

01 Specs 01Title	Fountain Technology / Varionaut 150 24V / DMX / 02	24.08.16 KF VS.04	Project No.
Item / No.	Description/ Quantity/ Unit	Unit Price	Total
01.1 Position	<p><b>Description:</b>  <b>DMX-RDM* compatible / controllable** pump</b>  <b>Durably waterproof housing with fully encapsulated motor coil, incl. DMX-RDM control box, filter basket, cable and connection box for both DMX-RDM and 24V power supply and integrated stand.</b></p> <p><b>Oil-free pump.</b></p> <p>Suitable for dry and wet assembly.</p> <p><b>Environmental conditions for dry application:</b>  Max. air temperature: 40 °C  with forced convection  No direct sun radiation allowed!</p> <p><b>Environmental conditions for wet application (waterquality):</b>  Installation and operation in fresh- and poolwater.***</p> <p><b>Technical data:</b>  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 mWs  Qmax: 145 l/min  Qmin (DMX=0): 22 l/min  Total Weight: 5 kg  Power consumption: 120 W  Nominal Voltage: 24 V DC  Nominal Current: 5 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  Reverse polarity protection: yes  Max. number of on/off cycles: 1/min  Pump housing material: PET-GF</p> <p><b>Motor:</b>  Type: 24 V DC EC-Motor  Regular range of operation: 858 - 3234 [1/min]  Number of DMX channels allocated: 2  Housing material: PET-GF</p> <p><b>Filter Basket:</b>  Filter surface area: 220 cm²  Mesh size: 3mm  Material: Stainless steel /ABS</p> <p><b>Cable and connection-boxes:</b>  All signals with galvanic separation in connection boxes.  Housing material: PET-GF</p>		

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	<p><b>DMX-cabling:</b>            1 m DMX cable and DMX connection box            Cable (AES/EBU Cable Binary 234 ): 4 x 0.34 mm<sup>2</sup>            DMX plug (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><b>Power-cabling:</b>            1 m 24V cable and power connection box            Cable (H07RN-F): 2 x 1,5 mm<sup>2</sup>            24 V Power Plug socket 2 x special version            (input and output):            Integrated water barrier: yes</p> <p><b>Stand:</b>            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>		
<b>water-quality-matrix</b>			
	<b>Freshwater</b>	<b>Poolwater</b>	<b>Seawater</b>
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:  <b>Varionaut 150 24V / DMX / 02</b>  <b>Art. 50665</b></p> <p>OASE GmbH            Tecklenburger Str. 161            48477 Hörstel / Germany            Phone: +49 5454 800</p> <p>(or equivalent)            .....            Entered by the bidder</p>			