

THE ASC SYSTEM

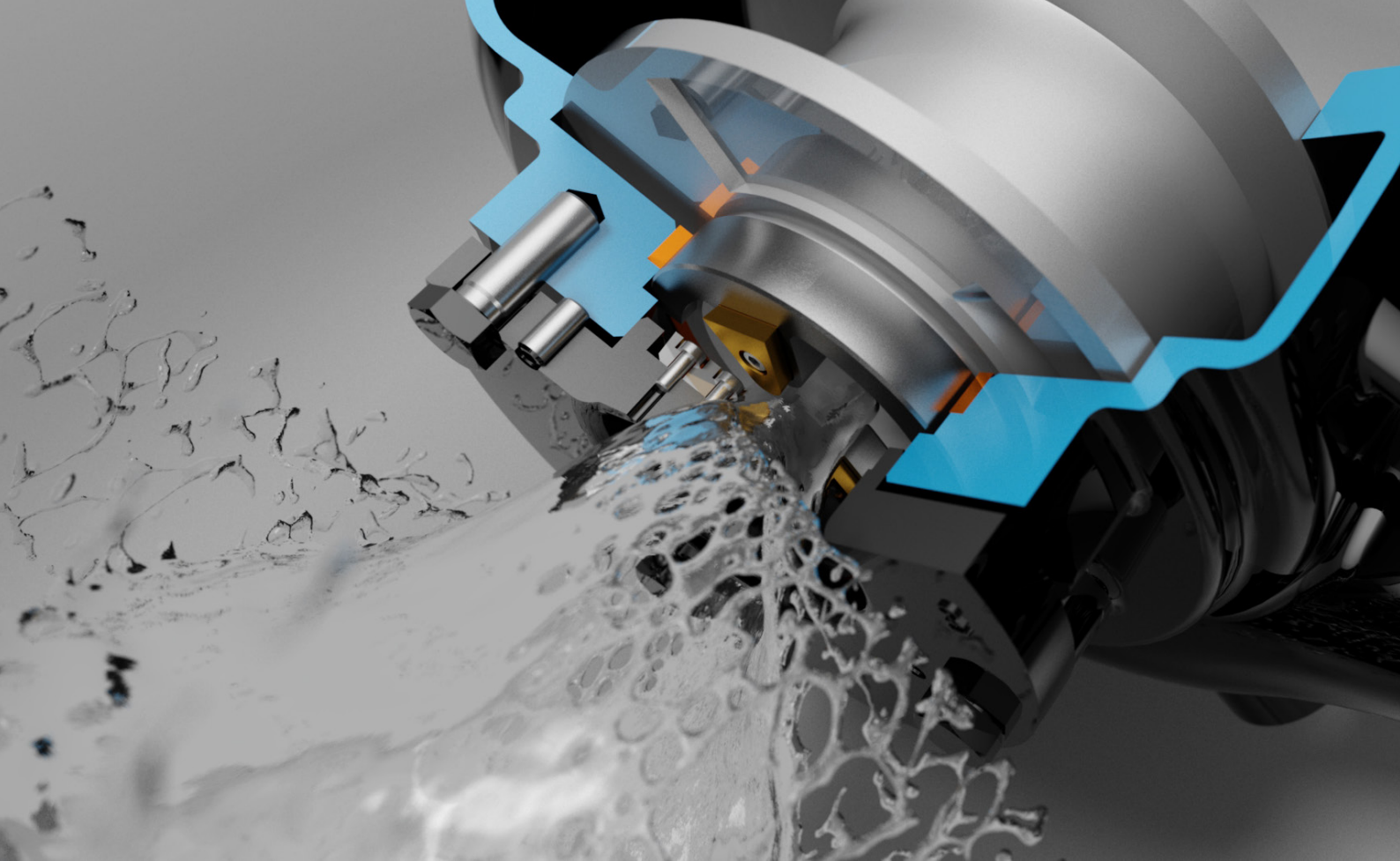


INNOVATIVE SUBMERSIBLE PUMPS WITH CUTTER SYSTEM

MXS 13/23/24/34 series | Discharge DN 80 - DN 150



HOMA
P U M P T E C H N O L O G Y



HOMA: TOP PRODUCTS FOR WASTE WATER TECHNOLOGY

THESE REALLY PERFORM

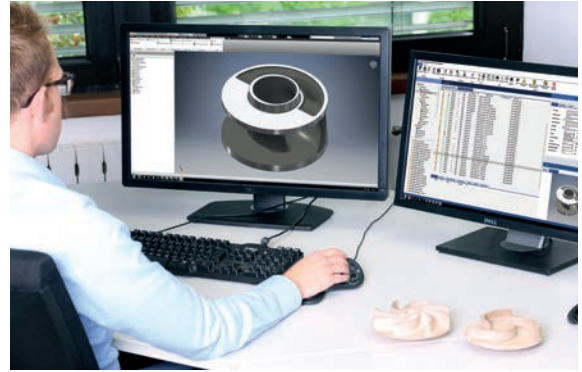
HOMA submersible pumps with their cutter system are among the technical leaders on the market. The ASC system are setting trends worldwide, convincing not only with their reliability, but with their performance as well.

These robust cutting systems prevent clogging or blocking of the pumps by efficiently cutting contained solids before the pumped medium is carried off. More than sixty years of expertise in pump construction, innovative technology and high-quality materials guarantee the famous HOMA quality "Made in Germany".

