

Product Portfolio 2019

Pumps 1 Automation



HPK-L

35

RVM

69

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Our tradition:

Competence since 1871

We have supplied generations of customers worldwide with pumps, valves, automation products and services. A company with that kind of experience knows that success is a process based on a stream of innovations. A process made possible by a close working alliance between developer and user, between production and practice.

Partners achieve more together.

We do everything possible to ensure that our customers always have access to the ideal product and system solution. KSB is a loyal partner. And a strong one:

- Over 140 years' experience
- Present in more than 100 countries
- More than 16,000 employees
- More than 170 service centres worldwide
- Approximately 3,000 service specialists





Single-source supplier: your partner for pumps, valves and service

A comprehensive product range, short response times and tailored service and spare parts solutions – no other competitor offers a comparable range of products and services. In all phases of the product life cycle, we are on hand to ensure that our customers secure long-term value from their systems. We offer our customers a variety of services and spare parts solutions around pumps, valves, and other rotating equipment – also for non-KSB products:

- Technical consultancy
- Installation and commissioning
- Services provided on-site and in our service centres
- Inspection and maintenance
- Maintenance inspection management
- Framework agreements such as TPM® Total Pump Management
- Reverse engineering

- Efficiency analysis with SES System
 Efficiency Service or Pump Operation Check
- Retrofitting as an alternative to buying a new product
- Spare parts in manufacturer's quality
- On-site training sessions
- Refurbishment and decommissioning
- Inventory management

Ready wherever you are: with a global service network and a 24-hour emergency service.





Our mission:

Certified quality assurance

First-class products and excellent service take top priority at KSB. To maintain this level of excellence, we have developed a modern quality management system with globally applicable guidelines. It is based on the Business Excellence model of the European Foundation for Quality Management, which already ensures improved quality management Europewide.

Our guidelines define uniform quality for all KSB locations and have helped us to optimise our manufacturing processes. The results are shorter delivery times and global availability of our products. These guidelines govern the way we act so comprehensively that even the competence of our consulting and the good value for money we offer are clearly stipulated. Like the 'Made in Germany' quality seal, we introduced internal certification as a sign of the highest quality: 'Made by KSB'.

Our five key goals:

- Maximum customer satisfaction: We do everything to fulfil our customers' wishes on time and in full.
- Fostering quality awareness: We put our quality commitment into daily practice – from executives to employees, whose qualifications and competence we foster through continuing training.
- Prevention rather than cure: We systematically analyse errors and prevent the causes.
- Improvement in quality: We continually optimise our processes in order to work more efficiently.
- Involvement of suppliers: We attach great importance to working together fairly and openly to achieve our shared goals.



As a signatory to the United Nations Global Compact, KSB is committed to endorsing the ten principles of the international community in the areas of human rights, labour standards, environmental protection and anticorruption.





Industry 4.0: we have experience with the future

Digital networking of production systems is one of the key challenges ahead. An expert in engineering with long-standing experience in developing Industry 4.0 solutions, KSB is your ideal partner to achieve:

- Resource efficiency and optimised use of materials
- Availability and operating reliability
- Flexibility through short-term reconfigurability
- Reduction of time to market

Increase your system's productivity already today with KSB's smart products and services: Use our intelligent technologies designed to communicate, such as PumpDrive and PumpMeter, to lay a foundation for your smart factory. Find out more about our future-driven solutions at www.ksb.com/industry40



FluidFuture®: the energy-saving concept for your system

Many systems do run reliably but they also use a lot more power than necessary. The solution: efficiency optimisation with FluidFuture® in four steps. We look at the entire hydraulic system to achieve maximum energy efficiency throughout the life cycle. The optimisation costs will pay for themselves within a short period through the high energy savings that can be made.

The process and its four steps are clearly defined – based on extensive expertise and experience. This systematic and targeted approach ensures maximum savings at minimum costs. Perfectly matching the hydraulic system, drive and automation products as well as the piping dimensions can result in savings of up to 60 %.

We reduce the operating costs of your system by combining our expert knowledge with smart products and services. This is our joint contribution towards an energy-efficient future.

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More on FluidFuture®: www.ksb.com/fluidfuture



General Information

ErP	ErP regulations stipulating new, stricter minimum efficiency values became effective at the start of 2015. Since then, only pumps and motors which satisfy the energy efficiency requirements of the European Union's ErP Directive may be placed on the market. For KSB's products this is child's play. They are so efficient, many actually exceed the values required since 2015 – some even those applicable from 2017 as per the ErP regulations.
Regional products	Not all depicted products are available for sale in every country. Products only available in individual regions are indicated accordingly. Please contact your sales representative for details.
Trademark rights	All trademarks or company logos shown in the catalogue are protected by trademark rights owned by KSB SE & Co. KGaA and/or a KSB Group company. The absence of the "@" symbol should not be interpreted to mean that the term is not a registered trademark.
Product illustrations	The products illustrated as examples may include options and accessories incurring a surcharge. Subject to modifications due to technical enhancements.

Pumps

Design / Application	Type series	Page	ErP	Factory- automated	Automation available	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
	Calio-Therm S NC/NCV	30								
Drinking water circulators, fixed speed	Calio-Therm NC	30								
Drinking water circulators, variable speed	Calio-Therm S	30								
	Calio S	30								
Circulators, variable speed	Calio	31								
	Calio Z	31								
	Etaline L	31								-
	Etaline DL	31								
	Etaline	32								
	Etaline Z	32								
In-line pumps	Etaline-R	32								
	ILN	32								
	ILNC	32								
	Megaline	33								
	Etanorm	33								
	Etanorm-R	33								
	Etabloc	33								
	Etachrom B	34								
Standardised / close-coupled pumps	Etachrom L	34	Ŧ							
	Etanorm V	34								
	Meganorm	34								
	Megabloc	35	_							
	HPK-L	35								
Hot water pumps	НРН	35								
The water pumps	HPK	35								
	Etanorm SYT / RSY	36								
Hot water / thermal oil pumps	Etabloc SYT	36			-					
not water / thermal on pumps	Etaline SYT	36								
	MegaCPK	36								
Standardised chemical pumps	CPKN	37								
		38								
	Magnochem Magnochem CSE									
Seal-less pumps	Magnochem 685	38								
seal-less pullips	Magnochem-Bloc Etaseco / Etaseco-l	38				_				
	Etaseco / Etaseco-i	38				-	-	-		
	RPH	39						-		
	RPH-LF	39						_		
	RPHb / RPHd	39					_	-		
	RPH-V	39					-			
	CTN	39					_			
Process pumps	CHTR	40					_	-		
	CHTRa	40					_	-		
	CINCP / CINCN	40					-	-		
	INVCP	40					_	-		
	Estigia	40					-	-		
	RWCP / RWCN	41					-	-		
	WKTR	41								
Rainwater harvesting systems	Hya-Rain / Hya-Rain N	42								
	Hya-Rain Eco	42								

Design / Application	Type series	Page	ErP	Factory- automated	Automation available	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
Design / Application	**	Page	ū	ъ.	σÞ	5 ≅	=	шo	ωਔ	Ň
	Emporia CP	42								
	Emporia MB	42								
	Emporia PD	42								
Domestic water supply systems with automatic	Multi Eco	43								
control unit / Swimming pool pumps	Multi Eco-Pro	43								
	Multi Eco-Top	43								
	Ixo N	43								
	Ixo-Pro	43								
	Filtra N	44								
	KSB Delta Compact MVP	44								
	KSB Delta Eco MVP/SVP	44								
	KSB Delta Primo K/VP/SVP	44								
	KSB Delta Solo MVP/SVP	45								
	Hya-Solo D	45							-	
	Hya-Solo DSV	45		-						
	Hya-Solo D FL	45		-						
	Hya-Duo D FL	45								
Pressure booster systems	Hya-Solo D FL Compact	46								
ressure booster systems	Hya-Duo D FL Compact	46								
	Hyamat K	46								
	Hyamat V	46								
	Hyamat SVP	46								
	Hyamat SVP ECO	47								
	Surpresschrom SIC.2	47								
	Surpresschrom SIC.2 V	47								
	Surpresschrom SIC.2 SVP	47								
	Surpress Feu SFE	47								
	Ama-Drainer N	48								
	Ama-Drainer 4 / 5	48								
Drainaga numne / wasta water numne	Ama-Drainer 80, 100	48								
Drainage pumps / waste water pumps	Ama-Porter F / S	48								
	Rotex	48								
	MK / MKY	49								
	Amaclean	49								
	AmaDS ³	49								
	Ama-Drainer-Box Mini	49								
	Ama-Drainer-Box	49								
	Evamatic-Box N	50								
	mini-Compacta	50								
Lifting units / package pump stations	Compacta	50								
	CK 800 Pump Station	50								
	CK 1000 Pump Station	50								
	Ama-Porter CK Pump Station	51								
	SRP	51								
	SRL	51								
	SRS	51								
	Amarex N	52								
Submersible motor pumps	Amarex KRT	52								
	Amacan K	52								
Submersible pumps in discharge tubes	Amacan P	52								
<u> </u>	Amacan S	53								
	Amamix	54								
	Amaprop	54								
Mixers / agitators / tank cleaning units	Amajet	54								
	Amaline	54								

				ō	ou	Water Transport and Treatment		u,		Solids Transport
				Factory- automated	Automation available	ter Tra Treat	Industry	Energy Conversion	Building Services	ds Tra
Design / Application	Type series	Page	FrP	Fact	Autavai	Wat	Indu	Ene	Buil	Soli
	Sewatec	55								
	Sewatec SPN	55								
Pumps for solids-laden fluids	Sewabloc	55								
	KWP	55								
	KWP-Bloc	55								
	WBC	56								
	LSA-S	56			,					
	LCC-M	56								
	LCC-R	56								
	TBC	56								
Slurry pumps	LCV	57								
	FGD	57								
	MHD	57								
	LHD	57								
	MDX	57					_			
	ZW	58								
	HVF	58								
	Etaprime L	59				-				
Call animin and	Etaprime B	59				-		_		
Self-priming pumps	EZ B/L	59				-				
	AU Monobloc	59					-			
	UPAchrom 100 CC	59							_	
	UPAchrom 100 CN	60			-				÷	
	UPA 150C	60							-	
Submersible borehole pumps	UPA 200, 200B, 250C	60	_							
	UPA 300, 350	60								
	UPA-Z / UPA-R	61					$\overline{}$			
Vertical turbine pumps	B Pump	61			_					
	Comeo	62						_		
	Movitec H(S)I	62								
High-pressure pumps	Movitec	62								
3	Movitec VCI	62								
	Multitec	63								
	Omega	63								
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	Vitachrom	64								
	Vitacast	64								
Hygienic pumps for the food, beverage and	Vitacast Bloc	64								
pharmaceutical industries	Vitaprime	64					-			
	Vitastage	65					-			
	Vitalobe	65								
	CHTA / CHTC / CHTD	65								
	HGB / HGC / HGD	65								
	HGI	66								
	HGM	66					-	•		
	YNK	66								
Pumps for power station conventional islands	LUV/LUVA	66								
	WKTB	66								
	SEZ / SEZT / PHZ / PNZ	67					_			
	SNW / PNW	67					-			
	Beveron	67				-	-			
	SPY	67								

Design / Application	Type series	Page	ErP	Factory- automated	Automation available	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
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	RUV	68								
	PSR	68								
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Pumps for nuclear power stations	LUV Nuclear	68								
	RHM	69								
	RVM	69								
	RHR	69								
	RVR	69								
	RPH-RO	69								
Pumps for desalination by reverse osmosis	HGM-RO	70								
	Multitec-RO	70								
Positive displacement pumps	RC / RCV	70								
Fire finishing weeks are	EDS	70								
Fire-fighting systems	DU / EU	71								

Automation and drives

Design / Application	Type series	Page	ErP	Water Transport and Treatment	Industry	Energy Conversion	Building Services	Solids Transport
A. A	KSB SuPremE	28						
Automation and drives	KSB UMA-S	28						
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	Controlmatic E.2	72						
Control	Cervomatic EDP.2	72						
Control units	LevelControl Basic 2	72						
	UPA Control	72						
	Hyatronic N	73						
Variable and distance	PumpDrive 2 / PumpDrive 2 Eco	28						
Variable speed systems	PumpDrive R	28						
	PumpMeter	29						
Monitoring and diagnosis	KSB Guard	29						
	Amacontrol	73						

