



خزانات الوطني المهيذب
NATIONAL FACTORY FOR FIBERGLASS
GRP. SECTIONAL PANEL WATER TANKS
Since 1963

AL MUHAIDEB NATIONAL
WATER SOLUTIONS



الوطني المهيذب
لحلول المياه

منذ 1963 Since

Profile Company

CONTANTS

المحتويات

Our Story	قصتنا
Our Vision	رؤيتنا
Our Mission	رسالتنا
Our Values	قيمنا
Making Generation	صنع لأجيال
Our Products	منتجاتنا
Product Certificates	شهادات الجودة
Our Clients	عملائنا
Our Projects	مشاريعنا
Contact Us	تواصل معنا

AL MUHAIDEB NATIONAL

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منذ 1963 Since

الوطني المهيدب

لحلول المياه



لكل مشوار مُميز بداية مميزة ، ولكل طموح باسل انطلاقةً شامخة ، وها نحن نحكي لكم قصة مشوارنا الطويل حيث ابتدأنا تجارة مواد البناء في عام 1963 م واكتسبنا خبرة واسعة في مجال البناء اتضحت من خلال التفاصيل الدقيقة والخاصة لاحتياج السوق السعودي

ومن هنا نشأت فكره بناء اول مصنع سعودي متكامل للخزانات وبعض منتجات الفايبر جلاس الاخرى ، و بالعزم والإصرار- من بعد فضل الله عز وجل ومنته - تم جنى الثمرة الأولى في طريقنا الطويل بإفتتاح أول مصنع سعودي متكامل للخزانات ومنتجات الفايبر جلاس عام 1982 م

وكالعاده الافكار تبدأ صغيرة ، ثم تنمو حتى تكبر وتتسع ، فاصبنا ولا ظل الاختيار الأول للسوق السعودي وفي عام 1999 م بدأنا نعرف باسم **خزانات الوطني المهيدب بدل من خزانات الفايبرجلاس الوطني**

ثم اتجهنا لعمل اقسام لجميع حلول المياه المتكامله بدايه من انشاء اول مصنع للبانل في المملكة العربية السعودية وتقنيه المواسير العازله للصوت (السيلنتا) وانشاء قسم للمضخات والاجهزه المنزليه وكذلك انشاء قسم لأحدث تقنيات العزل المائي البولي يوريا وضمت الجميع تحت اسم **الوطني المهيدب لحلول المياه**



Every journey starts with one step , and an inspiring journey like ours has a story to match. We started our long journey in 1963, where we entered the market as a building materials trader . We obtained sufficient experience in that domain, which allowed us to assist the saudi market's particular needs.

That was when the idea of establishing the first saudi integrated factory for water tanks, and other fiberglass products become a reality. With the help of God Almighty and our efforts and perseverance, we were able to reap the fruits of our labor. In1982, we opened the first saudi interested factory for water tanks and other fiberglass products.

As per usual, beginnings are always in small steps until the idea grows and expands. We become the first choice in the saudi market and managed to maintain this reputation. In1997, we become to be known as **AlMuhaideb National Tanks** insteayof the **National Polyethylene Company**.

We start to create departments for water solutions starting with the first factory for GRP sectional panel water tanks in Saudi Arabia and the technology of sound-proofing pipes (**silenta**) , create new Department of pumps and Filters as well as establishment of the Department of the latest waterproofing technology (**poly-urea Spray Technology**) all under (**AlMuhaideb National Water Solutions**)



Vision, Mission

Our Vision

We are committed to providing our customers with products of the highest quality that surpasses their expectations. We are focusing on having a variety of products strategically as well as various outlets to emphasize our customers satisfaction is a top priority.

رؤيتنا

نحن ملتزمون بتوفير منتجات ذات جودة عالية تلبي رغبات زبائننا الكرام وتفوق توقعاتهم، كما أننا نركز علي تنوع استراتيجي لمنتجاتنا، وعلي انتشار منافذنا مما يؤكد جدية حرصنا علي خدمة ورضا عملائنا

Our Mission

We have always been and will always be thinking of serving our customers needs and providing them with the best services, products, and solution regarding cost and quality alike. As we strive to offer the best, our growth spurs from our customer's feedback and satisfaction, along with the involvement of our resourceful employees. Our goal is to contribute activity to the growth and advancement of our society and city.

