Adjustable start pressure : preset 34 psi via the COM BOX

ACCESSORIES



COM BOX

The Com Box allows you to change the DTRON 3's pressure settings and view any alarms.

The COM BOX connects to the DTRON 3 by PLC (Power Line Communication) so no other wiring is required.



NFC FLOAT SWITCH

Used to stop the pump in the case of low water level detection in the tank.



DOC 68

The DOC 68 allows users to install the Easybox Diver outdoors as an IP68 certified surface pump (max 8 PSI inlet pressure).



XVERSION

Designed to allow for the connection of a floating extraction hose to the 1" NPT threaded suction connector.

DTRON



SUBMERSIBLE PUMPS



DAB PUMPS INC.

3226 Benchmark Drive

Ladson, SC 29456 - USA

service.us@dabpumps.com

Tel. 1-843-797-5002

Fax 1-843-797-3366

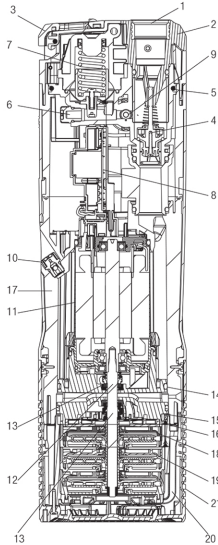


Drinking Water
NSF / ANSI 61



Drinking Water
NSF / ANSI 372

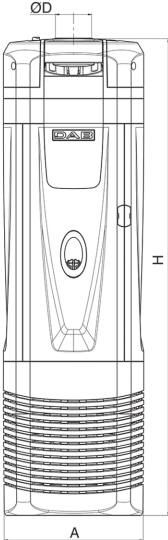
Materials



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21

N°	PARTS	MATERIALS
1	INSERT	BRASS
2	COVER	TECHNOPOLYMER
3	HANDLE	TECHNOPOLYMER
4	CHECK VALVE	TECHNOPOLYMER/NBR/VERFERRITE/ AISI302
5	OR	NBR
6	OVERPRESSURE VALVE	TECHNOPOLYMER/BRASS
7	VESSEL WITH SPRING & MEMBRANE	TECHNOPOLYMER/AISI304/EPDM70
8	PCB/CAPACITOR	--
9	PRESSURE SWITCH	TECHNOPOLYMER/BRASS
10	VENTING VALVE	TECHNOPOLYMER/AISI420/NBR
11	MOTOR SLEEVE	AISI 304
12	MOTOR SHAFT	AISI 303
13	DOUBLE MECHANICAL SEALS	RESIN IMPREGNATED CARBON/AISI304/AISI302/NBR
14	OR	NBR
15	OR	NBR
16	OR	NBR
17	MOTOR BODY	TECHNOPOLYMER
18	IMPELLER	TECHNOPOLYMER/AISI304
19	DIFFUSER	TECHNOPOLYMER
20	PUMP BODY	TECHNOPOLYMER
21	FILTER	TECHNOPOLYMER

Dimensions

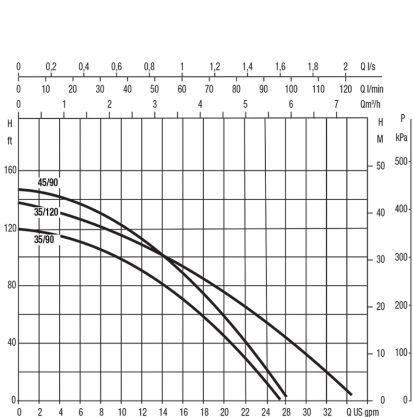


MODEL	A	H	Ø D	LBS
DTRON 35/90	7.28"	24.05"	1" 1/4 NPT	25.13
DTRON 45/90	7.28"	24.05"	1" 1/4 NPT	25.13
DTRON 35/120	7.28"	24.05"	1" 1/4 NPT	25.13

MODEL	PACKING DIMENSIONS			PACKING VOLUME ft³
	L/A	L/B	H	
DTRON 35/90	39.14"	9.06"	11.81"	1.8032
DTRON 45/90	39.14"	9.06"	11.81"	1.8032
DTRON 35/120	39.14"	9.06"	11.81"	1.8032

MODEL	VOLTAGE 60Hz	Power		In A
		kW	HP	
DTRON 35/90	1 x 110 - 127V	0.48	0.65	7.4
	1 x 208 x 240V	0.52	0.7	3.4
DTRON 45/90	1 x 110 - 127V	0.67	0.89	9.7
	1 x 208 x 240V	0.6	0.8	4.2
DTRON 35/120	1 x 110 - 127V	0.67	0.89	8.8
	1 x 208 x 240V	0.6	0.8	4.0

Curves



MODEL		HYDRAULIC DATA							
		Q gpm	0	5	10	15	20	25	30
DTRON 35/90	H (ft)	118	112	98	76	46	9		
DTRON 45/90		145	135	117	80	55	15		
DTRON 35/120		135	124	110	92	72	50	24	3

DTRON 2	CODE	DTRON 3	CODE
DTRON2 35/90 115v	60197689	DTRON3 35/90 115v	60197699
DTRON2 35/90 230v	60197904	DTRON3 35/90 230v	60197891
DTRON2 45/90 115v	60195643	DTRON3 45/90 115v	60195642
DTRON2 45/90 230v	60197723	DTRON3 45/90 230v	60197865
DTRON2 35/120 115v	60197690	DTRON3 35/120 115v	60197703
DTRON2 35/120 230v	60197744	DTRON3 35/120 230v	60197876

DTRON2 X 35/90 115v	60202762	DTRON3 X 35/90 115v	60202765
DTRON2 X 45/90 115v	60202763	DTRON3 X 45/90 115v	60202766
DTRON2 X 35/120 115v	60202764	DTRON3 X 35/120 115v	60202767
NFC FLOAT SWITCH	60184577	DOC 68 NPT	60192276