



BSK[®]-Clear Water Decaners for SBR-WWTPs

Questionnaire as Basis for a Quotation

For the discharge of treated wastewater out of Sequenced Batch Reactors our BSK[®]-decaners have been proven as outstanding equipment for long-term reliable operation and excellent standing. Worldwide, more than hundred systems are operating for the full satisfaction of our customers. A detailed description of the BSK[®]-decaners is provided with our info bulletin no. 065, where function and construction are accurately described. Moreover, at our homepage (www.biogest-international.de) plenty of additional information is available.

In order to simplify the fill-in of the following questionnaire, it is recommended to take a look in the info-bulletin no. 065, which contains plenty of details regarding the construction, function and material of BSK[®]-decaners. Based on this product-information it is easier to fill-in the questionnaire.

We are looking forward to the submittal of the project-information and will be eager to provide you with an interesting and competitive offer.

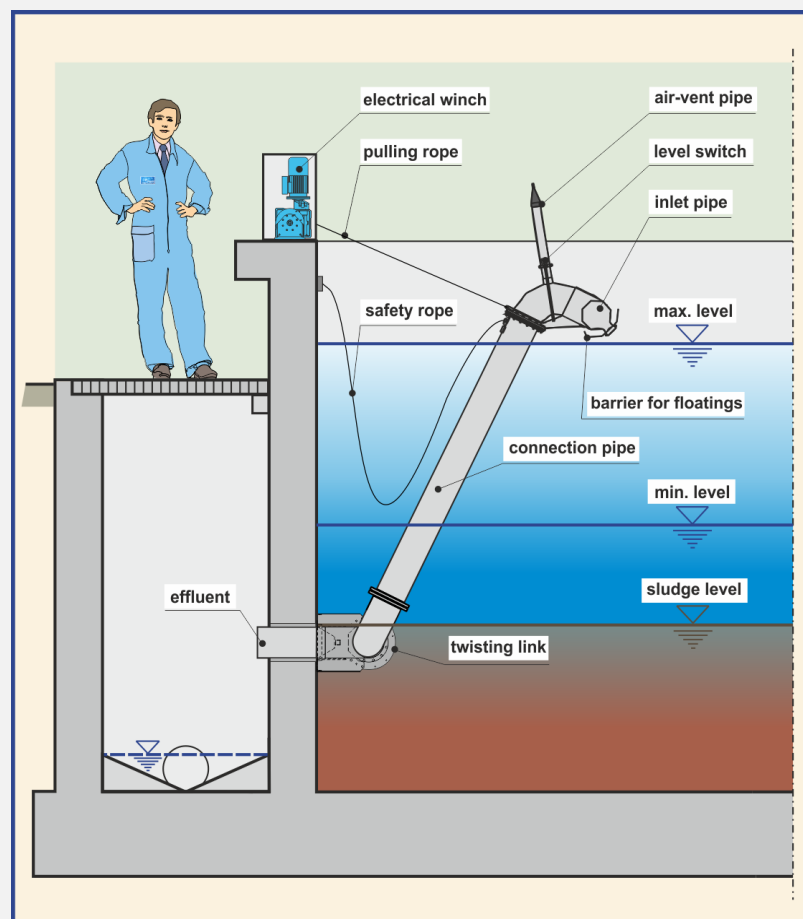
1. Basic Information

1.1	Project code Project no.:		
1.2	Your name :		
1.3	Detailed personnel information:	<input type="checkbox"/> outlook office business card is attached <input type="checkbox"/> see following information	
1.4	Your company (name):		
1.5	Company address:	postal code	town
		street	
1.6	Country Town:		
1.7	Your office phone number:		
1.8	Your mobile phone number:		
1.9	E-Mail-address:		
1.10	Skype-address:		
1.11	Other communication choices:		



2. Detailed Project Information

2.1	Project location:	country:	town:
2.2	Expansion or new construction?	<input type="checkbox"/> expansion	<input type="checkbox"/> new construction
2.3	Quantity of SB-Reactors:		each
2.4	Quantity of decanters per reactor:		each
2.5	Kind of reactor:	<input type="checkbox"/> circular	<input type="checkbox"/> square <input type="checkbox"/> rectangular
2.6	Imbedding of reactor below ground:		m



