Pumps ▪ Valves ▪ Systems

Pumps and Automation 2009

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Our high standard: Creating intelligent solutions

We have supplied generations of customers worldwide with pumps, valves, automation products and services. A company with that kind of experience knows that success never stands still. It flows. And the process that makes that possible is a running partnership between developer and user, between production and practice.

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

- Over 130 years' experience
- Present in more than 100 countries
- More than 14,000 employees
- More than 100 service centres worldwide
- Approximately 1,900 service specialists

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Type series index

for pumps and automation

Our services:
Dependability at your call

We tailor our services to enable new ways of individually optimizing our products. They underscore our far-reaching sense of customer responsibility. That commitment starts before any orders – for example with sound advice on financing options. And it goes far beyond product arrival. A dependable partnership with KSB lasts for years. Our services to customers include:

- Remote diagnosis
- Revamping
- TPM® (Total Pump Management)
- System engineering
- Advice on life cycle costs
- Financing options
- Teleservice
- Savings potential analysis

Ready where you are. KSB runs more than 100 service centres around the world. Some 1,900 highly trained KSB specialists are on call to inspect and maintain your equipment. So you can plan for a future free of unwanted surprises. And we also provide individual on-site training sessions. They ensure that operators can use KSB products and systems efficiently and profitably, day in, day out.

Which is how we secure the long-term value of our customers' facilities.



Our vision:
Moving more, together

Yesterday: Movement with a mission.
When KSB started business in 1871, our pumps got things moving almost overnight. From the word go, the company was an enthusiastic pioneer. The motor of that dynamism was the sense of contributing to new movement in modern industry.

That is all history now. But KSB still stays true to its tradition, and continues to pioneer remarkable technical skills.

Today: Impetus from innovations.
KSB has spent its long history providing technical innovations that help customers and partners work more successfully than ever.

We gear everything we do to the real demands of everyday operations. Products, systems, life cycle costs and our steadily growing range of services all put customers and their processes first. This relies on our special concentration of activities – from development to sales and marketing.

Tomorrow: Perspectives for partnerships.
Lively dialogue with customers has been a KSB speciality for over 130 years. Mutual respect remains its hallmark.

Our aim is to strengthen this working partnership still further. The benefits are mutual, too: we profit from practical experience that complements our years of development know-how. And so our customers profit from innovative products, systems and services that match their demands with precision and performance.

Partnership is a value whose products keep their value. So moving more together makes doubly good sense. We look forward to teaming up.

Type / Application	Type Series	Page	A	Segment					
				Water	Waste Water	Industry	Energy	Building Services	Mining
Circular pumps / hot water service pumps, fixed speed	Rio / Rio Z	16	■					■	
	Rio C	16						■	
	Riotherm C	16						■	
	Riotherm	16				■		■	
Circular pumps, variable speed	Rio-Eco / Rio-Eco Z	17						■	
	Riotronic S / Riotronic ECO	17						■	
In-line pumps with fixed/variable speed drive	Trialine / Trialine Z	17, 18	■			■		■	
	Etaline / Etaline Z	18	■			■		■	
	Etaline PumpDrive	18	■			■		■	
	Etaline Z PumpDrive	18	■			■		■	
Standardized / close-coupled pumps, fixed/variable speed	Etanorm / Etanorm R	19	■	■		■	■	■	
	Etanorm PumpDrive	19	■	■		■	■	■	
	Etabloc / Etabloc PumpDrive	19	■	■		■	■	■	
	Etachrom BC / Etachrom BC PumpDrive	19, 20	■	■		■	■	■	
	Etachrom NC / Etachrom NC PumpDrive	20	■	■		■	■	■	
	Etanorm GPV / CPV	20	■	■		■	■	■	
Hot water pumps	HPK-L / HPK / HPH	21	■			■	■	■	
Hot water / thermal oil pumps	Etanorm SYA / RSY	21	■			■		■	
	Etabloc SY / Etaline SY	22	■			■		■	
Thermal oil pumps with magnetic drive / canned motor	Etamagno SY / SYI / Bloc SY	22	■			■			
	HX (Nikkiso-KSB) / HY (Nikkiso-KSB)	22				■			
Standardized chemical pumps	CPKN / CPKN PumpDrive	23	■	■		■	■	■	
	CPK-D	23	■			■			
Seal-less pumps	Magnochem	24	■			■	■		
	Magnochem-Bloc	24	■			■			
	Etaseco / Etaseco-I	24	■	■		■	■	■	
	Secochem Ex / Secochem Ex K	24	■			■	■		
	HN / BN / TN (Nikkiso-KSB)	25				■	■		
	HT / BT / TT (Nikkiso-KSB)	25				■	■		
	HK (Nikkiso-KSB)	25				■	■		
	VN (Nikkiso-KSB	25				■	■		
	DN (Nikkiso-KSB)	25				■			
Process pumps	RPH	26	■			■	■		
	CTN	26	■			■			
Micro-process engineering	Microchem	26				■			
Rainwater harvesting systems	Hya-Rain / Hya-Rain N	27		■				■	
	Eco-Rain	27		■				■	
Domestic water supply systems with automatic control unit / swimming pools	Multi Eco / Multi Eco-Pro	27	■	■		■		■	
	Multi Eco-Top	28		■		■		■	
	Movitec VE	28		■		■		■	
	Ixo	28	■	■		■		■	
	Filtra	28						■	
Pressure boosting units	Hya-Solo E / D / DV	29		■		■		■	
	Hya-Eco K / Hya-Eco VP	29		■		■		■	
	Hyamat K / Hyamat V / Hyamat VP	30		■		■		■	
	Hyamat IK, IV, IVP	30		■		■			
Drainage pumps / waste water pumps	Ama-Drainer 301, 303, 324, 356	31	■					■	
	Ama-Drainer 400/10, 400/35, 500/10/11	31	■			■		■	
	Ama-Drainer 80, 100	31	■					■	
	Ama-Porter F / S / ICS	31	■					■	
	Rotex	31	■			■	■		
	MK / MKY	32	■			■	■		
Lifting units/collection tanks	Ama-Drainer-Box	32	■					■	
	mini-Compacta	32	■					■	
	Compacta	32	■			■		■	
	Ama-Porter CK Pumping Station	33	■					■	
	Amarex N CK Pumping Station	33	■					■	
	Evamatic-Box / Evamatic-Box ICS	33						■	
Submersible motor pumps	Amarex N	34	■		■	■		■	
	Amarex KRT	34	■	■	■	■		■	
	Amarex KRT dry installed	34	■		■	■		■	
Submersible pumps in discharge tubes	Amacan K	34	■		■				
	Amacan P / Amacan S	35	■	■	■				
Mixers / agitators / tank cleaning units	Amamix	35			■	■			
	Amaprop	35			■	■			
	Amajet	36			■	■			
	Amaline	36			■	■			
Pumps for solids-laden fluids	Sewatec / Sewabloc	36	■		■	■			
	KWP / KWP-Bloc	36	■		■	■	■		

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Type / Application	Type Series	Page	A	Segment					
				Water	Waste Water	Industry	Energy	Building Services	Mining
Self-priming pumps	Etaprime L	37		■		■			
	Etaprime B / BN	37		■		■			
Submersible borehole pumps	S 100D / UPA 100C	37	■	■		■		■	
	UPA 150C	37	■	■		■		■	■
	UPA 200, 200B, 250C	38	■	■		■		■	■
	UPA 300, 350	38	■	■		■		■	■
	UPZ, BSX-BSF	38		■					■
High-pressure pumps, fixed / variable speed	Movitec V / LHS / VS / VC	39	■	■		■	■	■	
	Movitec PumpDrive	39	■	■		■	■	■	
	Multitec / Multitec PumpDrive	39	■	■		■	■	■	
Axially split pumps	Omega	40	■	■	■	■	■	■	
	RDLO	40	■	■	■	■	■	■	
Stainless steel pumps for the food industry	Vitachrom	40	■			■			
Pumps for power station conventional islands	CHTA / CHTC / CHTD	41					■		
	CHTR	41					■		
	HGB / HGC / HGD	41				■	■		
	HGM	41				■	■		
	YNK / KRHA	41					■		
	RHD	42					■		
	LUV / LUVA / LUVB	42					■		
	WKT / WKTA / WKTB	42					■		
	SEZ / PHZ / PNZ	42		■			■		
	SNW / PNW	43		■			■		
	SPY	43		■	■	■	■		
Pumsp for power station nuclear islands	RER	43					■		
	RSR	43					■		
	PSR	44					■		
	LUV nuklear	44					■		
	RHM	44					■		
	RVM	44					■		
	RHR / RVR	44					■		
Slurry pumps	WBC	45							■
	LSA-S	45				■	■		■
	LCC-M	45				■	■		■
	LCC-R	45				■	■		■
	TBC	45							■
	LSR	46							■
	LCV	46							■
	FGD	46				■	■		■
	Mega	46							■
	HHD	46							■
	MHD	47							■
	LHD	47							■
	MDX	47				■			■
Pumps and pressure exchangers for seawater desalination by reverse osmosis	SalTec® System	48		■					
	SalTec® DT	48		■					
	RPH-RO	48		■					
	HGM-RO	48		■					
	Multitec-RO	48		■					

Automation		Page	Segment					
			Water	Waste Water	Industry	Energy	Building Services	Mining
Control systems	hyatronic K / N	49	■	■	■		■	
	hyatronic S	49	■	■	■		■	
	hyatronic SP	49	■	■	■		■	
	hyatronic mb	49	■	■	■		■	
	Hyamaster ISB	49	■	■	■		■	
	Hyamaster SPS	50	■	■	■		■	
	hyatronic spc	50	■	■	■		■	
	PumpDrive	50	■		■		■	
	UPA Control	50	■				■	
	LevelControl	50	■	■			■	
	Controlmatic E.2	51	■				■	
	Cervomatic EDP	51	■				■	
Monitoring and diagnostic systems	Amacontrol	51	■	■	■			
	PumpExpert	51	■	■	■			

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Fluids	Pumps	Rio / Rio Z	Rio C	Riotherm C	Ricotherm	Rio-Eco / Rio-Eco Z	Riotronic S / Riotronic ECO	Trialine	Trialine Z	Etaline	Etaline Z	Etaline PumpDrive	Etaline Z PumpDrive	Etanorm / Etanorm R	Etanorm PumpDrive	Etabloc	Etabloc PumpDrive	Etachrom BC / Etachrom BC PumpDrive	Etachrom NC / Etachrom NC PumpDrive	Etanorm GPV / CPV	HPK-L	HPH	HPK	Etanorm SYA / RSY	Etabloc SY / Etaline SY	Etamagno SY / SYI / Bloc SY	HX (Nikkiso-KSB)	HY (Nikkiso-KSB)	CPKN / CPKN PumpDrive	CPK-D
	Circulator pumps / hot water service pumps, fixed speed	■	■	■	■																									
	Circulator pumps, variable speed					■	■																							
	In-line pumps with fixed / variable speed drive							■	■	■	■	■	■																	
	Standardized / close-coupled pumps, fixed / variable speed													■	■	■	■	■	■	■										
	Hot water pumps																				■	■	■							
	Hot water / thermal oil pumps, standardized																							■	■					
	Thermal oil pumps with magnetic drive / canned motor																									■	■	■		
	Standardized chemical pumps																												■	■
Activated sludge																														
Agressive liquids																											■		■	
Brackish water														■	■	■	■												■	
Brine														■	■	■	■							■	■				■	
Cleaning agents																■	■	■	■					■	■				■	
Condensate																														
Cooling water	■	■	■	■		■		■	■	■	■	■	■	■	■	■	■	■	■		■	■	■						■	
Corrosive liquids																											■	■		
Destillate																					■	■	■				■	■		
Digested sludge																														
Dipping paints																				■										■
Drinking water				■	■									■	■	■	■	■	■										■	
Explosive liquids																											■	■	■	
Feed water																					■	■	■							
Fire-fighting water														■	■	■	■												■	
Flammable liquids																											■	■	■	
Fuels																													■	
Gas-containing liquids																													■	
Harmful liquids																											■	■	■	
Heating water		■	■			■	■	■	■	■	■	■	■	■	■	■	■												■	
Highly aggressive liquids																								■	■		■	■	■	
High-temperature hot water		■								■	■			■	■	■	■	■	■		■	■	■	■	■		■	■		
Hot water		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■					
Industrial service water				■	■			■	■	■	■	■	■	■	■	■	■	■	■	■									■	
Inorganic liquids																											■	■	■	
Liquefied gas																														
Lubricants																							■						■	
Oils														■	■	■	■	■	■		■		■	■	■		■	■	■	
Organic liquids																					■		■				■	■	■	■
Polymerizing liquids																											■	■	■	
Raw sludge																														
River, lake and ground water														■	■	■	■													
Seawater																■	■												■	
Service water				■	■			■	■	■	■	■	■	■	■	■	■	■	■										■	
Sewage with faeces																														
Sewage without faeces																											■	■		
Slurries																												■		
Slurries (ore, sand, gravel, ash)																														
Solvents																											■	■	■	
Swimming-pool water														■	■	■	■	■	■											
Thermal oil																					■		■	■	■	■	■	■	■	
Toxic liquids																											■	■	■	
Valuable liquids																											■	■	■	■
Volatile liquids																											■	■	■	
Wash water																				■										
Waste water																														