		Calio-Therm S NC/NCV		Calio-Therm S		Calio S	Calio 7	7 0180	Etaline L	Etaline DL	Etaline	Etaline Z	Etaline-R	IFN	IINC	Megaline	Etanorm	Etanorm-R	Etabloc	Etachrom B	Etachrom L	Etanorm V	Meganorm	Megabloc								
Waste water with faeces	ed		eq		eq			sd								2	S											I			\Box	_
Waste water without faeces	Drinking water circulators, fixed speed	_	variable speed		Circulators, variable speed	Ц	4	sdwnd	Ш	Ш	Ц	_		_	_	- 2	sdwnd		\square			[Щ	_	1	1	_	Ш	\square	_
Aggressive liquids	éd	_	Ple		ple		_	le E	Ш			4	4	_	_	_ 2	pa	\perp	Ш						\perp	\perp	_	\perp	\perp	Ш	_	_
Inorganic liquids	s, fi	+	aria	Н	aria	\dashv	_	In-line	Н		\dashv	\dashv	\dashv	\dashv	-	_		+	Н	_	\dashv	_	\dashv		\dashv	+	+	+	+	Н	_	_
Activated sludge	tor	+	- 'S	Н	s, V	\dashv	+	- -	Н	Н	\dashv	\dashv	\dashv	_	_	_	일	+		-	\dashv	\dashv	_	_	\dashv	+	+	+	+	Н	\dashv	—
Brackish water Service water	gn	١.	circulators,	H	ator	\dashv	_		Н		\dashv	_	\rightarrow	_		_ 3	Close	_				\dashv		-	\dashv	+	+	+	+	Н	\dashv	—
Distillate	ιΞ		- j	•	E G	\dashv	+	-				•	-	-	-	- 2		-		-		\dashv	\dashv	_	\dashv	+	+	+	+	Н	\dashv	—
Slurries	ater	+	-j:	Н	່ວັ	\dashv	_		Н	Н	\dashv	\dashv	\dashv	\dashv	+			+	Н		\dashv	-	\dashv	_	\dashv	+	+	+	+	Н	\dashv	—
Explosive liquids	N.	+	Drinking water			\vdash	+		\vdash	Н	\vdash	+	\dashv	+	+	Ctandardicad / close		+	Н	\dashv	\dashv	\dashv	\dashv		+	+	+	+	+	\vdash	\dashv	—
Digested sludge	king	+	×			\dashv	+		\vdash	Н	\dashv	\dashv	\dashv	+	\dashv	200	anc	+	\vdash	_	\dashv	\dashv	\dashv	_	\dashv	+	+	+	+	\vdash	\dashv	—
Solids (ore, sand, gravel, ash)	ri	+	ki ki	Н		\dashv	+		\vdash	Н	\dashv	\dashv	\dashv	+	\dashv	_ t	7 —	+	Н	\dashv	\dashv	\dashv	\dashv	_	+	+	+	+	+	\vdash	+	—
Flammable liquids	Δ	+	ri.			\dashv	+		Н	Н	\vdash	+	\dashv	+	+			+	\vdash	\dashv	\dashv	\dashv	\dashv		+	+	+	+	+	Н	+	—
River, lake and groundwater		+				\dashv	+		Н	Н	\dashv	\dashv	\dashv								\dashv	\dashv			\dashv	+	+	+	+	Н	\dashv	_
Liquefied gas		+				\dashv	+			Н	\vdash	\dashv	\dashv	\dashv	_			+-	Ħ		\dashv	\dashv			\vdash	+	+	$^{+}$	+	Н	\dashv	_
Food and beverage production											\Box	\dashv	\dashv	\dashv				\top	П		\Box				\top	\top	\top	\top	\top	Н	\top	_
Gas-containing liquids		\top				\Box			П		\Box	\exists	\dashv	\dashv				\top	П		\exists				\Box	\top	\top	\top	\top	П	\Box	_
Gas turbine fuels						\Box							寸																	П	\Box	_
Filtered water													T																		\Box	_
Geothermal water																																
Harmful liquids																																
Toxic liquids																																
High-temperature hot water															1																\Box	
Heating water			_										-		-										\perp	\perp	\perp	\perp	\perp	Ш	_	
Highly aggressive liquids		_					_		Ш	Ш		_	4	_	_			\perp	Ш		_				\perp	_	_	\perp	_	Ш	4	_
Industrial service water			4	•			_						•		- 1									•	\perp	\perp	\perp	\perp	\perp	Ш	_	
Condensate		_	4	Ш		\Box	_		Н	Ш	\Box	4	4	_	_	_		\perp	Ш	_	_	_			\perp	4	_	\perp	\perp	Ш	_	
Corrosive liquids		+	4	Н		\dashv	_		Н		\dashv	-	\dashv	_	_	_	_	+	Н	_	_	-	_		\vdash	_	_	+	+	Н	4	_
Valuable liquids	-	_	4			\vdash	_	_	Н		\dashv	-	\dashv	_		-	-	+	Н	-		-	\dashv		\vdash	_	_	+	+	Н	\dashv	—
Fuels	-	+	4	Н		\dashv	_	_	Н	H	\dashv	-	\dashv	-	_		_	+	Н		\dashv	\dashv	\dashv	_	\dashv	+	+	+	+	Н	\dashv	_
Coolants	-	-	4	Н		\vdash	_	_	Н		\dashv	-	\dashv	-	_	-	_	+	Н	-	\dashv	-			\vdash	+	-	+	+	Н	\dashv	_
Cooling lubricant	-	+-		H		_	_		Н		_	_	_	_	_	-	-	-				-	_	_	\vdash	+	+	+	+	Н	\dashv	—
Cooling water Volatile liquids		-	4	▝			-					•	-	-	- 1					-		-	-	_	\dashv	+	+	+	+	\vdash	\dashv	_
Fire-fighting water		+				\dashv	+		\vdash	Н	\vdash	\dashv	+							\dashv	\dashv	+		-	\vdash	+	+	+	+	\vdash	\dashv	—
Solvents		+		Н		\dashv	+		Н	Н	\vdash	\dashv	\dashv	-	-					\dashv	\dashv	+		-	+	+	+	+	+	\vdash	\dashv	_
Seawater		+				\dashv	+		Н	Н	\vdash	\dashv	\dashv	•				+		\dashv	\dashv	\dashv			\vdash	+	+	+	+	Н	\dashv	_
Oils	-	\dashv				\dashv					\dashv	\dashv	\dashv	_	_				-				\neg		\dashv	\dashv	+	+	+	Н	\dashv	_
Organic liquids		+				\dashv	\dashv		Н	Н	\dashv	\dashv	\dashv	\dashv	\dashv			+-		_	-	\dashv	\dashv		\vdash	+	+	+	+	Н	\dashv	_
Pharmaceutical fluids		\top				\dashv	\top			П	\dashv	\dashv	\dashv	\dashv	\dashv			\top	П		\dashv				\vdash	\top	\top	\top	\top	П	\dashv	_
Polymerising liquids		\top				\dashv	\top			П	\dashv	\dashv	\dashv	\dashv	\top			\top	П		\dashv				\vdash	+	\top	\top	\top	П	\top	_
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	Ama-Drainer N	Ama-Drainer 4 / 5	Ama-Drainer 80, 100	Ama-Porter F / S	MK / MKY		Amadean	AmaDS ³	Ama-Drainer-Box Mini	Ama-Drainer-Box	Evamatic-Box N	mini-Compacta	Compacta	CK 800 Pump Station	CK 1000 Pump Station	Ama-Porter CK Pump Station	SRP	SRS		Amarex N	Amarex KRT										
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Gas turbine fuels																															_
Filtered water																															_
Geothermal water																															
Harmful liquids																															
Toxic liquids																															
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Wash water	Wash water																																

	UPAchrom 100 CC	UPAchrom 100 CN	UPA 150 C	UPA 200, 200B, 250C	UPA-Z / UPA-R		B Pump		Comeo Movitec H(S)I	Movitec	Movitec VCI	Multitec		Omega	RDLO		Vitachrom	Vitacast / Vitacast Bloc	Vitaprime	Vitastage	Vitalobe	CHTA / CHTC / CHTD		HGB / HGC / HGD	HGI	HGM	YNK	LUV / LUVA	WKTB		
Waste water with faeces	bs					Sd		bs					bs			v	3					ds		T		\Box	\Box	\Box	\top		\top
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Gas-containing liquids Gas turbine fuels		+	+	-		\vdash		\dashv	+	+	\vdash		\dashv	-	-	+	+	_	-		-		_	-	\vdash	\vdash	-		-	+
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Wash water																														

Aquaculture	Calio-Therm S NC/NCV	.0		Calio-Therm S	Calio S	. <u>o</u>	Calio Z	Etaline L	Etaline DL	Etaline	Etaline Z	Etaline-R	,	O	Megaline	Etanorm	Etanorm-R	Etabloc	Etachrom B	Etachrom L	Etanorm V	Meganorm	Megabloc						
Aquaculture		Calio-Therm NC		Cal	Ca	Calio	Cal	E	E E	Eta	Eta	Eta	3	ILNC P	2	Eta	Eta	Eta	Eta	Eta	Eta	Σe	Σ						
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Spray irrigation Mining	Drinking water circulators, fixed speed	\vdash	variable speed		Circulators, variable speed	\vdash	\dashv	nd =	+	Н	\dashv	\dashv	-	-			-	•	-		\dashv	\dashv	+	\vdash	\vdash	+	+	\dashv	+
Irrigation	TIXe		riabl				┪	In-line		П		\dashv	•	-	plec	-	•	•							\Box			П	\top
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Dewatering Descaling units	<u> </u>	\vdash	king		H	\vdash	\dashv			Н	\dashv	\dashv	-	-	Sta	-	-	-		-	-	\dashv		\vdash	\vdash	+	-	\vdash	+
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Flood control / coast protection																													
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Overview of Applications

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Drive, variable speed system and monitoring

KSB SuPremE



No. of pumps U [V]

PumpDrive / PumpDrive R only

≤ 1 Description:

Power supply via IEC-compatible, sensorless, magnetless synchronous reluctance motor of efficiency class IE4/IE5 (super/ultra premium efficiency) to IEC TS 60034-30-2:2016 for operation on a KSB PumpDrive 2, PumpDrive 2 Eco or PumpDrive R variable speed system. Suitable for connection to three-phase 380-480 V mains (via PumpDrive). The motor mounting points comply with EN 50347 specifications to ensure compatibility with standardised IEC frame motor applications and full interchangeability with IE2 or IE3 standardised asynchronous motors. Envelope dimensions lie within the limits for IF2 / IF3 motors as recommended in DIN V 42673 (07-2011). The motor is controlled without rotor position sensors. The efficiency of the motor also exceeds 95 percent of nominal efficiency when the motor runs at 25 percent of its nominal power on a quadratic torque-speed curve. The motor is magnetless which means that, in particular, so-called rare earths are not used in production. Drive production is thus sustainable and environmentally friendly.



Applications:

For use with dry-installed variable speed pumps which can be driven by standardised foot-mounted and/or flange-mounted motors.

http://shop.ksb.com/catalog/k0/en/product/ES000866

KSB UMA-S



No. of pumps U [V]

Power supply via PumpDrive R

Permanent-magnet submersible synchronous motor, for operation on a KSB PumpDrive R variable speed system. Suitable for a three-phase 380 - 400 V mains. NEMA connections and identical outside diameters ensure full interchangeability with comparable 6" or 8" asynchronous motors. The motor is controlled without rotor position sensors. The motor efficiency is 5 - 12 % above that of asynchronous motors. Given the design and functionality the use of permanent magnets is essential.



Applications:

Exclusively for submersible borehole pumps in the range of 4 - 150 kW.

http://shop.ksb.com/catalog/k0/en/product/ES000003

PumpDrive 2 / PumpDrive 2 Eco





No. of pumps P [kW] U [V]

3~380 - 480 Frequency inverter 1 per motor

≤ 6 Description:

55 Self-cooling variable speed system which allows the motor speed to be varied continuously by means of standard signals and a field bus. As PumpDrive is self-cooling, it can be mounted on the motor, on the wall or in a control cabinet. From two to six pumps can be controlled without needing an additional controller.



Applications:

Air-conditioning systems, heat generation, heat distribution, water supply systems, water extraction, water treatment, water distribution, water transport, refrigeration, cooling distribution, heat generation, heat distribution, fluid transport, cooling lubricant distribution, industrial water supply, tank drainage, waste water transport

http://shop.ksb.com/catalog/k0/en/product/ES000911



PumpDrive R



No. of pumps P [kW] U [V] Frequency inverter

1 per motor

55 PumpDrive R is a frequency inverter for wall or cabinet mounting designed 3~380 - 480 for variable speed control and other control functions for asynchronous motors, synchronous reluctance motors like KSB SuPremE, or permanent magnet synchronous motors. PumpDrive R extends the power range of KSB PumpDrive up to a rated power of 110 kW as standard or up to 1.4 MW (on



Applications:

Air-conditioning systems, heat generation, heat distribution, water supply systems, water extraction, water treatment, water distribution, water transport, refrigeration, cooling distribution, heat generation, heat distribution, fluid transport, cooling lubricant distribution, industrial water supply, tank drainage, waste water transport

29 Automation

PumpMeter



No. of pumps U [V DC]

≤ 1 Description:

24 The PumpMeter device is designed for monitoring pump operation. It is an intelligent pressure transmitter for pumps, with on-site display of measured values and operating data. It records the load profile of the pump in order to indicate any potential for optimising energy efficiency and availability. The device comprises two pressure sensors and a display unit. PumpMeter is supplied completely assembled and parameterised for the pump it is used with. It is ready for operation as soon as the M12 plug connector is plugged



Applications:

Air-conditioning systems, cooling circuits, cooling lubricant distribution, heating systems, water treatment plants, water supply systems, water distribution systems, water transport systems, water extraction systems

KSB Guard



Number of pumps ≤ 20 (per gateway) Description: U [V AC]

2 x 1,5 (sensor)

110 - 240 System for monitoring pump condition: Sensors on the pump record vibration and temperature data, which is processed in the KSB Cloud. Information on the pump's condition can then be accessed using the KSB Guard App or through the web portal. Easy to retrofit on pumps during operation.

Applications:

For monitoring dry-installed pumps, optimising maintenance and improving system availability



Drinking water circulators, fixed speed

Calio-Therm S NC/NCV



Q [m³/h]H [m] p [bar] T [°C]

≤ 10 \geq +5 - \leq +65 Data for 50 Hz operation

1/2 - 3/4 Description:

≤ 0,7 Maintenance-free, high-efficiency glandless drinking water circulator pump, ≤1 screw-ended, electric motor with multiple fixed speed levels, for use in drinking water supply systems.

Applications:

Drinking water circulation systems

http://shop.ksb.com/catalog/k0/en/product/ES000918

Calio-Therm NC



Q [m³/h]H [m] p [bar] T [°C] n [rpm]

 \geq +2 - \leq +65 Data for 50 Hz operation

Also available for 60 Hz

3/4 - 1 Description:

≤ 9 Maintenance-free, fixed speed glandless drinking water circulator pump, ≤7 screw-ended, electric motor with multiple fixed speed levels, for use in drinking water supply systems and hot water supply systems. ≤ 10

Applications:

Drinking water supply systems, hot water supply systems and similar systems in industry and building services (e.g. cooling water recirculation)



http://shop.ksb.com/catalog/k0/en/product/ES000928

Drinking water circulators, variable speed

Calio-Therm S



Q [m³/h]H [m] p [bar] T [°C] n [rpm]

≤ 10 ≥ +2 - ≤ +65 ≤ 3000

Data for 50 Hz operation Also available for 60 Hz

≤ 3,5 Maintenance-free, high-efficiency variable speed glandless drinking water ≤6 circulator pump, screw-ended, electric motor and continuously variable differential pressure control for use in drinking water supply systems and hot water supply systems.

Applications:

Hot water supply, drinking water circulation systems and similar systems in industry and building services (e.g. cooling water recirculation).



http://shop.ksb.com/catalog/k0/en/product/ES000882

Circulators, variable speed

Calio S



H [m] p [bar] T [°C]

Q [m³/h]n [rpm]

 $\geq +2 - \leq +95$ ≤ 3000 Data for 50 Hz operation Also available for 60 Hz

1/2 - 1 1/4 Description:

≤ 3,5 Maintenance-free high-efficiency screw-ended glandless pump with highefficiency electric motor and continuously variable differential pressure < 6 ≤ 10

Applications:

Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems.





Pumps 31

Calio



DN Q [m³/h] ≤ 51 H [m] ≤ 18 p [bar] ≤ 16 T [°C] ≥ -10 - ≤ +110

> Data for 50 Hz operation Also available for 60 Hz

1 1/2 - 2 Description:

32 - 100 Maintenance-free high-efficiency flanged or screw-ended glandless pump with high-efficiency electric motor and continuously variable differential pressure control.

Applications:

≤ 4500

≤ 70

≤ 18

≤ 16

< 4500

Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems





http://shop.ksb.com/catalog/k0/en/product/ES000881

Calio Z



Rp DN Q [m³/h]H [m] p [bar] T [°C]

≥ -10 - ≤ +110 n [rpm] Data for 50 Hz operation

Also available for 60 Hz

1 1/4 Description: 32 - 65

Maintenance-free high-efficiency flanged or screw-ended glandless pump in twin pump design with high-efficiency electric motor and continuously variable differential pressure control.

Applications:

Heating, ventilation, air-conditioning and heat recovery systems, cooling systems, industrial recirculation systems





In-line pumps

Etaline L



Rp DN Q [m³/h] ≤ 95 H [m] ≤ 21 p [bar] < 10 T [°C] $\geq -15 - \leq +120$ Data for 50 Hz operation

Also available for 60 Hz

1 - 1 1/4 Description:

32 - 80 Single-stage close-coupled in-line volute casing pump, with PumpDrive variable speed system and common motor/pump shaft

Heating systems, air-conditioning systems, cooling circuits, water supply systems (not approved for drinking water according to the German Environment Agency), service water supply systems, industrial recirculation systems, swimming pools





http://shop.ksb.com/catalog/k0/en/product/ES000925

Etaline DL



Rp

DN 32 - 80 Q [m³/h]H [m] ≤21 p [bar] ≤ 10 T [°C] ≥ -15 - ≤ +120 Data for 50 Hz operation

Also available for 60 Hz

1 1/4 Description:

Single-stage close-coupled in-line volute casing pump as twin pump, with PumpDrive variable speed system and common motor/pump shaft

Applications:

Heating systems, air-conditioning systems, cooling circuits, water supply systems (not approved for drinking water according to the German Environment Agency), service water supply systems, industrial recirculation





Etaline



DN Q [m³/h] H [m] p [bar] T [°C]

≤ 16 ≥ -30 - ≤ +140 Data for 50 Hz operation Also available for 60 Hz

32 - 200 Description:

≤ 700 Single-stage volute casing pump in in-line design, with magnetless ≤ 96 KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. With KSB SuPremE, a magnetless synchronous reluctance motor of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation with the KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.