رسالتنا

تفعيل كل ما نملك من طاقة وموارد لتوفير منتجات وخدمات عالية الجودة والقيمة كحلول تريح زبائننا الكرام حاضرا ومستقبلا. نتيجة لذلك سيكون نمونا من خلال رضي عملائنا وإبداع موظفينا مما سيجعل مشاركتنا فعالة في المساهمة في إعمار وتطوير المنطقة التي نعيش فيها ونعمل



الرغبة فى النجاح
Strive to success



الإبتكار والإبداع
Innovation and creativity



الثقة
Trust



قيمنا
our values

الأمانة
Integrity



التكيف مع متطلبات السوق
accommodating the market needs



انتهج مصنع الوطني المهيدب منذ تأسيسه إلى الآن بتقديم منتجات وخدمات كحلول عالية الجودة وتوصلنا بحمد الله لذلك. وهذا تطلب منا الكثير في الاستثمار في البحث والتطوير ولكن يمكن تلخيص ذلك بثلاثة أمور أساسية وهي

ابتكر - انفراد - تجنب

فكنا وعلى مدى السنين السابقين في **ابتكار** الكثير وعلى سبيل المثال لا الحصر كنا اول من ابتكر طريقة زرع الفتحات النحاسية وغيرها من الابتكارات

أما بالنسبة **للتفرد** فتفردنا بالكثير من المزايا كالتركيبات الخاصة التي تقبل بتخزين بعض المواد العالية التعقيد والتي تكون ضمن عمليات انتاج مصنعية ضخمة وكثيرة منها ما يستخدمه الناس في حياتهم اليومية مثل المنظفات والشامبو وغيرها

وكما **تجنبنا** كل ما من شأنه أن يقلل من جودة منتجاتنا كاستخدام الحشو التجاري في التصنيع مثل بيكربونات الكالسيوم وغيرها والتي تضر بالصحة تماما

وهناك العديد من **الابتكارات والتفرد الاجتنبات** التي جعلت الأفراد والمؤسسات والوزارات والشركات ذات السمعة العالمية بجميع أشكالها من منازل ومدارس ومصانع ومحطات كيميائية ومحطات وقود وغيرها تعتبرنا الاسم الأول في مجالنا ولذلك اخترنا **صنع لأجيال** ليكون شعارنا وليكون منهجنا في القادم بإذن الله

AlMuhaideb National Tanks has been following the same high standards since it was established of providing the clients with products and solutions of the highest quality. We reached by the grace of God and by the constant effort and investment in researching and development, which can be concluded in three essential keywords, which are :

Innovation - Individuality - Precaution

We have been all over the years the first to present many **innovative ideas**, including but not limited to the way of planting copper openings along many other innovations.

As for **Individuality**, we have been known to have our special services and products . An example of that would be the special formulas that can contain various products, which are usually a part of mass production process, and results in products that people use on a daily basis such as shampoos, detergents...,etc.

As for , we have been keen on avoiding materials that would compromise the quality of our products, such as using generic filler in our products like sodium bicarbonate, which is absolutely harmful to health. There are many innovations that we created, precautions that we took and singularity in our products . That made us establish a well-known name and reputation in the market, which derived in individuals, companies , ministries , and establishment that are recognized globally to seek our services and consider us our first bet . Thus, we choose **Made for Generations** as our solgan.

منتجاتنا Our Products

AL MUHAIDEB NATIONAL
WATER SOLUTIONS



الوطني المهيدب
لحلول المياه



تحتية
المياه



فلتر



مضخات



كافة الحلول
المتعلقة بالمياه



خزانات

المميزات
Advantages

- أفضل منتجات خزانات الدفان
- ضمان 25 عام على التصنيع
- يحتوي على مقاسات تصل إلى 160 ألف لتر قطعة واحدة
- خزانات رأسية وافقية فوق وتحت الأرض
- مقاوم للطحالب والبكتريا
- قدرات ومتانة وتحمل عالية وتحمل الظروف الصعبة والعوامل الجوية
- إمكانية التخصيص وإضافة الأكسسوارات حسب الطلب من سلم وفتحات واغطية وزيادات
- يستخدم فى تخزين المياه العذبة والصرف والمواد البترولية والمواد الكيميائية المعقدة
- خزانات بمتانة عالية حيث يمكن وضعة تحت مواقف السيارات
- حاصل على شهادات الجودة من قبل هيئة المواصفات والمقاييس السعودية
- إمكانية توصيل الخزان لاي مكان بالمملكة
- سهولة الصيانة حيث أنه يحتوي على فتحة للنزول والصيانة
- لا يحتاج لعمل عزل من الداخل
- خزانات اسطوانية من قطعة واحدة تعطى متانة هندسية
- الفتحات والوصلات حسب الطلب

- Best products in Burial tanks
- 25 years manufacturing warranty.
- It contains sizes up to 160 thousand liters one piece.
- Vertical and horizontal tanks above and below ground
- Resistant to algae and bacteria
- High capabilities, durability and endurance with difficult conditions and weather factors.
- The possibility of customization and adding accessories on demand from the ladder, openings, covers and increases
- It is used to store fresh water, wastewater, petroleum products and complex chemicals.
- Tanks with high durability where they can be placed under parking lots.
- Obtaining quality certificates from the Saudi Standards and Metrology Authority
- The possibility of Transfer the tank to any place in the Kingdom
- Ease of maintenance as it contains an opening for disembarkation and maintenance.
- Does not need insulation from the inside.
- One-piece cylindrical tanks give engineering durability.
- Slots and connectors on demand