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Fluids	Pumps	Ama-Drainer-Box	mini-Compacta	Compacta	Ama-Porter CK Pumping Station	Amarex N CK Pumping Station	Evamatic-Box / Evamatic-Box ICS	Amarex N	Amarex KRT	Amarex KRT dry installed	Amacan K	Amacan P	Amacan S	Amamix	Amaprop	Amajet	Amaline	Sewatec / Sewabloc	KWP / KWP-Bloc	Etaprime L	Etaprime B / BN	S 100D / UPA 100C	UPA 150C	UPA 200, 200B, 250C	UPA 300, 350	UPZ, BSX-BSF	Movitec V / LHS / VS / VC	Movitec PumpDrive	Multitec / Multitec PumpDrive	Omega	RDLO
		Lifting units / collecting tanks						Submersible motor pumps			Submersible pumps in discharge tubes			Mixers / agitators / tank cleaning units				Pumps for solids-laden fluids		Self-priming pumps		Submersible borehole pumps					High-pressure pumps, fixed / variable speed			Axially split pumps	
Activated sludge								■	■	■	■						■	■													
Agressive liquids			■						■											■	■										
Brackish water																			■											■	■
Brine									■																						
Cleaning agents																													■		
Condensate																													■		
Cooling water								■	■													■	■	■	■		■	■	■	■	■
Corrosive liquids																															
Destillate																											■	■	■		
Digested sludge								■	■	■								■													
Dipping paints																															
Drinking water																						■	■	■	■	■	■	■	■	■	■
Explosive liquids																															
Feed water																													■		
Fire-fighting water																							■	■	■		■	■	■	■	■
Flammable liquids																															
Fuels																													■		
Gas-containing liquids								■	■	■																					
Harmful liquids																															
Heating water																															
Highly aggressive liquids																															
High-temperature hot water																														■	■
Hot water																														■	■
Industrial service water								■	■	■		■	■	■			■					■	■	■	■	■	■	■		■	■
Inorganic liquids																															
Liquefied gas																															
Lubricants																													■		
Oils																															
Organic liquids																															
Polymerizing liquids																															
Raw sludge								■	■	■								■													
River, lake and ground water								■	■			■	■					■	■			■	■	■	■	■				■	■
Seawater								■	■			■	■										■	■	■					■	■
Service water		■	■	■	■	■	■	■	■	■		■	■			■						■	■	■	■	■				■	■
Sewage with faeces			■	■		■	■	■	■	■				■	■		■	■	■												
Sewage without faeces		■	■	■	■	■	■	■	■	■				■	■		■	■	■												
Slurries																			■												
Slurries (ore, sand, gravel, ash)																													■		
Solvents																													■		
Swimming-pool water																															
Thermal oil																															
Toxic liquids																															
Valuable liquids																															
Volatile liquids																															
Wash water								■																			■	■	■		
Waste water		■	■	■	■	■	■	■	■	■		■	■	■			■		■	■									■		

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Applications

Applications	Rio / Rio Z	Rio C	Riotherm C	Ricotherm	Rio-Eco / Rio-Eco Z	Riotronic S / Riotronic ECO	Trialine	Trialine Z	Etaline	Etaline Z	Etaline PumpDrive	Etaline Z PumpDrive	Etanorm / Etanorm R	Etanorm PumpDrive	Etabloc	Etabloc PumpDrive	Etachrom BC / Etachrom BC PumpDrive	Etachrom NC / Etachrom NC PumpDrive	Etanorm GPV / CPV	HPK-L	HPH	HPK	Etanorm SYA / RSY	Etabloc SY / Etaline SY	Etamagno SY / SYI / Bloc SY	HX (Nikkiso-KSB)	HY (Nikkiso-KSB)	CPKN / CPKN PumpDrive	CPK-D
Air-conditioning systems	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■							■				
Aquaculture																													
Boiler circulation																				■	■	■							
Boiler feed applications																				■	■	■							
Chemical industry													■	■											■	■	■	■	■
Cleaning of stormwater tanks / storage sewers																													
Condensate transport													■	■	■	■	■	■		■	■	■				■	■		
Cooling circuits	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■				■	■	■							
Descaling units																													
Dewatering													■	■	■	■	■	■	■										
Disposal																													
District heating									■	■	■	■	■	■						■		■			■	■	■		
Dock facilities																													
Domestic water supply																													
Drainage																													
Drainage of pits, shafts, etc.																													
Dredging																													
Fire-fighting systems													■	■	■	■												■	
Flue gas desulphurization																													
Food and beverages industry									■	■	■	■	■	■	■	■	■	■	■				■	■				■	
Fountains																													
Heat recovery systems	■	■	■		■	■	■	■	■	■	■	■																	
Heavy oil and coal upgrading																												■	
Homogenization																													
Hot water heating systems	■	■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■		■		■							
Hydraulic solids transport																													
Industrial recirculation systems	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■		
Irrigation													■	■	■	■	■	■	■										
Keeping in suspension																													
Lowering ground water levels																													
Maintaining ground water levels																													
Mining																													
Mining																													
Nuclear power stations																					■	■				■	■		
Paint shops																			■										■
Paper and cellulose industry																									■			■	
Petrochemical industry																										■	■	■	
Pipelines and tank farms																										■	■	■	
Pressure boosting																													
Process engineering																				■	■	■			■	■	■	■	■
Rainwater harvesting																													
Recirculation																													
Refineries																										■	■	■	■
Seawater desalination / reverse osmosis													■	■	■	■												■	
Sewage treatment plants													■	■	■	■	■	■	■										
Shipbuilding																													
Sludge disposal																													
Sludge processing																													
Snow guns																													
Spray irrigation													■	■	■	■	■	■											
Sugar industry																									■			■	
Swimming pools				■									■	■	■	■	■	■											
Thickening																													
Washing plants																													
Water extraction													■	■															
Water supply			■	■			■	■	■	■	■	■	■	■	■	■	■	■	■										
Water treatment systems													■	■														■	

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Applications

Seal-less pumps	Magnochem	Magnochem-Bloc	Etaseco / Etaseco-I	Secochem Ex	Secochem Ex K	HN / BN / TN (Nikkiso-KSB)	HT / BT / TT (Nikkiso-KSB)	HK (Nikkiso-KSB)	VN (Nikkiso-KSB)	DN (Nikkiso-KSB)	Process pumps	RPH	CTN	Micro-process engineering	Microchem	Rainwater harvesting systems	Hya-Rain / Hya-Rain N	Eco-Rain	Domestic water supply systems with automatic control unit / swimming pools	Multi Eco	Multi Eco-Pro	Multi Eco-Top	Movitec VE	Ixo	Filtra	Pressure boosting units	Hya-Solo E / D / DV	Hya-Eco K / Hya-Eco VP	Hyamat K	Hyamat V	Hyamat VP	Hyamat IK, IV, IVP	Drainage pumps / waste water pumps	Ama-Drainer 301, 303, 324, 356	Ama-Drainer 400/10 400/35 500/10/11	Ama-Drainer 80, 100	Ama-Porter F / S / ICS	Rotex	MK / MKY	
	■	■	■	■	■	■																																	Air-conditioning systems
												■																											Aquaculture
																																							Boiler circulation
																																							Boiler feed applications
	■	■	■	■	■	■	■	■	■	■		■	■		■																								Chemical industry
																																							Cleaning of stormwater tanks / storage sewers
	■	■	■	■	■	■	■	■				■																									■	■	Condensate transport
	■	■	■	■	■	■																	■																Cooling circuits
																																							Descaling units
																																■	■	■	■	■	■	Dewatering
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	■	■	■	■	■	■			■																														District heating
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																				■	■	■	■				■	■	■	■	■								Domestic water supply
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																																■	■	■	■	■		Drainage of pits, shafts, etc.
																							■																Dredging
																							■																Fire-fighting systems
																																							Flue gas desulphurization
			■										■																							■	■		Food and beverages industry
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																																							Heat recovery systems
												■																											Heavy oil and coal upgrading
																																							Homogenization
	■	■	■	■	■																																		Hot water heating systems
																																							Hydraulic solids transport
	■	■	■	■	■	■	■	■	■														■															Industrial recirculation systems
																	■	■		■	■	■	■	■			■	■	■	■	■	■							Irrigation
																																							Keeping in suspension
																																							Lowering ground water levels
																																							Maintaining ground water levels
																																							Mining
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	■	■		■	■	■	■	■	■			■																											Nuclear power stations
			■																																					Paint shops
												■																								■				Paper and cellulose industry
	■	■	■	■	■	■	■	■	■	■		■	■																											Petrochemical industry
	■	■		■	■	■	■	■	■	■		■	■																											Pipelines and tank farms
																						■	■				■	■	■	■	■	■							Pressure boosting
	■	■	■	■	■	■	■	■	■	■		■			■																									Process engineering
																	■	■		■	■	■		■			■	■													Rainwater harvesting
																																								Recirculation
	■	■		■	■	■	■	■	■	■		■																												Refineries
																																								Seawater desalination / reverse osmosis
																																								Sewage treatment plants
																																								Shipbuilding
																																								Sludge disposal
																																								Sludge processing
																																								Snow guns
																	■	■		■	■	■	■	■			■	■	■	■	■									Spray irrigation
	■	■	■		■																																			Sugar industry
																								■																Swimming pools
																																								Thickening
																				■	■	■	■	■			■	■	■	■	■	■							Washing plants
																									■								■	■	■	■				Water extraction
			■		■															■	■	■	■	■	■		■	■	■	■	■	■								Water supply
																				■	■	■	■	■	■								■	■	■		■	■		Water treatment systems

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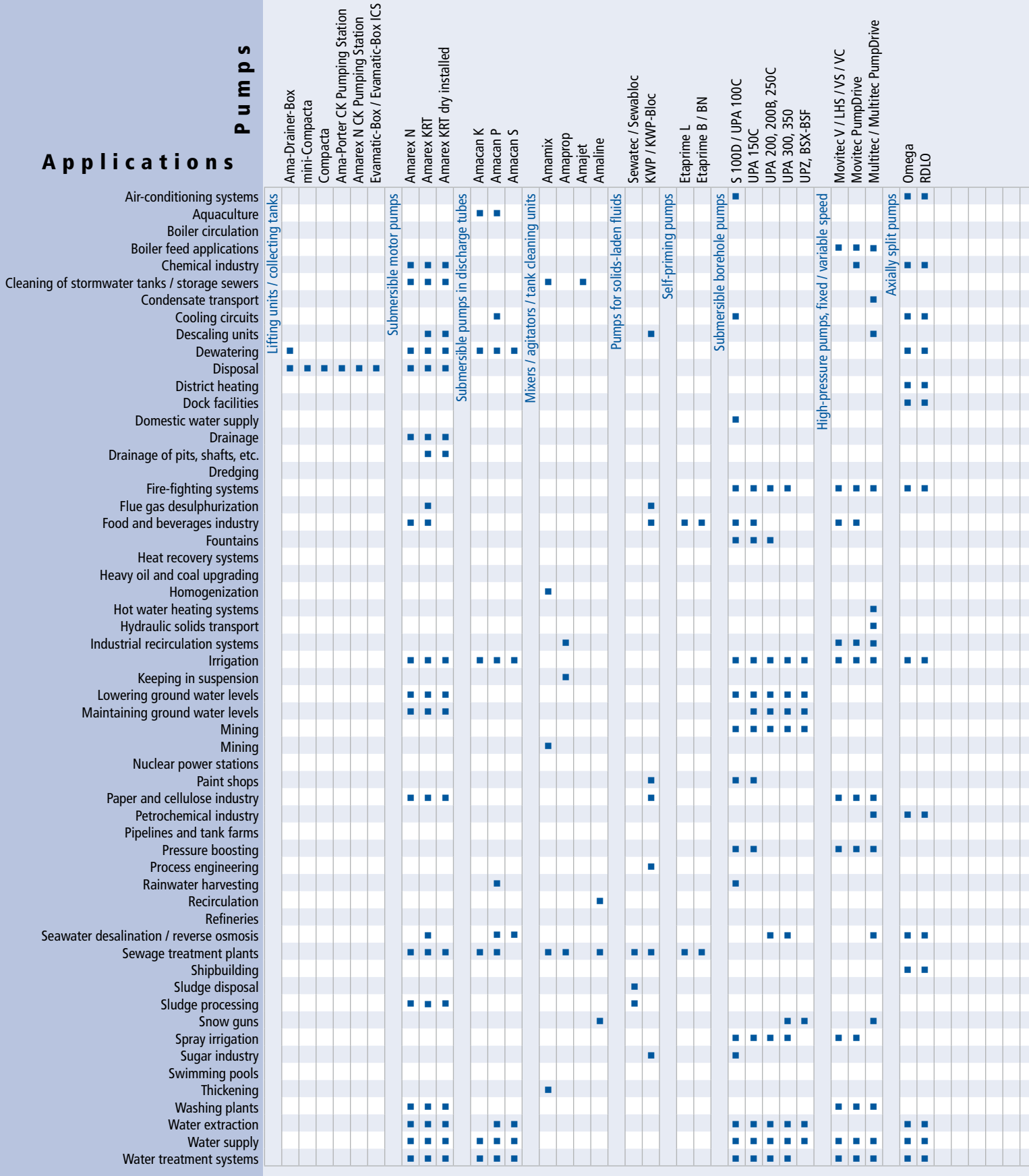
Applications

Pumps



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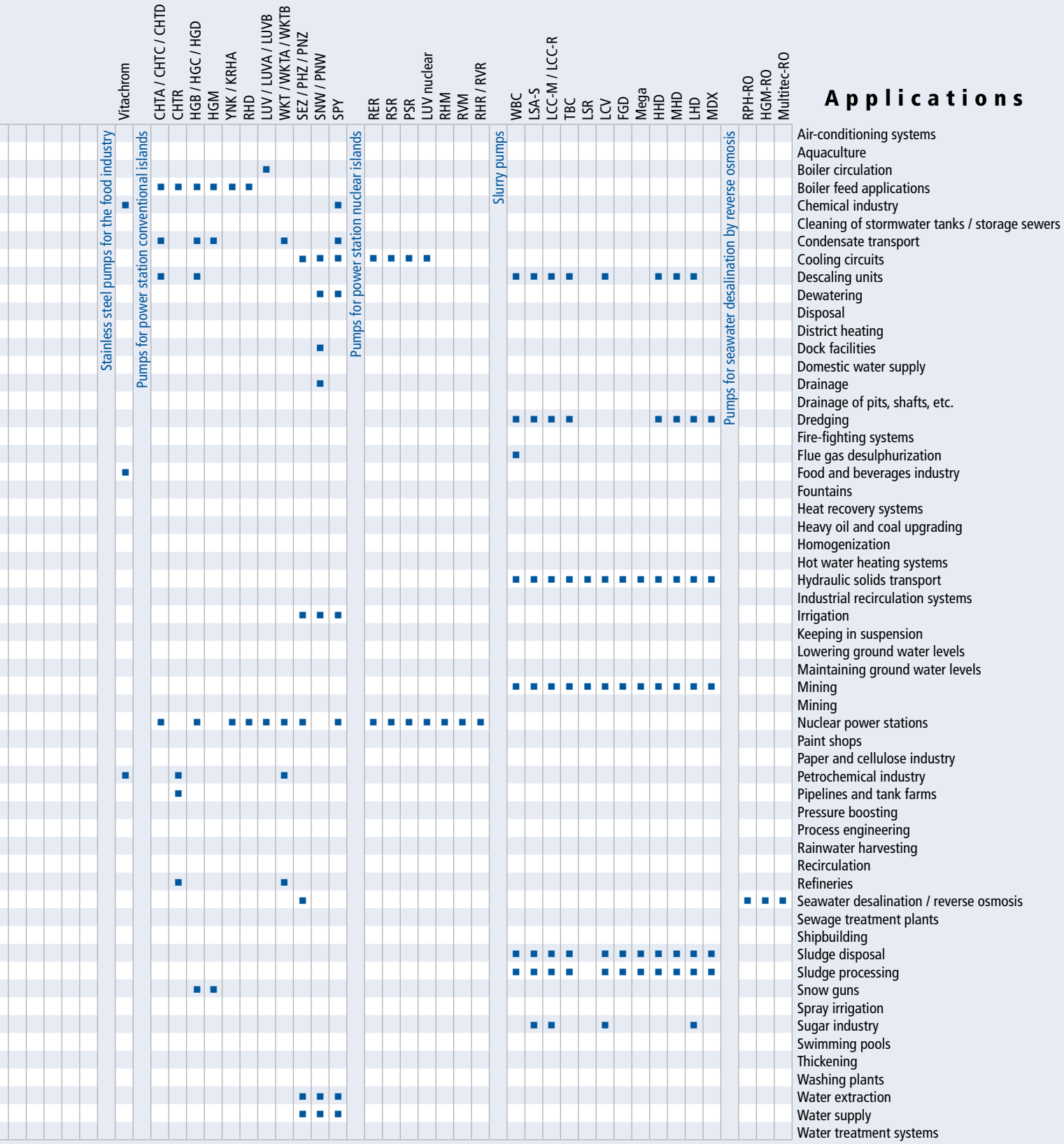

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Circulator pumps / hot water service pumps, fixed speed

Rio/Rio Z

Circulator pump with manual speed control

Rp / DN 1-1¼ / 32 - 100
Q [m³/h] max. 120
H [m] max. 18
p [bar] max. 10
T [°C] -20 to +130
Data for 50 Hz operation

Design: Maintenance-free, glandless wet rotor pump, flanged or screw-ended, with three speed levels; in twin pump design (Rio Z) for standby operation with integrated swing check valve or, on option, peak load operation (parallel operation).
Applications: Hot water heating systems, heat recovery systems and cooling circuits in air-conditioning systems.