Hot water heating, cooling circuits, air-conditioning, water supply systems,





PumpMeter, PumpDrive, KSB SuPremE

http://shop.ksb.com/catalog/k0/en/product/ES000113

service water supply systems, industrial recirculation systems

Etaline Z



Q [m³/h]H [m] p [bar] T [°C]

 \geq -30 - \leq +140 Data for 50 Hz operation

Also available for 60 Hz

32 - 200 Description:

≤ 1095 Single-stage volute casing pump in in-line design as twin pump, with ≤ 38.5 magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. An M12 module (accessory) enables redundant operation of Etaline Z without the need for a higher-level controller. With KSB SuPremE, a magnetless synchronous reluctance motor of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation with the KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.





Applications:

Hot water heating, cooling circuits, air-conditioning, water supply systems, service water supply systems, industrial recirculation systems

http://shop.ksb.com/catalog/k0/en/product/ES000114

Etaline-R



Q [m³/h]H [m] p [bar] T [°C]

 \geq -30 - \leq +140 Data for 50 Hz operation Also available for 60 Hz

≤ 93

< 25

≤ 1900 Vertical close-coupled in-line pump with volute casing and magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; ATEX-compliant version available.

Applications:

Hot water heating, cooling circuits, air-conditioning, water supply systems, service water supply systems, industrial recirculation systems





http://shop.ksb.com/catalog/k0/en/product/ES000812

ILN



Q [m³/h]H [m] p [bar] T [°C] n [rpm]

DN

≤ 112 ≤ 16 ≥ -20 - ≤ +70 ≤ 3000 Data for 50 Hz operation

Also available for 60 Hz

65 - 400 Description:

≤ 3100 Vertical in-line centrifugal pump with closed impeller and mechanical seal. ILNS fitted with an auxiliary vacuum pump, ILNE with ejector. The back pullout design allows the impeller to be dismantled without removing the pipes and the motor. ATEX-compliant version available.



Applications:

Hot-water heating systems, cooling circuits, air-conditioning systems, marine applications, water and service water supply systems, cleaning systems and industrial recirculation systems.



http://shop.ksb.com/catalog/k0/en/product/ES000730

ILNC

Control unit



DN Q [m³/h]H [m] p [bar] T [°C] n [rpm]

> -20 - \le +70

Data for 50 Hz operation

Also available for 60 Hz

≤ 112 ≤ 16

32 - 125 Description:

≤ 370 Vertical close-coupled centrifugal pump in in-line design, with electric motor, closed impeller and mechanical seal. ILNCS fitted with an auxiliary vacuum pump, ILNCE with ejector. Standardised IEC frame motor. ATEX-compliant version available.

Hot-water heating systems, cooling circuits, air-conditioning systems, marine applications, water and service water supply systems, cleaning systems and industrial recirculation systems.



Control unit

Pumps 33

Megaline



DN Q [m³/h] H [m] p [bar]

T [°C]

< 600 < 16 ≥ 0 - ≤ +90

32 - 200 Description:

Volute casing pump for horizontal or vertical installation, in back pull-out design, single-stage, radially split volute casing, replaceable casing wear rings. Volute casing in in-line design with closed radial impeller, with multiply curved vanes, single mechanical seal to EN 12756.

Applications:

Heating circuits, water supply systems, air-conditioning systems, waste water, industrial recirculation systems





http://www.ksb.com.br/ksb-br-pt/pesquisa.php?_q=megaline

Standardised / close-coupled pumps

Data for 60 Hz operation

Etanorm



DN Q [m³/h] H [m] p [bar] T [°C]

Data for 50 Hz operation Also available for 60 Hz

25 - 150 Description:

< 160

≥ -30 - ≤ +140

≤ 640 Horizontal volute casing pump, single-stage, with ratings and main dimensions to EN 733, long-coupled, back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings, with motormounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation with the KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.





Pumping clean or aggressive liquids not chemically or mechanically aggressive to the pump materials in water supply systems, cooling circuits, swimming pools, fire-fighting systems, irrigation systems, drainage systems, heating systems, air-conditioning systems, spray irrigation systems

Etanorm-R



DN Q [m³/h] H [m] p [bar]

≤ 1900 ≤ 16 \geq -30 - \leq +140

Data for 50 Hz operation Also available for 60 Hz

125 - 300 Description:

Horizontal long-coupled, single-stage (two-stage for pump size 125-500) volute casing pump in back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; ATEXcompliant version available.



Applications:

Water supply systems, spray irrigation systems, drainage systems, airconditioning systems, fire-fighting systems, general irrigation systems, heating



http://shop.ksb.com/catalog/k0/en/product/ES000058

Etabloc



DN Q [m³/h] H [m] p [bar] T [°C]

 \geq -30 - \leq +140 Data for 50 Hz operation

Also available for 60 Hz

25 - 150 Description:

≤ 140

≤ 16

Single-stage close-coupled volute casing pump, with ratings to EN 733, with replaceable shaft sleeve and casing wear rings, with motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation with the KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-



compliant version available. Applications:

Pumping clean or aggressive liquids not chemically or mechanically aggressive to the pump materials in water supply systems, cooling water circuits, swimming pools, fire-fighting systems, irrigation systems, drainage systems, heating systems, air-conditioning systems, spray irrigation systems



Etachrom B



Q [m³/h] H [m] p [bar] T [°C]

≥ -30 - ≤ +110 Data for 50 Hz operation Also available for 60 Hz

25 - 80 Description:

≤ 12

≤ 260 Horizontal single-stage close-coupled annular casing pump, with ratings and ≤ 105 main dimensions to EN 733, with replaceable casing wear rings and motormounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation with the KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in

accordance with DIN V 42673 (07-2011). ATEX-compliant version available.





Cleaning systems (bottle rinsing, crate washing, etc.), water treatment plants, water supply systems, fire-fighting systems, spray irrigation systems, irrigation systems, drainage systems, hot-water heating systems, air-conditioning systems, industrial washing plants, general industry, disposal of paint sludge, surface treatment

http://shop.ksb.com/catalog/k0/en/product/ES000066

Etachrom L



DN Q [m³/h]H [m] p [bar] T [°C]

> -30 - < +110 Data for 50 Hz operation

Also available for 60 Hz

25 - 80 Description:

 \leq 260 Horizontal single-stage annular casing pump, with ratings and main ≤ 105 dimensions to EN 733, with replaceable casing wear rings and motor-mounted variable speed system. With KSB SuPremE, a magnetless synchronous reluctance motor of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation with the KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.





Applications:

Cleaning systems (bottle rinsing, crate washing, etc.), water treatment plants, water supply systems, fire-fighting systems, spray irrigation systems, irrigation systems, drainage systems, hot-water heating systems, air-conditioning systems, industrial washing plants, general industry, disposal of paint sludge, surface treatment

Etanorm V



DN Q [m³/h]H [m] p [bar] T [°C]

< 16 ≥ -15 - ≤ +95 Data for 50 Hz operation Also available for 60 Hz

32 - 150 Description:

 \leq 625 Single-stage volute casing pump for vertical installation in closed tanks under ≤ 100 atmospheric pressure, with ratings to EN 733. Suitable for immersion depths of up to 2000 mm.



Phosphating solutions, lubricating oil supply and sealing oil supply for turbines, generators, large compressors, large gear units



http://shop.ksb.com/catalog/k0/en/product/ES000015

Meganorm



Q [m³/h]H [m] p [bar] T [°C]

≥ -30 - ≤ +140 Data for 50 Hz operation

Also available for 60 Hz

25 - 200 Description:

≤ 1160 Horizontal, radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to DIN EN ISO 2858/ISO 5199. Available with cylindrical or conical shaft seal chamber.

Applications:

≤ 16

Water supply systems, dewatering systems, irrigation systems, sugar industry, alcohol industry, air-conditioning systems, building services systems, firefighting systems





Pumps 35

Megabloc



Q [m³/h] < 550 H [m] p [bar] < 16 T [°C] ≥ 0 - ≤ +90

Data for 60 Hz operation

25 - 160 Description:

Volute casing pump for horizontal or vertical installation, back pull-out design, single-stage, radially split volute casing, flanged or screw-ended (optional), replaceable casing wear rings. Volute casing with closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756.

Applications:

Water supply systems, irrigation systems, air-conditioning systems, building services, hotels, shopping centres, etc., fire-fighting systems, cooling circuits, general industry





http://www.ksb.com.br/ksb-br-pt/pesquisa.php?_q=Megabloc

Hot water pumps

HPK-L



DN Q [m³/h] H [m] p [bar] T [°C]

Data for 50 Hz operation Also available for 60 Hz

25 - 250 Description:

< 162

≥ -40 - ≤ +400

≤ 40

 \leq 1160 Horizontal radially split volute casing pump in back pull-out design to ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. Equipped with heat barrier, seal chamber air-cooled by integrated fan impeller, no external cooling. ATEX-compliant version available.

Applications:

Pumping hot water and thermal oil in piping systems or tank systems, particularly in medium-sized and large hot-water heating systems, forced circulation boilers, district heating systems

http://shop.ksb.com/catalog/k0/en/product/ES000036



HPK



Q [m³/h] H [m] p [bar] T [°C]

≤ 40 Data for 50 Hz operation Also available for 60 Hz

≤ 4150 Horizontal radially split volute casing pump in back pull-out design, with radial impeller, single-entry, single-stage, to ISO 2858 / ISO 5199. Optional TRD type testing by TÜV. ATEX-compliant version available.

Applications:

Pumping hot water and thermal oil in piping systems or tank systems, particularly in medium-sized and large hot-water heating systems, forced circulation boilers, district heating systems

http://shop.ksb.com/catalog/k0/en/product/ES000034



HPH



DN Q [m³/h] H [m] p [bar] T [°C]

Also available for 60 Hz

≤ 225 < 110 $\geq 0 - \leq +320$ Data for 50 Hz operation

40 - 350 Description:

≤ 2350

Horizontal radially split volute casing pump in back pull-out design, with centreline pump feet, with radial impeller, single-entry, single-stage. Optional TRD type testing by TÜV. ATEX-compliant version available.

Applications:

Pumping hot water in high-pressure hot water generation plants, as boiler feed or recirculation pump.



Hot water / thermal oil pumps

Etanorm SYT / RSY



Q [m³/h]H [m] p [bar] T [°C]

Data for 50 Hz operation

Also available for 60 Hz

25 - 300 Description:

≤ 1900 Horizontal volute casing pump in back pull-out design, single-stage, with ≤ 102 ratings and dimensions to EN 733, radially split volute casing with integrally cast pump feet, replaceable casing wear rings, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, double mechanical seal to EN 12756, drive-end bearings: rolling element bearings, pump-end bearings: plain bearings, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; ATEX-compliant version available.



Applications:

Heat transfer systems, hot water recirculation

http://shop.ksb.com/catalog/k0/en/product/ES000790

Etabloc SYT



DN Q [m³/h]H [m] p [bar] T [°C]

≥ -30 - ≤ +350 Data for 50 Hz operation

Also available for 60 Hz

25 - 80 Description:

≤ 280 Volute casing pump for horizontal or vertical installation, back pull-out ≤ 68 design, single-stage, with ratings to EN 733, radially split volute casing, replaceable casing wear rings, volute casing with integrally cast pump feet, closed radial impeller with multiply curved vanes, single mechanical seal to EN 12756, product-lubricated carbon plain bearing, grease-lubricated radial ball bearing in the motor housing, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system, ATEX-compliant



Applications:

Heat transfer systems, hot water recirculation

http://shop.ksb.com/catalog/k0/en/product/ES000791

Etaline SYT



DN Q [m³/h]H [m] p [bar] T [°C]

< 16 ≥ -30 - ≤ +350 Data for 50 Hz operation Also available for 60 Hz

32 - 100 Description:

≤ 316 Single-stage volute casing pump in in-line design, with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system; pump shaft and motor shaft are rigidly connected. ATEX-compliant

Applications:

Heat transfer systems, hot water recirculation

http://shop.ksb.com/catalog/k0/en/product/ES000789



Standardised chemical pumps

MegaCPK



DN Q [m³/h] H [m] p [bar] T [°C]

≥ -40 - ≤ +400 Data for 50 Hz operation Also available for 60 Hz

25 - 250 Description:

≤ 25

≤ 1160 Horizontal radially split volute casing pump in back pull-out design, with ≤ 162 radial impeller, single-entry, single-stage, to DIN EN ISO 2858 / ISO 5199; also available as a variant with "wet" shaft and conical seal chamber. With KSB SuPremE, a magnetless synchronous reluctance motor of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation with the KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.



Pumping aggressive liquids in the chemical and petrochemical industries and in refinery systems.



CPKN



DN 150 - 400 Description: Q [m³/h] H [m] p [bar] T [°C] \geq -40 - \leq +400

Data for 50 Hz operation Also available for 60 Hz

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1163 open impeller (CPKNO). ATEX-compliant version available.

Applications:

Pumping aggressive liquids in the chemical and petrochemical industries, refinery systems, fire-fighting systems and for brine transport.





Seal-less pumps

Magnochem



DN Q [m³/h]H [m] p [bar]

T [°C]

≤ 162 ≤ 40 > -90 - < +300

25 - 250 Description:

 \leq 1160 Horizontal seal-less volute casing pump in back pull-out design, with magnetic drive, radial impeller, single-entry, single-stage. Design to DIN EN ISO 2858 / ISO 5199. ATEX-compliant version available.

Applications:

Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical, petrochemical and general industries.

http://shop.ksb.com/catalog/k0/en/product/ES000046



Magnochem 685



Q [m³/h] H [m] p [bar]

T [°C]

≥ -90 - ≤ +300 Data for 50 Hz operation Also available for 60 Hz

Data for 50 Hz operation

Also available for 60 Hz

25 - 250 Description:

≤ 1160 Horizontal seal-less volute casing pump, with magnetic drive, radial impeller, ≤ 162 single-entry, single-stage. Design to ISO 15783 / API 685 (centreline mounting, ASME flanges and permissible nozzle forces). ATEX-compliant version ≤ 40 available.

Applications:

Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or harmful liquids in the chemical, petrochemical and general industries.

Magnochem-Bloc



Q [m³/h]H [m] p [bar]

T [°C]

 \geq -20 - \leq +200 Data for 50 Hz operation Also available for 60 Hz

25 - 160 Description:

≤ 625 Horizontal or vertical seal-less volute casing pump in close-coupled design, with magnetic drive, to DIN EN ISO 2858 / ISO 5199, with radial impeller, single-entry, single-stage. ATEX-compliant version available. ≤ 40

Applications:

harmful liquids in the chemical, petrochemical and general industries.

Pumping aggressive, toxic, explosive, valuable, flammable, malodorous or



http://shop.ksb.com/catalog/k0/en/product/ES000045

Etaseco / Etaseco-l



Q [m³/h]H [m] p [bar] T [°C]

≥ -40 - ≤ +140 Data for 50 Hz operation Also available for 60 Hz

32 - 100 Description:

≤ 100

≤ 16

≤ 250 Horizontal or vertical seal-less volute casing pump in back pull-out design with fully enclosed canned motor, low noise emission, with radial impeller, single-stage, single-entry, casing connecting dimensions to EN 733, or in inline design.