Fiberglass Vertical Tanks خزانات
فايبر جلاس رأسي



Fiberglass Horizontal Tanks خزانات
فايبر جلاس افقي

No.	السعة باللتر Capacity Liters	القطر سم Diameter cm	الطول سم length cm
1	1,000	121	106
2	2,000	121	193
3	2,500	121	236
4	3,000	121	280
5	4,000	149	196
		160	253
6	5,000	149	219
		160	311
7	6,000	160	269
		184	368
		184	318
8	7,000	184	252
		160	368
9	8,000	184	289
		200	418
		200	327
10	9,000	200	284
		184	365
11	10,000	200	316
		184	402
12	11,000	200	347
		184	440
13	12,000	200	379
		184	477
14	13,000	200	411
		244	515
		244	443

رقم No.	السعة باللتر Capacity Liters	القطر سم Diameter cm	الطول سم length cm
15	14,000	200	475
16	15,000	244	347
		200	507
17	16,000	244	368
		200	539
18	17,000	244	389
		200	570
19	18,000	244	411
		200	432
20	19,000	244	432
		200	454
21	20,000	244	454
		200	475
22	25,000	244	582
		300	412
23	30,000	244	689
		300	483
24	35,000	300	553
		244	582
25	10,000USG 37,850 lit.	300	594
		244	624
26	40,000	300	624
		244	695
27	45,000	300	766
		244	766
28	50,000	300	766
		244	766
29	60,000	350	691
		244	795
30	70,000	350	795
		244	899
31	80,000	350	899
		244	1003
32	90,000	350	1107
		244	866
33	100,000	350	866
		400	1264
34	150,000	400	1264
		400	1344
35	160,000	400	1344

No.	السعة باللتر Capacity Liters	القطر سم Diameter cm	الطول سم length cm	الارتفاع سم Height cm
1	2,000	121	197	145
2	3,000	121	284	145
3	4,000	121	371	145
4	5,000	149	258	175
5	6,000	149	458	145
		160	315	175
6	7,000	149	373	175
		160	329	188
7	8,000	160	430	175
		184	379	188
8	9,000	184	298	210
		149	487	175
9	10,000	160	428	188
		184	336	210
10	11,000	149	545	175
		160	478	188
11	12,000	184	374	210
		149	602	175
12	13,000	160	528	188
		184	416	210
13	14,000	149	659	175
		160	578	188
14	15,000	184	449	210
		200	388	230
15	16,000	149	717	175
		184	486	210
16	17,000	200	420	230
		184	524	210
17	18,000	200	452	230
		184	562	210
18	19,000	200	484	230
		184	599	210
19	20,000	200	516	230
		244	367	275
20	25,000	184	637	210
		200	547	230
21	30,000	244	388	275
		244	547	230

No.	السعة باللتر Capacity Liters	القطر سم Diameter cm	الطول سم length cm	الارتفاع سم Height cm
16	17,000	184	675	210
17	18,000	200	579	230
		244	409	275
18	19,000	184	712	210
		200	611	230
19	20,000	244	431	275
		184	750	210
20	25,000	200	643	230
		244	452	275
21	30,000	184	787	210
		200	675	230
22	35,000	244	474	275
		200	834	230
23	10,000USG 37,850 lit.	244	581	275
		300	592	330
24	40,000	244	581	275
		300	623	330
25	45,000	300	693	330
		300	764	330
26	50,000	300	906	330
		300	1047	330
27	60,000	350	793	390
		300	1118	330
28	70,000	350	845	390
		300	1189	330
29	75,000	350	897	390
		300	1316	330
30	80,000	350	1001	390
		300	1458	330
31	90,000	350	1105	390
		400	864	450
32	100,000	350	1334	390
		400	1063	450
33	125,000	350	1594	390
		400	1262	450
34	150,000	350	1698	390
		400	1341	450
35	160,000	400	1341	450

المميزات
Advantages

- يمكن استخدامة على أسطح المنازل
- خفيف الوزن ويجمع بين القوة والمتانة ومقاوم الصدمات
- متوفر بأحجام مختلفه أفقية - رأسية
- يمكن استخدامة فى تخزين المياه والمواد الكيميائية والزيوت
- يحتوى على ألوان مختلفة
- مانع للتسرب والأرتشاح ذو غطاء محكم يمنع دخول الفبار والحشرات
- يتكون الخزان من ٣ طبقات المقاسات حتى ١٠٠٠ لتر وع طبقات للمقاسات الكبيرة
- يتم استخدام أفضل أنواع المواد الخام (سابق) والمعتمدة لتخزين المياه من قبل هيئة المواصفات والمقاييس السعودية
- يمكن وضعه على الأسطح ويقاوم العوامل الجوية
- أمانية توصيل الخزان لاي مكان فى المملكة حيث نمتلك أكبر شبكة من الفروع ومدوبى المبيعات
- يمكن ألحاق به عوامة وتعطى دقة عاليه
- تتميز بسن نحاسى داخلى مغلف بالكروم
- حاصل على شهادة NSF
- حاصل على شهادة القولية
- حاصل على علامة الجودة السعودية