A Switchgears

Reference no. 1115.51

Rio C

Circulator pump with manual speed control

Rp 1-1¼
Q [m³/h] max. 4
H [m] max. 5.8
p [bar] max. 10
T [°C] -10 to +110
Data for 50 Hz operation

Design: Maintenance-free, glandless wet rotor pump, screw-ended, with three speed levels.
Applications: Hot water heating systems, heat recovery systems and cooling circuits in air-conditioning systems.

Reference no. 1120.5 also available in 60 Hz

Riotherm C

Hot water service pump

Rp / DN ½-1¼ / 40 - 50
Q [m³/h] max. 28
H [m] max. 7.5
p [bar] max. 10
T [°C] -10 to +110
Data for 50 Hz operation

Design: Maintenance-free, glandless wet rotor pump, screw-ended, with three speed levels.
Applications: Hot water supply, heat transfer / recovery systems and cooling circuits in air-conditioning systems.

Reference no. 1109.5

Riotherm

Hot water service pump

Rp 1-1¼
Q [m³/h] max. 10
H [m] max. 6
p [bar] max. 10
T [°C] -2 to +110
Data for 50 Hz operation

Design: Screw-ended dry rotor pump with mechanical seal and fixed speed.
Applications: Hot water supply systems, swimming pools, cooling circuits and industrial plants.

Reference no. 1118.5 also available in 60 Hz

Circulator pumps, variable speed

Rio-Eco/Rio-Eco Z

Circulator pump with continuously variable differential pressure control

Rp / DN	1-1¼ / 32 - 65
Q [m³/h]	max. 108
H [m]	max. 13
p [bar]	max. 10
T [°C]	-10 to +110
n [min⁻¹]	max. 4800

Design: Maintenance-free wet rotor pump with integrated frequency inverter for continuously variable differential pressure control and IR interface for remote control.
Applications: Hot water heating systems, heat recovery systems and cooling circuits in air-conditioning systems.

Reference no. 1137.5 — **also suitable for 60 Hz operation**

Riotronic S

Circulator pump with continuously variable differential pressure control

Rp	1-1¼
Q [m³/h]	max. 3.5
H [m]	max. 6
p [bar]	max. 10
T [°C]	+20 to +110
n [min⁻¹]	max. 2680

Design: Maintenance-free, glandless wet rotor pump, screw-ended, with integrated electronics for continuously variable differential pressure control.
Applications: Hot water heating systems and heat recovery systems.

Reference no. 1112.5

Riotronic ECO

High-efficiency circulator pump with continuously variable differential pressure control

Rp	1-1¼
Q [m³/h]	max. 2.5
H [m]	max. 5
p [bar]	max. 10
T [°C]	+15 to +110
n [min⁻¹]	max. 3500

Design: Maintenance-free, glandless wet rotor pump, screw-ended, with EC motor technology and continuously variable differential pressure control.
Applications: Hot water heating systems and heat recovery systems.

Reference no. 1112.51

In-line pumps with fixed / variable speed drive

Trialine

In-line pump

DN	32 - 80
Q [m³/h]	max. 90
H [m]	max. 16
p [bar]	max. 10
T [°C]	-15 to +120

Data for 50 Hz operation

Design: Close-coupled in-line pump with common pump / motor shaft.
Applications: Hot water heating systems, cooling circuits, air-conditioning and water supply systems.

A Hyamaster · hyatronic · Switchgears

Reference no. 1144.51 — **also available in 60 Hz**

In-line pumps with fixed / variable speed drive

Trialine Z

In-line twin pump

DN 32 - 80
Q [m³/h] max. 120
H [m] max. 16
p [bar] max. 10
T [°C] -15 to +120
Data for 50 Hz operation

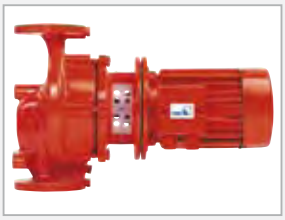
Design: Close-coupled in-line pump with common pump / motor shaft; in twin pump design for standby operation with integrated change-over flap or, on option, peak load operation (parallel operation).
Applications: Hot water heating systems, cooling circuits, air-conditioning and water supply systems.

A Hyamaster · hyatronic · Switchgears

Reference no. 1144.52 also available in 60 Hz

Etaline

In-line pump



DN 32 - 200
Q [m³/h] max. 700
H [m] max. 95
p [bar] max. 16
T [°C] -30 to +140
Data for 50 Hz operation

Design: Close-coupled, in-line circulator pump with volute casing and standardized motor.
Applications: Hot water heating systems, cooling circuits, air-conditioning, water and service water supply systems, industrial recirculation systems.

A Hyamaster · hyatronic · Switchgears

Reference no. 1146.51 also available in 60 Hz

Etaline Z

In-line twin pump

DN 32 - 200
Q [m³/h] max. 1120
H [m] max. 77
p [bar] max. 16
T [°C] -30 to +140
Data for 50 Hz operation

Design: Close-coupled, in-line twin circulator pump, pump shaft and motor shaft are rigidly coupled.
Applications: Hot water heating systems, cooling circuits, air-conditioning systems, water and service water supply systems, industrial recirculation systems.

A Hyamaster · hyatronic · Switchgears

Reference no. 1148.5 also available in 60 Hz

Etaline PumpDrive

In-line pump with motor-mounted variable speed system

DN 32 - 150
Q [m³/h] max. 788
H [m] max. 100
p [bar] max. 16
T [°C] -10 to +110
n [min^{-1}] max. 4200

Design: Close-coupled in-line circulator pump with motor-mounted variable speed system; pump shaft and motor shaft are rigidly coupled.
Applications: Hot water heating systems, cooling circuits, air-conditioning systems, water and service water supply systems, industrial recirculation systems.

A PumpDrive

Reference no. 1149.52 also suitable for 60 Hz operation

Etaline Z PumpDrive

In-line pump with motor-mounted variable speed system

DN 32 - 125
Q [m³/h] max. 479
H [m] max. 76
p [bar] max. 16
T [°C] -10 to +110
n [[min^{-1}] max. 4200

Design: Close-coupled in-line circulator pump, in twin pump design with motor-mounted variable speed system; pump shaft and motor shaft are rigidly coupled. Double pump control modules (accessories) enable redundant operation of Etaline Z without a higher-level controller.
Applications: Hot water heating systems, cooling circuits, air-conditioning systems, water and service water supply systems, industrial recirculation systems.

A PumpDrive

Reference no. 1154.51 also suitable for 60 Hz operation

A Automation possible

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Standardized / close-coupled pumps, fixed / variable speed

Etanorm / Etanorm R

Standardized pump

DN 32 - 300
Q [m³/h] max. 1900
H [m] max. 102
p [bar] max. 16
T [°C] max. +140
Data for 50 Hz operation

Design: Horizontal, long-coupled, single-stage volute casing pump (pump size > 125 with two stages) in back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings. Design to ATEX.
Applications: Spray irrigation, irrigation, drainage, district heating, water supply systems, heating and air-conditioning systems, condensate transport, swimming pools, fire-fighting systems, handling of hot water, cooling water, fire-fighting water, oil, brine, drinking water, brackish water, service water, etc.

A PumpExpert • PumpDrive • Hyamaster • hyatronic

Reference no. 1211.5 also available in 60 Hz

Etanorm PumpDrive

Standardized pump with motor-mounted variable speed system

DN 32 - 150
Q [m³/h] max. 800
H [m] max. 102
p [bar] max. 16
T [°C] max. +140
n [min⁻¹] max. 4200
Data for 50 Hz operation

Design: Horizontal, long-coupled, single-stage volute casing pump (pump size > 125 with two stages) in back pull-out design, with replaceable shaft sleeves / shaft protecting sleeves and casing wear rings. Design to ATEX.
Applications: Spray irrigation, irrigation, drainage, district heating, water supply systems, heating and air-conditioning systems, condensate transport, swimming pools, fire-fighting systems, handling of hot water, cooling water, fire-fighting water, oil, brine, drinking water, brackish water, service water, etc.

A PumpExpert • PumpDrive

Reference no. 1211.5 + 4070.5

Etabloc

Close-coupled pump

DN 25 - 150
Q [m³/h] max. 660
H [m] max. 102
p [bar] max. 16
T [°C] max. +140
Data for 50 Hz operation

Design: Close-coupled, single-stage volute casing pump, ratings to EN 733, with replaceable shaft sleeve and casing wear rings. Design to ATEX.
Applications: Spray irrigation, irrigation, drainage and water supply systems, heating and air-conditioning systems, condensate transport, swimming pools, handling of hot water, cooling water, fire-fighting water, seawater, oil, brine, drinking water, cleaning agents, brackish water, service water, etc.

A PumpDrive • Hyamaster • hyatronic

Reference no. 1167.5 also available in 60 Hz

Etabloc PumpDrive

Close-coupled pump with motor-mounted variable speed system

DN 25 - 150
Q [m³/h] max. 800
H [m] max. 102
p [bar] max. 16
T [°C] max. +110
n [min⁻¹] max. 4200

Design: Close-coupled, single-stage volute casing pump, ratings to EN 733, with replaceable shaft sleeve and casing wear rings. Design to ATEX.
Applications: Spray irrigation, irrigation, drainage and water supply systems, heating and air-conditioning systems, condensate transport, swimming pools, handling of hot water, cooling water, fire-fighting water, seawater, oil, brine, drinking water, cleaning agents, brackish water, service water, etc.

A PumpDrive

Reference no. 1167.5 + 4070.5

Etachrom BC

Close-coupled chrome steel pump

DN 25 - 80
Q [m³/h] max. 260
H [m] max. 108
p [bar] max. 12
T [°C] max. +110
Data for 50 Hz operation

Design: Close-coupled, horizontal, single-stage annular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings.
Design to ATEX.
Applications: Spray irrigation, irrigation, drainage and water supply systems, heating and air-conditioning systems, fire-fighting systems, swimming pools, handling of condensate, hot water, cooling water, fire-fighting water, oil, drinking water, cleaning agents, service water.

A Hyamaster • hyatronic

Reference no. 1213.5 also available in 60 Hz

A Automation possible

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Standardized / close-coupled pumps, fixed / variable speed

Etachrom BC PumpDrive

Close-coupled chrome steel pump with motor-mounted variable speed system

DN	25 - 80
Q [m³/h]	max. 260
H [m]	max. 106
p [bar]	max. 12
T [°C]	max. +110
n [min⁻¹]	max. 3500

Design: Close-coupled, horizontal, single-stage annular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings and motor-mounted variable speed system.
Applications: Spray irrigation, irrigation, drainage and water supply systems, heating and air-conditioning systems, fire-fighting systems, swimming pools, handling of condensate, hot water, cooling water, fire-fighting water, oil, drinking water, cleaning agents, service water.

A PumpDrive

Reference no. 1213.5 + 4070.5

Etachrom NC

Standardized chrome steel pump

DN	25 - 80
Q [m³/h]	max. 260
H [m]	max. 106
p [bar]	max. 12
T [°C]	max. +110

Data for 50 Hz operation

Design: Horizontal, single-stage annular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings. Design to ATEX.
Applications: Water supply, spray irrigation, irrigation and drainage systems, heating and air-conditioning systems, handling of drinking water, service water, hot water, cooling water, swimming pool water, fire-fighting water, condensate, oil and cleaning agents.

A Hyamaster • hyatronic

Reference no. 1212.5 also available in 60 Hz

Etachrom NC PumpDrive

Standardized chrome steel pump with motor-mounted variable speed system

DN	25 - 80
Q [m³/h]	max. 260
H [m]	max. 106
p [bar]	max. 12
T [°C]	max. +110
n [min⁻¹]	max. 3500

Design: Horizontal, single-stage annular casing pump, with ratings and main dimensions to EN 733, with replaceable casing wear rings and motor-mounted variable speed system.
Applications: Water supply, spray irrigation, irrigation and drainage systems, heating and air-conditioning systems, handling of drinking water, service water, hot water, cooling water, swimming pool water, fire-fighting water, condensate, oil and cleaning agents.

A PumpDrive

Reference no. 1212.5 + 4070.5

Etanorm GPV/CPV

Vertical low-pressure pump

DN	32 - 150
Q [m³/h]	max. 660
H [m]	max. 102
p [bar]	max. 16
T [°C]	max. +95

Data for 50 Hz operation

Design: Single-stage volute casing pump, ratings to EN 733, for vertical installation in closed tanks under atmospheric pressure. Up to an immersion depth of 2000 m.
Applications: Handling of neutral degreasing and phosphatizing solutions, wash water with degreasing agents, dipping paints, etc.

Reference no. 1214.5 also available in 60 Hz

Hot water pumps

HPK-L

Hot water / thermal oil recirculation pump without external cooling

DN 25 - 250
Q [m³/h] max. 1330
H [m] max. 155
p [bar] max. 40
T [°C] max. +240 / +350
Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design to EN 22 858 / 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. Design to ATEX.
Applications: Handling of hot water in piping or tank systems, particularly in medium-sized and large heating systems, forced circulation boilers, district heating systems, etc.