PERSUASIVELY SAFE

In particularly difficult applications, where it makes no sense to use standard hydraulics, HOMA wastewater pumps with the ASC system are the optimal solution. The combination of submersible wastewater pumps having a free passage of up to 100 mm Ø with an upstream ASC cutting system, which disintegrates particularly coarse solids, gives double protection against any obstruction of pumps, fittings or pressure pipes.

The adjustable ASC cutting device consists of two rotating, as well as one carbide cutting plate and is available for HOMA wastewater pumps in the MXS13 to MXS24 series. The ASC system can also be retrofitted to these pumps.



In the HOMA development centre, all the new developments are created on modern 3D CAD systems.



In the modern test centre, the units are tested before they are sent out. This guarantees the known HOMA quality.

PROVEN TECHNOLOGY WITH EXTENDED FIELD OF APPLICATION

PERFORMANCE THAT PERSUADES

HOMA pumps with the ASC-System provide:

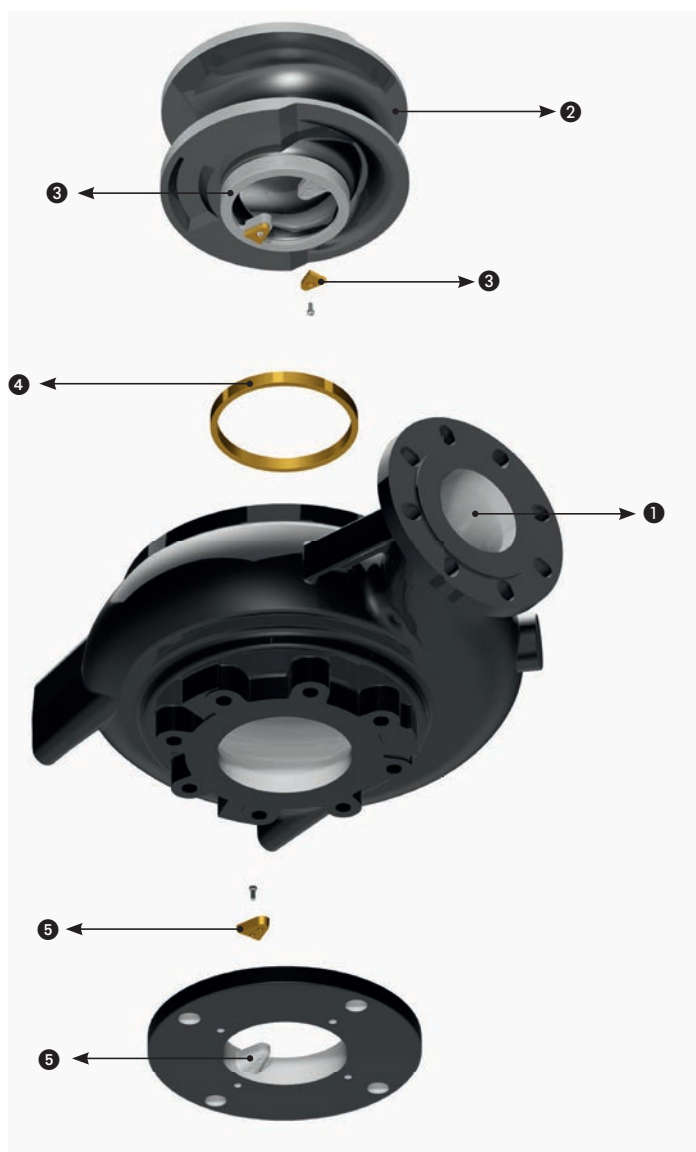
- reliable cutting system prevents blocking of the pump
- adjustable cutting system in hard metal (HRC 55)
- high handling capacity with discharge sizes up to DN 150
- powerful channel-impeller pumps with free passage up to 100 mm
- All ASC components are replaceable and available as spare parts



The ASC system has replaceable hard metal blades (HRC 55).

HIGH QUALITY MATERIALS - HIGH IMMUNITY

Quality is a measurable quantity – fully-immersible block units from HOMA feature impressive generous proportions for all the important components, in outstanding material quality in solid, mechanical design.



❶ PRESSURE CONNECTOR

With DIN flange DN 80, DN 100 or DN 150 (PN 10).

❷ BLOCKAGE-RESISTANT IMPELLERS

- Enclosed single-channel impellers with large free passage.
- With upstream ASC cutting system

❸ CUTTING RING (DYNAMIC)

With two hard metal cutter plates.
Easy to replace when worn.

❹ WEAR RING

Wear ring made of Bronze.

❺ CUTTER PLATE (STATIC)

With hard metal cutter plates and adjustable cutting gap. Easy to replace when worn.

MATERIALS

Motor housing	Grey cast iron EN-GJL-250
Pump Housing	Grey cast iron EN-GJL-250
Impeller	Grey cast iron EN-GJL-250
Cutting ring	Stainless steel 1.4436
Hard metal cutter plates	Stainless steel 1.4122, 55 HRC
Cutting plate	Grey cast iron EN-GJL-250
Wear ring	Bronze
Motor shaft	Stainless steel 1.4104
Mechanical connection parts	Stainless steel
Elastomere	NBR (Perbunan)