- It can be used on the roof of houses
- Light in weight and combines strength, durability and shock resistance
- Available in different sizes - horizontal - vertical
- It can be used to store water, chemicals and oils
- It contains different colors
- It prevents leakage and leaching and has a tight cover that prevents dust and insects from entering
- The tank consists of 3 layers, sizes up to 1000 liters, and 4 layers for large sizes
- The best types of SABIC raw materials that are approved for storing water are used by the Saudi Standards and Metrology Authority
- It can be put on surfaces and withstands weather
- We deliver the tank to any place in the Kingdom, where we have the largest network of branches and sales representatives
- It can be attached to it by a buoy and it is given high accuracy
- It is distinguished by an internal chrome-coated brass tooth
- We have NSF certificate
- We have molding certificate
- we have the Saudi Quality (SASO)



HORIZONTAL

TYPE	الرقم NO	السعة باللتر		القطر (سم)	الطول (سم) LENGTH (CM)	الارتفاع (سم)	
		CAPACITY (LITRES)				HEIGHT (CM)	H2
R O T O	1.	800 USG	3000L	146	217	146	
	2.	750 USG	-	145	225	170	
	3.	1000 USG	4000L	158	250	170	
	4.	1250 USG	-	175	264	205	
	5.	1500 USG	6000L	190	270	210	
	6.	1850 USG	7000L	200	295	225	
B L O W	7.	300L(I)		65	108	76	
	8.	600L(I)		82	143	95	
	9.	1000L(I)		105	160	115	
	10.	1500L(I)		113	185		
	11.	2000L(I)		125	198	138	
	12.	2500L(I)		151	212	155	
	13.	3000L(I)		143	225	151	
	14.	4000L(I)		158	230	172	
	15.	5000L(C)		185	283	189	

VERTICAL

TYPE	الرقم NO.	السعة باللتر		القطر (سم) DIAMETER (CM)	الارتفاع (سم) HEIGHT (CM)		
		CAPACITY (LITRES)			H1	H2	H3
R O T O	1.	-	8000L	235	235		
	2.	-	10000L	220	300		
	3.	4000 USG	15000L	310	285		
	4.	5250 USG	20000L	310	325		
	5.	-	25000L	340	345		
	6.	-	30000L	340	395		
B L O W	7.	1000L(I)		90	-		
	8.	1500L(I)		140	140		
	9.	2000L(I)		140	165		
	10.	2500L(I)		140	210		
	11.	3000L(C)		170	230		
	12.	4000L(C)		180	210		
	13.	6000L(C)		200	260		
	14.	10000L(C)		240	270		





تعريف المنتج
Product Definition

تتميز خزانات المياه القطاعي بالقوة والمتانة فهي عبارة عن الواح المقواة بالألياف الزجاجية يتم معالجتها تحت درجة حرارة عالية وضغط عالي للحفاظ على أفضل قدرة على التحمل، مع استخدام الفولاذ المقاوم للصدأ للهيكل الداخلي "إستانلس ستيل" والفولاذ للخارج، فإنه يظهر أفضل أداء ضد التآكل ونظافة ممتازة ويمنع نمو البكتيريا عن طريق عزل الضوء الخارجي يتم إغلاق الفواصل بشريط مانع للتسرب خاص تم تطويره خصيصاً لخزان المياه، يوجد عزل حراري مكون من 3 طبقات يقوم بتحسين تأثير العزل الحراري ويحمي الخزان من تكثيف قطرات الندى ويقلل من تغير درجة حرارة الماء المخزن، كما أن ثبات ألواح خزانات المياه المقطعية لا تتغير من الحالة الخارجية حيث يتم تجميعها بدقة. بالإضافة إلى أنها تصمم بمختلف الأحجام

The GRP Panel tanks are characterized by strength and durability as they are fiberglass reinforced panels that are processed under high temperature and high pressure to maintain the best endurance. With the use of stainless steel for the "stainless steel" internal structure and the steel HDG outside, it shows the best anti-corrosion performance and excellent hygiene and prevents bacteria growth by isolating the external light. The separators are closed with a special sealing strip developed specifically for the water tank, there is a 3-layer heat insulation that improves the effect of thermal insulation and protects the tank from dew drops condensation and reduces the temperature change of the stored water, and the stability of the sectional water tank panels does not change from the state External where it is carefully assembled. In addition, they are designed in

مميزات المنتج
Product Features



خفه الوزن مع القوة والمتانة ضد الصدمات الخارجيه
سهولة التنظيف ولا يضر بالصحة العامه
يمنع تسرب المياه بكفاءه عاليه

سهولة الدخول للخزان لعمل الصيانه (ضمان عشر سنوات)
عازل للحراره ومقاوم للتكثف والاشعه فوق بنفسجيه

يمكن تقسيم الخزان من الداخل الى استخدامات عديده وسهولة النقل والفك والتركيب
يمكن زيادة سعة الخزان بسهوله باضافة الواح

