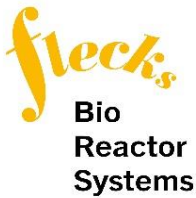


B.R.O.M. Complete up-scaling system		calculator			
We offer you the possibility to select various equipment modules from this list as you may require for forming your complete upscaling-unit. B.R.O.M. as an operation module may be connected upto 3 vessels. ( i.e. for substrate, propagation, bioreactor)					
Modules	please select qty:	qty	Example in EURO		
B.R.O.M. /Bypass DN40	182.000,00	1	182.000,00		
Sensors...starting from:	20.000,00	1	20.000,00	With this simple Excel calculator for investment costs for a <b>B.R.O.M.+</b> system, you can estimate your investment in necessary equipment. Excluded: down stream processing	
<b>Bioreactor vessels, with agitator/aerator</b>					
300	9.000,00	1	9.000,00		
1.000	18.000,00		-		
2.000	21.000,00	1	21.000,00	Fitting for any type of reactor: batch, fed-batch, airlift, continuous, ...	
10.000	35.000,00		-		
			-		
			-		
<b>Calandria heating/cooling</b>				<b>Including:</b>	
22 kW	9.000,00	1	9.000,00		
77 kW	20.000,00		-		
144 kW	28.000,00		-		
<b>Substrate reactors in Litres</b>				<b>Sensors</b>	
with agitator (FLECKS Mixer)					
500	12.000,00	1	12.000,00		
2.000	24.000,00		-		
<b>Flash pasteurizer</b>				<input type="checkbox"/> temperature	
500 l/h	25.000,00	1	25.000,00	<input type="checkbox"/> pressure	
1000 l/h	35.000,00		-	<input type="checkbox"/> pH	
2000 l/h	45.000,00		-	<input type="checkbox"/> Redox	
<b>CIP/SIP</b>				<input type="checkbox"/> dissolved oxygen	
3x150l tanks	26.000,00	1	26.000,00	<input type="checkbox"/> mass flow meter liquid	
3x300l tanks	33.000,00		-	<input type="checkbox"/> mass flow meter gas	
			-	<input type="checkbox"/> foam dedection	
<b>Cooling plant (-3°) glycol/water</b>				<input type="checkbox"/> Exit gas pressure	
cooling power				<input type="checkbox"/> Water	
7 kW	10.000,00	1	10.000,00	<input type="checkbox"/> Compressed air	
15 kW	20.000,00		-	<input type="checkbox"/> Steam	
23 kW	30.000,00		-	<b>Controls</b>	
30 kW	35.000,00		-		
<b>Services, Installation, Commissioning, Support</b>					<input type="checkbox"/> SIMATIC
	15.000,00	1	15.000,00		<input type="checkbox"/> SCADA
<b>Delivery (4-5 months)</b>	5.000,00	1	5.000,00	<input type="checkbox"/> Touchscreen	
				<input type="checkbox"/> Remote control	
<b>Total</b>			<b>334.000,00</b>	<input type="checkbox"/> Data interface (CSV)	
Pricelist valid 2024. All prices in EURO, not containing any VAT/Customs.				<input type="checkbox"/> Auto Sampling	