DN 80 -DN 150 - SERIES - OVERVIEW OF SELECTION

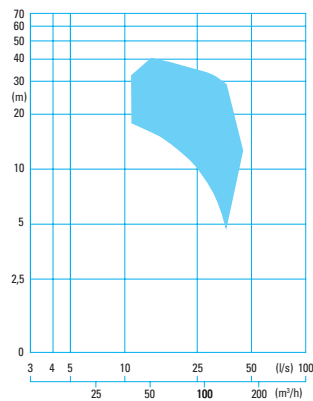
DN 80

Enclosed single vane
80 mm Ø
Ball clearance
2900 rpm



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MXS13...ASC -2 pole



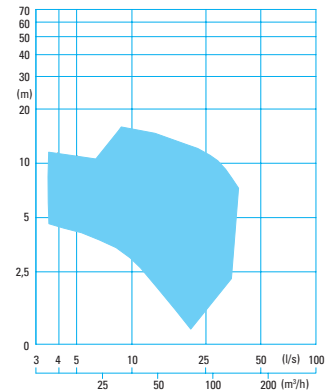
DN 80

Enclosed single vane
80 mm Ø
Ball clearance
1450 rpm



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MXS13...ASC -4 pole



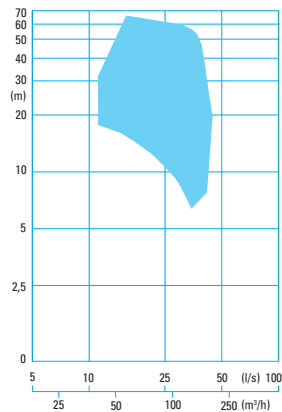
DN 100

Enclosed single vane
80 mm Ø
Ball clearance
2900 rpm



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MXS23...ASC -2 pole



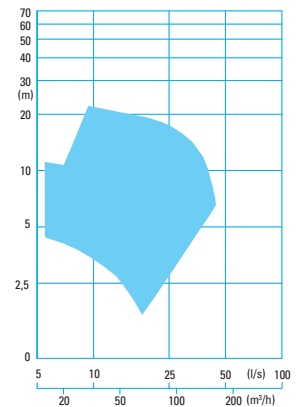
DN 100

Enclosed single vane
80 mm Ø
Ball clearance
1450 rpm



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MXS23...ASC -4 pole



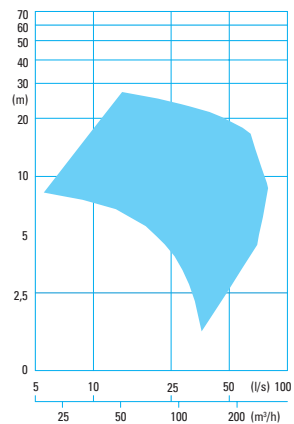
DN 100

Enclosed single vane
100 mm Ø
Ball clearance
1450 rpm



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MXS24...ASC -4 pole



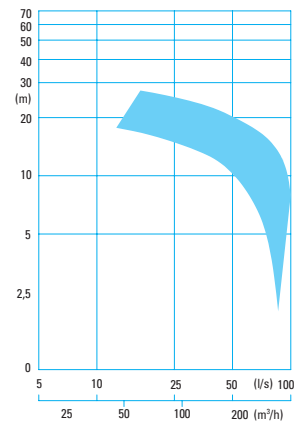
DN 150

Enclosed single vane
100 mm Ø
Ball clearance
1450 rpm



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MXS34...ASC -4 pole



DN 80 - MXS 13...ASC -2 POLE



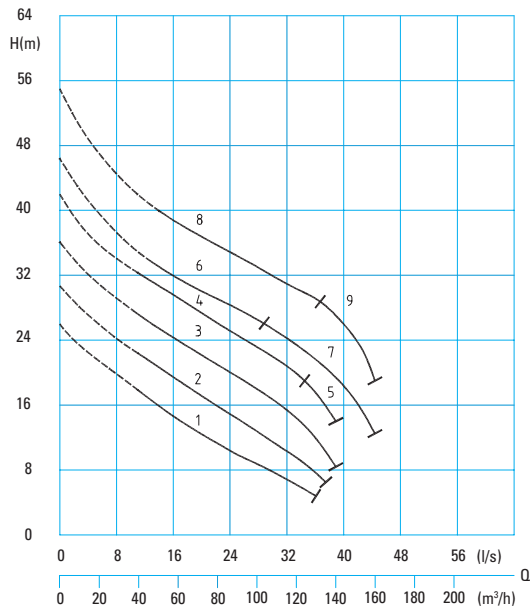
Enclosed single vane

80 mm Ø Ball clearance

2900 rpm



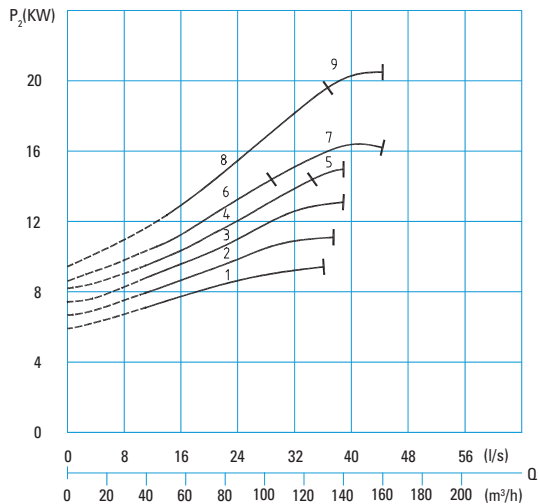
HYDRAULIC PERFORMANCE



Technical Data

Curve no.	Type of pump	WET SETUP			
		Motor output P_1 (kW)	Motor output P_2 (kW)	Rated current (A)	Weight normal (kg)
①	MXS 1328 ASC-T72 (C)(Ex)	11,0	9,5	18,8	126
②	MXS 1330 ASC-T82 (C)(Ex)	13,0	11,5	22,2	126
③	MXS 1332 ASC-P92 (C)(Ex)	16,0	14,4	27,0	184
④	MXS 1334 ASC-P92 (C)(Ex)	16,0	14,4	27,0	184
⑤	MXS 1334 ASC-P102 (C)(Ex)	22,0	19,6	36,9	184
⑥	MXS 1336 ASC-P92 (C)(Ex)	16,0	14,4	27,0	186
⑦	MXS 1336 ASC-P102 (C)(Ex)	22,0	19,6	36,9	186
⑧	MXS 1338 ASC-P102 (C)(Ex)	22,0	19,6	36,9	186
⑨	MXS 1338 ASC-P122 (C)(Ex)	28,0	25,4	46,3	204