سطحه الداخلي يمنع التصاق العوالق والبكتيريا والمظهر الخارجي للخزان مميز
حاصل على شهادة WARS من المملكه المتحده .. والايزو 9001-14004 وعلي العديد من الشهادات العالميه
منتج معتمد لدى هيئة المواصفات القياسيه السعوديه ومورد معتمد لدى وزارة المياه والهيئه الملكيه

Light weight with strength and durability against external shocks
Ease of cleaning and does not harm public health
It prevents water leakage with high efficiency
Easy access to the reservoir for maintenance (ten years guarantee)
Heat insulator, resist to condensation and ultraviolet radiation



The inside of the tank can be divided into many uses and is easy to move, dismantle and install
The capacity of the tank can be easily increased by adding panels

Its inner surface prevents plankton and bacteria from sticking, and the tank's exterior is unique

We Have WARS certificate From the united Kingdom and ISO 9001-14004 and many international certificates

Approved product with the Saudi Standards Authority and an approved supplier with the Ministry of Water and the Royal



مضخة مايرز الأمريكية Myers American Pump

تعريف المنتج Product Definition

The pump is an American industry bearing the Myers brand (Pantiere), pumps are a hydraulic machine used to convert mechanical energy into hydraulic energy, and the pump depends on the centrifugal force generated by the rotation of the pump fan. It is one of the solutions for feeding homes with water, whether transporting water from one tank to another or direct feeding from the ground tank to the home network or for watering gardens.

المضخة صناعة أمريكية تحمل العلامة التجارية مايرز (بانتيير)، المضخات هي آلة هيدروليكية تستخدم لتحويل الطاقة الميكانيكية إلى طاقة هيدروليكية، وتعتمد المضخة في ضخ المياه على القوة الطاردة المركزية الناتجة عن دوران مروحة المضخة، وتعتبر من حلول تغذية المنازل بالمياه سواء نقل المياه من خزان الي خزان آخر أو التغذية المباشرة من الخزان الارضي لشبكة المنزل أو لري الحدائق.

مميزات المنتج Product Features

.Two-year warranty against workmanship defects,
.It has a long shelf life,
.It is characterized by ease of maintenance, disassembly and installation,
.And bear the temperature of water up to 60 degrees Celsius,
.It gives pressure (height) up to 41 meters and the rate of water flow
Up to 90 gallons per minute,
.Therefore, it is the ideal solution to feed homes and gardens with water.

الضمان لمدة سنتان ضد العيوب المصنعية،
تتميز بالعمر الافتراضي الطويل،
وتتميز بسهولة الصيانة والفك والتركيب،
وتتحمل درجة حرارة للماء حتى 60 درجة مئوية،
تعطي ضغط (ارتفاع) حتى 41 متر ومعدل تدفق المياه حتى 90 جالون بالدقيقة،
لذلك هي الحل الامثل لتغذية المنازل والحدائق بالمياه.



مضخة ترند الإيطالية Italian Trend Pump

تعريف المنتج Product Definition

The pump is an Italian industry bearing the Trend brand. The pumps are a hydraulic machine used to convert mechanical energy into hydraulic energy. The pump depends on the centrifugal force generated by the rotation of the pump fan. It is considered one of the solutions for feeding homes with water, whether transferring water from a tank to a tank, direct feeding from the ground tank to the home network, or feeding from the upper tank to the home network or for watering the gardens.

المضخة صناعة ايطالية تحمل العلامة التجارية ترند ، المضخات هي آلة هيدروليكية تستخدم لتحويل الطاقة الميكانيكية إلى طاقة هيدروليكية، وتعتمد المضخة في ضخ المياه على القوة الطاردة المركزية الناتجة عن دوران مروحة المضخة، وتعتبر من حلول تغذية المنازل بالمياه سواء نقل المياه من خزان الي خزان أو التغذية المباشرة من الخزان الارضي لشبكة المنزل أو التغذية من الخزان العلوي لشبكة المنزل أو لري الحدائق.

مميزات المنتج Product Features

.Two-year warranty against workmanship defects,
.It has a long shelf life,
.It is characterized by ease of maintenance, disassembly and installation,
.And bear the temperature of water up to 60 degrees Celsius,
.It gives pressure (height) up to 41 meters and the rate of water flow
Up to 90 gallons per minute,
.Therefore, it is the ideal solution to feed homes and gardens with water.

الضمان لمدة سنتان ضد العيوب المصنعية،
تتميز بالعمر الافتراضي الطويل،
وتتميز بسهولة الصيانة والفك والتركيب،
وتتحمل درجة حرارة للماء حتى 60 درجة مئوية،
تعطي ضغط (ارتفاع) حتى 41 متر ومعدل تدفق المياه حتى 90 جالون بالدقيقة،
لذلك هي الحل الامثل لتغذية المنازل والحدائق بالمياه.

