Item	Description				Quant.	Unit pr.	Gross price
1	WASTEWAT	ER PUMP					
1 1.1	KCW080HG- KCW080HG- SUBMERSIB -pump casing -vortex impel -shaft, nuts, k -flanged discl -double mech chamber: *mechanical -motor: asynd supported by -protections: *thermal prot *conductivity pumped fluid -painting: epo -power cable Technical dat Q H Impeller type Free passage Poles'n° Frequency	FOO2241N1 FOO2241N1 LE ELECTRIC F g, oil chamber and ler in cast iron key polts and oil plug harge port comp hanical seal on the seal at pump sid seal at motor sid chronous, threep grease lubricate bes connected in probe fitted into boxy coating, appr NSSHÖU-J. ta / Operating dat	nd moto eyed of gs in sta- blete wi he shad de in sil de in gr ohase, ed ball n series the oil roved f ata : : : Vorte : 80 mr : 4 : 50 Hz	or casings in cast iron. In to the shaft by a feather key ainless steel. Ith seal. Ift, lubricated by the oil contained in the oil licon carbide/alumina oxide; raphite/steatite. class F insulation, IP68 protection, rotor bearings. Is and fitted in the motor winding. I chamber to detect eventual leakings of for use with drinking water.	1	0.00	0.00
	Single-phase Rated power Rated voltage Discharge siz Mounting	e ze	: 2.2 k\ : 400 \ : DN80	/ D /PN16 hanent submersible installation	al net pr	Subtotal:	0.00
				IO	ai net pr	ice	0.00 EUR
Date 2019-0	9-13	Page 1		Offer no.			