MOTOR OUTPUT



Technical Data

Curve no.	Type of pump	DRY SETUP			
		Motor output P_1 (kW)	Motor output P_2 (kW)	Rated current (A)	Weight normal (kg)
①	MXS 1328 ASC-ET72 (C)(Ex)	10,5	9,5	20,1	152
②	MXS 1330 ASC-ET82 (C)(Ex)	12,7	11,5	22,7	152
③	MXS 1332 ASC-PU92 (C)(Ex)	16,0	14,4	27,0	195
④	MXS 1334 ASC-PU92 (C)(Ex)	16,0	14,4	27,0	195
⑤	MXS 1334 ASC-PU102 (C)(Ex)	22,0	19,6	36,9	195
⑥	MXS 1336 ASC-PU92 (C)(Ex)	16,0	14,4	27,0	197
⑦	MXS 1336 ASC-PU102 (C)(Ex)	22,0	19,6	36,9	197
⑧	MXS 1338 ASC-PU102 (C)(Ex)	22,0	19,6	36,9	197
⑨	MXS 1338 ASC-PU122 (C)(Ex)	28,0	25,4	46,3	217

DN 80 - MXS 13...ASC -4 POLE



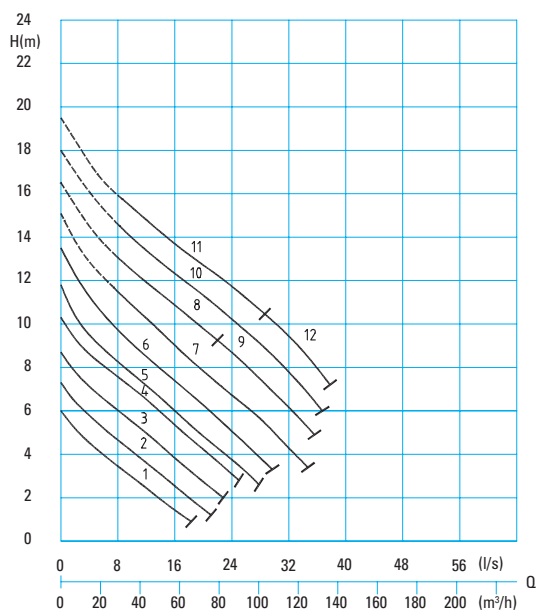
Enclosed single vane

80 mm Ø Ball clearance

1450 rpm



HYDRAULIC PERFORMANCE

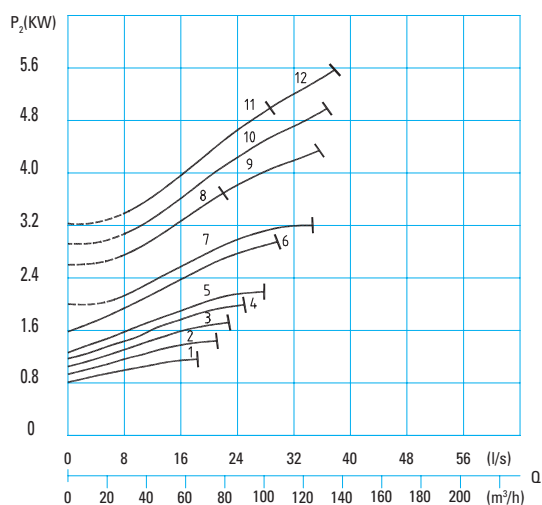


Technical Data

WET SETUP

Curve no.	Type of pump	Motor output P ₁ (kW)	Motor output P ₂ (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS 1328 ASC-C24 (C)	1,7	1,3	3,3	80	-
②	MXS 1330 ASC-D44 (C)	3,4	2,6	6,2	86	-
③	MXS 1332 ASC-D44 (C)	3,4	2,6	6,2	86	-
④	MXS 1334 ASC-D44 (C)	3,4	2,6	6,2	86	-
⑤	MXS 1336 ASC-D44 (C)	3,4	2,6	6,2	88	-
⑥	MXS 1338 ASC-T44 (C)(Ex)	4,4	3,7	8,1	123	123
⑦	MXS 1340 ASC-T44 (C)(Ex)	4,4	3,7	8,1	127	127
⑧	MXS 1342 ASC-T44 (C)(Ex)	4,4	3,7	8,1	127	127
⑨	MXS 1342 ASC-T54 (C)(Ex)	5,9	5,0	9,9	137	137
⑩	MXS 1344 ASC-T54 (C)(Ex)	5,9	5,0	9,9	137	137
⑪	MXS 1346 ASC-T54 (C)(Ex)	5,9	5,0	9,9	137	137
⑫	MXS 1346 ASC-T64 (C)(Ex)	7,7	6,5	13,1	140	140