A PumpExpert • Hyamaster • hyatronic

Reference no. 1136.5 also available in 60 Hz

HPK

Hot water recirculation pump

DN 300 - 400
Q [m³/h] max. 4150
H [m] max. 185
p [bar] max. 40
T [°C] max. +400
Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design to EN 22 858 / ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. TÜV certification to TRD on option. Design to ATEX.
Applications: Handling of hot water and thermal oil in piping or tank systems, particularly in medium-sized and large heating systems, forced circulation boilers, district heating systems, etc.

A PumpExpert • Hyamaster • hyatronic

Reference no. 1121.51 also available in 60 Hz

HPH

Hot water recirculation pump

DN 40 - 350
Q [m³/h] max. 2350
H [m] max. 225
p [bar] max. 110
T [°C] max. +320
Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design, single-stage, single-entry, with centreline pump feet and radial impeller.
TÜV certification to TRD on option. Design to ATEX.
Applications: Handling of hot water in high-pressure hot water generation plants and for use as boiler feed and recirculation pump.

A Hyamaster • hyatronic

Reference no. 1122.5 also available in 60 Hz

Hot water / thermal oil pumps

Etanorm SYA / RSY

Hot water / thermal oil pump

DN 32 - 300
Q [m³/h] max. 1900
H [m] max. 102
p [bar] max. 16
T [°C] max. +350
Data for 50 Hz operation

Design: Horizontal, long-coupled volute casing pump in back pull-out design with ratings and main dimensions to EN 733, single-stage, with replaceable casing wear rings. Design to ATEX.
Applications: Heat transfer systems (DIN 4754, VDI 3033) or hot water recirculation.

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Reference no. 1220.5 also available in 60 Hz

A Automation possible

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Hot water / thermal oil pumps

Etabloc SY / Etaline SY

Hot water / thermal oil pump

DN	32 - 100
Q [m³/h]	max. 280
H [m]	max. 67
p [bar]	max. 16
T [°C]	max. +350

Data for 50 Hz operation

Design: Horizontal, single-stage volute casing pump in back pull-out design with ratings and main dimensions to EN 733, or in in-line design, with replaceable casing wear rings.
Applications: Heat transfer systems (DIN 4754) or hot water recirculation.

A PumpExpert • Hyamaster • hyatronic

Reference no. 1170.5

also available in 60 Hz

Thermal oil pumps with magnetic drive / canned motor

Etamagno SY / SYI / Bloc SY

Thermal oil pump

DN	32 - 150
Q [m³/h]	max. 660
H [m]	max. 102
p [bar]	max. 16
T [°C]	max. +350

Data for 50 Hz operation

Design: Horizontal, seal-less, single-stage volute casing pump with magnetic drive, ratings and main dimensions to EN 733, with replaceable casing wear rings.
Applications: Handling of thermal oil in heat transfer systems to DIN 4754.

A PumpExpert • Hyamaster • hyatronic

Reference no. 1218.5

also available in 60 Hz

(Only available in Europe, Russia, Middle East and Africa)

HX (Nikkiso-KSB)

Thermal oil pump

DN	32 - 100
Q [m³/h]	max. 200
H [m]	max. 100
p [bar]	max. 40
T [°C]	max. +350

Data for 50 Hz operation

Design: Horizontal, seal-less, single-stage pump with fully enclosed canned motor, uncooled, cooled or heatable, with explosion protection. Design to ATEX.
Applications: Handling of thermal oils and other hot fluids in heat transfer systems to DIN 4754.

also available in 60 Hz

(Only available in Europe, Russia, Middle East and Africa)

HY (Nikkiso-KSB)

Thermal oil pump

DN	32 - 80
Q [m³/h]	max. 150
H [m]	max. 100
p [bar]	max. 40
T [°C]	max. +250

Data for 50 Hz operation

Design: Horizontal, seal-less, single-stage pump with fully enclosed canned motor, uncooled, cooled or heatable, with explosion protection. Design to ATEX.
Applications: Handling of thermal oils and other hot fluids in heat transfer systems to DIN 4754.

also available in 60 Hz

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Standardized chemical pumps

CPKN

Standardized chemical pump with reinforced bearing bracket

DN 25 - 400
Q [m³/h] max. 4150
H [m] max. 185
p [bar] max. 25
T [°C] max. +400
Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design to EN 22 858 / ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. Also available as variant with "wet" shaft, conical seal chamber, heatable volute casing (CPKNO-CHs) and/or semi-open impeller (CPKNO). Design to ATEX.
Applications: Handling of aggressive liquids in the chemical and petrochemical industries as well as in refinery and fire-fighting systems, handling of brine.

A PumpExpert • Hyamaster • hyatronic

Reference no. 2730.5 also available in 60 Hz

CPKN PumpDrive

Standardized chemical pump with reinforced bearing bracket and motor-mounted variable speed system

DN 25 - 300
Q [m³/h] max. 1050
H [m] max. 220
p [bar] max. 25
T [°C] max. +110
n [min⁻¹] max. 3600

Design: Horizontal, radially split volute casing pump in back pull-out design to EN 22 858 / ISO 2858 / ISO 5199, single-stage, single-entry, with radial impeller. Also available as variant with "wet" shaft, conical seal chamber and/or semi-open impeller (CPKNO) with motor-mounted variable speed system.
Applications: Handling of aggressive liquids in the chemical and petrochemical industries as well as in refinery and fire-fighting systems.

A PumpDrive

Reference no. 2730.5 + 4070.5

CPK-D

Standardized chemical pump with hydrodynamic shaft seal

DN 32 - 250
Q [m³/h] max. 1100
H [m] max. 128
p [bar] max. 25
T [°C] max. +150
Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design to ISO 2858, single-stage, single-entry, with radial impeller and zero-leakage hydrodynamic shaft seal.
Applications: Handling of liquids in the chemical and petrochemical industry, in refineries and paint shops.

A PumpExpert • Hyamaster • hyatronic

Reference no. 2726.1 also available in 60 Hz

Seal-less pumps

Magnochem

Standardized chemical pump with mag-drive

DN 25 - 250
Q [m³/h] max. 1250
H [m] max. 153
p [bar] max. 25
T [°C] max. +300
Data for 50 Hz operation

Design: Horizontal, seal-less, mag-drive volute casing pump in back pull-out design to ISO 2858 / EN 22 858 / ISO 5199, single-stage, single-entry, with radial impeller, seal-less. Design to ATEX.
Applications: Handling of aggressive, toxic, explosive, valuable, flammable, mal-odorous or harmful liquids in the chemical, petrochemical and general industry.

A PumpExpert • Hyamaster • hyatronic

Reference no. 2739.5 also available in 60 Hz

Magnochem - Bloc

Close-coupled chemical pump with mag-drive

DN 25 - 125
Q [m³/h] max. 240
H [m] max. 153
p [bar] max. 25
T [°C] max. +250
Data for 50 Hz operation

Design: Close-coupled, mag-drive volute casing pump to ISO 2858 / EN 22 858 / ISO 5199, single-stage, single-entry, with radial impeller, seal-less. Design to ATEX.
Applications: Handling of aggressive, toxic, explosive, valuable, flammable, mal-odorous or harmful liquids in the chemical, petrochemical and general industry.

A PumpExpert • Hyamaster • hyatronic

Reference no. 2749.5 also available in 60 Hz

Etaseco / Etaseco-I

Water motor pumps with canned motor

DN 32 - 100
Q [m³/h] max. 250
H [m] max. 100
p [bar] max. 16
T [°C] max. +140
Data for 50 Hz operation

Design: Horizontal / 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, pump casing connecting dimensions to EN 733.
Applications: Handling of aggressive, flammable, toxic, volatile, or valuable liquids in the chemical and petrochemical industry, in environmental engineering and the general industry.

A PumpExpert • Hyamaster • hyatronic

Reference no. 2935.5 also available in 60 Hz

Secochem Ex

Standardized chemical pump with canned motor and explosion protection

DN 25 - 100
Q [m³/h] max. 300
H [m] max. 150
p [bar] max. 25
T [°C] max. +130
Data for 50 Hz operation

Design: Horizontal, 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 22 858 / ISO 2858, with explosion protection. Design to ATEX.
Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry, in environmental engineering and the general industry.

A PumpExpert • Hyamaster • hyatronic

Reference no. 2939.5 also available in 60 Hz

Secochem Ex K

Standardized chemical pump with canned motor and explosion protection

DN 25 - 100
Q [m³/h] max. 300
H [m] max. 150
p [bar] max. 25
T [°C] max. +400
Data for 50 Hz operation

Design: Horizontal, 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, pump casing connecting dimensions to EN 22 858 / ISO 2858, with explosion protection and external cooler. Design to ATEX.
Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry, in environmental engineering and the general industry.

A PumpExpert • Hyamaster • hyatronic

Reference no. 2939.51 also available in 60 Hz

Seal-less pumps

(Only available in Europe, Russia, Middle East and Africa)

HN / BN / TN (Nikkiso-KSB)

Chemical pump with canned motor, explosion-proof

DN 32 - 300
Q [m³/h] max. 800
H [m] max. 200
p [bar] max. 40
T [°C] max. +180
Data for 50 Hz operation

Design: Horizontal (HN) or vertical (BN / TN), seal-less, single-stage pump with fully enclosed canned motor, uncooled, optional cooling or heating, with explosion protection. Design to ATEX.
Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry.

also available in 60 Hz

(Only available in Europe, Russia, Middle East and Africa)

HT / BT / TT (Nikkiso-KSB)

Chemical pump with canned motor, explosion-proof, for special applications

DN 32 - 300
Q [m³/h] max. 800
H [m] max. 200
p [bar] max. 40
T [°C] max. +400
Data for 50 Hz operation

Design: Horizontal (HT) or vertical (BT /TT), seal-less, single-stage pump with fully enclosed canned motor, with cooling, with explosion protection. Design to ATEX.
Applications: Handling of aggressive, solids containing, polymerizing, flammable, explosive, toxic, volatile or valuable liquids as well as thermal oils in the chemical and petrochemical industry.

also available in 60 Hz

(Only available in Europe, Russia, Middle East and Africa)

HK (Nikkiso-KSB)

Double-stage canned motor pump

DN 25 - 40
Q [m³/h] max. 10
H [m] max. 220
p [bar] max. 40
T [°C] max. +150
n [min^{-1}] max. 8400
Data for n = 8400 min^{-1}

Design: Horizontal, seal-less pump with fully enclosed canned motor, two-stage design in tandem arrangement, with explosion protection. Design to ATEX.
Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry. For small flow rates, high discharge heads and low $NPSH_R$.

high speed, up to 130 Hz

(Only available in Europe, Russia, Middle East and Africa)

VN (Nikkiso-KSB)

Multistage canned motor pump

DN 40 - 100
Q [m³/h] max. 140
H [m] max. 450
p [bar] max. 40
T [°C] max. +180
Data for 50 Hz operation

Design: Horizontal, seal-less pump with fully enclosed canned motor, multistage, with explosion protection. Design to ATEX.
Einsatz: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry. For high discharge heads.

also available in 60 Hz

(Only available in Europe, Russia, Middle East and Africa)

DN (Nikkiso-KSB)

Self-priming canned motor pump

DN 32 - 50
Q [m³/h] max. 40
H [m] max. 60
p [bar] max. 40
T [°C] max. +180
Data for 50 Hz operation

Design: Horizontal, seal-less pump with fully enclosed canned motor, single stage, self-priming, with explosion protection. Design to ATEX.
Applications: Handling of aggressive, flammable, explosive, toxic, volatile or valuable liquids in the chemical and petrochemical industry. Self-priming pump for draining of tanks and unloading of tanks and tank trucks.

also available in 60 Hz

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Process pumps

RPH

Process pump

DN 25 - 400
Q [m³/h] max. 4,150
H [m] max. 270
p [bar] max. 51
T [°C] max. +450
Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump in back pull-out design to API 610, 9th edition, or ISO 13709 (heavy duty), with radial impeller, single-stage, single-entry, centreline pump feet; with inducer, if required. Design to ATEX.
Applications: Refineries, petrochemical and chemical industry, power stations.

A PumpExpert • Hyamaster • hyatronic

Reference no. 1312.5/1316.51 also available in 60 Hz

CTN

Chemical vertical shaft submersible pump

DN 25 - 250
Q [m³/h] max. 800
H [m] max. 93
p [bar] max. 16
T [°C] max. +300
Data for 50 Hz operation

Design: Radially split, vertical shaft submersible pump with double volute for wet and dry installation, single- or double stage, single-entry, with radial impeller; heatable model available. Design to ATEX.
Applications: Handling of chemically aggressive liquids, also slightly contaminated or with a low solids content, in the chemical and petrochemical industry.

A Hyamaster • hyatronic

Reference no. 2711.5 also available in 60 Hz

Micro-process engineering

Microchem

Centrifugal pump for micro-process engineering

Q [ml/min] max. 5000
H [m] max. 250
p [bar] max. 25
T [°C] -10 to +100

Design: Pump unit consisting of a variable-speed single-stage centrifugal pump with directly flanged motor and control unit.
Applications: Continuous volume flow control for handling aggressive organic and inorganic fluids in chemical processes. The pump is suitable for use in laboratories, pilot plants and in production processes, particularly in industrial process engineering, continuous processes, micro-process engineering, miniplants, dosing applications.

Reference no. 2600.5

Rainwater harvesting systems

Hya-Rain / Hya-Rain N

Rainwater harvesting system with one pump

Rp	1
Q [m³/h]	max. 4
H [m]	max. 43
p [bar]	max. 6
T [°C]	max. +35

Data for 50 Hz operation

Design: Ready-to-connect package rainwater harvesting system.
Applications: Rainwater and service water utilization, irrigation and spray irrigation systems.

Reference no. 5602.51

Eco-Rain

Rainwater harvesting system with one pump

Rp	1
Q [m³/h]	max. 4
H [m]	max. 43
p [bar]	max. 6
T [°C]	max. +35

Data for 50 Hz operation

Design: Basic ready-to-connect package rainwater harvesting system.
Applications: Rainwater and service water utilization, irrigation and spray irrigation systems.

Reference no. 5605.5

Domestic water supply systems with automatic control unit / swimming pool

Multi Eco

Multistage, self-priming centrifugal pump

Rp	1-1¼
Q [m³/h]	max. 8
H [m]	max. 54
p [bar]	max. 10
T [°C]	max. +50
n [min⁻¹]	max. 2800

Design: Multistage, self-priming centrifugal pump in close-coupled design.
Applications: Single- or two-family houses, agricultural facilities, spray irrigation and irrigation systems, washing plants, water supply and rainwater harvesting systems.