Applications:

Pumping aggressive, flammable, toxic, volatile or valuable liquids in the chemical and petrochemical industries, in environmental engineering and industrial applications.

http://shop.ksb.com/catalog/k0/en/product/ES000122



Etaseco RVP



DN Q [m³/h]H [m] p [bar] T [°C]

≥ -50 - ≤ + 110 Data for 50 Hz operation Also available for 60 Hz

25 - 40 Description:

≤ 44 Horizontal or vertical seal-less volute casing pump in back pull-out design ≤ 40 with fully enclosed canned motor, low noise emission, with radial impeller, single-stage, single-entry, casing connecting dimensions to EN 733, or in in-≤ 16 line design.

Applications:

Pumping toxic, volatile or valuable liquids in environmental engineering and industrial applications and as coolant pump in cooling systems. Transport vehicles, environmental engineering and industry; applications where low noise emission, smooth running or long service intervals are required.

Process pumps

RPH



DN Q [m³/h]H [m] ≤ 270 p [bar] ≤ 110 T [°C] > -70 - < +450

Data for 50 Hz operation

Also available for 60 Hz

25 - 400 Description:

≤ 4150 Horizontal radially split volute casing pump in back pull-out design, to API 610, ISO 13709 (heavy-duty), type OH2, with radial impeller, single-entry, single-stage, centreline pump feet; with inducer, if required. ATEX-compliant version available.

Refineries, petrochemical and chemical industries, power stations, offshore and onshore processes.

http://shop.ksb.com/catalog/k0/en/product/ES000040



RPH-LF



DN Q [m³/h]≤ 40 H [m] ≤ 339 T [°C] ≥ -30 - ≤ +200

Data for 50 Hz operation Also available for 60 Hz

50 Description:

Heavy-duty horizontal radially split process pump to API 610, ISO 13709 (heavy-duty), type OH2, with axial inlet, single-stage, with normal synchronous speed; available with different impeller sizes.

Applications:

Refineries, petrochemical and chemical industries.

RPHb / RPHd



DN Q [m³/h] H [m] ≤ 530 p [bar] ≤ 100 T [°C] \geq -80 - \leq +450 Data for 50 Hz operation

Also available for 60 Hz

50 - 400 Description:

≤ 4500 Heavy-duty horizontal radially split between-bearings volute casing pump to API 610, ISO 13709 (heavy-duty), type BB2, with radial impellers, single- or double-entry, one- or two-stage design with centreline pump feet.

Applications:

Refineries, petrochemical and chemical industries, offshore and onshore processes

http://shop.ksb.com/catalog/k0/en/product/ES000041

RPH-V



DN2 / DN3 Q [m³/h] ≤ 80 H [m] ≤ 160 p [bar] ≤ 35 T [°C] ≥ -30 - ≤ +230

> Data for 50 Hz operation Also available for 60 Hz

Also available for 60 Hz

25 - 80 / 40 - 150 Description:

Vertical radially split volute casing pump to API 610 and ISO 13709 (heavyduty), type VS4, with radial impeller, single-entry, single-stage.

Applications:

Refineries, petrochemical and chemical industries, offshore and onshore processes.



http://shop.ksb.com/catalog/k0/en/product/ES000880

CTN



DN Q [m³/h] H [m] p [bar] T [°C] Data for 50 Hz operation

25 - 250 / 250 - 400 Description: ≤ 950 ≤ 115 ≤ 16

≥ 0 - ≤ +300

Radially split vertical shaft submersible pump with double volute casing for wet and dry installation, with radial impeller, single-entry, single-stage or double-stage; heatable model available. ATEX-compliant version available.

Applications:

Pumping chemically aggressive liquids, also slightly contaminated or with a low solids content, in the chemical and petrochemical industries.



CHTR



DN 50 - 300 Γ Q [m³/h] ≤ 1450 Γ H [m] ≤ 4000 Γ p [bar] ≤ 400 Γ T [°C] $\geq -60 - \leq +450$ Γ n [rpm] ≤ 7000

Higher ratings possible upon request

 \geq -60 - \leq +450 \leq 7000

Data for 50 Hz operation

Also available for 60 Hz

Description:

≤ 1450 Horizontal high-pressure barrel-type pump with radial impellers, single-entry and double-entry, multistage, with flanges or weld end nozzles to DIN, API 610 and ANSI.

Applications:

Refineries, petrochemical industry, steam generation, seawater injection in crude oil production (onshore and offshore)



http://shop.ksb.com/catalog/k0/en/product/ES000241

CHTRa



 $Q [m^3/h]$ ≤ 1200 P [m] ≤ 1550 P [bar] ≤ 1550 P [bar] ≤ 155 P [c] ≥ -40 - ≤ +205 P [c] ≤ 6000

Data for 50 Hz operation Also available for 60 Hz

80 - 300 Description:

≤ 1200 Horizontal axially split single-entry multistage between-bearings volute casing ≤ 1550 pump with single casing and back-to-back impeller arrangement to API 610 (ISO 13709), type BB3. First stage optionally available in double-entry design for low NPSH requirements. ATEX-compliant version available.

Applications:

Refineries, petrochemical industry, pipelines for crude oil and refinery products, water injection, feed water transport in power stations and industrial plants, mining, seawater desalination, reverse osmosis.

http://shop.ksb.com/catalog/k0/en/product/ES000933



CINCP / CINCN



32 - 200 Description:

≤ 780 Vertical immersion pump in cantilever design for wet or dry installation. Semiopen impeller, pump shaft without guide bearings, supported by ball bearings in the upper section. Supplied with discharge pipe extending above the baseplate (CINCP) or without discharge pipe (CINCN). ATEX-compliant version available.

Applications:

 $\dot{\text{Chemical}}$ and petrochemical industries, raw materials extraction and waste water management.

http://shop.ksb.com/catalog/k0/en/product/ES000718



INVCP



DN
Q [m³/h]
H [m]
p [bar]
T [°C]
n [rpm]

32 - 300 $3^{3}/h$] ≤ 1600 $| \leq 116$ $| \leq 10$ $| \leq 10 - \leq +100$ $| m | \leq 3000$

> Data for 50 Hz operation Also available for 60 Hz

32 - 300 Description:

Vertical immersion pump for wet or dry installation, available with closed or semi-open impeller. Supplied with discharge pipe extending above the baseplate (INVCP) or without discharge pipe (INVCN). ATEX-compliant version available.

Applications:

Pumping chemically aggressive, slightly contaminated or solids-laden fluids in the chemical and petrochemical industries.



http://shop.ksb.com/catalog/k0/en/product/ES000737

Estigia



DN 25 - 250

Q [m³/h] \leq 1160

H [m] \leq 110

p [bar] \leq 16

T [°C] \geq -30 - \leq +100

n [rpm] \leq 3000

Data for 50 Hz operation
Also available for 60 Hz

25 - 250 Description:

≤ 1160 Vertical immersion pump for wet installation with closed impeller, to
≤ 110 DIN EN ISO 5199 (with comments). Supplied with discharge pipe extending
above the cover plate, DN according to nominal flow rate. Sealing by lip seal,
single or double cartridge mechanical seal. ATEX-compliant version available.

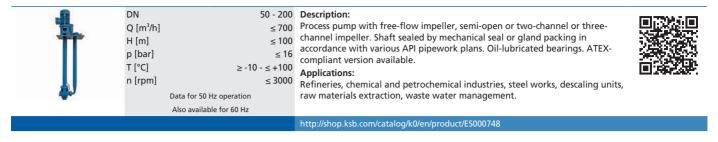
Applications:

Pumping chemically aggressive, slightly contaminated or solids-laden fluids in the chemical and petrochemical industries.

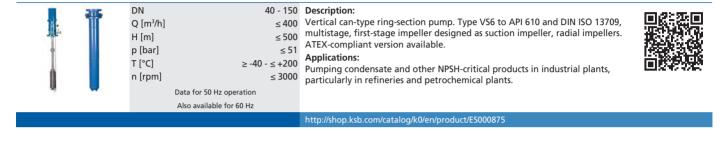


PumpDrive, Frequency inverter, KSB SuPremE

RWCP / RWCN



WKTR



Rainwater harvesting systems

Hya-Rain / Hya-Rain N



Rp	1
Q [m ³ /h]	≤ 4
H [m]	≤ 43
p [bar]	≤ 6
T [°C]	≥ 0 - ≤ +35
	Data for 50 Hz operation

Ready-to-connect package rainwater harvesting system in protective housing with automatic mains water back-up function if the rainwater storage tank is empty, with integrated dry running protection and demand-driven automatic pump control. Hya-Rain N version with analog level measurement in rainwater storage tank and integrated functional check run.



Rainwater harvesting and service water harvesting, irrigation and spray irrigation systems.

http://shop.ksb.com/catalog/k0/en/product/ES000256

Hya-Rain Eco



1 1	D
$(m^3/h) \le 4$	В
I [m] ≤ 43	n
[bar] ≤ 6	iı
[°C] ≥ 0 - ≤ +35	C

Data for 50 Hz operation

Description: Basic ready-to-connect package rainwater harvesting system with automatic mains water back-up function if the rainwater storage tank is empty, with integrated dry running protection and demand-driven automatic pump control.



Applications:

Rainwater harvesting and service water harvesting, irrigation and spray irrigation systems.

http://shop.ksb.com/catalog/k0/en/product/ES000600

Domestic water supply / swimming pool pumps

Emporia CP



O [m³/h] H [m] p [bar] T [°C] $\geq 0 - \leq +90$ n [rpm] Data for 50 Hz operation

1 Description:

≤ 7,5 Single-stage centrifugal pump in close-coupled design, extremely quiet ≤ 55 operation, for use in domestic, public and industrial applications < 8

Applications: Spray irrigation systems, general irrigation systems, water supply systems



Control unit

http://shop.ksb.com/catalog/k0/en/product/ES000921

Emporia MB



Q [m³/h]H [m] p [bar] T [°C] n [rpm]

≥ 0 - ≤ +90 < 2800

1 - 1 1/2 Description: \leq 15 Multistage centrifugal pump, with 2 impellers, for use in public and industrial ≤ 90 applications Applications: ≤ 10

Spray irrigation systems, general irrigation systems, water supply systems



Control unit

http://shop.ksb.com/catalog/k0/en/product/ES000922

Emporia PD



Q [m³/h]H [m] p [bar] T [°C] n [rpm]

≤8 ≥ 0 - ≤ +90 ≤ 2800

Data for 50 Hz operation

Data for 50 Hz operation

1 Description:

 \leq 3 Peripheral impeller pump in close-coupled design for domestic applications ≤ 55 Applications:

Spray irrigation systems, general irrigation systems, water supply systems



Control unit

Multi Eco



Rp 1 - 1 1/4
Q [m³/h] ≤ 8H [m] ≤ 54p [bar] ≤ 10T [°C] ≥ +4 - ≤ +50n [rpm] ≤ 2800

1 - 1 1/4 Description:

≤8 Multistage self-priming centrifugal pump in close-coupled design.

≤ 54 Applications:

Single- or two-family houses, agricultural facilities, spray irrigation systems, irrigation systems and washing plants, water supply and rainwater harvesting.



Cervomatic, Controlmatic

http://shop.ksb.com/catalog/k0/en/product/ES000085

Multi Eco-Pro



1 - 1 1/4 Description:

Multistage self-priming centrifugal pump in close-coupled design, with power cable, plug and Controlmatic E automatic control unit for starting and stopping the pump in line with consumer demand and protecting it against dry running. Automated with automatic control unit.



Single- or two-family houses, agricultural facilities, spray irrigation systems, irrigation systems and washing plants, water supply and rainwater harvesting.

http://shop.ksb.com/catalog/k0/en/product/ES000253



Multi Eco-Top



 $\begin{array}{lll} \text{Rp} & & 1 \text{ - } 1 \text{ 1/4} \\ \text{Q } \left[\text{m}^3 \text{/h} \right] & \leq 8 \\ \text{H } \left[\text{m} \right] & \leq 54 \\ \text{p } \left[\text{bar} \right] & \leq 10 \\ \text{T } \left[^{\circ} \text{C} \right] & \geq +4 \text{ - } \leq +50 \\ \text{n } \left[\text{rpm} \right] & \leq 2800 \\ \end{array}$

1 - 1 1/4 Description:

Multistage self-priming centrifugal pump in close-coupled design incl.

accumulator with replaceable membrane in drinking water quality, total
volume 20 or 50 litres, pressure switch for automatic pump operation and 1.5metre power cable with plug.



Single- or two-family houses, agricultural facilities, spray irrigation systems, irrigation systems and washing plants, water supply and rainwater harvesting.

http://shop.ksb.com/catalog/k0/en/product/ES00025



Ixo N



Control unit, Cervomatic

Rp 1 1 1/4
Q [m³/h] ≤ 8
H [m] ≤ 65
T [°C] ≥ +5 - ≤ +35
n [rpm] ≤ 2900
Data for 50 Hz operation

1 1/4 Description:

Multistage close-coupled centrifugal pump for fully or partly submerged operation (min. immersion depth 0.1 m), with low-level inlet, suction strainer with a max. mesh width of 2.0 mm.

Applications:

Water supply systems, spray irrigation systems, irrigation systems, washing plants, rainwater harvesting and water extraction from wells, reservoirs and rainwater storage tanks

http://shop.ksb.com/catalog/k0/en/product/ES000007



Ixo-Pro



 $\begin{array}{ll} Rp & & 1 \\ Q \ [m^3/h] & \leq 3,9 \\ H \ [m] & \leq 60 \\ T \ [^{\circ}C] & \geq +5 \ - \leq +35 \\ & & \\ Data \ for \ 50 \ Hz \ operation \end{array}$

Description:

Multistage submersible borehole pump with integrated pressure switch, flow sensor and lift check valve. Electronic dry running protection with four consecutive start-up attempts; integrated capacitor. 15-metre H07 RNF power cable with plug included.

Applications:

Rainwater harvesting, pressure boosting, water extraction, irrigation systems



Filtra N



Q [m³/h]H [m] p [bar] T [°C] n [rpm]

Data for 50 Hz operation

≥ +4 - ≤ +35

≤ 2800

2 Description:

≤ 36 Single-stage self-priming centrifugal pump in close-coupled design.

≤ 21 Applications:

 \leq 2,5 Pumping clean or slightly contaminated water, swimming pool water with a max. chlorine content of 0.3 %; ozonised swimming pool water with a max. salt content of 7 ‰.



http://shop.ksb.com/catalog/k0/en/product/ES000090

Pressure booster systems

KSB Delta Compact MVP





Q [m³/h]H [m] p [bar]

 $\geq 0 - \leq +40$ Data for 50 Hz operation

1 / 1 1/2 Description:

≤ 18 Fully automatic, ready-to-connect package single-pump pressure booster ≤ 57 system / dual-pump pressure booster system with variable speed system ≤ 10 Applications:

Domestic water supply, water supply systems, spray irrigation systems, general irrigation systems, service water systems, rainwater harvesting



http://shop.ksb.com/catalog/k0/en/product/ES000940

KSB Delta Eco MVP/SVP



Q [m³/h]H [m] p [bar] T [°C]

≥ 0 - ≤ +60 Data for 50 Hz operation

1 1/2 Description:

 \leq 65,4 Fully automatic pressure booster system with either two or three vertical ≤ 134 high-pressure pumps in two variable speed versions. The frequency inverter operated MVP and SVP versions ensure variable speed control of each pump by motor-mounted frequency inverter for asynchronous motors (MVP) or PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure. Equipped with a central fuse box.



Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

http://shop.ksb.com/catalog/k0/en/product/ES000942



KSB Delta Primo K/VP/SVP



Q [m³/h]H [m] p [bar] T [°C]

< 16 $\geq 0 - \leq +60$ Data for 50 Hz operation

≤ 67,5 Fully automatic package pressure booster system with either two or three ≤ 134 vertical high-pressure pumps; available in cascade-controlled and two variable speed versions. Cascade (K) control for ensuring the required supply pressure. The frequency inverter operated VP and SVP versions ensure variable speed control of each pump via cabinet-mounted frequency inverter (VP) or PumpDrive variable speed system and KSB SuPremE motor (SVP), respectively, providing fully electronic control to ensure the required supply pressure. Automated with BoosterControl.



Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

KSB Delta Solo MVP/SVP



Rp 1 1/4
Q [m³/h] ≤ 21,8
H [m] ≤ 134
p [bar] ≤ 16
T [°C] ≥ 0 - ≤ +60
Data for 50 Hz operation

1 1/4 Description:

≤ 21,8
 ≤ 134
 ≤ 16
 ≤ +60
 SVP), respectively, providing fully electronic control to ensure the required supply pressure.



Applications:

Water supply systems for residential buildings and office buildings, irrigation systems and rainwater harvesting systems, service water supply systems, in trade and industry.

http://shop.ksb.com/catalog/k0/en/product/ES000939

Hya-Solo D



Description:

Fully automatic package single-pump system with 8-litre membrane-type accumulator. The system is started and stopped as a function of pressure.

Applications:

Water supply systems for residential and office buildings, irrigation and spray irrigation, rainwater harvesting and service water supply systems in trade and industry.



http://shop.ksb.com/catalog/k0/en/product/ES000250

Hya-Solo DSV



 $\begin{array}{lll} DN & & 100 \\ Q \ [m^3/h] & \leq 110 \\ H \ [m] & \leq 160 \\ p \ [bar] & \leq 16 \\ T \ [^{\circ}C] & \geq 0 - \leq +70 \\ & & \\ & & \\ Data \ for \ 50 \ Hz \ operation \\ \end{array}$

Description:

Fully automatic variable speed package single-pump system with PumpDrive 2 / PumpDrive 2 Eco. The system is started as a function of pressure and stopped as a function of flow.

Applications:

Water supply systems for residential and office buildings, irrigation and spray irrigation, rainwater harvesting and service water supply systems in trade and industry.



http://shop.ksb.com/catalog/k0/en/product/ES0002

Hya-Solo D FL



Rp 1
DN 100
Q [m³/h] ≤ 110
H [m] ≤ 160
p [bar] ≤ 16
T [°C] ≥ 0 - ≤ +70
Data for 50 Hz operation

Description:

100 Fully automatic package single-pump system. The system is started and
 110 stopped as a function of pressure. Design and function as per DIN 14462.

Applications:

Fire-fighting systems to DIN 14462



http://shop.ksb.com/catalog/k0/en/product/ES000709

Hya-Duo DFL



Description:

Fully automatic package dual-pump system consisting of one duty system and one stand-by system to ensure system redundancy. Design and function as per DIN 14462.

Applications:

Fire-fighting systems to DIN 14462



Hya-Solo D FL Compact



DN
Q [m ³ /h]
H [m]
p [bar]
T [°C]

≤ 160

50 - 80 Description:

≤ 48 Fully automatic ready-to-connect break tank package booster set for fire fighting, comprising a single-pump system and break tank. The system is started and stopped as a function of pressure. Design and function as per ≤ 16 $\geq 0 - \leq +70$



Data for 50 Hz operation

Applications: Fire-fighting systems to DIN 14462

http://shop.ksb.com/catalog/k0/en/product/ES000821

Hya-Duo D FL Compact



Q [m³/h] H [m] p [bar] T [°C]

≤ 16 ≥ 0 - ≤ +70 Data for 50 Hz operation

50 - 80 Description:

≤ 48 Fully automatic, ready-to-connect break tank package booster set for fire fighting, comprising a dual-pump system and break tank. The system is started and stopped as a function of pressure. Design and function as per DIN

Applications:

Fire-fighting systems to DIN 14462



http://shop.ksb.com/catalog/k0/en/product/ES000820

Hyamat K



Rp DN Q [m³/h]H [m] p [bar] T [°C]

≤ 16 $\geq 0 - \leq +70$ Data for 50 Hz operation

2 Description:

Fully automatic package pressure booster system with 2 to 6 vertical high-≤ 660 pressure pumps and fully electronic control to ensure the required supply pressure, with volt-free changeover contact for general fault indication and live-zero monitoring of the connected sensors, design and function to DIN 1988. Automated with BoosterControl.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

http://shop.ksb.com/catalog/k0/en/product/ES000247



Hyamat V



DN Q [m³/h]H [m] ≤ 160 p [bar] ≤ 16 T [°C] $\geq 0 - \leq +70$ Data for 50 Hz operation

2 Description:

250 Fully automatic package pressure booster system with 2 to 6 vertical highpressure pumps and continuously variable speed adjustment of one pump; for fully electronic control of the required supply pressure. Design and function as per DIN 1988. Automated with BoosterControl.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

http://shop.ksb.com/catalog/k0/en/product/ES000417

Hyamat SVP



DN Q [m³/h]H [m] p [bar] T [°C]

≤ 160 ≤ 16 $\geq 0 - \leq +70$ Data for 50 Hz operation

2 Description:

250 Fully automatic package pressure booster system with 2 to 6 vertical highpressure pumps and continuously variable speed adjustment of all pumps by PumpDrive; for fully electronic control of the required supply pressure. Design and function as per DIN 1988. Automated with BoosterControl and PumpDrive.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

Hyamat SVP ECO



Rp	2
DN	250
Q [m³/h]	≤ 660
H [m]	≤ 160
p [bar]	≤ 16
T [°C]	≥ 0 - ≤ +70

Data for 50 Hz operation

Description:

Fully automatic package pressure booster system with 2 to 6 vertical highpressure pumps and continuously variable speed adjustment of all pumps by PumpDrive; for fully electronic control of the required supply pressure. Design and function as per DIN 1988. Automated with PumpDrive.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

http://shop.ksb.com/catalog/k0/en/product/ES000935



Surpresschrom SIC.2



Rp	2	D
DN	250	F
Q [m³/h]	≤ 660	р
H [m]	≤ 160	ir
p [bar]	≤ 16	W
T [°C]	≥ 0 - ≤ +70	Α
	Data for 50 Hz operation	Р
		Ч

Description:

fully automatic package pressure booster system with 2 to 6 vertical highpressure pumps, with fully electronic control system ensuring the required upply pressure, with standard volt-free changeover contact for general fault ndication and live-zero monitoring of the connected sensors. Automated with BoosterControl.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.

http://shop.ksb.com/catalog/k0/en/product/ES000439



Surpresschrom SIC.2 V



Rp		2
DN		250
Q [m³/h]		≤ 660
H [m]		≤ 160
p [bar]		≤ 16
T [°C]		≥ 0 - ≤ +70
	Data for 50	Hz operation

Description:

Fully automatic package pressure booster system with 2 to 6 vertical highpressure pumps. Continuously variable speed adjustment of one pump with PumpDrive for fully electronic control of the required supply pressure. Automated with BoosterControl and PumpDrive.



Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.

http://shop.ksb.com/catalog/k0/en/product/ES000702



Surpresschrom SIC.2 SVP



₹р		2 D
ON	25) F
Q [m³/h]	≤ 66) p
H [m]	≤ 16) P
o [bar]	≤ 1	5
Γ [°C]	≥ 0 - ≤ +7	DP
	Data for 50 Hz operation	d

Description:

ully automatic package pressure booster system with 2 to 6 vertical highpressure pumps. Continuously variable speed adjustment of all pumps with PumpDrive for fully electronic control of the required supply pressure. Automated with BoosterControl and PumpDrive.

Applications:

Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industrial plants, etc.

http://shop.ksb.com/catalog/k0/en/product/ES000701



Surpress Feu SFE



Rp
Q [m ³ /h]
H [m]
p [bar]
T [°C]

≥ 0 - ≤ +70 Data for 50 Hz operation

2 1/2 Description:

≤ 40 Fully automatic pressure booster system with two horizontal close-coupled pumps (one pump on stand-by duty). Design complies with APSAD ≤ 76 regulation R5. Pressure-controlled starting and stopping. Automated with ≤ 10 BoosterControl.

Applications:

Water supply and pressure boosting for wall hydrants, fire protection.



Drainage pumps / waste water pumps

Data for 50 Hz operation

Also available for 60 Hz

Ama-Drainer N



Q [m³/h]H [m]

1 1/4 - 1 1/2 Description:

≤ 16,5 Vertical single-stage fully floodable submersible motor pump in close-coupled ≤ 12 design, IP68, with or without level control, max. immersion depth: 2 m.

 $\geq 0 - \leq +50$ Applications:

Automatic drainage of pits, shafts, yards and cellars at risk of flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.



Control unit, LevelControl

http://shop.ksb.com/catalog/k0/en/product/ES000771

Ama-Drainer 4../5..



Control unit, LevelControl

Q [m³/h] H [m] T [°C]

 $\geq 0 - \leq +40$

Data for 50 Hz operation Also available for 60 Hz

1 1/2 - 2 Description:

≤ 50 Vertical single-stage fully floodable submersible motor pumps in closecoupled design, IP68, with or without level control, max. immersion depth:

Applications:

Automatic drainage of pits, shafts, yards and cellars at risk of flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.

http://shop.ksb.com/catalog/k0/en/product/ES000078



Ama-Drainer 80, 100



Rp DN Q [m³/h] H [m] T [°C]

≤ 26 Data for 50 Hz operation

Also available for 60 Hz

2 1/2 Description:

100 Vertical single-stage fully floodable submersible motor pump in close-coupled ≤ 130 design, IP68, with or without level control, max. immersion depth: 10 m.

Applications:

Automatic drainage of pits, shafts, yards and cellars at risk of flooding, lowering of surface water levels, drainage, drainage of underground passages, water extraction from rivers and reservoirs.



Control unit, LevelControl

http://shop.ksb.com/catalog/k0/en/product/ES000079

Ama-Porter F / S



Q [m³/h]H [m] T [°C]

Data for 50 Hz operation

50 - 65 Description:

 \leq 40 Vertical single-stage fully floodable submersible waste water pump in closecoupled design (grey cast iron variant), non-explosion-proof. ≤ 16

Applications:

Handling waste water, especially waste water containing long fibres and solid substances, fluids containing gas/air, removing waste water from flooded rooms or surfaces.



Control unit, LevelControl

http://shop.ksb.com/catalog/k0/en/product/ES000082

Rotex



Q [m³/h]H [m] T [°C] ≥ 0 - ≤ +90 < 2900 n [rpm] Inst. depth [m] Data for 50 Hz operation

1 1/4 - 2 Description:

 \leq 24 Vertical single-stage centrifugal pump with discharge to the top and parallel \leq 14 with the pump shaft, pump base designed to act as suction strainer. Pump and motor are rigidly connected by a support column. Supplied ready to be plugged in, with 1.5-metre power cable and level switch.



Automatic drainage of buildings, pits and tanks, lowering of surface water levels and drainage



MK / MKY



Also available for 60 Hz

Description:

50 Vertical submersible pump with three-channel impeller, volute casing designed as inlet strainer.

Applications:

Pumping condensate and heat transfer fluids below boiling point, condensate return systems, primary and secondary heating circuits, for direct installation in heating tanks or heat exchangers in the secondary circuits of heat transfer systems (MKY).



Control unit, LevelControl

http://shop.ksb.com/catalog/k0/en/product/ES000013

Lifting units / package pump stations

Amaclean



Q [m³/h] H [m] T [°C] ≤ 150 ≤ 62 depending on

≤ 150 Description:

Self-cleaning tank insert for grouted installation in new concrete structures or in concrete structures in need of refurbishment. Designed to prevent soiling of the structure and clogging of the pumps by heavily waste or fibre loaded waste water. Suitable for pump stations emitting unpleasant odours and/or gases.



Waste water disposal, rainwater disposal

http://shop.ksb.com/catalog/k0/en/product/ES000936



AmaDS³



Q [m³/h] H [m] T [°C]

≤ 85 depending on pump

Data for 50 Hz operation Also available for 60 Hz Description:

Waste water pump station with solids separation system. Indirect hydraulic transport of waste water, solids separators arranged upstream of the pumps, for maximum economic efficiency, operating reliability and ease of servicing.

Applications:

Municipal and industrial waste water transport. Applications with special drainage requirements, e.g. hotels, hospitals, campgrounds, etc.



LevelControl

http://shop.ksb.com/catalog/k0/en/product/ES000858

Ama-Drainer-Box Mini



DN Q [m³/h] H [m] T [°C]

Data for 50 Hz operation

40 Description:

< 10
 Reliable and compact waste water lifting unit in a modern design with activated carbon filter meeting hygiene requirements and with shower connection as standard; complies with EN 12050-2

Applications:

Automatic disposal of waste water from washbasins, showers, washing machines and dishwashers. Use mini-Compacta sewage lifting unit for handling sewage from urinals and toilets.



http://shop.ksb.com/catalog/k0/en/product/ES000862

Ama-Drainer-Box



DN Q [m³/h] H [m] T [°C]

Data for 50 Hz operation

Also available for 60 Hz

) 50 Description

Description:
 ≤ 46
 ≤ 24
 ≤ +40
 S+40
 Description:
 Stable above-floor plastic collecting tank or impact-resistant underfloor plastic collecting tank, with floor drain and odour trap, both with Ama-Drainer submersible motor pump starting and stopping automatically and swing check valve

Applications:

Automatic disposal of waste water from washbasins, showers, washing machines, garage driveways, basements and rooms prone to flooding



Evamatic-Box N







Data for 50 Hz operation



≤ 40 Floodable lifting unit for domestic waste water, equipped with either one or two pumps of type Ama-Porter F (free-flow impeller) or Ama-Porter S (cutter)

≤ 21 Applications:

Disposal of domestic and municipal waste water occurring below the flood level



http://shop.ksb.com/catalog/k0/en/product/ES000430

mini-Compacta



Q [m³/h]H [m] T [°C]

Data for 50 Hz operation Also available for 60 Hz

32 - 100 Description:

 \leq 36 Floodable single-pump sewage lifting unit or dual-pump sewage lifting unit for automatic disposal of domestic sewage and faeces in building sections

below the flood level. ≤ +40

Applications:

Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores, hospitals, hotels, restaurants or schools.



http://shop.ksb.com/catalog/k0/en/product/ES000261

Compacta



DN Q [m³/h]H [m] T [°C]

Data for 50 Hz operation

80 - 100 Description:

≤ +40

 $\stackrel{\cdot}{\leq}$ 140 Floodable single-pump sewage lifting unit or dual-pump sewage lifting unit for automatic disposal of waste water and faeces in buildings and building ≤ 24.5 sections below the flood level.

Applications:

Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores and hospitals, hotels, restaurants, schools, other public buildings, industrial facilities, underground train stations or for joint sewage disposal from rows of houses.

http://shop.ksb.com/catalog/k0/en/product/ES000260



CK 800 Pump Station



DN Q [m³/h]H [m] T [°C]

Data for 50 Hz operation

32 - 50 Description:

 \leq 22 Single-pump or dual-pump station as ready-to-connect package system, with PE-LLD (polyethylene) collecting tank for buried installation. Equipped with either one or two submersible waste water pumps of type Amarex N S

(explosion-proof or non-explosion-proof) or Ama-Porter (non-explosionproof). Tank design to DIN 1986-100 and EN 752/EN 476.