MOTOR OUTPUT



Technical Data

DRY SETUP

Curve no.	Type of pump	Motor output P ₁ (kW)	Motor output P ₂ (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS 1328 ASC-ET34 (C)(Ex)	3,3	2,9	5,9	134	134
②	MXS 1330 ASC-ET34 (C)(Ex)	3,3	2,9	5,9	134	134
③	MXS 1332 ASC-ET34 (C)(Ex)	3,3	2,9	5,9	134	134
④	MXS 1334 ASC-ET34 (C)(Ex)	3,3	2,9	5,9	134	134
⑤	MXS 1336 ASC-ET44 (C)(Ex)	3,3	2,9	5,9	136	136
⑥	MXS 1338 ASC-ET44 (C)(Ex)	4,3	3,7	7,3	136	136
⑦	MXS 1340 ASC-ET44 (C)(Ex)	4,3	3,7	7,3	140	140
⑧	MXS 1342 ASC-ET44 (C)(Ex)	4,3	3,7	7,3	140	140
⑨	MXS 1342 ASC-ET54 (C)(Ex)	6,1	5,0	10,2	140	140
⑩	MXS 1344 ASC-ET54 (C)(Ex)	6,1	5,0	10,2	140	140
⑪	MXS 1346 ASC-ET54 (C)(Ex)	6,1	5,0	10,2	140	140
⑫	MXS 1346 ASC-ET64 (C)(Ex)	7,7	6,5	13,4	158	158

DN 100 - MXS 23...ASC -2 POLE



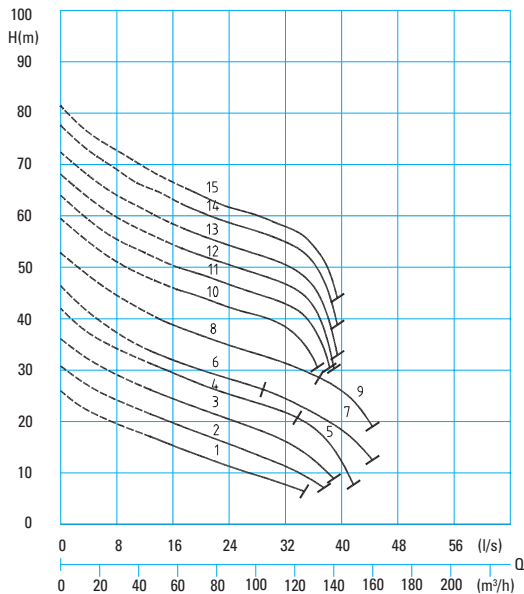
Enclosed single vane

80 mm Ø Ball clearance

2900 rpm



HYDRAULIC PERFORMANCE

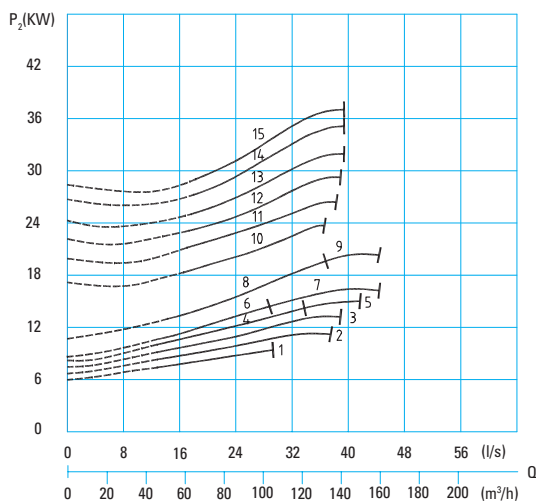


Technical Data

WET SETUP

Curve no.	Type of pump	Motor output P ₁ (kW)	P ₂ (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS 2328 ASC-T72 (C)(Ex)	11,0	9,5	18,8	126	126
②	MXS 2330 ASC-T82 (C)(Ex)	13,0	11,5	22,2	126	126
③	MXS 2332 ASC-P92 (C)(Ex)	16,0	14,4	27,0	184	196
④	MXS 2334 ASC-P92 (C)(Ex)	16,0	14,4	27,0	184	196
⑤	MXS 2334 ASC-P102 (C)(Ex)	22,0	19,6	36,9	184	196
⑥	MXS 2336 ASC-P92 (C)(Ex)	16,0	14,4	27,0	186	198
⑦	MXS 2336 ASC-P102 (C)(Ex)	22,0	19,6	36,9	186	198
⑧	MXS 2338 ASC-P102 (C)(Ex)	22,0	19,6	36,9	186	198
⑨	MXS 2338 ASC-P122 (C)(Ex)	28,0	25,4	46,3	204	216
⑩	MXS 2340 ASC-F152 (C)(Ex)	38,0	35,0	59,4	389	389
⑪	MXS 2341 ASC-F152 (C)(Ex)	38,0	35,0	59,4	389	389
⑫	MXS 2342 ASC-F152 (C)(Ex)	38,0	35,0	59,4	389	389
⑬	MXS 2344 ASC-F152 (C)(Ex)	38,0	35,0	59,4	389	389
⑭	MXS 2345 ASC-F162 (C)(Ex)	43,0	40,0	67,5	396	396
⑮	MXS 2346 ASC-F162 (C)(Ex)	43,0	40,0	67,5	396	396