A Switchgears

Reference no. 5180.5

Multi Eco-Pro

Multistage, self-priming centrifugal pump with automatic control unit

Rp	1-1¼
Q [m³/h]	max. 8
H [m]	max. 54
p [bar]	max. 10
T [°C]	max. +50
n [min⁻¹]	max. 2800

Design: Multistage, self-priming centrifugal pump in close-coupled design, with power supply cable, plug and automatic control unit Controlmatic E switching the pump on and off as consumers are opened / closed and protecting the pump against dry running.
Applications: Single- or two-family houses, agricultural facilities, spray irrigation and irrigation systems, washing plants, water supply and rainwater harvesting systems.

A Switchgears

Reference no. 5182.5

Domestic water supply systems with automatic control unit / swimming pool

Multi Eco-Top

Domestic water supply system

Rp	1-1¼
Q [m³/h]	max. 8
H [m]	max. 54
p [bar]	max. 7
T [°C]	max. +50
n [min⁻¹]	max. 2800

Design: Multistage, self-priming centrifugal pump in close-coupled design incl. accumulator with replaceable membrane in drinking water quality, total volume 20 or 50 l, pressure switch for automatic pump operation and 1.5 m power supply cable.
Applications: Single- or two-family houses, agricultural facilities, spray irrigation and irrigation systems, washing plants, water supply and rainwater harvesting systems.

Reference no. 5181.5

Movitec VE

High-pressure in-line pump in close-coupled design

Rp	1½
Q [m³/h]	max. 12
H [m]	max. 70
p [bar]	max. 10
T [°C]	max. +60
n [min⁻¹]	max. 2900

Design: Multistage, vertical (horizontal installation upon request) high-pressure centrifugal pump, with suction and discharge nozzles of identical nominal diameters arranged opposite to each other (in-line design).
Applications: Single- or two-family houses, agricultural facilities, spray irrigation and irrigation systems, washing plants, water supply and rainwater harvesting systems, pressure boosting, hot water and cooling water recirculation, fire-fighting systems.

Reference no. 1798.5 — **also available in 60 Hz**

Ixo

Submersible motor pump

Rp	1¼
Q [m³/h]	max. 8
H [m]	max. 65
T [°C]	max. +35
n [min⁻¹]	max. 2900

Design: Fully or partly submerged, multistage, close-coupled centrifugal pump (min. immersion depth 0.1 m), low-level inlet, suction strainer with a max. mesh size of 2.5 mm.
Applications: Water supply, spray irrigation and irrigation systems, washing plants, rainwater harvesting systems, water extraction from wells, tanks and cisterns.

A Switchgears

Reference no. 2146.5

Filtra

Recirculating pump for swimming pool filtering systems

Rp	2
Q [m³/h]	max. 36
H [m]	max. 21
p [bar]	max. 2.5
T [°C]	max. +35
n [min⁻¹]	max. 2800

Design: Self-priming, single-stage, close-couped centrifugal pump.
Applications: Handling of clean or slightly contaminated water, swimming pool water with a chlorine content of up to 0.3 %, ozonized swimming pool water with a salt content of up to 7 ‰.

Reference no. 2127.5

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Pressure boosting units

Hya-Solo E

Pressure boosting unit, 1 pump

Rp	1¼
Q [m³/h]	max. 6
H [m]	max. 50
p [bar]	max. 10
T [°C]	max. +60

Data for 50 Hz operation

Design: Fully automatic package single-pump unit with 8 l membrane-type accumulator, pressure-controlled start-up and flow-controlled shutdown.
Applications: Water supply systems for residential and office buildings, irrigation/spray irrigation and rainwater harvesting systems, service water supply systems in trade and industry.

Reference no. 1951.5

Hya-Solo D

Pressure boosting unit, 1 pump

Rp / DN	1¼ / 100
Q [m³/h]	max. 75
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Design: Fully automatic package single-pump unit with 8 l membrane-type accumulator, pressure-controlled start-up and flow-controlled shutdown.
Applications: For industrial plants, water supply systems for residential and office buildings, irrigation/spray irrigation and rainwater harvesting systems, service water supply systems in trade and industry.

Reference no. 1951.5

Hya-Solo DV

Pressure boosting unit, 1 pump

Rp / DN	1¼ / 100
Q [m³/h]	max.110
H [m]	max. 150
p [bar]	max. 16
T [°C]	max. +70

Data for 2900 min^{-1}

Design: Fully automatic variable-speed package single-pump unit with PumpDrive, pressure-controlled start-up and flow-controlled shutdown.
Applications: For industrial plants, water supply systems for residential and office buildings, irrigation/spray irrigation and rainwater harvesting systems, service water supply systems in trade and industry.

A PumpDrive

Reference no. 1951.5

Hya-Eco K

Pressure boosting unit, 2 to 3 pumps

Rp / DN	2 / 80
Q [m³/h]	max. 70
H [m]	max. 100
p [bar]	max. 10
T [°C]	max. +70

Data for 50 Hz operation

Design: Fully automatic package pressure boosting unit, with 2 to 3 vertical high-pressure pumps, fully electronic control to ensure the required supply pressure, standard version with volt-free contact for general fault indication and live-zero monitoring of the connected sensors, configuration and functions to DIN 1988, part 5.
Applications: Residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

Reference no. 1967.5

Hya-Eco VP

Pressure boosting unit with continuously variable speed control of each pump

Rp / DN	2 / 80
Q [m³/h]	max. 70
H [m]	max. 120
p [bar]	max. 12
T [°C]	max. +70

Data for 3500 min^{-1}

Design: Fully automatic pressure boosting package unit, with 2 to 3 vertical high-pressure pumps and continuously variable speed adjustment of each pump for fully electronic control of the required supply pressure, with two standard volt-free changeover contacts for fault indication. Configuration and functions to DIN 1988, Part 5.
Applications: Residential buildings, hospitals, office buildings, hotels, department stores, industry, and other applications

Reference no. 1967.52

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Pressure boosting units

Hyamat K

Pressure boosting unit, 2 to 6 pumps

Rp / DN	1½ / 250
Q [m³/h]	max. 660
H [m]	max. 160
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Design: Fully automatic package pressure boosting unit, with 2 to 6 vertical high-pressure pumps, fully electronic control to ensure the required supply pressure, with volt-free contact for general fault indication and live-zero monitoring of the connected sensors, configuration and functions to DIN 1988, part 5.
Applications: Residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

Reference no. 1952.5

Hyamat V

Pressure boosting unit with continuously variable speed adjustment of one pump

Rp / DN	1½ / 250
Q [m³/h]	max. 660
H [m]	max. 160
p [bar]	max. 16
T [°C]	max. +70

Data for 2900 min⁻¹

Design: Fully automatic package pressure boosting unit, with 2 to 6 vertical high-pressure pumps and continuously variable speed adjustment of one pump for fully electronic control of the required supply pressure, configuration and functions to DIN 1988, part 5.
Applications: Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

A hyatronic

Reference no. 1953.51

Hyamat VP

Pressure boosting unit with continuously variable speed control of each pump

Rp / DN	1½ / 250
Q [m³/h]	max. 660
H [m]	max. 160
p [bar]	max. 16
T [°C]	max. +70

Data for 2900 min⁻¹

Design: Fully automatic pressure boosting package unit with 2 to 6 vertical high-pressure pumps and continuously variable speed control of each pump by PumpDrive speed control system. For fully electronic control of the required supply pressure; configuration and functions to DIN 1988, Part 5.
Applications: Pressure boosting in residential buildings, hospitals, office buildings, hotels, department stores, industry, etc.

A PumpDrive

Reference no. 1953.52

Hyamat IK, IV, IVP

Pressure boosting unit for industrial applications

DN	100 - 200
Q [m³/h]	max. 640
H [m]	max. 160
p [bar]	max. 16
T [°C]	max. +70

Data for 50 Hz operation

Design: Fully automatic package pressure boosting unit, with 2 to 4 vertical high-pressure pumps and fully electronic control to ensure the required supply pressure, configuration and functions to DIN 1988, part 5.
Applications: Handling of service water and cooling water not chemically or mechanically aggressive to the pump materials in industry, etc.

A Hyamaster • hyatronic

Reference no. 1950.5

Ama®-Drainer 301, 303, 324, 356

Floodable submersible motor pump

Rp	1¼ - 1½
Q [m³/h]	max. 17
H [m]	max. 12
T [°C]	max. +35

Data for 50 Hz operation

Design: Vertical, fully floodable submersible motor pump in close-coupled design, IP 68, single-stage, with or without level control, max. immersion depth 2 m.
Applications: Automatic drainage of pits, shafts, yards and cellars subject to a flooding risk, lowering of surface water levels, dewatering, drainage of underground passages, water extraction from rivers and reservoirs.

A Switchgears • LevelControl

Reference no. 2331.51 / 2331.52

Ama®-Drainer 400/10 400/35 500/10/11

Floodable submersible motor pump

Rp	1½ - 2
Q [m³/h]	max. 50
H [m]	max. 24
T [°C]	max. +40

Data for 50 Hz operation

Design: Vertical, fully floodable submersible motor pump in close-coupled design, IP 68, single-stage, with or without level control, max. immersion depth 10 m.
Applications: Automatic drainage of pits, shafts, yards and cellars subject to a flooding risk, lowering of surface water levels, dewatering, drainage of underground passages, water extraction from rivers and reservoirs, disposal of highly contaminated, fibre-containing water.

A Switchgears • LevelControl

Reference no. 2331.53

Ama®-Drainer 80, 100

Floodable submersible motor pump

Rp / DN	2½ / 100
Q [m³/h]	max. 130
H [m]	max. 26
T [°C]	max. +50

Data for 50 Hz operation

Design: Vertical, fully floodable submersible motor pump in close-coupled design, IP 68, single-stage, with or without level control, max. immersion depth 10 m.
Applications: Automatic drainage of pits, shafts, yards and cellars subject to a flooding risk, lowering of surface water levels, dewatering, drainage of underground passages, water extraction from rivers and reservoirs.

A Switchgears • LevelControl

Reference no. 2331.54

Ama®-Porter F / S / ICS

Floodable submersible motor pump

DN	50 - 65
Q [m³/h]	max. 40
H [m]	max. 21
T [°C]	max. +40

Data for 50 Hz operation

Design: Vertical, fully floodable submersible waste water pump in close-coupled design (cast iron variant), single-stage, without explosion protection.
Applications: Handling of all types of waste water.

A Switchgears • LevelControl

Reference no. 2541.51/2539.51/2539.52/2539.53

Rotex

Waste water pump

Rp	1¼ - 2
Q [m³/h]	max. 24
H [m]	max. 14
T [°C]	max. +90

Data for 50 Hz operation

Design: Vertical, single-stage centrifugal pump with discharge to the top and parallel with the pump shaft, pump foot designed as suction strainer. Pump and motor are rigidly connected by a support pipe, ready to be plugged in, with 1.5 m power supply cable and level switch.
Applications: Automatic disposal of waste water from buildings, pits and tanks, lowering of surface water levels and drainage.

A Switchgears

Reference no. 2322.5

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Drainage pumps / waste water pumps

MK / MKY

Waste water, condensate and heat transfer liquid pump

Rp / DN	2 / 50
Q [m³/h]	max. 36
H [m]	max. 19
T [°C]	max. +200

Data for 50 Hz operation

Design: Vertical submersible pump with three-channel impeller, volute casing designed as suction strainer.
Applications: Handling of condensate and heat transfer liquids below the boiling point, condensate return systems, primary and secondary heating circuits, direct installation in heating tanks or heat exchangers in the secondary circuits of heat transfer systems (MKY).

A Switchgears • LevelControl

Reference no. 2324.5

Lifting units / collecting tanks

Ama®-Drainer-Box

Automatic waste water lifting unit

DN	40 - 50
Q [m³/h]	max. 35
H [m]	max. 21
T [°C]	max. +40

Data for 50 Hz operation

Design: Stable above-floor or impact-resistant underfloor plastic collecting tank with floor drain and odour trap, both variants with Ama®-Drainer submersible motor pump starting and stopping automatically and swing check valve.
Applications: Wash-basins, showers, washing machines, garage gateways, basements, rooms subject to a flooding risk, etc.

A Switchgears

Reference no. 2331.55

mini-Compacta®

Floodable sewage lifting unit

DN	32 - 100
Q [m³/h]	max. 36
H [m]	max. 25
T [°C]	max. +40

Data for 50 Hz operation

Design: Floodable single or duplex sewage lifting unit for automatic disposal of domestic sewage and faeces below the backwash level.
Applications: Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores and hospitals, hotels, restaurants, schools, etc.

A Switchgears • LevelControl

Reference no. 2317.54

Compacta®

Floodable sewage lifting unit

DN	80 - 100
Q [m³/h]	max. 140
H [m]	max. 24
T [°C]	max. +40*

Data for 50 Hz operation

* up to +65 °C for short periods

Design: Floodable single or duplex sewage lifting unit for automatic disposal of sewage and faeces below the backwash level.
Applications: Basement flats, bars, basement party rooms and saunas, cinemas and theatres, department stores and hospitals, hotels, restaurants, schools, public buildings, industrial plants, joint sewage disposal for rows of houses, etc.

A Switchgears • LevelControl

Reference no. 2317.55

A Automation possible

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Ama®-Porter CK Pumping Station

Pumping station, plastic collecting tank with Ama®-Porter

DN 50 - 65
Q [m³/h] max. 40
H [m] max. 21
T [°C] max. +40
Data for 50 Hz operation

Design: Ready-to-connect package single or dual pumping station with PE-LLD (polyethylene) collecting tank for underground installation. Equipped with one or two Ama®-Porter submersible waste water pumps without explosion protection. Collecting tank design to DIN 1986-100 and EN 752 / EN 476.
Applications: Renovation of premises, sewage disposal in various sectors, joint sewage disposal for several residential units, pumped drainage.

A Switchgears

Reference no. 2334.51

Amarex N CK Pumping Station

Pumping station, plastic collecting tank with Amarex N

DN 32 - 65
Q [m³/h] max. 190
H [m] max. 49
T [°C] max. +40
Data for 50 Hz operation

Design: Ready-to-connect package single or dual pumping station with PE-LLD (polyethylene) collecting tank for underground installation. Equipped with one or two Amarex N submersible waste water pumps, also available with explosion protection. Collecting tank design to DIN 1986-100 and EN 752 / EN 476.
Applications: Renovation of premises, sewage disposal in various sectors, joint sewage disposal for several residential units, pumped drainage.