Applications:

Drainage of buildings and premises, waste water disposal, premises renovation, joint sewage disposal for multiple residential units, pumped

http://shop.ksb.com/catalog/k0/en/product/ES000778



CK 1000 Pump Station



DN Q [m³/h]H [m] T [°C]

Data for 50 Hz operation

50 - 65 Description:

Single-pump or dual-pump station as ready-to-connect package system, with

PE-LLD (polyethylene) collecting tank for buried installation. Equipped with

either one or two submersible waste water pumps of type Amarex N (explosion-proof or non-explosion-proof) or Ama-Porter (non-explosionproof). Tank design to DIN 1986-100 and EN 752/EN 476.

Drainage of buildings and premises, waste water disposal, premises renovation, joint sewage disposal for multiple residential units, pumped



Ama-Porter CK Pump Station



DN Q [m³/h] H [m] T [°C]

50 · ≤ ≤

Data for 50 Hz operation

50 - 65 Description:

Single-pump or dual-pump station as ready-to-connect package system, with PE-LLD (polyethylene) collecting tank for buried installation. Equipped with either one or two submersible waste water pumps of type Ama-Porter (non-explosion-proof). Tank design to DIN 1986-100 and EN 752/EN 476.

Applications:

Drainage of buildings and premises, waste water disposal, premises renovation, joint sewage disposal for multiple residential units, pumped drainage

http://shop.ksb.com/catalog/k0/en/product/ES000498

SRP



DN Q [m³/h] H [m] T [°C]

Data for 50 Hz operation
Also available for 60 Hz

50 - 150 Description:

 \leq 500 Single-pump or dual-pump station as ready-to-connect package system, with \leq 75 fibreglass collecting tank for buried installation

Applications:

Premises renovation, disposal of domestic, municipal and industrial waste water, joint sewage disposal for multiple residential units



Control unit, LevelControl

http://shop.ksb.com/catalog/k0/en/product/ES000443

SRL



DN Q [m³/h] H [m] T [°C]

Data for 50 Hz operation

65 - 150 Description:

≥ 500 Package pump station with tank made of glass fibre reinforced polyester, equipped with two Sewabloc pumps with a rating of 2.2 to 30 kW in dry installation, integrated valves and a control unit with frequency inverters. Pump operation is adjusted in line with flow rate demand, thus minimising energy costs. This maintenance-friendly pump station prevents intermediate storage of waste water and the related odour nuisance.



Joint disposal of domestic, municipal and industrial waste water to the sewer system / sewage treatment plant

http://shop.ksb.com/catalog/k0/en/product/ES000856



SRS



DN Q [m³/h] H [m] T [°C]

> Data for 50 Hz operation Also available for 60 Hz

50 - 65 Description:

50
 Package pump station with tank made of glass fibre reinforced polyester for underfloor installation and two submersible waste water pumps mounted on duckfoot bends, with two guide systems. Complete discharge line made of

PVC with ball valves and ball non-return valves fitted in the tank.



Applications:

Stormwater disposal, grey water disposal, waste water disposal

LevelControl

Submersible motor pumps

Amarex N



Control unit, LevelControl

DN Q [m³/h]H [m] T [°C]

Data for 50 Hz operation Also available for 60 Hz

32 - 100 Description:

 \leq 190 Vertical single-stage submersible motor pump for wet installation, with cutter \leq 49 (S), free-flow impeller (F) or diagonal single-vane impeller (D), stationary or transportable version. Amarex N pumps are floodable, single-stage, singleentry close-coupled pump sets which are not self-priming. ATEX-compliant

version available. Applications:

Pumping waste water, especially untreated waste water containing long fibres and solid substances, fluids containing gas or air, and raw, activated and digested sludge; for dewatering and water extraction, drainage of rooms

http://shop.ksb.com/catalog/k0/en/product/ES000507



Amarex KRT



DN Q [m³/h]H [m] T [°C]

n [rpm] Data for 50 Hz operation Also available for 60 Hz

40 - 700 Description:

≤ 2900

≤ 10080 Horizontal or vertical single-stage submersible motor pump in close-coupled ≤ 120 design, with various next-generation impeller types, for wet or dry installation, stationary or transportable version, with energy-saving motor and models for use in potentially explosive atmospheres.

Applications:

Pumping all types of waste water in water and waste water management, seawater desalination and industry, especially untreated waste water containing long fibres and solid substances, fluids containing gas or air, and raw, activated and digested sludge.



PumpDrive, Amacontrol, LevelControl

Submersible pumps in discharge tubes

Amacan K



DN Q [m³/h]H [m] T [°C] n [rpm]

Data for 50 Hz operation Also available for 60 Hz

700 - 1400 Description:

 \leq 5400 Wet-installed submersible motor pump for installation in discharge tubes, ≤ 30 with channel impeller, single-stage, single-entry. ATEX-compliant version available.

Applications:

 $\geq 0 - \leq +40$

> 0 - < +40

Pumping pre-cleaned chemically neutral waste water, industrial effluent, sewage, fluids not containing any stringy substances, pre-treated by screens and overflow sills; as waste water, mixed sewage and activated sludge pumps in waste water treatment plants, irrigation and drainage pumping stations.

http://shop.ksb.com/catalog/k0/en/product/ES000100



Amacan P

Amacontrol



Q [m³/h]H [m] T [°C] n [rpm]

Data for 50 Hz operation

Also available for 60 Hz

500 - 1500 Description:

≤ 25200 Wet-installed submersible motor pump for installation in discharge tubes, ≤ 12 with axial propeller in ECB design, single-stage, single-entry. ATEX-compliant

Applications:

Irrigation and drainage pumping stations, for stormwater transport in stormwater pumping stations, raw and clean water transport in water and waste water treatment plants, cooling water transport in power stations and industrial plants, industrial water supply, water pollution and flood control,



Amacontrol

Amacan S



DN 650 - 1300 Description: Q [m³/h] H [m] T [°C] n [rpm] Data for 50 Hz operation

Also available for 60 Hz

 \leq 10800 Wet-installed submersible motor pump for installation in discharge tubes, ≤ 40 with mixed flow impeller, single-stage. ATEX-compliant version available.

S 40

≥ 0 - ≤ +40

≤ 1450

Applications:

Applications:

S 490

Applications:

S 40

Applications:

Applications:

S 40

Applications:

Applications:

S 40

Applications:

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S 40

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Applica



Mixers / agitators / tank cleaning units

Amamix



Propeller Ø [mm] T [°C] n [rpm] Inst. depth [m]

Data for 50 Hz operation

Also available for 60 Hz

200 - 600 Description:

 $\geq 0 - \leq +40$ Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled ≤ 1400 design, direct drive. ATEX-compliant version available.

Applications:

Handling municipal and industrial waste water and sludges in environmental engineering (also in biogas plants).



http://shop.ksb.com/catalog/k0/en/product/ES000268

Amaprop



Propeller Ø [mm] T [°C] n [rpm] Inst. depth [m] Also available for 60 Hz

1000 - 2500 Description:

 \geq 0 - \leq +45 Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled ≤ 109 design, with coaxial spur gear drive. ATEX-compliant version available.

In environmental engineering, particularly in municipal and industrial waste water and sludge treatment, for circulating, keeping in suspension and inducing flow in nitrification tanks and denitrification tanks, activated sludge tanks, biological phosphate elimination tanks, flocculation tanks and sludge storage tanks



Amajet



DN Q [m³/h]T [°C] n [rpm]

> +4 - < +40 Data for 50 Hz operation

Also available for 60 Hz

100 - 150 Description:

 \leq 195 Stationary or portable unit with horizontally or vertically mounted submersible propulsive jet pump with non-clogging free-flow impeller. Motor ratings of 5.5 to 27 kW. Available variants: Amajet, SewerAmajet, SwingAmajet, MultiAmajet.

Applications:

Cleaning stormwater tanks and storage sewers.



Amaline





DN Q [m³/h]H [m] T [°C]

Also available for 60 Hz

≥ 0 - ≤ +40 Data for 50 Hz operation

300 - 800 Description:

< 2

≤ 960

 \leq 5400 Wet-installed horizontal propeller pump with submersible motor, equipped with direct drive or spur gear, ECB propeller with three rigid, fibre-repellent blades, bolt-free connection to the discharge pipe. ATEX-compliant version available.

Applications:

Recirculating activated sludge in waste water treatment systems.



Pumps for solids-laden fluids

Sewatec



DN Q [m³/h]H [m] p [bar] T [°C] n [rpm]

50 - 700 Description: < 10000

≤ 10

Volute casing pump for horizontal or vertical installation, with free-flow (F), single-channel (E), multi-channel (K) or diagonal single-vane impeller (D), ≤ 115 discharge flange to DIN and ANSI standards. ATEX-compliant version available.

< +70 Applications: ≤ 2900

Waste water transport, waste water disposal, waste water management, transport of contaminated surface water, sludge treatment

PumpDrive, LevelControl

http://shop.ksb.com/catalog/k0/en/product/ES000068

Sewatec SPN



DN Q [m³/h] H [m] p [bar] T [°C]

Data for 50 Hz operation Also available for 60 Hz

Data for 50 Hz operation Also available for 60 Hz

≤ 1200 Description:

Vertical volute casing pump with multi-channel impellers (K), discharge flange < 32400 to DIN and ANSI standards.

Applications: < 16

Waste water transport, waste water disposal, waste water management, transport of contaminated surface water

Sewabloc



DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]

Data for 50 Hz operation Also available for 60 Hz

< 2900

≤ 100

≤ 10

Close-coupled volute casing pump for horizontal or vertical installation, with < 10000 free-flow (F), multi-channel (K) or diagonal single-vane impeller (D), discharge flange to DIN and ANSI standards. ATEX-compliant version available. ≤ 10

Applications: ≤+70

Waste water transport, waste water disposal, waste water management. transport of contaminated surface water, sludge treatment



PumpDrive, LevelControl

http://shop.ksb.com/catalog/k0/en/product/ES000069

KWP



Q [m³/h] H [m] p [bar] T [°C] n [rpm]

 \geq -40 - \leq +140 ≤ 2900 Data for 50 Hz operation

Also available for 60 Hz

40 - 900 Description:

≤ 15000 Horizontal radially split volute casing pump in back pull-out design, singlestage, single-entry, available with various impeller types: closed multi-channel impeller, open multi-vane impeller and free-flow impeller. ATEX-compliant version available.



Paper industry, cellulose industry, sugar industry, food industry, power plants, chemical industry, petrochemical industry, flue gas desulphurisation, coal upgrading plants, industrial applications, waste water transport, seawater desalination / reverse osmosis



http://shop.ksb.com/catalog/k0/en/product/ES000018

KWP-Bloc

PumpDrive



DN H [m] p [bar] T [°C]

Q [m³/h]

n [rpm] Data for 50 Hz operation

≤ 10 ≥ -40 - ≤ +100 ≤ 2900

Also available for 60 Hz

40 - 900

≤ 325 Horizontal or vertical radially split close-coupled casing pump, single-stage, single-entry, available with various impeller types: closed multi-channel impeller, open multi-vane impeller and free-flow impeller.

Applications:

Paper industry, cellulose industry, sugar industry, food industry, chemical industry, petrochemical industry, flue gas desulphurisation, industrial applications, waste water transport



PumpDrive

Slurry pumps

WBC



LSA-S



LCC-M

Q [m³/h] H [m] p [bar] T [°C]	≤ 90 < 16	Description: The wetted pump end (casing, impeller and suction plate / liner) is made of white cast iron. Design optimised to permit easy dismantling and reassembly for maintenance and inspections. Applications: Reliable pump for high heads and moderately corrosive slurries. Used in mine dewatering, ash and tailings transport and dredging.	
		http://shop.ksb.com/catalog/k0/en/product/ES000217	

LCC-R

0	Q [m³/h] H [m] p [bar] T [°C]	≤ 42 ≤ 16	Description: Interchangeable rubber-lined or part-metal design allows adaptation of existing pumps to new applications by simply exchanging the pump wet end. Applications: The pumps are suitable for moderate heads, fine particles and highly corrosive slurries.	
			http://shop.ksb.com/catalog/k0/en/product/E5000218	

TBC

Q [m³/h] H [m] p [bar] T [°C]	≤ 90	Description: Horizontal high-pressure end-suction centrifugal pump offering maximum resistance to wear and ease of maintenance. The conventional single-wall design transfers stress loads from the wear plates to the casing covers in high-pressure applications. Pump components made of highly wear-resistant white cast iron. Applications: High-head high-flow hydrotransport of tailings, dredged material, pipeline booster stations and other severe duties.
		http://shop.ksb.com/catalog/k0/en/product/ES000226

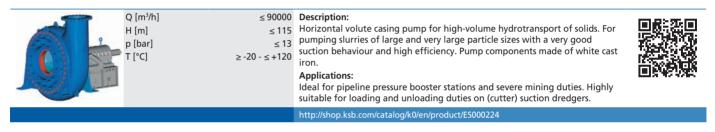
LCV



FGD



MHD



LHD



MDX



ZW



Q [m³/h] H [m] p [bar] T [°C]

≤ 400 Description:

 \leq 35 Rugged vertical shaft submersible pump with casing, impeller and suction ≤ 10 cover made of white cast iron, top and bottom impeller inlet. Bearings not exposed to fluid handled. Replaceable wetted components.

Applications:

Particularly suitable for pumping abrasive slurries, dewatering, floor clean-up and process applications.



http://shop.ksb.com/catalog/k0/en/product/ES000852

HVF



Q [m³/h] H [m] p [bar] T [°C]

≤ 7200 Description:

≤ 50 The pump provides continuous operation without shutdown or operator intervention. The new hydraulic design removes air from the impeller eye while the pump is running, and the pump can be retrofitted into any existing ≤ +120

operation. Applications:

For use in all froth pumping applications in the mineral processing and industrial minerals industries.





Self-priming pumps

H_{qeo} [m]

Etaprime L



DN Q [m³/h] H [m] ≤ 85 p [bar] ≤ 10 >-30 - \le +90 T [°C]

> Data for 50 Hz operation Also available for 60 Hz

25 - 125 Description:

≤ 180 Horizontal self-priming volute casing pump, single-stage, with open multivane impeller, from size 40-40-140 with bearing bracket, in back pull-out design, ATEX-compliant version available.

Applications:

Pumping clean, contaminated or aggressive fluids not containing abrasive substances and solids. For use in spray irrigation systems, service water systems, drainage, dewatering systems, fire-fighting systems, drawdown of groundwater levels, domestic water supply, air-conditioning systems, cooling circuits, swimming pools, water supply systems.

http://shop.ksb.com/catalog/k0/en/product/ES000120



Etaprime B



DN 25 - 100 Description: Q [m³/h]≤ 130 H [m] ≤ 70 p [bar] ≤ 10 T [°C] ≥ -30 - ≤ +90 $H_{geo}[m]$ Data for 50 Hz operation

Also available for 60 Hz

Horizontal self-priming volute casing pump, single-stage, with open multivane impeller, close-coupled; pump shaft and motor shaft rigidly connected; ATEX-compliant version available.