MOTOR OUTPUT



Technical Data

DRY SETUP

Curve no.	Type of pump	Motor output P ₁ (kW)	P ₂ (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
①	MXS 2328 ASC-ET72 (C)(Ex)	10,5	9,5	20,1	152	152
②	MXS 2330 ASC-ET82 (C)(Ex)	12,7	11,5	22,7	152	152
③	MXS 2332 ASC-PU92 (C)(Ex)	16,0	14,4	27,0	195	207
④	MXS 2334 ASC-PU92 (C)(Ex)	16,0	14,4	27,0	195	207
⑤	MXS 2334 ASC-PU102 (C)(Ex)	22,0	19,6	36,9	195	207
⑥	MXS 2336 ASC-PU92 (C)(Ex)	16,0	14,4	27,0	197	209
⑦	MXS 2336 ASC-PU102 (C)(Ex)	22,0	19,6	36,9	197	209
⑧	MXS 2338 ASC-PU102 (C)(Ex)	22,0	19,6	36,9	197	209
⑨	MXS 2338 ASC-PU122 (C)(Ex)	28,0	25,4	46,3	217	229
⑩	MXS 2340 ASC-FU152 (C)(Ex)	38,0	35,0	59,4	415	415
⑪	MXS 2341 ASC-FU152 (C)(Ex)	38,0	35,0	59,4	415	415
⑫	MXS 2342 ASC-FU152 (C)(Ex)	38,0	35,0	59,4	415	415
⑬	MXS 2344 ASC-FU152 (C)(Ex)	38,0	35,0	59,4	415	415
⑭	MXS 2345 ASC-FU162 (C)(Ex)	43,0	40,0	67,5	422	422
⑮	MXS 2346 ASC-FU162 (C)(Ex)	43,0	40,0	67,5	422	422

DN 100 - MXS 23...ASC -4 POLE



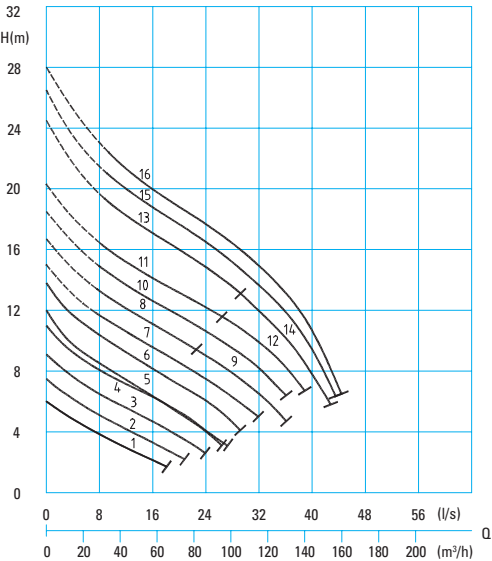
Enclosed single vane

80 mm Ø Ball clearance

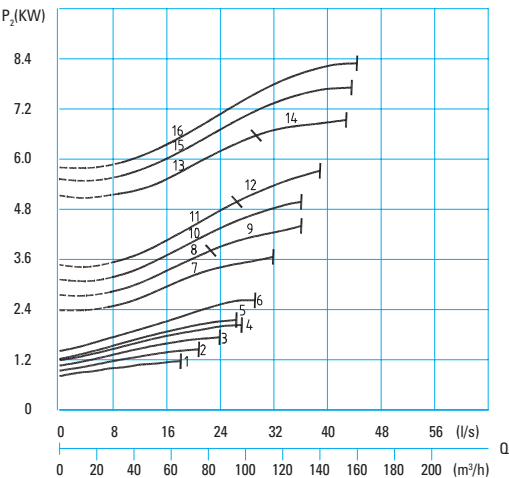
1450 rpm



HYDRAULIC PERFORMANCE



MOTOR OUTPUT



Technical Data

WET SETUP

Curve no.	Type of pump	Motor output		Rated current (A)	Weight normal (kg)	Weight Ex (kg)
		P ₁ (kW)	P ₂ (kW)			
①	MXS 2328 ASC-C24 (C)	1,7	1,3	3,3	74	-
②	MXS 2330 ASC-D44 (C)	3,4	2,6	6,2	80	-
③	MXS 2332 ASC-D44 (C)	3,4	2,6	6,2	80	-
④	MXS 2334 ASC-D44 (C)	3,4	2,6	6,2	80	-
⑤	MXS 2336 ASC-D44 (C)	3,4	2,6	6,2	88	-
⑥	MXS 2338 ASC-T44 (C)(Ex)	4,4	3,7	8,1	123	123
⑦	MXS 2340 ASC-T44 (C)(Ex)	4,4	3,7	8,1	128	128
⑧	MXS 2342 ASC-T44 (C)(Ex)	4,4	3,7	8,1	128	128
⑨	MXS 2342 ASC-T54 (C)(Ex)	5,9	5,0	9,9	138	138
⑩	MXS 2344 ASC-T54 (C)(Ex)	5,9	5,0	9,9	138	138
⑪	MXS 2346 ASC-T54 (C)(Ex)	5,9	5,0	9,9	138	138
⑫	MXS 2346 ASC-T64 (C)(Ex)	7,7	6,5	13,1	141	141
⑬	MXS 2350 ASC-T64 (C)(Ex)	7,7	6,5	13,1	148	148