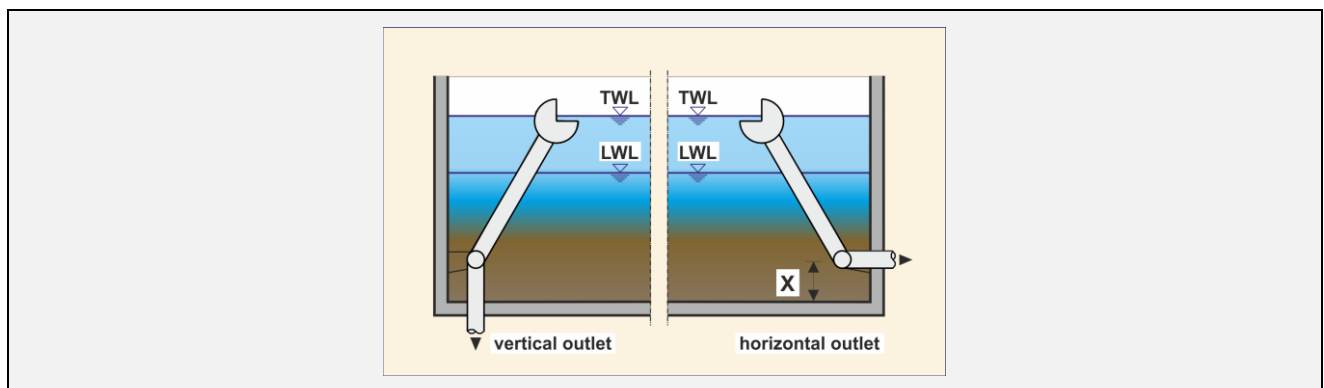
General layout of a BSK®-decanner



2.7	Geometrical figures of the SB-Reactor(s):	<input type="checkbox"/> diameter (circular tanks): m <input type="checkbox"/> length x width at rectangular/ square tank(s): <div style="text-align: right; margin-right: 20px;">x</div> m clear height of reactor: m
2.8	Material of SB-Reactor:	<input type="checkbox"/> concrete material <input type="checkbox"/> steel material <input type="checkbox"/> glass coated steel <input type="checkbox"/> others:
2.9	Drawing of SB-Reactor / project:	<input type="checkbox"/> attached <input type="checkbox"/> not available <input type="checkbox"/> freehand-sketch attached
2.10	Covering of reactor:	<input type="checkbox"/> without cover <input type="checkbox"/> with cover
2.11	In case of cover: Kind of covering:	<input type="checkbox"/> plastic dome <input type="checkbox"/> concrete floor <input type="checkbox"/> others:
2.12	Hydraulic performance data (hydraulic capacity of each decanter):	<input type="checkbox"/> discharge quantity/reactor: m ³ <input type="checkbox"/> decanting time: <input type="checkbox"/> requested number of decanters/reactor: ea. <input type="checkbox"/> resulting hydraulic capacity of each decanter: m ³ /h
2.13	Special requirements with respect to the discharge hydraulic: (recommendation: decreasing of discharge quantity)	<input type="checkbox"/> discharge quantity must be relatively constant <input type="checkbox"/> discharge quantity should decrease with increasing proximity to the sludge level (to avoid whirling up close to the sludge level) <input type="checkbox"/> max. allowed discharge quantity per reactor (by possible limits at the discharge side): m ³ /h



<p>2.14 Maximum water level (“TWL”):</p> <p>Minimum water level (“LWL”):</p> <p>Distance of the effluent pipe above bottom of tank (“X”):</p> <p>(Please see following illustration)</p>		m
		m
	<input type="checkbox"/> not less than	m
	<input type="checkbox"/> not more than	m
	<input type="checkbox"/> exactly	m
	<input type="checkbox"/> no preference	



2.15	Direction of discharge pipe:	<input type="checkbox"/> horizontally through the reactor wall <input type="checkbox"/> vertically downwards through the reactor bottom
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2.16	Decanter-pipe end designed as:	<input type="checkbox"/> DIN-flange <input type="checkbox"/> free pipe end with pipe coupling
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2.17	Kind of outflow condition behind the decanter:	<input type="checkbox"/> free discharge without counterpressure <input type="checkbox"/> discharge into a storage basin with max. back pressure above bottom of the reactor m
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2.18	Requested material for all parts of the decanter (parts below water (wetted parts):	<input type="checkbox"/> stainless steel, 1.4301 (V2A) – AISI 304 <input type="checkbox"/> stainless steel, 1.4571 (V4A) – AISI 316 <input type="checkbox"/> special material request: see 2.19
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2.19	Individually requested special material:	
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2.20	Is the WWTP located within an ex-zone?	<input type="checkbox"/> yes <input type="checkbox"/> according to ATEX zone <input type="checkbox"/> no
2.21	Available electrical supply:	<input type="checkbox"/> 400 V / 50 Hz / 3 phases – or <input type="checkbox"/> special conditions: Volt / Hz
2.22	Shadow temperatures (summer/winter) and humidity:	<input type="checkbox"/> maximum summer temperature: + °C <input type="checkbox"/> minimum winter temperature: - °C <input type="checkbox"/> low air humidity <input type="checkbox"/> high air humidity
2.23	Specific requests for operation control (immersion- and operation control):	<input type="checkbox"/> standard control with limit switches (winch) <input type="checkbox"/> immersion control with conductive sensor <input type="checkbox"/> immersion control with pressure sensor <input type="checkbox"/> sludge density control (turbidity sensor) <input type="checkbox"/> local switch box
2.24	Other requested equipment – individual requirements of our customer: (if necessary, detailed requirements could be attached to this questionnaire)	



