

01 Specs 01Titel	Varionaut 90 24V / DMX / 02	05.09.2016 KF VS.03	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,</b>  <b>incl. filter basket, cables and connection boxes for DMX-RDM and power and a 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): 268 x 142 x 170 mm  incl. Filter  Suction side (Outside thread): G 1 ½  Pressure side (Outside thread): G 1  Protection class: IP 68 / 4 m  Hmax: 2.6 mWs  Qmax: 95 l/min  Qmin (DMX=0): 26 l/min  Total Weight: 3.7 kg  Power consumption: 60 W  Rated Voltage: 24V DC  Rated Current: 2.5 A  Hydraulic ramp up time (0-100%): &lt; 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  Rest cycle after switch off: 10 s  Pump housing material: PET-GF</p> <p><b>Motor:</b>  Type: 24 V DC EC-motor  Max. Motor speed: 3393 1/min  Regular range of operation: 1098 - 3393 [1/min]  Number of DMX channels allocated : 2  Material Housing: PET-GF</p> <p><b>Filter Basket:</b>  Filter surface area: 220 cm²  Mesh size: 2.3 mm  Material: Stainless steel /ABS</p> <p><b>Cables 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 CableBinary 234 ) 4 x 0.34 mm<sup>2</sup>            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><b>Power-cabling:</b>            1.0 m 24 V power cable and 24 V connection box with connection for 2 power cables            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>            With 4 holes for fixation to pool bottom            Material ABS            Hole diameter: 6.3 mm</p> <p>*DMX RDM [Remote Device Management] is a bidirectional bus for querying and programming 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
Chloride 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 90 24V / DMX / 02</b>  <b>Order no. 50136</b></p> <p>OASE GmbH            Tecklenburger Str. 161            48477 Hörstel / Germany            Phone: +49 5454 800</p> <p>(or equivalent)            .....            Entered by the bidder</p>			