

01 Specs 01Title	Varionaut 150 / DMX / 02	24.08.16 KF VS.04	Project No.
Item / No.	Description/ Quantity/ Unit	Unit Price	Total
01.1 Position	<p>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.</p> <p>Oil-free pump.</p> <p>Suitable for dry and wet assembly.</p> <p>Environmental conditions for dry application: Max. air temperature: 40 °C With forced convection No direct sun radiation allowed!</p> <p>Environmental conditions for wet application (waterquality): Installation and operation in fresh-, poolwater.***</p> <p>Technical data: Dimensions (Lx W x H): 311 x 161 x 158 mm incl. Filter Suction side (Outside thread): G 1 ½ Pressure side (Outside thread): G 1 ½ Protection class: IP 68 / 4 m Hmax: 5,6 m Ws Qmax: 150 l/min Qmin (DMX=0): 24 l/min Total Weight: 4,9 kg Power consumption: 130 W Nominal Voltage: 220-240 V , 50/60 Hz Nominal Current: 1.3 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: PET-GF</p> <p>Motor: Type: 230 V EC-Motor Regular range of operation: 800-3920 [1/min] Number of DMX channels allocated : 2 Housing material: PET-GF</p> <p>Filter Basket: Filter surface area: 220 cm² Mesh size: 3 mm Material: Stainless steel /ABS</p> <p>Cable and connection-boxes: All signals with galvanic separation in connection boxes. Housing material: PET-GF</p>		

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	<p>DMX-cabling: 1 m DMX cable and DMX connection box Cable (AES/EBU CableBinary 234) 4 x 0.34 mm² DMX plug socket (XLR): 1 x In (special version) 1 x Out Integrated water barrier: yes Pin allocation: Pin 1: shield Pin 2: minus Pin 3: plus Pin 4: n.c. Pin 5: n.c.</p> <p>Power-cabling: 10 m power cable incl. standard plug: Cable (H05RN-F): 3 x 1.0 mm²</p> <p>Stand: 2 holes for fixation to pool bottom Material: ABS Hole diameter: 5.8 mm</p> <p>*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 ***</p>				
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		
<p>Supply and delivery according to manufacturer specifications.</p> <p>Product / proof of delivery: Varionaut 150 / DMX / 02 Art. 50343</p> <p>OASE GmbH Tecklenburger Str. 161 48477 Hörstel / Germany Phone: +49 5454 800</p> <p>(or equivalent) Entered by the bidder</p>					