مضخات ترند الإيطالية
Trend Pumps (Italy)



سهولة الصيانة و الفك والتثبيت
Ease of maintenance
installation and disassembling

تكلفة مناسبة وحجم صغير
Favorable price with small size

المروحة من مادة النوريل المقاومة للتآكل في الظروف العادية.
Impeller made of Noryl® abrasion-resistant for normal applications.

الجسم الخارجي محمي من المطر والغبار.
The outer body is protected from rain and dust

١ فاز - ٢٢٠ فولت - ٦٠ هرتز
1 phase 220 volt - 60 Hz

القدرات (من ١/٢ حصان حتى ١ حصان).
HORSEPOWER: Available in 1/2 thru 1 HP

قدرة على ضخ المياه حتى ارتفاع ٢٩ متر وحتى ١٢٠ لتر/دقيقة
MAXIMUM LIFT (PRESSURE) 29 M & CAPACITY 120 LPM

جسم المضخة مصنع من الحديد الزهر.
BODY CONSTRUCTION: Cast Iron.

مضخة مايرز الأمريكية
Myers Pump (U.S.A)



سهولة الصيانة و الفك والتثبيت
Ease of maintenance
installation and disassembling

عمر افتراضي طويل
Long Lifespan

لتحمل درجة حرارة للماء حتى ٦٠ درجة مئوية
High temperature endurance 60°C

المروحة من مادة النوريل المقاومة للتآكل في الظروف العادية.
Impeller made of Noryl® abrasion-resistant for normal applications.

القدرات (من ١/٢ حصان حتى ٢ ١/٢ حصان).
HORSEPOWER: Available in 1/2 thru 2 1/2 HP.

قدرة على ضخ المياه حتى ارتفاع ٤١ متر
Maximum Lift (Height): Up To 41 M

معدل تدفق حتى ٩٠ جالون / دقيقة
Flow Rate Up To 90 Gpm

جسم المضخة مصنع من الحديد الزهر.
BODY CONSTRUCTION: Cast Iron.

غطاس الخزان الترندي الإيطالي
Trend Tank Pump (Italy)



غطاسات إيطالية الصنع
Italian Made Pumps

صامت بدون صوت
Super Silent Operation

الجسم الخارجي مصنوع من الستانلس ستيل
Stainless Steel Body Construction

المراوح وغطاء المروحة مصنوع من البلاستيك
Plastic Impeller Cover Construction

القدرات من ١ حصان حتى ٢ حصان
Horsepower: 1 Hp Thru 2 Hp

قدرة على ضخ المياه حتى ارتفاع ٦٧ متر
Maximum Lift (Height): Up To 67 M

معدل تدفق حتى ٢٠٠ لتر / دقيقة
Flow Rate Up To 200 Lpm

مضخات التحضير الذاتي داب الإيطالية
DAB Pumps (Italy) JECTOM
JECTOM 82M JECTOM 92M JECTOM 132M

مضخات عالية الجودة من شركة داب العالمية
HQ pumps from global DAB company

مضخة تحضير ذاتي بقوة شفط عالية (لا حاجة لتعبئة المضخة بالمياه و تنفيس الهواء)
Self-priming centrifugal pump with excellent suction capacity (no need to refill the water and vent the air)

سهولة التركيب
Ease of installation

المروحة من تكنولوجيمر المقاومة للتآكل في الظروف العادية
Impeller made of Techno polymer abrasion-resistant for normal applications

العمود مصنع من استانلس ستيل
Shaft made of Stainless steel

جسم المضخة مصنع من تكنولوجيمر المقاومة للتآكل في الظروف العادية
Body pump made of Techno polymer abrasion-resistant for normal applications

مضخات داب الإيطالية
DAB Pumps (Italy) KPF 30-16M

مضخات عالية الجودة من شركة داب العالمية
HQ pumps from global DAB company

سهولة الصيانة و الفك والتثبيت
Ease of maintenance, installation & disassembling

تكلفة مناسبة وحجم صغير
Favorable price with small size

المروحة من النحاس
Impeller made of copper

العمود مصنع من استانلس ستيل
Shaft made of Stainless steel

جسم المضخة مصنع من الحديد الزهر
Body construction made of cast iron

الجسم الخارجي محمي من الامطار والغبار
The outer body is protected from rain and dust

الصناعة ايطالية
Made in Italy

جهاز ضغط ترند الأسباني
Trend pressure device (Spain)

يناسب المضخات حتى (١ حصان)
Suitable for the pumps up to 1 HP

يتشغل ويفصل المضخة أوتوماتيكيا عند فتح أو غلق أى نقطة من نقاط استهلاك الماء.
Turning the pump automatically on and off upon opening / closing any point of the water consumption

ضغط إعادة التشغيل ٢,٢ بار و أقصى ١٠ أمبير
Pressure of reflow 2.2 bar and 10 amp max

الجهاز مزود بترداد لمنع فقدان الضغط
The device provided with check valve to prevent pressure loss



be think innovate *is our promise to add value to our costumers and partners. **be think innovate** is our promise to ensure reliable operations. **be think innovate** is our promise to contribute to global sustainability.*



A global business

With over 17,000 employees and production of more than 16 million pump units a year, Grundfos is one of the world's leading pump manufacturers. More than 80 companies in over 55 countries help to bring pumps to every corner of the world – from supplying drinking water to Antarctic expeditions, irrigation of Dutch tulips, groundwater monitoring beneath waste heaps in Germany, to air-conditioning in Egyptian hotels.