pumping power

## **Technical data**

KCW080HG+00224	1N1									
Requested data	-	[m] Hea	id 🚽	Ar	oplication	n range				
Flow	0.11	12-	<1	- <u> </u>						
Head	0 l/s	11								
Fluid	0 m Clean Water	10								
Pumpe type	Single head pump	9								
No. of pumps	1	8			<b></b>					
		7		53.9	%					
		6				$\searrow$				
Operating pump data		5								
Flow		II - I								
Head		4						~	I	
Shaft power		3								
Efficiency	%	2				1	• • • • • • • • • • • •		G	
Head H(Q=0) Discharge connection	12.4 m	1 -		1						
	80 mm		ciency							
Impeller	subm. installation DN80/PN10 Vortex		liency							
Free passage	80 mm	40		1						
passage	00 11111	30							G	
		20								
Motor data										
Frequency	50 Hz		4							
Rated voltage	400 V	[kW] Sha	π power	· [· · · · · · · ]		1			G	
Nominal speed	1450 1/min	1.6								
Number of poles	4	1.2								
Rated power P2	2.2 kW	0.8								
Rated current	5.5 A	F								
Motor type	3~	0.4	·····	+++++++++++++++++++++++++++++++++++++++	·····	÷	···;·····	····;···		
Insulation class	F	l o	4	8 12	2 .	16	20	24	28	[l/s]
Degree of protection	IP 68									
Operating limits		Operating	g data					ISC	) 9906 GRAI	DE 2
Starts per hour max.	20	Q [l/s]	H [m]	Р	? [kW]		Eff. [%]		NPSH [m]	
Maximum temperature of pu	20 mped fluid 40 °C									
Max. Density	998 kg/m <sup>3</sup>									
Max. viscosity										
Max. viscosity	1 mm²/s									
Max. viscosity		0 - 577			Dimon	sions				
		A = 577 a = ø2"			Dimen	isions	mm			
General data	1 mm²/s	A = 577 a = ø2" B = 292			Dimen	isions	mm			
		a = ø2" B = 292 b = 465			Dimen	isions	mm			
General data	1 mm²/s	a = ø2" B = 292 b = 465 C = 391			Dimen	isions	mm			
<b>General data</b> Weight	1 mm²/s	a = ø2" B = 292 b = 465 C = 391 D = 146	<u>, h</u>	h øe	Dimen	isions			→ N°W /ø X	
General data	1 mm²/s	$a = \phi 2"$ B = 292 b = 465 C = 391 D = 146 d = 35	10 h	h øe	Dimen	isions				
General data Weight Materials	1 mm²/s 62 kg	a = ø2" B = 292 b = 465 C = 391 D = 146		h øe	Dimen	- - [_				DN J
General data Weight Materials Pump casing	1 mm²/s 62 kg Grey cast iron Grey cast iron	a = ø2" B = 292 b = 465 C = 391 D = 146 d = 35 DN = 80/PN			Dimen	nsions				-
General data Weight Materials Pump casing Impeller Wear ring	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber	$ \begin{array}{l} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \end{array} $		h øe	Dimen	- - [_	U			-
General data Weight Materials Pump casing Impeller Wear ring Suction casing	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12.5 \\ F = 245 \end{array}$			Dimen	- - [_	U			-
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics	$\begin{array}{l} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12.5 \\ F = 245 \\ f = 40 \end{array}$			d		U			-
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron	$\begin{array}{l} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \end{array}$			Dimen		U			-
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Grey cast iron Grey cast iron	$\begin{array}{l} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \end{array}$			d		U			-
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Grey cast iron Stainless steel	$\begin{array}{l} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \end{array}$	V10		d		U			
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Grey cast iron Stainless steel Yes	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \end{array}$	V10		d d		U			-
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Grey cast iron Grey cast iron Stainless steel Yes	$\begin{array}{c} a = \emptyset 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \emptyset 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \end{array}$	V10							DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Yes Graphite/Ceramics	$ \begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ \end{array} $	V10		d d					DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Grey cast iron Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ B = 146 \\ e = 012,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \end{array}$	V10							DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12.5 \\ f = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \end{array}$	V10	- 0a						DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Grey cast iron Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12.5 \\ f = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \emptyset 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \emptyset 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \\ \emptyset X = 18 \\ p = 18 \\ q = 156 \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12.5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \\ \varnothing X = 18 \\ p = 18 \\ q = 156 \\ r = 110 \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \\ \varnothing X = 18 \\ p = 18 \\ q = 156 \\ r = 110 \\ t = 320 \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \\ \varnothing X = 18 \\ p = 18 \\ q = 156 \\ r = 110 \\ t = 320 \\ u = 571 \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \emptyset 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \emptyset 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \\ \emptyset X = 18 \\ p = 18 \\ q = 156 \\ r = 110 \\ t = 320 \\ u = 571 \\ v = 102 \\ \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable Screws and nuts	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \varnothing 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \varnothing 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \\ \varnothing X = 18 \\ p = 18 \\ q = 156 \\ r = 110 \\ t = 320 \\ u = 571 \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable Screws and nuts	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \emptyset 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \emptyset 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \\ \emptyset X = 18 \\ p = 18 \\ q = 156 \\ r = 110 \\ t = 320 \\ u = 571 \\ v = 102 \\ \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable Screws and nuts	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m Stainless steel	$\begin{array}{l} a = \emptyset 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DNp = 80/PN \\ E = 146 \\ e = \emptyset 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \\ \emptyset X = 18 \\ p = 18 \\ q = 156 \\ r = 110 \\ t = 320 \\ u = 571 \\ v = 102 \\ W = 4 \end{array}$	V10					G		DN J
General data Weight Materials Pump casing Impeller Wear ring Suction casing Mech. seal on pump side Oil chamber Motor casing Shaft Thermal probes Conductivity probe Mech. seal on motor side Handle Power supply cable Screws and nuts	1 mm²/s 62 kg Grey cast iron Grey cast iron Steel/rubber Grey cast iron Silicon carbide/Ceramics Grey cast iron Stainless steel Yes Graphite/Ceramics Stainless steel 10m	$\begin{array}{c} a = \emptyset 2" \\ B = 292 \\ b = 465 \\ C = 391 \\ D = 146 \\ d = 35 \\ DN = 80/PN \\ E = 146 \\ e = \emptyset 12,5 \\ F = 245 \\ f = 40 \\ G = 146 \\ g = 173 \\ h = 130 \\ H = 92 \\ J = 160 \\ K = 200 \\ Ls1 = 495 \\ Ls3 = 275 \\ m = 320 \\ n = 180 \\ N = 80 \\ \emptyset X = 18 \\ p = 18 \\ q = 156 \\ r = 110 \\ t = 320 \\ u = 571 \\ v = 102 \\ \end{array}$	V10					G		DN J