Applications:

Pumping clean, contaminated or aggressive fluids not containing abrasive substances and solids. For use in spray irrigation systems, service water systems, drainage, dewatering systems, fire-fighting systems, drawdown of groundwater levels, domestic water supply, air-conditioning systems, cooling circuits, swimming pools, water supply systems.



EZ B/L



DN Q [m³/h]H [m] p [bar] T [°C] n [rpm]

≥ -5 - ≤ +80 Data for 50 Hz operation Also available for 60 Hz

25 - 50 Description:

< 21

≤ 160

≤ 16

≤ 1500

Self-priming multistage liquid ring pump in close-coupled (EZ B) or longcoupled (EZ L) design, with mechanical seal.

Applications:

Boiler feed applications, sanitary hot water, hydrophore systems for fresh or seawater and fresh water pre-heating.



http://shop.ksb.com/catalog/k0/en/product/ES000725

AU



DN Q [m³/h] H [m] p [bar] T [°C]

< 600 ≤ 52 ≤ 10 ≥ -10 - ≤ +80 Data for 50 Hz operation

Also available for 60 Hz

Data for 50 Hz operation

Also available for 60 Hz

40 - 200 Description:

Horizontal, self-priming centrifugal pump, open or semi-open impeller, adjusted via wear plate, with mechanical seal, ATEX-compliant version

Applications:

Pumping clean, contaminated and aggressive fluids also containing solids. In fresh water and seawater circuits, fire-fighting applications, as ballast and bilge pumps, and for drainage and waste water applications.



AU Monobloc



Q [m³/h]H [m] p [bar] T [°C]

≤ 37 ≤ 10 ≥ -10 - ≤ +80

≤ 53 Horizontal, self-priming centrifugal pump in close-coupled design, open or semi-open impeller, adjusted via wear plate, with mechanical seal, driven by electric motors or internal combustion engines, ATEX-compliant version available.



Pumping clean, contaminated and aggressive fluids also containing solids. In fresh water and seawater circuits, fire-fighting applications, as ballast and bilge pumps, and for drainage and waste water applications.



Submersible borehole pumps

UPAchrom 100 CN



Q [m³/h]H [m] T [°C]

Data for 50 Hz operation Also available for 60 Hz

100 Description:

≤ 22 Multistage centrifugal pump in shroud design made of stainless steel and ≤ 300 plastic for well diameters of 100 mm (4 inches) and above, available with single-phase AC motor or three-phase motor with motor lead.

Applications:

Domestic water supply, irrigation and spray irrigation, drawdown of groundwater levels, in fire-fighting systems, cooling circuits, fountains, pressure booster systems and air-conditioning systems. UPAchrom 100 CN is also suitable for drinking water applications to ACS.





Control unit, Cervomatic, UPA Control

http://shop.ksb.com/catalog/k0/en/product/ES000003

UPAchrom 100 CC



O [m3/h] H [m] T [°C]

> Data for 50 Hz operation Also available for 60 Hz

≤ 18 Multistage centrifugal pump in ring-section design made of stainless steel for well diameters of 100 mm (4 inches) and above, available with single-phase AC motor or three-phase motor with motor lead.

Applications:

Domestic water supply, irrigation and spray irrigation, drawdown of groundwater levels, in fire-fighting systems, cooling circuits, fountains, pressure booster systems and air-conditioning systems. UPAchrom 100 CC is also suitable for drinking water applications to ACS.





Control unit, Cervomatic, UPA Control

http://shop.ksb.com/catalog/k0/en/product/ES000003

UPA 150C



Q [m³/h]H [m] T [°C]

Data for 50 Hz operation Also available for 60 Hz

150 Description:

 \leq 79 All-stainless steel single-stage or multistage centrifugal pump in ring-section design for well diameters of 150 mm (6 inches) and above.

Applications: ≤ +50

Spray irrigation systems, irrigation systems, drawdown of groundwater levels, domestic water supply, fountains, heat pump systems, water supply systems





PumpDrive, KSB UMA-S

http://shop.ksb.com/catalog/k0/en/product/ES000003

UPA 200, 200B, 250C



DN Q [m³/h]H [m] T [°C]

Data for 50 Hz operation Also available for 60 Hz

200 - 250 Description:

 \leq 330 Single-stage or multistage single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Optionally available with lift check valve or connection branch.

Applications:

Pumping clean or slightly contaminated water in general water supply, spray irrigation and irrigation, drawdown and maintenance of groundwater levels, fountains and pressure booster systems, mining, fire-fighting systems, emergency water supply, etc.



PumpDrive, KSB UMA-S

http://shop.ksb.com/catalog/k0/en/product/ES000003

UPA 300, 350



Q [m³/h]H [m] T [°C]

Data for 50 Hz operation Also available for 60 Hz

 \leq 840 Single-stage or multistage single-entry centrifugal pump in ring-section ≤ 480 design for vertical or horizontal installation. Mixed flow hydraulic systems with impellers that can be turned down. Optionally available with lift check

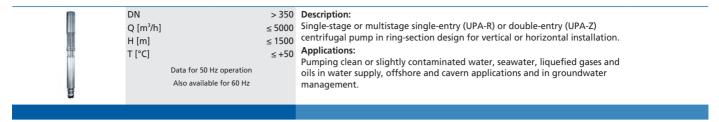
valve or connection branch.

Pumping clean or slightly contaminated water in general water supply, spray irrigation and irrigation, drawdown and maintenance of groundwater levels, mining, fountains and fire-fighting systems, etc.





UPA-Z / UPA-R



Vertical turbine pumps

B Pump

1	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	electric motor or diesel engine. Applications: Pumping clean water in agriculture, collection and irrigation, public water.
		http://shop.ksb.com/catalog/k0/en/product/ES000909

High-pressure pumps

Comeo



1 - 1 1/4 Description:

25 - 32 Multistage, horizontal, close-coupled centrifugal pump

≤ 10,8 Applications:

Water supply, small pressure booster systems, irrigation, cooling



Frequency inverter

http://shop.ksb.com/catalog/k0/en/product/ES000912

Movitec H(S)I



Rp 1 1/4 - $Q [m^3/h]$ ≤ 26 ,

p [bar] ≤ 25 T [°C] ≥ -20 - ≤ +140 n [rpm] ≤ 2900

Data for 50 Hz operation
Also available for 60 Hz

1 1/4 - 2 Description:

≤ 26,3 Multistage horizontal high-pressure centrifugal pump

≤ 195 Applications:

Spray irrigation, general irrigation, washing, water treatment, fire-fighting and pressure booster systems, hot water and cooling water recirculation, boiler feed systems, etc.



PumpMeter, PumpDrive, KSB SuPremE

http://shop.ksb.com/catalog/k0/en/product/ES000927

Movitec



 Rp
 1 - 2

 DN
 25 - 125

 Q $[m^3/h]$ ≤ 160

 H [m] ≤ 401

 p [bar] ≤ 40

 T $[^{\circ}C]$ ≥ -20 - ≤ +140

 n [rpm] ≤ 2900

Data for 50 Hz operation
Also available for 60 Hz

1 - 2 Description:

25 - 125

≤ 160
≤ 401
≤ 40

≤ 40

≤ 40

≤ 40

≤ 290

Multistage vertical high-pressure centrifugal pump in ring-section design with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design), close-coupled. With KSB SuPremE, a magnetless synchronous reluctance motor of efficiency class IE4/IE5 to IEC TS 60034-30-2:2016, for operation with the KSB PumpDrive 2 or KSB PumpDrive 2 Eco variable speed system without rotor position sensors. Motor mounting points in accordance with EN 50347, envelope dimensions in accordance with DIN V 42673 (07-2011). ATEX-compliant version available.



Spray irrigation, irrigation, washing, water treatment, fire-fighting and pressure booster systems, hot water and cooling water recirculation, boiler feed systems, etc.



http://shop.ksb.com/catalog/k0/en/product/ES000854

Movitec VCI





PumpMeter, PumpDrive, KSB SuPremE

Rp 1 1 1/4 - 2
DN 32 - 50
Q [m³/h] \leq 22,5
H [m] \leq 249
p [bar] \leq 25
T [°C] \geq -10 - \leq +120
n [rpm] \leq 2900
Data for 50 Hz operation

Also available for 60 Hz

1 1/4 - 2 Description:

32 - 50 Multistage vertical high-pressure immersion pump for installation on tanks or ≤ 22.5 platforms.

Applications:

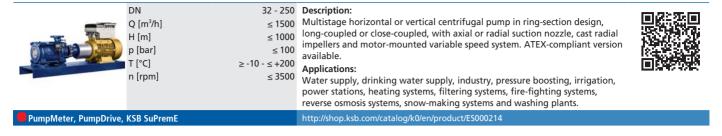
Machine tools, industrial machine systems, condensate transport, paint shops





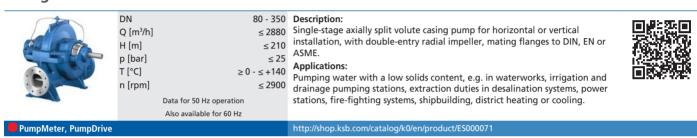
PumpDrive, KSB SuPremE http://shop.ksb.com/catalog/k0/en/product/ES000870

Multitec



Axially split pumps

Omega



RDLO

	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	≤ 10000 ≤ 290 ≤ 30	Description: Single-stage axially split volute casing pump for horizontal or vertical installation, with double-entry radial impeller, mating flanges to DIN, EN or ASME. Applications: Pumping water with a low solids content, e.g. in waterworks, irrigation and drainage pumping stations, extraction duties in desalination systems, power stations, fire-fighting systems, shipbuilding, district heating or cooling.
PumpMeter, Frequency inverter			http://shop.ksb.com/catalog/k0/en/product/ES000170

RDLP

	DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]	≤ 18000 $ ≤ 550 $ $ ≤ 64 $ $ ≥ 0 - ≤ +80$	Description: Axially split volute casing pump for horizontal installation, with one, two or three stages and double-entry radial impeller, mating flanges to DIN, ISO or ANSI. Applications: Pumping water with a low solids content, e.g. in waterworks and long-distance water supply.
Frequency inverter			http://shop.ksb.com/catalog/k0/en/product/ES000171

Hygienic pumps

Vitachrom



DN Q [m³/h]H [m] p [bar] T [°C]

> -30 - < +110

Data for 50 Hz operation

Also available for 60 Hz

50 - 125 Description:

 \leq 340 Service-friendly non-self-priming single-stage hygienic close-coupled pump in ≤ 100 back pull-out design with magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system. The pump features a semi-open impeller and electropolished surfaces. It is very easy to clean by CIP/SIP thanks to its almost complete lack of dead volume or narrow clearances. Its wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Vitachrom is EHEDG-certified. All materials comply with FDA standards and EN 1935/2004. ATEX-compliant version available. Applications:

Hygienic handling of fluids in the food, beverage and pharmaceutical



PumpMeter, PumpDrive, KSB SuPremE

industries as well as in the chemical industry.

Vitacast



Q [m³/h] H [m] p [bar] T [°C]

Data for 50 Hz operation Also available for 60 Hz Other ratings possible on request

32 - 200 Description:

≤ 10

 \geq -20 - \leq +140

≤ 540 Service-friendly volute casing pump with magnetless KSB SuPremE motor of ≤ 105 efficiency class IE4/IE5 and PumpDrive variable speed system. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Designed with very little dead volume; open impeller, electropolished surface excellent efficiency. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible), certified by the TNO Nutrition and Food Research Institute to EHEDG standards. All materials comply with FDA standards and EN 1935/2004. ATEX-compliant version available.



Applications:

Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry.

PumpMeter, PumpDrive, KSB SuPremE

http://shop.ksb.com/catalog/k0/en/product/ES000785

Vitacast Bloc



DN Q [m³/h]H [m] p [bar] T [°C]

≤ 10 Data for 50 Hz operation Also available for 60 Hz Other ratings possible on request

≤ 340 Service-friendly volute casing pump with magnetless KSB SuPremE motor of ≤ 105 efficiency class IE4/IE5 and PumpDrive variable speed system. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Designed with very little dead volume; open impeller, electropolished surface excellent efficiency. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible), certified by the TNO Nutrition and Food Research Institute to EHEDG standards. All materials comply with FDA standards and EN 1935/2004. Trolley available among other accessories. ATEXcompliant version available.



Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry.

PumpMeter, PumpDrive, KSB SuPremE

http://shop.ksb.com/catalog/k0/en/product/ES000785

Vitaprime



Q [m³/h]H [m] p [bar] T [°C]

 \geq -20 - \leq +100 Data for 50 Hz operation Also available for 60 Hz Other ratings possible on request

40 - 80 Description:

 \leq 58 Service-friendly close-coupled side channel pump (self-priming) with ≤ 45 magnetless KSB SuPremE motor of efficiency class IE4/IE5 and PumpDrive variable speed system. All wetted components are made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel. Hygienic design for the highest requirements on cleanability (CIP/SIP-compatible). All materials comply with FDA standards and EN 1935/2004. Trolley available among other accessories. ATEX-compliant version available.



Applications:

Hygienic handling of fluids in the food, beverage and pharmaceutical industries as well as in the chemical industry

PumpDrive, KSB SuPremE

Vitastage



Q [m³/h]H [m] < 150 p [bar] T [°C] > -20 - < +140 Data for 50 Hz operation

Also available for 60 Hz

Other ratings possible on request

≤ 12,5 Description:

Multistage centrifugal pump in close-coupled design for vertical or horizontal installation. All wetted components are made of 1.4401/1.4408 (AISI 316/ CF8M) stainless steel. Versatile, robust and especially energy-efficient. CIP/SIPcompatible. All materials comply with FDA standards and EN 1935/2004. Trolley also available among other accessories.



Applications:

Processes with hygienic requirements in the food and beverage industries and in the chemical industry.

http://shop.ksb.com/catalog/k0/en/product/ES000788

Vitalobe



DN 25 - 200 Q [m³/h] H [m] < 200 p [bar] ≤ 20 T [°C] > -40 - < +180 ≤ 200000 Viscosity [cP]

Data for 50 Hz operation Also available for 60 Hz Other ratings possible on request Description:

Sturdy rotary lobe pump in hygienic design, bi-directional operation possible, horizontal or vertical orientation of connections. Hygienic design, highly CIP/ SIP-compatible due to its almost complete lack of dead volume or narrow clearances. All wetted components made of 1.4404/1.4409 (AISI 316L/CF3M) stainless steel; various rotor types, shaft seals and process connections available. Installed as a pump set with geared standardised motor. Vitalobe is EHEDG-certified. The pump elastomers comply with FDA standards and EN 1935/2004. Accessories include trolley, heatable casing or casing cover and overpressure protection unit. ATEX-compliant version is available.



Hygienic and gentle handling of sensitive or high-viscosity fluids in the food, beverage and pharmaceutical industries, the chemical industry and general process engineering.

http://shop.ksb.com/catalog/k0/en/product/ES000847



PumpDrive, KSB SuPremE

Pumps for power station conventional islands

CHTA / CHTC / CHTD



100 - 700 Q [m³/h]H [m] ≤ 5400 p [bar] ≤ 560 T [°C] ≤ **+**270 n [rpm] ≤ 6750

Higher ratings possible upon request

Also available for 60 Hz

Description:

≤ 5700 Horizontal high-pressure barrel-type pumps with radial impellers, single-entry and double-entry, multistage, with flanges or weld end nozzles to DIN and

Applications:

Pumping feed water and condensate in power stations and industrial plants, generation of pressurised water for bark peeling and descaling units.



http://shop.ksb.com/catalog/k0/en/product/ES000239

HGB / HGC / HGD



Q [m³/h] H [m] p [bar] T [°C] n [rpm]

Also available for 60 Hz

Higher ratings possible upon request

40 - 400 Description:

 \leq 2300 Horizontal radially split ring-section pump with radial impellers, single-entry or double-entry, multistage. ≤ 5300

Applications: ≤ 560

≤ **+**210

≤ 7000

Pumping feed water and condensate in power stations and industrial plants, pumping gas turbine fuels, generating pressurised water for bark peeling and descaling units, snow guns, etc.