A Switchgears • LevelControl

Reference no. 2334.52 also available in 60 Hz

Evamatic-Box

Sewage lifting unit

DN 50 - 65
Q [m³/h] max. 40
H [m] max. 21
T [°C] max. +40
Data for 50 Hz operation

Design: Single or duplex sewage lifting unit with 1 or 2 Ama®-Porter submersible waste water pumps with free-flow impeller (F) or cutter (S), to EN 12050-1.
Applications: Disposal of domestic waste water and sewage.

Reference no. 2319.51-10

Evamatic-Box ICS

Sewage lifting unit

DN 50 - 65
Q [m³/h] max. 40
H [m] max. 21
T [°C] max. +40
Data for 50 Hz operation

Design: Single or duplex sewage lifting unit with 1 or 2 Ama®-Porter ICS submersible waste water pumps with free-flow impeller (F) or cutter (S) and ICS control system.
Applications: Disposal of domestic waste water and sewage.

Reference no. 2319.52-10

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Submersible motor pumps

Amarex N

Submersible motor pump DN 32 to 100

DN	32 - 100
Q [m³/h]	max. 190
H [m]	max. 49
T [°C]	max. +55

Data for 50 Hz operation

Design: Vertical, single-stage submersible motor pump, for wet installation, stationary and transportable design. Amarex N pumps are floodable, single-stage, single-entry close-coupled units which are not self-priming. Design to ATEX.
Applications: Handling of all types of waste water, especially untreated sewage containing long fibres and solid substances, fluids containing gas / air, as well as raw, activated and digested sludge, dewatering / water extraction, drainage of rooms and surfaces subject to a flooding risk.

A Switchgears • LevelControl

Reference no. 2563.5 also available in 60 Hz

Amarex KRT

Submersible motor pump DN 40 to DN 700

DN	40 - 700
Q [m³/h]	max. 10800
H [m]	max. 100
T [°C]	max. +60
n [min⁻¹]	max. 2900

Design: Vertical, single-stage submersible motor pump in close-coupled design, various impeller types, for wet or dry installation, stationary and transportable version. Design to ATEX.
Applications: Handling of all types of abrasive or aggressive waste water in water and waste water engineering as well as industry, especially untreated sewage containing long fibres and solid substances, fluids containing gas / air, as well as raw, activated and digested sludge; sea water desalination.

A PumpExpert • Hyamaster • hyatronic • Switchgears • LevelControl

Reference no. 2553.5 also available in 60 Hz

Amarex KRT, dry installed

Submersible motor pump DN 100 to DN 700

DN	100 - 700
Q [m³/h]	max. 10000
H [m]	max. 100
p [bar]	max. 10
T [°C]	max. +40
n [min⁻¹]	max. 1450

Design: Vertical, single-stage submersible motor pump in close-coupled design, various impeller types, dry installation.
Applications: Handling of all types of waste water in waste water engineering and industry, especially sewage containing long fibres and solid substances, fluids containing gas/air, as well as raw, activated and digested sludge.

A PumpExpert • Hyamaster • hyatronic

Reference no. 2553.57 also available in 60 Hz

Submersible pumps in discharge tubes

Amacan K

Submersible motor pump with non-clogging impeller

DN	700 - 1400
Q [m³/h]	max. 7200
H [m]	max. 30
T [°C]	max. +40
n [min⁻¹]	max. 980

Design: Wet-installed submersible motor pump with non-clogging impeller, single-stage, single-entry, for installation in discharge tubes, explosion protection to ATEX II G2 T3.
Applications: Handling of pre-cleaned, chemically neutral waste water, industrial effluents and sewage, fluids not containing any stringy substances pre-treated by screens and sills, as waste water, mixed water and activated sludge pump in effluent treatment plants, irrigation and drainage pumping systems.

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Reference no. 1579.5 also available in 60 Hz

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Submersible pumps in discharge tubes

Amacan P

Submersible motor pump with axial propeller

DN 500 - 1500
Q [m³/h] max. 25200
H [m] max. 12
T [°C] max. +40
n [min⁻¹] max. 1450

Design: Wet-installed, submersible motor pump with axial propeller in ECB design for installation in discharge tubes, single-stage, single-entry, explosion protection to ATEX II G2 T3.
Applications: Irrigation and drainage pumping stations, stormwater pumping stations, handling of raw and clean water in water and effluent treatment plants, of cooling water in power stations and industrial plants, industrial water supply systems, water pollution and flood control systems, aquaculture.

A PumpExpert • Hyamaster • hyatronic

Reference no. 1580.5 also available in 60 Hz

Amacan S

Submersible motor pump with mixed flow impeller

DN 650 - 1300
Q [m³/h] max. 10800
H [m] max. 40
T [°C] max. +30
n [min⁻¹] max. 1450

Design: Wet-installed submersible motor pump with mixed flow impeller, single-stage, for installation in discharge tubes, explosion protection to ATEX II G2 T3.
Applications: Handling of water without stringy substances in irrigation and drainage pumping systems, general water supply systems, water pollution and flood control systems.

A PumpExpert • Hyamaster • hyatronic

Reference no. 1589.5 also available in 60 Hz

Mixers / agitators / tank cleaning units

Amamix

Submersible mixer

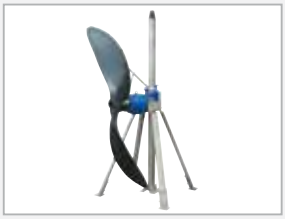
Propeller ø [mm] 200 - 600
Installation depth [m] max. 30
T [°C] max. +40
n [min⁻¹] max. 1400

Design: Horizontal submersible mixer with self-cleaning ECB propeller, close-coupled design, direct drive or with gear unit, explosion protection to ATEX II G2 T3 or T4.
Applications: Handling of municipal and industrial waste water and sludges, also in environmental engineering (biogas plants, etc.).

Reference no. 1592.551/1592.552 also available in 60 Hz

Amaprop

Submersible agitator



Propeller ø [mm] 1200 - 2500
Installation depth [m] max. 30
T [°C] max. +40
n [min⁻¹] max. 109

Design: Horizontal submersible agitator with self-cleaning ECB propeller, close-coupled design, equipped with coaxial spur gear, explosion protection to ATEX II G2 T3 or T4.
Applications: Circulating, keeping in suspension and inducing flow in municipal and industrial waste water and sludges, also in environmental engineering (biogas plants, etc.).

Reference no. 1592.505

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Mixers / agitators / tank cleaning units

Amajet

Cleaning system

DN	100 - 150
Q [m³/h]	max. 195
T [°C]	max. +40
n [min⁻¹]	max. 1450

Design: Stationary or portable unit with horizontal or vertical submersible motor propulsive jet pump with non-clogging free-flow impeller. Motor rating 5.5 to 27 kW. Available variants: Amajet, SewerAmajet, SwingAmajet, MultiAmajet.
Applications: Cleaning of stormwater tanks and storage sewers.

Reference no. 1574.5

Amaline

Submersible motor recirculation pump

DN	300 - 800
Q [m³/h]	max. 5400
H [m]	max. 2
T [°C]	max. +40
n [min⁻¹]	max. 960

Design: Wet-installed, horizontal propeller pump with submersible motor, equipped with spur gear or direct drive, ECB propeller with 3 rigid, fibre-repellent blades, boltfree connection to the discharge pipe, explosion protection to ATEX II G2 T3 or T4.
Applications: Recirculation of activated sludge in waste water treatment systems.

Reference no. 1594.5

Pumps for solids-laden fluids

Sewatec / Sewabloc

Dry-installed volute casing pump

DN	50 - 700
Q [m³/h]	60 - 10000
H [m]	max. 95
p [bar]	max. 10
T [°C]	max. +70
n [min⁻¹]	max. 2900

Design: Horizontal or vertical volute casing pump with free-flow (F), single vane (E), multi-vane (K) and diagonal single vane (D) impellers, discharge flange to DIN and ANSI standards. Design to ATEX.
Applications: Handling of sewage and all types of waste water in waste water management and industry.

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Reference no. 2580.5/2580.45/2580.35 also available in 60 Hz

KWP / KWP-Bloc

Non-clogging impeller centrifugal pump / close-coupled unit

DN	40 - 800
Q [m³/h]	max. 1300
H [m]	max. 100
p [bar]	max. 10
T [°C]	max. +280
n [min⁻¹]	max. 2900

Design: Horizontal, radially split volute casing pump in back pull-out or close-coupled design, single-stage, single-entry, available with various impeller types: non-clogging impeller, open multi-vane impeller, free-flow impeller. Design to ATEX.
Applications: Handling of pre-treated sewage, waste water, all types of slurries without stringy substances and pulps up to 5 % bone dry with a maximum density of 1.1 kg/dm³.

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Reference no. 2361.5/2362.5/2361.450/2361.453/2361.460 also available in 60 Hz

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Self-priming pumps

Etaprime L

Self-priming pump for pure or contaminated liquids

DN 25 - 125
Q [m³/h] max. 180
H [m] max. 85
p [bar] max. 10
T [°C] max. +90
Data for 50 Hz operation

Design: Horizontal, long-coupled, self-priming volute casing pump in back pull-out design, single-stage, with open multi-vane impeller. Design to ATEX.
Applications: Handling of pure, contaminated or aggressive liquids not containing abrasive substances and / or solids.

Reference no. 2745.5 — also available in 60 Hz

Etaprime B / BN

Self-priming close-coupled pump for pure or contaminated liquids

DN 25 - 100
Q [m³/h] max. 130
H [m] max. 72
p [bar] max. 10
T [°C] max. +90
Data for 50 Hz operation

Design: Horizontal, self-priming volute casing pump, single-stage, with open multi-vane impeller, in close-coupled design, with common pump and motor shaft (B) or rigidly connected (BN). Design to ATEX.
Applications: Handling of pure, contaminated or aggressive liquids not containing abrasive substances and / or solids.

Reference no. 2746.5 — also available in 60 Hz

Submersible borehole pumps

S 100D / UPA 100C

Submersible borehole pump

DN 100
Q [m³/h] max. 16
H [m] max. 400
T [°C] max. +30
Data for 50 Hz operation

Design: Multistage centrifugal pump in ring-section design, made of plastic (S 100D) or stainless steel (UPA 100C) for well diameters of 100 mm (4 inches) and above, available with single-phase a.c. motor or three-phase motor with motor lead.
Applications: Domestic water supply, irrigation and spray irrigation systems, lowering of ground water levels, fire-fighting systems, cooling circuits, fountains, pressure boosting and air-conditioning systems. UPA 100C is also used for ACS drinking water.

A Switchgears

Reference no. 3400.5 — also available in 60 Hz

UPA 150C

Submersible borehole pump

DN 150
Q [m³/h] max. 79
H [m] max. 570
T [°C] max. +30
Data for 50 Hz operation

Design: Multistage centrifugal pump in ring-section design, completely made of stainless steel, for well diameters from 150 mm (6 inches).
Applications: Handling of clean and slightly contaminated water, irrigation and drainage, spray irrigation, industrial and municipal water supply, maintaining / lowering of groundwater levels, fire-fighting systems, drinking, raw and service water supply, pressure boosting.

A Hyamaster • hyatronic • Switchgears • PumpDrive > 5,5 kW

Reference no. 3400.52 — also available in 60 Hz

A Automation possible

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Submersible borehole pumps

UPA 200, 200B, 250C

Submersible borehole pump

DN 200 - 250
Q [m³/h] max. 840
H [m] max. 460
T [°C] max. +50
Data for 50 Hz operation

Design: Single- or multistage centrifugal pump in ring-section design for vertical installation. Non-return valve integrated in the discharge nozzle.
Applications: Handling of clean or slightly contaminated water in general water supply, irrigation and spray irrigation systems, maintaining / lowering of ground water levels, fountains, pressure boosting systems, in mines, fire-fighting systems, emergency water supply systems, etc.

A Hyamaster • hyatronic • Switchgears • PumpDrive > 5.5 kW

Reference no. 3400.5 also available in 60 Hz

UPA 300, 350

Submersible borehole pump

DN 300 - 350
Q [m³/h] max. 840
H [m] max. 480
T [°C] max. +50
Data for 50 Hz operation

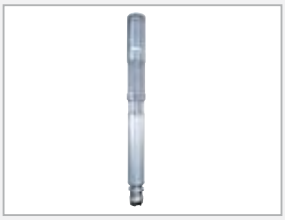
Design: Single- or multistage, single-entry centrifugal pump in ring-section design for vertical or horizontal installation. Non-return valve or connection branch on option. Mixed flow hydraulic systems available with reduced impeller diameters. Both versions with threaded or flanged end.
Applications: Handling of clean or slightly contaminated water in general water supply, irrigation and spray irrigation systems, maintaining / lowering of ground water levels, in mines, fire-fighting systems, fountains, etc.

A Hyamaster • hyatronic • Switchgears

Reference no. 3400.5 also available in 60 Hz

UPZ, BSX-BSF

Submersible borehole pump



DN > 350
Q [m³/h] max. 2200
H [m] max. 1500
T [°C] max. +50
Data for 50 Hz operation

Design: Single- or multistage, single-entry (BSX-BSF) or double-entry (UPZ) centrifugal pump in ring-section design for vertical or horizontal installation.
Applications: Handling of clean or slightly contaminated water, maintaining / lowering of ground water levels, in mines.

Reference no. 3470.021 also available in 60 Hz

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High-pressure pumps, fixed / variable speed

Movitec V / LHS / VS / VC

High-pressure in-line pump

DN	32 - 100
Q [m³/h]	max. 102
H [m]	max. 401
p [bar]	max. 40
T [°C]	max. +140
n [min⁻¹]	max. 2900

Design: 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. Design to ATEX.
Applications: Spray irrigation, irrigation, washing, water treatment, fire-fighting and pressure boosting systems, hot water and cooling water recirculation, boiler feed systems, etc.

A PumpDrive • Hyamaster • hyatronic

Reference no. 1798.5 — also available in 60 Hz

Movitec PumpDrive

High-pressure in-line pump with motor-mounted variable speed system

DN	32 - 100
Q [m³/h]	max. 102
H [m]	max. 401
p [bar]	max. 40
T [°C]	max. +140
n [min⁻¹]	max. 2900

Design: 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 and motor-mounted variable speed system
Applications: Spray irrigation, irrigation, washing, water treatment, fire-fighting and pressure boosting systems, hot water and cooling water recirculation, boiler feed systems, etc.

A PumpDrive

Reference no. 1798.5 + 4070.5 — also suitable for 60 Hz operation

Multitec

High-pressure pump in ring-section design

DN	32 - 150
Q [m³/h]	max. 850
H [m]	max. 630
p [bar]	max. 63
T [°C]	max. +200
n [min⁻¹]	max. 2900

higher values available upon request

Design: Multistage horizontal centrifugal pump in ring-section design, long-coupled and close-coupled variant, with axial or radial suction nozzle, cast radial impellers. Design to ATEX.
Applications: Water and drinking water supply systems, general industry, pressure boosting systems, irrigation systems, in power stations, heating, filter, fire-fighting, reverse osmosis and washing plants, snow guns, etc.