Technical Data

DRY SETUP

Curve no.	Type of pump	Motor output		Rated current (A)	Weight normal (kg)	Weight Ex (kg)
		P ₁ (kW)	P ₂ (kW)			
①	MXS 2328 ASC-ET34 (C)(Ex)	3,3	2,9	5,9	128	128
②	MXS 2330 ASC-ET34 (C)(Ex)	3,3	2,9	5,9	128	128
③	MXS 2332 ASC-ET34 (C)(Ex)	3,3	2,9	5,9	128	128
④	MXS 2334 ASC-ET34 (C)(Ex)	3,3	2,9	5,9	128	128
⑤	MXS 2336 ASC-ET34 (C)(Ex)	3,3	2,9	5,9	136	136
⑥	MXS 2338 ASC-ET44 (C)(Ex)	4,3	3,7	7,3	136	136
⑦	MXS 2340 ASC-ET44 (C)(Ex)	4,3	3,7	7,3	141	141
⑧	MXS 2342 ASC-ET44 (C)(Ex)	4,3	3,7	7,3	141	141
⑨	MXS 2342 ASC-ET54 (C)(Ex)	6,1	5,0	10,2	141	141
⑩	MXS 2344 ASC-ET54 (C)(Ex)	6,1	5,0	10,2	135	135
⑪	MXS 2346 ASC-ET54 (C)(Ex)	6,1	5,0	10,2	141	141
⑫	MXS 2346 ASC-ET64 (C)(Ex)	7,4	6,5	13,4	159	159
⑬	MXS 2350 ASC-ET64 (C)(Ex)	7,4	6,5	13,4	174	174
⑭	MXS 2350 ASC-ET74 (C)(Ex)	9,8	8,5	16,8	174	174
⑮	MXS 2351 ASC-ET74 (C)(Ex)	9,8	8,5	16,8	174	174

DN 100 - MXS 24...ASC -4 POLE



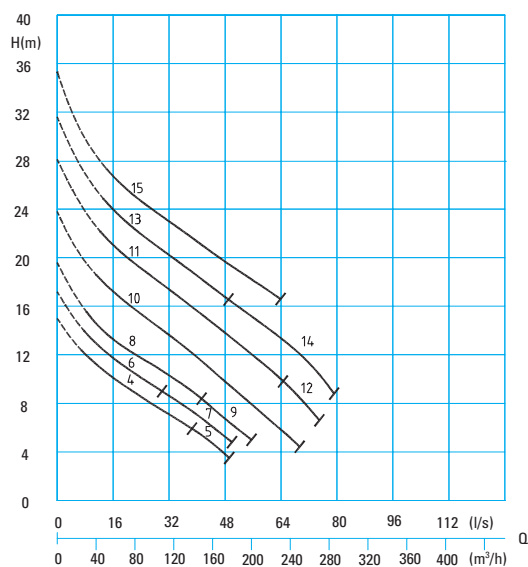
Enclosed single vane

100 mm Ø Ball clearance

1450 rpm



HYDRAULIC PERFORMANCE

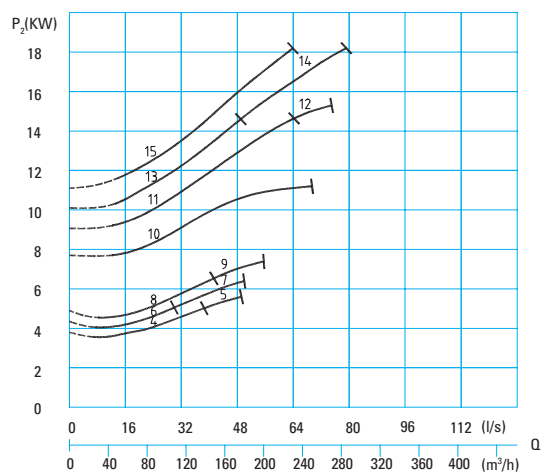


Technical Data

WET SETUP

Curve no.	Type of pump	Motor output P ₁ (kW)	P ₂ (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
④	MXS 2442 ASC-T54 (C)(Ex)	5,9	5,0	9,9	149	149
⑤	MXS 2442 ASC-T64 (C)(Ex)	7,7	6,5	13,1	152	152
⑥	MXS 2444 ASC-T54 (C)(Ex)	5,9	5,0	9,9	149	149
⑦	MXS 2444 ASC-T64 (C)(Ex)	7,7	6,5	13,1	152	152
⑧	MXS 2446 ASC-T64 (C)(Ex)	7,7	6,5	13,1	152	152
⑩	MXS 2450 ASC-P84 (C)(Ex)	14,0	12,2	23,0	219	231
⑪	MXS 2454 ASC-P94 (C)(Ex)	17,0	14,6	28,8	219	231
⑫	MXS 2454 ASC-P104 (C)(Ex)	22,0	19,3	36,5	241	253
⑬	MXS 2457 ASC-P94 (C)(Ex)	17,0	14,6	28,8	219	231
⑭	MXS 2457 ASC-P104 (C)(Ex)	22,0	19,3	36,5	241	253
⑮	MXS 2460 ASC-P104 (C)(Ex)	22,0	19,3	36,5	241	253

MOTOR OUTPUT



Technical Data

DRY SETUP

Curve no.	Type of pump	Motor output P ₁ (kW)	P ₂ (kW)	Rated current (A)	Weight normal (kg)	Weight Ex (kg)
④	MXS 2442 ASC-ET54 (C)(Ex)	6,1	5,0	10,2	152	152
⑤	MXS 2442 ASC-ET64 (C)(Ex)	7,4	6,5	13,4	170	170
⑥	MXS 2444 ASC-ET54 (C)(Ex)	6,1	5,0	10,2	152	142
⑦	MXS 2444 ASC-ET64 (C)(Ex)	7,4	6,5	13,4	170	170
⑧	MXS 2446 ASC-ET64 (C)(Ex)	7,4	6,5	13,4	170	170
⑨	MXS 2446 ASC-ET74 (C)(Ex)	9,8	8,5	16,8	184	184
⑩	MXS 2450 ASC-PU84 (C)(Ex)	14,0	12,2	23,0	229	241
⑪	MXS 2454 ASC-PU94 (C)(Ex)	17,0	14,6	28,8	229	241
⑫	MXS 2454 ASC-PU104 (C)(Ex)	22,0	19,3	36,5	254	266
⑬	MXS 2457 ASC-PU94 (C)(Ex)	17,0	14,6	28,8	229	241
⑭	MXS 2457 ASC-PU104 (C)(Ex)	22,0	19,3	36,5	254	266
⑮	MXS 2460 ASC-PU104 (C)(Ex)	22,0	19,3	36,5	254	266