HGI



DN	80 - 150	Description:
Q [m ³ /h]		Horizontal radially split ring-section pump with radial impellers, single-entry,
H [m]	≤ 2000	multistage.
p [bar]		Applications:
T [°C]	≤+180	Pumping feed water and condensate in power stations and industrial plants.

Also available for 60 Hz

n [rpm]

T [°C]

n [rpm]

HGM



DN 25 - 125 I Q [m³/h] \leq 350 I H [m] \leq 1400 I p [bar] \leq 140

m] ≤ 3600 Also available for 60 Hz
Higher ratings possible upon request

25 - 125 Description:

≤ 3600

≤+160

 \leq 350 Horizontal radially split product-lubricated multistage ring-section pump with \leq 1400 radial impellers, axial and radial single-entry inlet.

Applications:

Pumping feed water in power stations, boiler feed systems and condensate transport in industrial plants.



http://shop.ksb.com/catalog/k0/en/product/ES000236

YNK



DN 125 - 600 Description:

Q [m³/h] \leq 5200 Horizontal radially split single-stage double-entry boiler feed booster pump (booster system) with cast steel single or double volute casing.

p [bar] \leq 100 Applications:

≥ +250 Pumping feed water in power stations and industrial plants.

≤ 3300

http://shop.ksb.com/catalog/k0/en/product/ES000181



LUV / LUVA



DN 100 - 550 D
Q [m³/h] ≤ 7000 V
H [m] ≤ 300 st
p [bar] ≤ 400 w
T [°C] ≤ +425 n [rpm] ≤ 3600 H

Data for 50 Hz operation Also available for 60 Hz

Higher ratings possible upon request

100 - 550 Description:

≤ 7000 Vertical spherical casing pump, radial impellers, single-entry, single- to three
stage. Suitable for very high inlet pressures and temperatures. Integrated wet

winding motor to VDE Product Juviscated bearings, no need for oil supply

winding motor to VDE. Product-lubricated bearings, no need for oil supply systems. Design to TRD, ASME or IBR.

Applications:

Hot water recirculation in forced-circulation, forced-flow and combined-circulation boilers for very high pressures and in solar power towers.



http://shop.ksb.com/catalog/k0/en/product/ES000183

WKTB



DN
Q [m³/h]
H [m]
p [bar]
T [°C]
n [rpm]

Data for 50 Hz operation
Also available for 60 Hz

150 - 300 **Description:**≤ 1500 Vertical can-

1500

≤ 1500 Vertical can-type ring-section pump on base frame, multistage, first-stage impeller designed as a double-entry suction impeller, radial impellers. Flanges to DIN or ANSI.

≤ 40
Applications:

Pumping condensate in power stations and industrial plants.



SEZ / SEZT / PHZ / PNZ

Q [m³/h]



H [m] < 120 T [°C] n [rpm] Data for 50 Hz operation Also available for 60 Hz

Higher ratings possible upon request

≤ 80000 Description:

Vertical tubular casing pump with open mixed flow impeller (SEZ), mixed flow propeller (PHZ) or axial propeller (PNZ), pump inlet with bellmouth or suction elbow, pull-out design available, discharge nozzle arranged above or below floor level, flanges to DIN or ANSI standards available.

Applications:

Pumping raw, clean, service and cooling water in industry, water supply systems, power stations and seawater desalination plants.



SNW / PNW



DN Q [m³/h] < 9000 H [m] p [bar] ≤ 10 T [°C] ≤+60 n [rpm] < 1500 Data for 50 Hz operation

> Also available for 60 Hz Higher ratings possible upon request

350 - 800 Description:

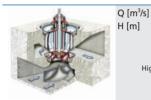
Vertical tubular casing pump with mixed flow impeller (SNW) or axial propeller (PNW), single-stage, with maintenance-free Residur bearings, discharge nozzle arranged above or below floor level.

Applications:

Irrigation and drainage systems, stormwater pumping stations, pumping raw and clean water, water supply, cooling water.



Beveron



H [m] Data for 50 Hz operation Also available for 60 Hz Higher ratings possible upon request

≤ 30 Description:

Concrete volute casing pump with mixed flow impeller, single-stage, with zero-maintenance Residur bearings lubricated by the fluid handled.

Coast protection and flood control, irrigation and drainage, low-lift pumping stations, reservoir filling, cooling water, raw and clean water.



http://shop.ksb.com/catalog/k0/en/product/ES000868

SPY



DN Q [m³/h] H [m] p [bar] T [°C] n [rpm]

≤21600 ≤ 50 ≤+105 ≤ 1480 Data for 50 Hz operation

Also available for 60 Hz Higher ratings possible upon request

350 - 1200 Description:

Long-coupled volute casing pump, single-stage, in back pull-out design. Applications:

Irrigation, drainage and water supply systems, for pumping condensate, cooling water, service water, etc.



Pumps for nuclear power stations

RER



DN ≤ 40000 Q [m³/h] H [m] ≤ 140 p [bar] ≤ 175 T [°C] ≤ +350 n [rpm] ≤ 1800 Available for 50 Hz and 60 Hz

Higher ratings possible upon request

< 800 Description:

Vertical, single-stage reactor coolant pump with forged circular casing plated on the inside, with diffuser, either with integrated pump thrust bearing or shaft supported by motor bearing.

Applications:

Reactor coolant recirculation in nuclear power stations.



RSR



DN Q [m³/h]< 24000 H [m] p [bar] ≤ 175 T [°C] ≤ +350 n [rpm] ≤ 1800

> Available for 50 Hz and 60 Hz Higher ratings possible upon request

≤ 750 Description:

Vertical single-stage reactor coolant pump with cast or forged casing, shaft ≤ 215 supported by motor bearing.

Applications:

Reactor coolant recirculation in nuclear power stations.



RUV



≤ 650 ≤ 22000 Q [m³/h]≤ 111 H [m] p [bar] < 155 T [°C] ≤ +350 ≤ 1800 n [rpm] Available for 50 Hz and 60 Hz

Higher ratings possible upon request

Description:

Vertical, single-stage reactor coolant pump. Seal-less design with integrated wet rotor motor and integrated flywheel. Product-lubricated bearings, no oil supply systems required.

Applications:

Reactor coolant recirculation in generation III+ nuclear power stations.



http://shop.ksb.com/catalog/k0/en/product/ES000848

PSR



DN Q [m³/h]≤ 9000 H [m] ≤ 45 ≤ 75 p [bar] T [°C] ≤ +300 n [rpm] < 2000

> Available for 50 Hz and 60 Hz Higher ratings possible upon request

≤ 600 Description:

Vertical pump set integrated in the reactor containment floor, seal-less pump with leak-free, low-maintenance wet rotor motor.

Applications:

Reactor coolant recirculation in boiling water reactors.



RHD



DN Q [m³/h]H [m] p [bar] T [°C] n [rpm]

≤ +210 < 6500 Available for 50 Hz and 60 Hz Higher ratings possible upon request

Also available for 60 Hz

125 - 500 Description:

 \leq 6500 Horizontal single-stage double-entry main feed water pump MFWP, cast or forged variant.

Applications: ≤ 150

≤ 1000

Main feed water supply (MFWS) in steam generation systems of nuclear power stations.



LUV Nuclear



DN Q [m³/h]H [m] p [bar] T [°C]

Data for 50 Hz operation

40 - 600 Description:

≤ 300

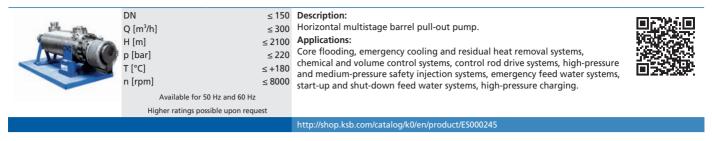
≤ 320

 \leq 7000 Vertical pump with integrated motor, single-entry, single- to three-stage. Suitable for very high inlet pressures and temperatures. Integrated wet winding motor to VDE. Product-lubricated bearings, no oil supply systems required. Design to ASME Section 3, KTA, etc.

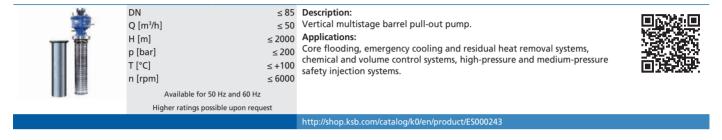
≤ +430 Applications:

As reactor water clean-up pump in boiling water reactors, reactor coolant pump in boiling water and pressurised water reactors and recirculation pump in test facilities.

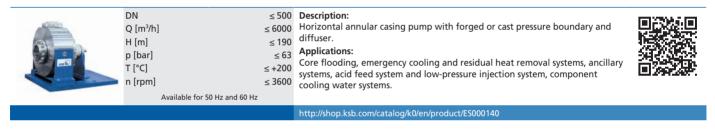
RHM



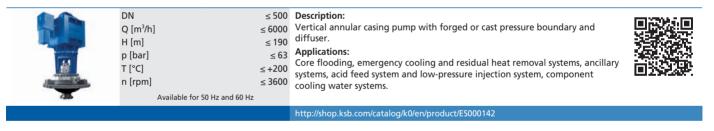
RVM



RHR



RVR



Pumps for desalination by reverse osmosis

RPH-RO



HGM-RO



I	ON	65 - 250
(Q [m³/h]	≤ 1500
I	H [m]	≤ 950
ŀ	[bar]	≤ 120
-	Γ [°C]	≥ 0 - ≤ +40
1	n [rpm]	≤ 3600

Description:

Applications:

Horizontal radially split product-lubricated multistage ring-section pump with radial impellers and plain bearings, axial and radial single-entry inlet. Duplex stainless steel variant or super duplex stainless steel variant, also suitable for



Also available for 60 Hz

High-pressure pump for RO seawater desalination systems

http://shop.ksb.com/catalog/k0/en/product/ES000237

Multitec-RO



50 - 150 Description: Q [m³/h] H [m] ≤ 100 p [bar] T [°C] -10 - ≤ +45 n [rpm] ≤ 3500

> Data for 50 Hz operation Also available for 60 Hz

≤ 850 Horizontal, multistage centrifugal pump in ring-section design. Axial suction ≤ 1000 nozzle. Discharge nozzle can be turned in steps of 90°. Closed radial impellers. Made of duplex or super-duplex stainless steel.

Applications:

High-pressure pump for RO seawater desalination systems and geothermal systems (re-injection of geothermal water into the aquifer).



PumpDrive, KSB SuPremE

http://shop.ksb.com/catalog/k0/en/product/ES000508

Positive displacement pumps

RC / RCV



DN Q [m³/h]H [m] ≤ 100 p [bar] ≤ 10 T [°C] ≥ +5 - ≤ +80 n [rpm] ≤ 1500

> Data for 50 Hz operation Also available for 60 Hz

20 - 100 Description:

 \leq 78 Helical gear pump, self-priming, with bypass valve, close-coupled design, for horizontal installation with baseplate or vertical installation. With mechanical



Fuel feed, handling fuel, lubricating oil and viscous fluids, lubrication systems.



http://shop.ksb.com/catalog/k0/en/product/ES000744

Fire-fighting systems

EDS



DN Q [m³/h]H [m] p [bar] T [°C] n [rpm]

 $\geq +5 - \leq +50$ Also available for 60 Hz

32 - 300 Description:

Automatic fire-fighting system consisting of a jockey pump and one or several ≤ 840 duty pumps, with electric motor or diesel engine. Includes manifold, valves, ≤ 140 accessories and control unit. To EN 12845, CEA 4001, UNE-23500, NFPA-20, etc. ≤ 16

≤ 3000

Office buildings, hotels, industry, shopping malls, etc.



DU / EU



32 - 350 Description:
≤ 2500 Automatic fire-fighting system consisting of pumps with electric motor or
diesel engine and control unit. To EN 12845, CEA 4001, UNE-23500, NFPA-20,
FM, etc.
Applications:

≥ 25 Applications:

≥ +5 - ≤ +50 Office buildings, hotels, industry, shopping malls, etc. ≤ 3000



Control units

Controlmatic E



No. of pumps U [V]

≤ 1 Description:

1~230 Automatic control unit for pressure-controlled starting, flow-controlled stopping and monitoring of a single pump

In water supply systems in combination with Multi Eco, Ixo, UPA 100C.



http://shop.ksb.com/catalog/k0/en/product/ES000276

Controlmatic E.2



No. of pumps U [V]

≤ 1 Description:

1~230 Automatic control unit for pressure-controlled starting, flow-controlled stopping and monitoring of a single pump

Applications:

In water supply systems in combination with Multi Eco, Ixo, UPA 100C.



http://shop.ksb.com/catalog/k0/en/product/ES000276

Cervomatic EDP.2



No. of pumps U [V]

≤ 1 Description:

1~230 / 3~400 Automatic control unit for pressure-controlled starting and either pressurecontrolled or flow-controlled stopping and monitoring of a single pump.

Use in water supply systems with pumps of the Multi Eco, Ixo, UPA 100C and UPA 150C type series with single-phase or three-phase motors.



http://shop.ksb.com/catalog/k0/en/product/ES000275

LevelControl Basic 2



No. of pumps P [kW] U [V] 1~230 / 3~400

Higher ratings and other mains voltages available on request

≤ 2 Description:

≤ 22 Level control unit for controlling and protecting either one or two pumps. DOL starting up to 4 kW, star-delta starting up to 22 kW. Higher ratings on

Applications:

Tank drainage using float switches, digital switches, 4...20 mA, pneumatic (w/ o compressor) or bubbler system in building services and waste water applications. Tank filling using float switches, digital switches or 4...20 mA in

building services and water supply applications. http://shop.ksb.com/catalog/k0/en/product/ES000603



UPA Control



No. of pumps P [kW] U [V]

≤ 1 Description:

3 The KSB switchgear is suitable for level control and protection of submersible 1~230 / 3~400 borehole pumps, submersible motor pumps and dry-installed pumps with single-phase AC motors 1~ 230 V or three-phase motors 3~ 230 / 400 V / 50 Hz The motor is started DOL. Enclosure: IP56, dimensions: 205 × 255 × 170 mm $(H \times W \times D)$.



Irrigation and filling or draining tanks in water supply applications in combination with 4" and 6" pumps.



Hyatronic N



 $\begin{array}{lll} \text{No. of pumps} & \leq 6 \\ \text{P [kW]} & 22 \\ \text{U [V]} & 3{\sim}400 \\ \end{array}$

U [V] 3~400 Higher ratings and other mains voltages available on request

Description:

 22 Pump control system in control cabinet for cascade starting and stopping of $^{3{\sim}400}$ up to 6 pumps on the mains.

Applications:

Applications.

For draining tanks and sumps in drainage and waste water disposal applications. For filling tanks in water supply applications. Level measurement using float switch or 4...20 mA sensor.



http://shop.ksb.com/catalog/k0/en/product/ES000303

Monitoring and diagnosis

Amacontrol

No. of pumps Pump U [V AC]

≤ 1 Amacan 230

≤ 1 Description:

Amacan Monitoring system for submersible motor pumps, with tripping function.



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