

01 Specs 01Titel	Varionaut 270 / DMX / 02	10.05.16 KF VS.03	Project No.
Item / No.	Description/ Quantity/ Unit	Unit Price	Total
01.1 Position	Description: DMX-RDM* compatible / controllable** pump Durably waterproof housing with fully encapsulated motor coil, incl. DMX-RDM control box, filter basket, cable and connection box for DMX-RDM, cable with plug for 230 V AC power and integrated stand. Oil-free pump. Suitable for dry and wet assembly. Environmental conditions for dry application: Max. air temperature: 40 °C with forced convection No direct sun radiation allowed! Environmental conditions for wet application (waterquality): Installation and operation in fresh- and poolwater.*** Technical data: Dimensions (L x W x H): 487 x 213 x 266 [mm] incl. Filter Suction side (Outside thread): G2 Pressure side (Outside thread): G2 Protection class: IP 68 / 4 m Hmax: 10 m Ws Qmax: 270 l/min Qmin (DMX=0): 10 l/min Total Weight: 12.1 kg Power consumption: 380 W Nominal Voltage: 230 V , 50/60 Hz Nominal Current: 1.8 - 2 [A] Hydraulic ramp up time (0-100%): 1 s DMX-RDM compatible: Yes Configuration/Parameterization in build-in status: Yes Number of DMX channels: 2 Overheating protection: Yes Max. number of on/off cycles: 1/min Pump housing material: PA-GF Motor: Type: 230 V EC-motor Regular range of operation: 500 - 2700 [1/min] Number of DMX channels allocated: 2 Material Housing: PBT-ASA Filter Basket: Filter surface area: 1100 cm² Mesh size: 2 x 6 [mm] Material: Stainless steel 1.4301 Cable and connection-boxes: All signals with galvanic separation in connection boxes.		

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	<u>DMX-cabling:</u> DMX slots (XLR): 1 x Input (special version) 1 x Output Integrated water barrier Yes Pin allocation: Pin 1: shield Pin 2: minus Pin 3: plus Pin 4: n.c. Pin 5: n.c. <u>Power-cabling:</u> Approx. 10m cable with standart plug Cable (H07-RNF 3G1): 3 x 1,0 mm² <u>Stand:</u> 4 holes for fixation to pool bottom Material: Stainless steel 1.4301 Hole diameter: 12 mm *DMX RDM [Remote Device Managment] is a bidirectional bus for querying and programing of DMX-devices. A RDM control unit is capable of identifying connected devices and to -partial automatically- configure them. DMX RDM devices can be operated simultaneously with simple DMX devices at the same time. ** no additional frequency convertor needed *** <table border="1"> <thead> <tr> <th colspan="4">water-quality-matrix</th></tr> <tr> <th></th><th>Freshwater</th><th>Poolwater</th><th>Seawater</th></tr> </thead> <tbody> <tr> <td>PH.Value</td><td>7,2 -7,6</td><td>7,2 -7,6</td><td>8</td></tr> <tr> <td>Hardness</td><td>8 -15 ° DH; 142 -267 ppm CaCo3</td><td>8 -15 ° DH; 142 -267 ppm CaCo3</td><td>20 -30 ° DH; 356 - 534 ppm CaCo3</td></tr> <tr> <td>Free Chlorine</td><td>< 0,3 mg/l; < 0,036 moz/gal</td><td>0,3 -0,6 mg/l; 0,036 - 0,072 moz/gal</td><td>< 0,3 mg/l; < 0,036 moz/gal</td></tr> <tr> <td>Chlorine concentration</td><td>< 250 mg/l; < 30,28 moz/gal</td><td>< 200 mg/l; < 24,2 moz/gal</td><td><=22000 mg/l; <=2664 moz/gal</td></tr> <tr> <td>Salinity</td><td>n. d.</td><td>n. d.</td><td><= 4%; <= 40.000 ppm</td></tr> <tr> <td>Total Dry Residue</td><td>< 50 mg/l; < 6,06 moz/gal</td><td>< 50 mg/l; < 6,06 moz/gal</td><td>< 250mg/l; < 30,28 moz/gal</td></tr> <tr> <td>Temperature</td><td>4 -35° C; 39 - 95 ° F</td><td>4 -30° C; 39 - 86 ° F</td><td>4 - 20 ° C; 39 - 68 ° F</td></tr> </tbody> </table> Supply and delivery according to manufacturer specifications. Product / proof of delivery: Varionaut 270 / DMX / 02 Art. 40758 OASE GmbH Tecklenburger Str. 161 48477 Hörstel / Germany Phone: +49 5454 800 (or equivalent) Entered by the bidder	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%; <= 40.000 ppm	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		
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