01 Specs 01Titel	SPA 100-13	20.03.17 KF VS.01	Project No.
Item / No.	Description/ Quantity/ Unit	Unit price	Total price
01.1 Position	**Description:** **Submersible pump, suitable for clean water. Can be installed vertically or horizontally. The pump is fitted with sand shield, lip seal, water-lubricated journal bearings and a volume compensating diaphragm. The motor is a canned type submersible motor offering good mechanical stability and high efficiency.** Suitable for wet assembly. **Environmental conditions for wet application (waterquality):** Installation and operation in fresh-, pool- and seawater.* **Technical data:** Weight: 66 Kg Dimensions (Lx W x H): incl. Filter 1162x310x314 [mm] Speed for pump data: 2900 1/min Rated flow: 77 m³/h Rated head: 12 m Approvals on nameplate: CE,GOST2 Curve tolerance: ISO9906:2012 3B Motor version: T40 **Materials:** Pump: Stainless steel /EN 1.4301/ AISI 304 Impeller: Stainless steel /EN 1.4301/ AISI 304 Motor: Stainless steel /EN 1.4301/ AISI 304 Shaft seal for motor: CER/CARNBR **Installation:** Pump outlet (Inside thread): RP5 **Electrical data:** Motor type: MS6000 Rated power - P2: 5.5 kW Power (P2) required by pump: 5.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 400 V Rated current: 13.4 A Starting current: 5,1 Cos phi- power factor: 0.78 Rated speed: 2880 1/min Start method: Star/delta (Y/D) Enclosure class (IEC 34-5): IP68 Insulation class(IEC 85): F		

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*

water-quality-matrix

	Freshwater	Poolwater	Seawater
PH.Value	**7,2 -7,6**	**7,2 -7,6**	**8**
Hardness	**8 -15 ° DH; 142 -267 ppm CaCo3**	**8 -15 ° DH; 142 -267 ppm CaCo3**	**20 -30 ° DH; 356 - 534 ppm CaCo3**
Free Chlorine	**< 0,3 mg/l; < 0,036 moz/gal**	**0,3 -0,6 mg/l; 0,036 - 0,072 moz/gal**	**< 0,3 mg/l; < 0,036 moz/gal**
Chlorine concentration	**< 250 mg/l; < 30,28 moz/gal**	**< 200 mg/l; < 24,2 moz/gal**	**<=22000 mg/l; <=2664 moz/gal**
Salinity	**n. d.**	**n. d.**	**<= 4%; **<u>**<= 40.000 ppm**</u>
Total Dry Residue	**< 50 mg/l; < 6,06 moz/gal**	**< 50 mg/l; < 6,06 moz/gal**	**< 250mg/l; < 30,28 moz/gal**
Temperature	**4 -35° C; 39 - 95 ° F**	**4 -30° C; 39 - 86 ° F**	**4 - 20 ° C; 39 - 68 ° F**

Supply and delivery according to manufacturer specifications.

Product / proof of delivery:
SPA 100-13
Art. 53852

OASE GmbH
Tecklenburger Str. 161
48477 Hörstel / Germany
Phone: +49 5454 800

(or equivalent)
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Entered by the bidder