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Reference no. 1777.5 — also available in 60 Hz

Multitec PumpDrive

High-pressure pump in ring-section design with motor-mounted variable speed system

DN	32 - 50
Q [m³/h]	max. 51
H [m]	max. 630
p [bar]	max. 63
T [°C]	max. +110
n [min⁻¹]	max. 2900

higher values available upon request

Design: Multistage horizontal centrifugal pump in ring-section design, long-coupled and close-coupled variant, with axial or radial suction nozzle, cast radial impellers and motor-mounted variable speed system.
Applications: Water and drinking water supply systems, general industry, pressure boosting systems, irrigation systems, in power stations, heating, filter, fire-fighting, reverse osmosis and washing plants, snow guns, etc.

A PumpDrive

Reference no. 1777.5 + 4070.5 — also suitable for 60 Hz operation

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Axially split pumps

Omega

Axially split volute casing pump DN 80-350

DN	80 - 350
Q [m³/h]	max. 2880
H [m]	max. 170
p [bar]	max. 25
T [°C]	max. +70
n [min⁻¹]	max. 2900

higher values available upon request

Design: Single-stage, axially split volute casing pump for horizontal or vertical installation, with double-entry radial impeller, mating flanges to DIN, ISO, BS or ANSI.
Applications: Handling of raw, pure and service water as well as seawater in water treatment plants, irrigation and drainage pumping stations, power stations, fire-fighting systems, shipbuilding and the petrochemical industry.

A PumpExpert • Hyamaster

Reference no. 1384.5 — also available in 60 Hz

RDLO

Axially split volute casing pump DN 350-700

DN	350 - 700
Q [m³/h]	max. 10000
H [m]	max. 240
p [bar]	max. 25
T [°C]	max. +70
n [min⁻¹]	max. 1450

higher values available upon request

Design: Single-stage, axially split volute casing pump for horizontal or vertical installation with double-entry radial impeller, mating flanges to DIN, ISO, BS or ANSI.
Applications: Handling of raw, pure and service water as well as seawater in water treatment plants, irrigation and drainage pumping stations, in power stations, fire-fighting systems, shipbuilding and the petrochemical industry.

A PumpExpert • Hyamaster

Doku-Nr. 1385.51/1387.5 — also available in 60 Hz

Stainless steel pumps for the food industry

Vitachrom

Hygienic pump in close-coupled design

DN	50 - 125
Q [m³/h]	max. 340
H [m]	max. 100
p [bar]	max. 12
T [°C]	max. +110

Data for 50 Hz operation

Design: Easy-to-service annular casing pump, close-coupled design with standardized motor, all wetted pump parts made of stainless steel, suitability for handling foodstuffs certified by TNO according to EHEDG requirements (TNO G96-143 certificate).
Applications: Hygienic handling of fluids in the food and beverages industry and in the chemical industry.

A Hyamaster • hyatronic

Reference no. 1966.5 — also available in 60 Hz

Pumps for power station conventional islands

CHTA / CHTC / CHTD

Boiler feed pump

DN	100 - 500
Q [m³/h]	max. 3700
H [m]	max. 5300
p [bar]	max. 560
T [°C]	max. +210
n [min⁻¹]	max. 6750

higher values available upon request

Design: Horizontal, high-pressure barrel-type pump with radial impellers, single- and double-entry, multistage, with flanges / weld end nozzles to DIN and ANSI.
Applications: Handling of feed water and condensate in power stations and industrial facilities, generation of pressurized water for bark peeling machines and descaling equipment.

Reference no. 1860.1 — **also available in 60 Hz**

CHTR

Boiler feed pump

DN	50 - 150
Q [m³/h]	max. 900
H [m]	max. 2500
p [bar]	max. 250
T [°C]	max. +400
n [min⁻¹]	max. 7000

higher values available upon request

Design: Horizontal, high-pressure barrel-type pump with radial impellers, single- and double-entry, multistage, with flanges / weld end nozzles to DIN, API 610 and ANSI.
Applications: In refineries, in the petrochemical industry and in steam generation plants.

Reference no. 2701 — **also available in 60 Hz**

HGB / HGC / HGD

Boiler feed pump

DN	40 - 400
Q [m³/h]	max. 2300
H [m]	max. 5300
p [bar]	max. 560
T [°C]	max. +210
n [min⁻¹]	max. 7000

higher values available upon request

Design: Horizontal, radially split, multistage ring-section pump with radial impellers, single- or double-entry.
Applications: Handling of feed water and condensate in power stations and industrial facilities, generation of pressurized water for bark peeling machines, descaling equipment, snow guns, etc.

Reference no. 1850.02 — **also available in 60 Hz**

HGM

Boiler feed pump

DN	25 - 100
Q [m³/h]	max. 274
H [m]	max. 1400
p [bar]	max. 140
T [°C]	max. +160
n [min⁻¹]	max. 3600

higher values available upon request

Design: Horizontal, radially split, product-lubricated, multistage ring-section pump with radial impellers, axial and radial single-entry inlet.
Applications: Handling of feed water in power stations, boiler feed water and condensate in industrial facilities.

A PumpExpert — **Reference no. 1856.02** — **also available in 60 Hz**

YNK / KRHA

Booster pump

DN	125 - 600
Q [m³/h]	max. 3700
H [m]	max. 280
p [bar]	max. 40
T [°C]	max. +210
n [min⁻¹]	max. 1800

higher values available upon request

Design: Horizontal, radially split, single-stage, double-entry boiler feed booster pump (booster system) with single or double cast steel volute casing.
Applications: Handling of feed water in power stations and industrial facilities.

Reference no. 1130.5 — **also available in 60 Hz**

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Pumps for power station conventional islands

RHD

Feed water pump

DN	250 - 400
Q [m³/h]	max. 6500
H [m]	max. 1000
p [bar]	max. 150
T [°C]	max. +210
n [min⁻¹]	max. 6500

higher values available upon request

Design: Horizontal, single-stage, double-entry feed water pump, cast and forged variant.
Applications: Handling of feed water in steam generation systems of nuclear power stations.

also available in 60 Hz

LUV / LUVA / LUVB

Boiler recirculation pump

DN	100 - 550
Q [m³/h]	max. 7000
H [m]	max. 275
p [bar]	max. 320
T [°C]	max. +420
n [min⁻¹]	max. 3600

higher values available upon request

Design: Vertical spherical casing pump, radial impellers, single-entry, single- to three-stage. Suitable for very high inlet pressures and temperatures. Integrated wet rotor motor to VDE. Product-lubricated bearings, no need for oil supply systems. Design to TRD or ASME.
Applications: Hot water recirculation in forced-circulation, forced-flow and combined-circulation boilers for very high pressures.

Reference no. 0361.033 **also available in 60 Hz**

WKT / WKTA / WKTB

Condensate pump

DN	40 - 300
Q [m³/h]	max. 1800
H [m]	max. 340
p [bar]	max. 40
T [°C]	max. +100
n [min⁻¹]	max. 1800

higher values available upon request

Design: Vertical, multistage, can-type ring-section pump with radial and mixed flow impellers. Single- and double-entry suction impellers, flanges to DIN or ANSI. The can is arranged in a pit below the installation floor. The pump is connected with the structure by means of a baseplate.
Applications: Handling of condensate in power stations and energy systems.

Reference no. 0361.033 **also available in 60 Hz**

SEZ / PHZ / PNZ

Cooling water pump

DN	700 - 2400
Q [m³/h]	max. 65000
H [m]	max. 48
p [bar]	max. 10
T [°C]	max. +40
n [min⁻¹]	max. 980

higher values available upon request

Design: 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, flanges to DIN or ANSI standards available.
Applications: Handling of raw, pure, service and cooling water in industry, water supply systems, in power stations and seawater desalination plants.

Reference no. 1471.02 **also available in 60 Hz**

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Pumps for power station conventional islands

SNW / PNW

Cooling water pump

DN 350 - 800
Q [m³/h] max. 9000
H [m] max. 50
p [bar] max. 10
T [°C] max. +60
n [min⁻¹] max. 1500
higher values available upon request

Design: Vertical tubular casing pump with mixed flow impeller (SNW) or axial propeller (PNW), with maintenance-free Residur® shaft bearings, discharge nozzle arranged above or below floor.
Applications: Irrigation and drainage systems, stormwater pumping stations, handling of raw and pure water, water supply systems, handling of cooling water.

Reference no. 1481.5/1591.5 — also available in 60 Hz

SPY

Cooling water pump

DN 350 - 1200
Q [m³/h] max. 21600
H [m] max. 50
p [bar] max. 10
T [°C] max. +105
n [min⁻¹] max. 1480
higher values available upon request

Design: Long-coupled, single-stage volute casing pump in back pull-out design.
Applications: Drainage, irrigation and water supply systems, handling of condensate, cooling water, service water, etc.

Reference no. 2384.51 — also available in 60 Hz

Pumps for power station nuclear islands

RER

Reactor coolant pump

DN max. 800
Q [m³/h] max. 40000
H [m] max. 140
p [bar] max. 175
T [°C] max. +350
n [min⁻¹] max. 1800
higher values available upon request

Design: Vertical, single-stage reactor coolant pump with forged annular casing plated on the inside, with diffuser, either with own pump thrust bearing or supported by motor bearing.
Applications: Reactor coolant recirculation in nuclear power stations (PWR).

also available in 60 Hz

RSR

Reactor coolant pump

DN max. 600
Q [m³/h] max. 9000
H [m] max. 215
p [bar] max. 125
T [°C] max. +310
n [min⁻¹] max. 1800
higher values available upon request

Design: Vertical, single-stage reactor coolant pump, with cast double volute casing, supported by motor bearing.
Applications: Reactor coolant recirculation in nuclear power stations (PWR, PHWR).

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Pumps for power station nuclear islands

PSR

Reactor internal pump

DN	max. 600
Q [m³/h]	max. 9000
H [m]	max. 45
p [bar]	max. 75
T [°C]	max. +300
n [min⁻¹]	max. 2000

higher values available upon request

Design: Vertical pump set integrated in the reactor pressure vessel, glandless pump with leak-free, low-maintenance wet motor.
Applications: Reactor coolant recirculation in boiling water reactors (BWR).

also available in 60 Hz

LUV Nuklear

Reactor coolant / reactor water clean-up pump

DN	40 - 600
Q [m³/h]	max. 7000
H [m]	max. 300
p [bar]	max. 320
T [°C]	max. +430

higher values available upon request

Design: Vertical pump with integrated motor, single-entry, one to three stages. Suitable for very high inlet pressures and temperatures. Integrated wet rotor motor to VDE. Product-lubricated bearings, no need for oil supply systems. Design to ASME Section 3, KTA, etc.
Applications: As reactor water clean-up pump in boiling water reactors, reactor coolant pump in boiling water and pressurized water reactors, and as recirculation pump in test facilities.

also available in 60 Hz

RHM

Pump for safety-related and auxiliary systems

DN	max. 150
Q [m³/h]	max. 300
H [m]	max. 2100
p [bar]	max. 220
T [°C]	max. +180
n [min⁻¹]	max. 8000

higher values available upon request

Design: Horizontal, multistage barrel pull-out pump.
Applications: Core flooding, emergency cooling and residual heat removal systems, volume control systems, high-pressure charging, control rod drive systems, high- and medium-pressure safety injection systems, auxiliary feed water systems, start-up and shutdown feed water systems.

also available in 60 Hz

RVM

Pump for safety-related and auxiliary systems

DN	max. 85
Q [m³/h]	max. 50
H [m]	max. 2000
p [bar]	max. 200
T [°C]	max. +100
n [min⁻¹]	max. 6000

higher values available upon request

Design: Vertical, multistage barrel pull-out pump.
Applications: Core flooding, emergency cooling and residual heat removal systems, volume control systems, high-pressure safety injection systems.

also available in 60 Hz

RHR / RVR

Pump for safety-related and auxiliary systems

DN	max. 500
Q [m³/h]	max. 6000
H [m]	max. 190
p [bar]	max. 63
T [°C]	max. +200
n [min⁻¹]	max. 3600

Design: Horizontal or vertical annular casing pump with forged pressure boundary and diffuser.
Applications: Core flooding, emergency cooling and residual heat removal systems, ancillary systems, acid feed systems and low-pressure feed systems.

also available in 60 Hz

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Slurry pumps

WBC

Slurry Pump

Q [m³/h] ____ max. 13600
H [m] ____ max. 80
p [bar] ____ max. 40
T [°C] ____ max. +120

Design: Patented design incorporates state-of-the art hydraulic and wear technologies for heavy duty, high pressure applications. The pump shell is designed to reduce stresses that can cause a structural failure during a pressure surge.
Applications: Ideal for ore and tailings transport to minimize the effect of sudden pressure spikes.

LSA-S

Slurry Pump

Q [m³/h] ____ max. 14000
H [m] ____ max. 90
p [bar] ____ max. 16
T [°C] ____ max. +120

Design: Premium design hard iron pumps for long wear life pumping severe slurries. The basic, single wall construction and heavy section, hard metal wet end combined with the cartridge bearing assembly provides maximum reliability and ease of maintenance.
Applications: Pumps are widely used in ore transport, mill discharge, cyclone feed, tailings and plant process.

LCC-M

Slurry Pump

Q [m³/h] ____ max. 3865
H [m] ____ max. 90
p [bar] ____ max. 16
T [°C] ____ max. +120

Design: The hydraulic wet end consists of three components: a shell or casing, an impeller and a suction plate/liner to permit easy removal for maintenance and inspections.
Applications: Reliable pumps for high discharge head, mildly corrosive slurries and a wide range of particle sizes. Used in mineral processing, mine dewatering, ash and tailings.

LCC-R

Slurry Pump

Q [m³/h] ____ max. 3200
H [m] ____ max. 50
p [bar] ____ max. 16
T [°C] ____ max. +120

Design: Interchangeable rubber and metal design allow best material choice for any application. Easy wet end change can adapt existing pumps to new applications.
Applications: Pumps are suitable for moderate discharge heads, fine particles and highly corrosive slurries.

TBC

Slurry Pump

Q [m³/h] ____ max. 18200
H [m] ____ max. 90
p [bar] ____ max. 55
T [°C] ____ max. +120

Design: High pressure design horizontal, end suction centrifugal pumps to give maximum resistance to wear while simplifying maintenance. The conventional single-wall design transfers stress loads to non-wearing side plates in high pressure applications.
Applications: Features high head and high flow rates for hydrotransport, tailings, dredging, pipeline booster stations and other severe duties.