Efficient, sustainable products

Grundfos is constantly striving to make its products more user-friendly and reliable – and also energy-saving and efficient, so that both users and the environment benefit from their improvements. Grundfos pumps are equipped with ultramodern electronics, allowing them to regulate their output according to current needs. This not only ensures convenience for the user, but also saves a great deal of energy.

Research and development

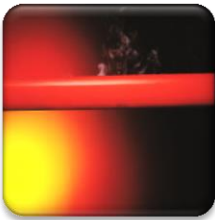
In order to maintain its leading position, Grundfos constantly places a great deal of emphasis on customer oriented research and development. Customers are consulted when new products are developed or when established products are improved.



Research and development make use of the latest technology within the pump industry, collaborating with universities and higher education institutions in search of new and better solutions for the design and function of the products.

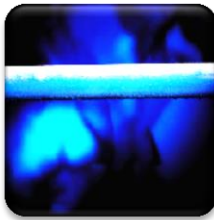
Corporate values

The Grundfos Group is based on values such as sustainability, openness, trustworthiness, responsibility, and also on partnership with clients, suppliers and the whole of society around us, with a focus on humanity that concerns our own employees as well as the many million who benefit from water that is procured, utilised and removed as wastewater with the help of Grundfos pumps.



Heating and hot water service systems

Circulator pumps for circulation of hot water in central and district systems and circulation in domestic hot water service systems.



Cooling and air-conditioning systems

Circulator pumps for circulation of cold water and other liquids in cooling and air-conditioning systems.



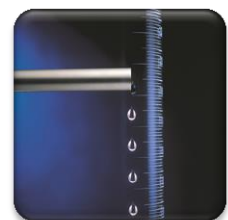
Pressure boosting and liquid transfer

Vertical and horizontal centrifugal pumps and pressure boosting systems for liquid transfer and boosting hot and cold water.



Industrial applications

A wide range of pumps for the transfer of water, cooling lubricants and other liquids in industrial and process systems.



Dosing

Dosing pumps for wastewater treatment systems, swimming pools and industry.



Domestic water supply

Submersible pumps, jet pumps, multistage centrifugal pumps and compact systems for water supply in homes, gardens and hobby applications.



Environmental applications

Purpose-built submersible pumps for remedial pumping of contaminated groundwater and for sampling for water quality analyses.



Groundwater supply

Submersible and dry installed pumps for groundwater supply, irrigation and groundwater lowering.



Renewable-energy systems

Renewable-energy based water supply systems suitable for remote locations not connected to the electricity supply grid.



Sewage and wastewater

Drainage, effluent and sewage pumps, for a wide range of applications in building services as well as transfer of raw sewage in municipal sewage systems.

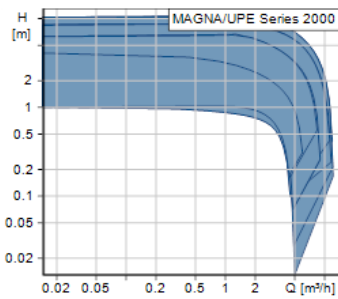


Page	Product name	Heating	Cooling	Pressure Boosting / Liquid Transfer	Industrial Application
6	Grundfos MAGNA, UPE Series 2000	●	●		
6	Grundfos UP, UP(S)-N Series 100	●	●		
6	Grundfos UPS Series 200	●	●		
7	TP	●	●	●	●
7	TPE Series 1000	●	●		●
7	TPE Series 2000	●	●		●
8	HS	●	●	●	●
8	NB, NBG(E)	●	●	●	●
8	NK, NKG(E)	●	●	●	●
9	CM, CME		●	●	●
9	SPK, CHK, MTH, CRK, MTR, MTA				●
9	CR, CRI, CRN		●	●	●
10	CRE, CRIE, CRNE		●	●	●
10	CR, CRN high pressure		●	●	●
10	CRT			●	●
11	Hydro MPC			●	
11	Hydro Multi-B E(S)			●	
11	BM, BMB			●	●
12	BME, BMET			●	●
12	Smart Digital Sets - DDA, DDC, DDE		●		●
12	DMH		●		●
13	DMX		●		●
13	Oxiperm Pro				
13	Selcoperm				
14	Euro-HYGIA				●
14	MAXA, MAXANA				●
14	SIPLA				●
15	NOVALobe				●
15	SQ, SQE				
15	SQFlex				
16	SP-A, SP, SP-G				●
16	MS Motor			●	●
16	MMS Motors				●
17	MP 1				
17	SQE-N, SP-NE				
17	MQ				
18	KP, AP, AP35B, AP50B – stainless steel				
18	DPK				
18	DWK				
19	SL1, SLV				
19	S Range				
19	KPL, KWM				
20	SRP				
20	AMD, AMG, AFG				
20	Diffusers				
21	Control MPC	●	●	●	●
21	CUE	●	●	●	●
21	CU 3, CU 300, CU 301				
21	R100	●	●	●	●
22	MP 204	●	●	●	●
22	LiqTec	●	●	●	●
22	Tanks				