Example of a local switchbox for one BSK®-decanter. The cabinet could be produced by use of glass fiber reinforced plastic (GRP) or stainless steel. Moreover, the front side could be covered by a moveable door with glass-window (for protection of dust).



Example of a local stand-alone control system (plug and play), operating two (2) BSK®-decanters completely independent to the customer's PLC. This cabinet is equipped with a moveable cover with glass window. glass-window (for protection of dust).



<p>2.25</p>	<p>Electrical control of the decanting process:</p>	<ul style="list-style-type: none"> <input type="checkbox"/> a local control of the winch-operation is provided by our customer (based on information by Biogest International) <input type="checkbox"/> a local switchbox for test-run shall be delivered by Biogest International (wire connection to the central PLC) <input type="checkbox"/> a complete control panel including all necessary equipment for operating the decanter shall be delivered by Biogest International <input type="checkbox"/> additional requirements or specific requests:
<p>2.26</p>	<p>Additional equipment of the electrical winch:</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Biogest-standard is sufficient (not covered) <input type="checkbox"/> complete moveable cover (aluminium) <input type="checkbox"/> tropicalisation of gear drive <input type="checkbox"/> including heating and isolation of the cover



BSK®-decanting winch including drum, electrical drive and limit switchbox



Emergency limit switch to prevent uncontrolled lifting of the decanter



3. Additional Information and Specific Requests for our Quotation

3.1	Project background:	<input type="checkbox"/> only feasibility study <input type="checkbox"/> current project (shortly tendered) <input type="checkbox"/> already published public tender <input type="checkbox"/> already published private tender <input type="checkbox"/> project realization time frame (MM/YYYY): /
3.2	Individual background:	<input type="checkbox"/> decanter for own needs (I am plant operator) <input type="checkbox"/> planning office (wants to include BSK®-decanters) <input type="checkbox"/> reseller (we are buying and selling for a concrete project) <input type="checkbox"/> others:
3.3	Requested delivery time (in case of order):	months after placement of the order
3.4	Requested delivery term: (Incoterms 2010)	<input type="checkbox"/> ex works (EXW) <input type="checkbox"/> free carrier <input type="checkbox"/> delivered at place (DAP) <input type="checkbox"/> free harbour (CIF) <input type="checkbox"/> name of harbour <input type="checkbox"/> transport will be organized by client <input type="checkbox"/> requested kind of transport (container / truck / etc.):
3.5	Requested service performed by Biogest International:	<input type="checkbox"/> only delivery (as defined under 3.4) <input type="checkbox"/> only supervision of assembly (assembly by customer) <input type="checkbox"/> including complete assembly <input type="checkbox"/> installation control before start-up <input type="checkbox"/> start-up and training of local personnel



3.6	Technical documentation:	<input type="checkbox"/> German <input type="checkbox"/> English <input type="checkbox"/> French <input type="checkbox"/>
3.7	Language of offer:	<input type="checkbox"/> German <input type="checkbox"/> English <input type="checkbox"/> French <input type="checkbox"/>
3.8	Required submittal date of quotation:	<input type="checkbox"/> occasionally, not top-urgent, but latest at <input type="checkbox"/> asap, latest <input type="checkbox"/> Immediately!! We need the quotation until
3.9	Additional documents to be added as attachment of the quotation: <small>(please attach these documents to the offer)</small>	<input type="checkbox"/> reference list <input type="checkbox"/> history cases <input type="checkbox"/>
3.10	Attached documents / information to complete this questionnaire:	<input type="checkbox"/> task description <input type="checkbox"/> detailed technical specification <input type="checkbox"/> extract of tender documents <input type="checkbox"/> project drawing(s) <input type="checkbox"/>
3.11	Kind of delivery of the requested quotation:	<input type="checkbox"/> by e-mail <input type="checkbox"/> by conventional mail <input type="checkbox"/>
3.12	Responsible person for this questionnaire and address for quotation:	name: direct dial: e-mail:

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(Place)

(Date)