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Slurry pumps

LSR

Slurry Pump

Q [m³/h] max. 9000
H [m] max. 60
p [bar] max. 14
T [°C] max. +120

Design: Extra heavy duty pumps with a high grade rubber lining for hard wearing applications. The key to the LSR's success is its endurance.
Applications: Designed for heavy duty mill circuit and fine grind slurries; specifically copper, iron ore, gold, aggregate and other abrasive applications.

LCV

Slurry Pump

Q [m³/h] max. 1360
H [m] max. 38
p [bar] max. 14
T [°C] max. +120

Design: Vertical cantilever, rugged hard metal sump pump with bottom suction and no submerged bearings. Replaceable wet end parts in metal alloys and elastomer liners with a durable mechanical end.
Applications: Ideal for industrial process pumping, tailings disposal in mining and pit use.

FGD

Slurry Pump

Q [m³/h] max. 22700
H [m] max. 45
p [bar] max. 17
T [°C] max. +120

Design: High-flow/low-head hard metal pumps with a single-wall shell design. High-efficiency impeller. Suction-side liner is equipped with integrated mounting plates.
Applications: Absorber recirculation and ancillary process pumps.

Mega

Slurry Pump

Q [m³/h] max. 45
H [m] max. 30
p [bar] max. 24
T [°C] max. +120

Design: Horizontal, end suction, modified volute casing pump includes 3 vane open design impeller for large solids passage.
Applications: High-performance, low maintenance slurry pump recommended for coarse or fine particles from solids laden waste water to aggressive slurries of an abrasive and/or corrosive nature.

HHD

Slurry Pump

Q [m³/h] max. 14400
H [m] max. 90
p [bar] max. 29
T [°C] max. +120

Design: Best suited for high flow, high head pumping where high production requires the reduction in the number of pumps.
Applications: Ideal for pipeline booster stations and severe mining duties. Also, as booster or main hull pump on cutter suction dredges.

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Slurry pumps

MHD

Slurry Pump

Q [m³/h] ..... max. 32000
H [m] ..... max. 80
p [bar] ..... max. 28
T [°C] ..... max. +120

Design: Pump for efficient pumping in a balanced range of head and flow conditions.
Applications: Ideal for pipeline booster stations and severe mining duties. Also for hopper dredges or as main pump on cutter dredges.

LHD

Slurry Pump

Q [m³/h] ..... max. 21600
H [m] ..... max. 65
p [bar] ..... max. 17
T [°C] ..... max. +120

Design: High flow/low head design with balanced NPSHR and sphere passage for high volume transportation.
Applications: Ideal for sand & gravel, severe mining, dredge ladder and booster pumps.

MDX

Slurry Pump

Q [m³/h] ..... max. 14000
H [m] ..... max. 90
p [bar] ..... max. 16
T [°C] ..... max. +120

Design: The latest technology from GIW provides superior wear life and increased up-time handling your most aggressive slurry applications.
Applications: Designed for SAG and ball mill discharge duties as well as cyclone feed and screen feed applications in ore mining.

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Pumps and pressure exchangers for seawater desalination by reverse osmosis

SalTec® System

Hydraulic system

Q [m³/Tag] ___ max. 20000
p [bar] _____ max. 80
T [°C] _____ max. +40

Design: Hydraulic system for pressure boosting and energy recovery in reverse osmosis processes for seawater desalination.
Components: SalTec® DT pressure exchanger, HGM-RO high-pressure pump, RPH-RO booster pump and control unit.
Applications: Seawater desalination by reverse osmosis.

Reference no. 1858.11

SalTec® DT

Pressure exchanger

Q [m³/h] _____ max. 280
p [bar] _____ max. 80
T [°C] _____ max. +40

Description: Pressure exchanger specially developed for use in RO seawater desalination systems, in duplex stainless steel (standard) or super duplex stainless steel (on request).

Reference no. 1858.1

RPH-RO

Booster pump

DN _____ 25 - 400
Q [m³/h] _____ max. 4150
H [m] _____ max. 270
p [bar] _____ max. 104
T [°C] _____ max. +50
Data for 50 Hz operation

Design: Horizontal, radially split volute casing pump, dry-installed, made of duplex stainless steel (standard) or super duplex stainless steel (on request).
Applications: Booster pump for RO seawater desalination systems.

also available in 60 Hz

HGM-RO

High pressure pump

DN _____ 65 - 250
Q [m³/h] _____ max. 1500
H [m] _____ max. 950
p [bar] _____ max. 120
T [°C] _____ max. +40
n [min⁻¹] _____ max. 3600
higher values available upon request

Design: 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 also suitable for chilled water applications.
Applications: High-pressure pump for RO seawater desalination systems.

Reference no. 1582.12 **also available in 60 Hz**

Multitec-RO

High pressure pump

DN _____ 50 - 150
Q [m³/h] _____ max. 850
H [m] _____ max. 630
p [bar] _____ max. 63
T [°C] _____ max. +40
n [min⁻¹] _____ max. 3500

Design: Horizontal, multistage pump in ring-section design. Axial suction nozzle, discharge nozzle can be turned in steps of 90°. Closed radial impellers. Duplex stainless steel variant also suitable for chilled water applications.
Applications: High-pressure pump for RO seawater desalination systems.

Reference no. 1777.13 **also available in 60 Hz**

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Control systems

hyatronic K / N

Pump control system for cascade starting and stopping

Max. no. of pumps	6
[kW]	22
Voltage [V]	3~400

Design: Pump control system in control cabinet for cascade starting and stopping of up to 6 pumps run on the mains.
Applications: Water supply systems.

Reference no. 0543.5026

hyatronic S

Pump control system for continuously variable speed adjustment

Max. no. of pumps	6
FI	max. 1
[kW]	22
Voltage [V]	3~400

Design: Pump control system in control cabinet for continuously variable speed adjustment of each pump with up to 4 pumps (6 pumps upon request) and one frequency inverter.
Applications: Heating, ventilation, air-conditioning and water supply systems.

Reference no. 0973.5

hyatronic SP

Pump control system for continuously variable speed adjustment

Max. no. of pumps	6
FI	1 per pump
[kW]	22
Voltage [V]	3~400

Design: Pump control system in control cabinet for continuously variable speed adjustment of each pump with up to 4 pumps (6 pumps upon request) and frequency inverters.
Applications: Heating, ventilation, air-conditioning and water supply systems.

Reference no. 0973.5

hyatronic mb

Pump control system for continuously variable speed adjustment

Max. no. of pumps	8
FI	max. 2
[kW]	200
Voltage [V]	3~400

Design: Pump control system in control cabinet for asynchronous motors of all types and makes for controlling and monitoring hydraulic systems.
Applications: Heating, ventilation and air-conditioning systems, water supply and drainage systems.

Reference no. 0974.5

Hyamaster ISB

Pump control system for continuously variable speed adjustment

Max. no. of pumps	8
FI	max. 2
[kW]	200
Voltage [V]	3~400

Design: Control system for pumps with three-phase motors of all types and makes, consisting of a KSB controller with display and control panel and all required power components.
Applications: Industrial and process engineering circuits, service water supply, cooling and lubrication, energy supply in cogeneration plants, heat transfer and district heating stations, water extraction and treatment, water supply and waste water disposal.

Reference no. 1961.5

Control systems

Hyamaster SPS

Pump control system for continuously variable speed adjustment

Max. no. of pumps 4
FI 1 per pump
[kW] 650
Voltage [V] 3~400

Design: Control system for pumps with three-phase motors of all types and makes, consisting of a programmable logic controller (PLC) with display and control panel and all required power components housed in a control cabinet.
Applications: Process engineering circuits, service water supply, cooling and lubrication systems, cogeneration plants, heat transfer and district heating stations, water extraction and treatment, water supply and waste water disposal.

Reference no. 1964.5

hyatronic spc

Pump control system for continuously variable speed adjustment

Max. no. of pumps 1
FI max. 1
[kW] 7.5
Voltage [V] 3~400

Design: Single-pump control system for continuously variable speed adjustment with integrated frequency inverter.
Applications: Heating, ventilation, air-conditioning, water supply and drainage systems.

Reference no. 0973.5

PumpDrive

Self-cooling, motor-independent frequency inverter

Max. no. of pumps 6
FI 1 per pump/motor
[kW] 45
Voltage [V] 3~380 up to 480

Design: Self-cooling frequency inverter which allows the motor speed to be varied continuously by means of standard signals and a field bus. Because PumpDrive is self-cooling, it can be mounted on a motor, on the wall or in a cabinet. Control of up to 6 pumps without an additional controller (with PumpDrive Advanced).
Applications: Cooling circuits, filters, water supply systems, heating, ventilation and air-conditioning systems, spray irrigation systems, boiler feed systems, steam generation plants, process engineering circuits, cooling lubricant supply systems, service water supply systems and other process engineering applications.

Reference no. 4070.5

UPA Control

Control system for submersible borehole pumps

Max. no. of pumps 1
[kW] 3
Voltage [V] 1~230 / 3~400

Design: Single-pump control of submersible borehole pumps, submersible motor pumps and dry-installed pumps.
Applications: Water supply systems, in combination with pumps like S 100D, UPA 150S, etc.

Reference no. 3465.1

LevelControl

Level control unit

Max. no. of pumps 2
[kW] max. 22
Voltage [V] 230 / 400

higher values available upon request

Design: Level control unit for controlling up to two pumps. Direct starting up to 4 kW, star-delta starting up to 22 kW.
Applications: Tank drainage via float switches, pneumatic or bubbler control in building services and waste water applications.

Reference no. 4040.5, 4041.5

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Control systems

Controlmatic E.2

Automatic control unit

Max. no. of pumps 1
Voltage [V] 1~230

Design: Single-pump control system for starting, stopping and monitoring pumps.
Applications: Water supply systems, in combination with pumps like Multi Eco, Multichrom S, Ixo, S 100D, etc.

Reference no. 5125.1785

Cervomatic EDP

Automatic control unit

Max. no. of pumps 1
Voltage [V] 1~230 / 3~400

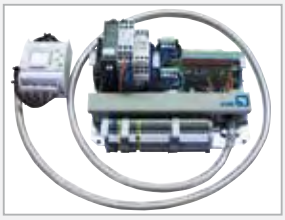
Design: Single-pump control system for pressure-controlled starting, flow-controlled stopping and monitoring of pumps.
Applications: Water supply systems, in combination with pumps like Multi Eco, Multichrom S, Ixo, S 100D, UPA 150S, etc.

Reference no. 5125.178

Monitoring and diagnostic systems

Amacontrol

Monitoring system for submersible waste water pumps



Max. no. of pumps 1
Pumps Amacan
Installation Mounting plate IP20
Voltage 230 VAC

Design: Monitoring system for submersible waste water pumps with shutdown.

Reference no. 2316.178

PumpExpert

Pump diagnostic system

Max. no. of pumps 1
Pumps see type series booklet
Installation steel housing IP54; Compact CPU module
Voltage 24 VDC / 110/230 VAC

Design: Modular diagnostic system with memory.

Reference no. 4050.5

SÜDZUCKER

Alternative Fuel Production

Südzucker Bioethanol GmbH Zeitz/Germany

Scope of supply and technical data:
130 pumps, some 600 butterfly valves with manual actuators and some 400 with pneumatic actuators, 150 globe and gate valves.

Pumps:

KWP O 250-560
Fluid pumped: fermented mash
Q = 906 m³/h H = 53.3 m
d = 1.045 kg/dm³ t = 34 °C

CPKN/C1 250-400
decanted vinasse
Q = 600 m³/h H = 17.5 m
d = 1.087 kg/dm³ t = 52 °C

Valves:

ISORIA 10
DN 50 – 900, PN 10, body in JS 1030, disc in stainless steel, EPDM liner

KE
DN 50 – 600, PN 10, body in JS 1025, disc in stainless steel, PFA liner

DANAÏS MT II
DN 50 - 1000, PN 16+25, stainless steel, metal-seated, leakage rate 1

All butterfly valves as per ATEX directive

Commissioned:
Beginning of 2005

Having built the biggest bioethanol facility in Europe, Südzucker Bioethanol GmbH is set to become a major player in the production of alternative fuels. This impressive plant located in Zeitz, Germany, has been equipped with pumps and valves produced by KSB. The customer's very positive experience with KSB products as well as KSB's renown as a well-established full-range supplier of pumps and valves tipped the balance in favour of KSB. Not shying away from a project of this size and complexity, our experts were once again able to demonstrate their excellent problem solving skills. As a result, roughly 130 pumps of our KWP, CPKN, Magnochem, Secochem-Ex, Etanorm and Tyamagno series as well as some 1,200 valves have been installed to smoothly handle fermented mash and decanted vinasse in the bioethanol process. Highly efficient products carefully tuned to the customer's requirements on site are our strength – a fact borne out by the intensive customer dialogue during the project phase, which rounded off our quotation. Unnecessary and cost-intensive delays could be prevented already in the project phase. A good example of KSB's excellent all-in solutions.

Should you need more information, please do not hesitate to contact me:
Reinhold Höller, +49 9241 71-5200, reinhold.hoeller@ksb.com or www.ksb.com.

KSB

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Reference no.	Type series
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Reference no.	Type series

☐ Yes, I am also interested in the KSB range of valves.
Please send me the relevant literature. (You can also download this literature via the Internet.)

0570.091

☐ I have some specific questions and would therefore appreciate if a member of your field staff contacted me by phone.

Date | Signature

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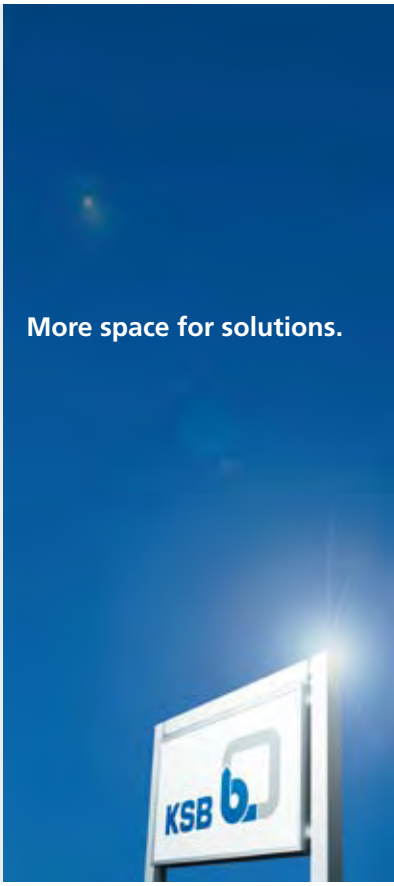
Your local KSB representative:



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