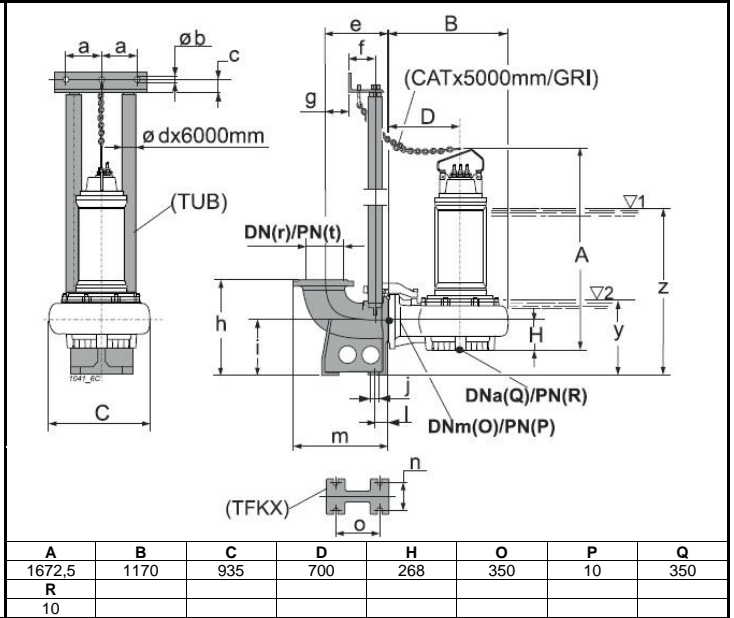
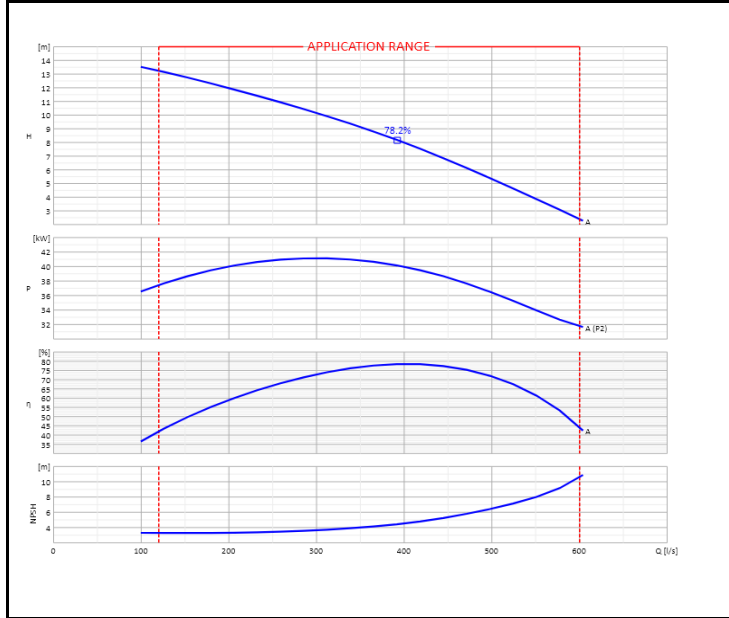




# Harmony of the Nature



Type	SUBMERSIBLE ELECTRIC PUMP FOR WASTE WATER	Model	<b>KONTROLL KC-100.420.8RA</b>
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OPERATING DATA - ISO 9906:2012 3B -					CONSTRUCTION CHARACTERISTICS				
Q [l/s]	H [m]	P [kW]	η [%]	NPSH [m]					
					Delivery diameter	350 mm			
					Type of Impeller	Double channel			
					Moment of inertia	4.65075 Kgm <sup>2</sup>			
					Electric pump weight	Installation	1155	-	Kg
					Seal on pump side	Motor side	Mechanical	Mechanical	Mechanical
					Type of installation	-			
					Operation	Continuous (S1)			

OPERATING LIMITS				OPERATING CHARACTERISTICS				
Pumped liquid	Waste water			Service flow rate	-			
Max. temperature of pumped liquid	40	°C		Service head	-			
Maximum density	1	kg/dm <sup>3</sup>		H (Q=0)	Hmax	16.1	13.2	m
Maximum viscosity	1	mm <sup>2</sup> /s		Qmin	Qmax	120	600	l/s
Max. solid content	4	%		Power consumption at duty point	-			
Max. number of starts/hr	10			Max power consumption	41.1 kW			
Free passage	164	mm		Pump efficiency	Overall	-	-	-
Minimum immersion depth	1002	mm		Sense of rotation (*)	Clockwise			
<b>ELECTRIC PUMP MATERIALS</b>				Number of pumps installed	Operating	Stand-by		
					1	0		
Delivery body	Cast iron			<b>ELECTRIC MOTOR CHARACTERISTICS</b>				
Support bearing	Nodular cast iron			Nominal power	42	kW		
Impeller	Cast iron			Rated frequency	50	Hz		
Oil box	Cast iron			Rated voltage	400	V		
Head cover	Cast iron			Rated current	90.5	A		
Ring impeller seat	Steel/Rubber			No. Poles	8	720	1/min	
Cable clamp	Cast iron			Rotation speed				
Round power cable	-			Type of motor	3 ~			
Round auxiliary cable	-			Efficiency 4/4	86.3 %			
Motor casing	Cast iron			Power factor 4/4	0.775			
Shaft	Stainless steel			Is/In	4	-		
Conductivity probe	-			Ts/Tn	-			
Mechanical seal on pump side	Silicon carbide/silicon carbide			Thermal protection	Klixon			
Mechanical seal on motor side	Silicon carbide/silicon carbide			Insulation class	F			
Screws and nuts	Stainless steel			Protection class	IP68			
				Explosion-proof	n.a.			
				Power supply cable	Length	H07RN-	10	m
				Efficiency class	S.F	1		