DN 150 - MXS 34...ASC -4 POLE



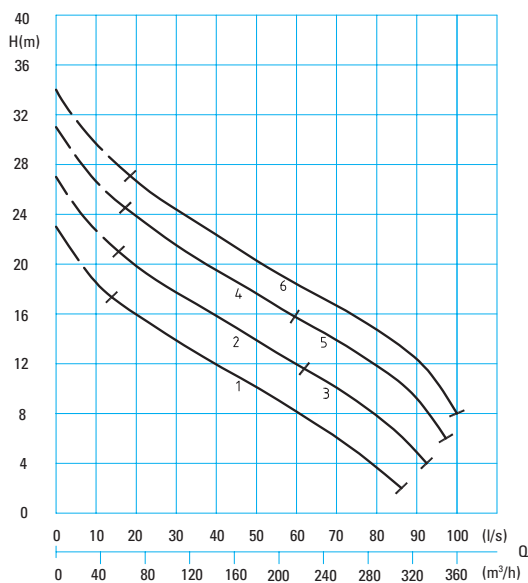
Enclosed single vane

100 mm Ø Ball clearance

1450 rpm



HYDRAULIC PERFORMANCE

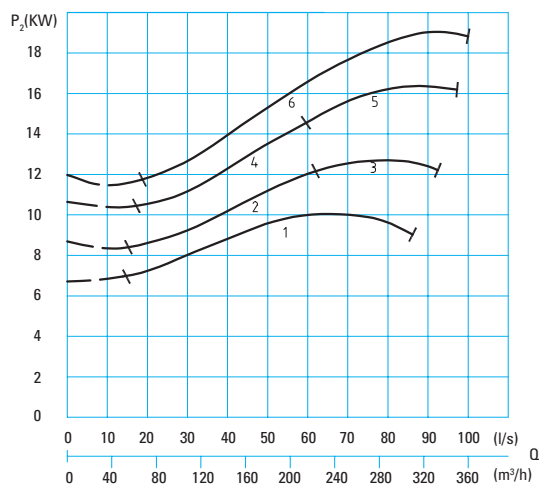


Technical Data

WET SETUP

Curve no.	Type of pump	Motor output		Rated current (A)	Weight normal (kg)	Weight Ex (kg)
		P ₁ (kW)	P ₂ (kW)			
①	MXS 3450 ASC-P84 (C)(Ex)	14,0	12,2	23,0	227	239
②	MXS 3454 ASC-P84 (C)(Ex)	14,0	12,2	23,0	227	239
③	MXS 3454 ASC-P94 (C)(Ex)	17,0	14,6	28,8	227	239
④	MXS 3457 ASC-P94 (C)(Ex)	17,0	14,6	28,8	227	239
⑤	MXS 3457 ASC-P104 (C)(Ex)	22,0	19,3	36,5	249	261
⑥	MXS 3460 ASC-P104 (C)(Ex)	22,0	19,3	36,5	249	261

MOTOR OUTPUT



Technical Data

DRY SETUP

Curve no.	Type of pump	Motor output		Rated current (A)	Weight normal (kg)	Weight Ex (kg)
		P ₁ (kW)	P ₂ (kW)			
①	MXS 3450 ASC-PU84 (C)(Ex)	14,0	12,2	23,0	237	249
②	MXS 3454 ASC-PU84 (C)(Ex)	14,0	12,2	23,0	237	249
③	MXS 3454 ASC-PU94 (C)(Ex)	17,0	14,6	28,8	237	249
④	MXS 3457 ASC-PU94 (C)(Ex)	17,0	14,6	28,8	237	279
⑤	MXS 3457 ASC-PU104 (C)(Ex)	22,0	19,3	36,5	262	274
⑥	MXS 3460 ASC-PU104 (C)(Ex)	22,0	19,3	36,5	262	274



The HOMA range

- Submersible waste water pumps
- Construction pumps
- Submersible fire pumps
- Submersible deep well pumps
- Submersible sewage pumps
- Submersible pumps with cutting system
- Waste water lifting stations
- Sewage lifting station
- Pre-assembled pump stations
- Agitators
- Tank cleaning systems
- Garden pumps and automatic domestic water systems
- Propeller pumps
- Pump control and automation systems



In operation worldwide

HOMA pumps and systems are employed in over 100 countries worldwide – in a myriad of projects, large and small, including the Palm Islands in Dubai. They meet all international safety and production standards and are certified by the relevant state or private bodies for sewage disposal. It is one of our main objectives to maintain and extend this high standard at all times.



Sales and service network

HOMA stays close to its customers through a comprehensive network of professional sales and service agencies. HOMA also makes selecting and designing pump systems as straightforward as possible through HOPSEL, its specially developed software, available free of charge online or on CD-ROM.

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