GRUNDFOS MAGNA, UPE Series 2000

Circulator pumps, canned rotor type – electronically controlled



Technical Data

Flow (Q) max.	12 m ³ /h
Head (H) max.	10.5 m
Liquid temperature	2 °C to 95 °C
Operating pressure max.	10 bar

Applications

- Circulation of hot water in
- Heating systems in blocks of flats, schools, hospitals, hotels, industry etc.

Features and benefits

- Low noise level
- Low energy consumption, Energy labelling: Class A
- Wide range
- Automatic performance adjustment
- Simple installation (no extra equipment or fittings required)
- Safe selection.

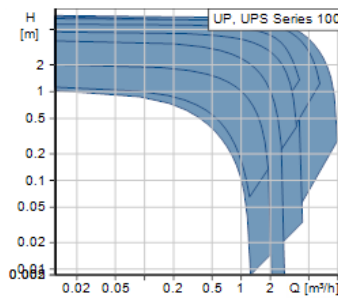
Options

- Stainless steel pump housing
- Twin-head versions
- Wireless remote control, R100
- Communication via GENIbus or LON



GRUNDFOS UP, UP(S)-N Series 100

Circulator pumps, canned-rotor type



Technical Data

Flow (Q) max.	10 m ³ /h
Head (H) max.	7 m
Liquid temperature	-25 °C to 110 °C
Operating pressure max.	10 bar

Applications

- Circulation of hot or cold water in
- Domestic hot water recirculation
 - Heating systems
 - Domestic hot water systems
 - Cooling and air-conditioning systems

Features and benefits

- Maintenance-free
- Low-noise
- Low-energy
- Wide range
- Corrosion-resistant stainless steel, brass pump housing

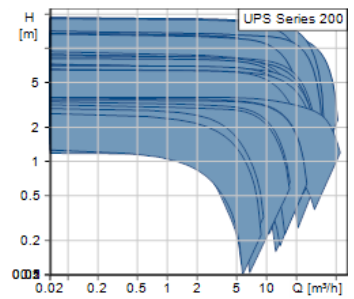
Options

- 24-hour timer



GRUNDFOS UPS Series 200

Circulator pumps, canned-rotor type



Technical Data

Flow (Q) max.	54 m ³ /h
Head (H) max.	18.5 m
Liquid temperature	-10 °C to 120 °C
Operating pressure max.	10 bar

Applications

- Circulation of hot or cold water in
- Heating systems
 - Domestic hot water systems
 - Cooling and air-conditioning systems

Features and benefits

- Maintenance-free
- Built-in thermal switch
- Low-noise
- Low-energy
- Energy labelling up to class B
- Single-phase with built-in protection module
- Wide range

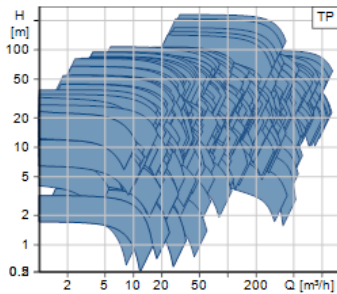
Options

- Protection module
- Relay module with fault signal or operating output
- Bronze pump housing
- Twin-head versions
- Communication via GENIbus or LON



TP

Single-stage in-line pumps



Technical Data

Flow (Q) max.	1270 m ³ /h
Head (H) max.	225 m
Liquid temperature	150 °C
Operating pressure max.	25 bar

Applications

- Circulation of hot or cold water in
- Heating systems
 - District heating plants
 - Local heating plants
 - Domestic hot water systems
 - Cooling and air-conditioning systems

Features and benefits

- Compact design
- Wide range
- Standard IE3/IE2 motor
- Service-friendly
- Various types of shaft seals depending on liquid, temperature and pressure

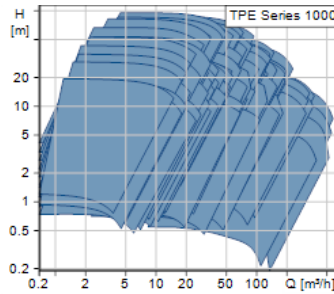
Options

- Bronze pump housing
- Bronze impeller
- Stainless steel impeller
- Twin-head versions



TPE Series 1000

Single-stage in-line pumps with MGE motor



Technical Data

Flow (Q) max.	576 m ³ /h
Head (H) max.	95.5 m
Liquid temperature	-25°C to 120°C
Operating pressure max.	16 bar

Applications

- The pumps are suitable for liquid transfer in
- District heating plants
 - Cooling and air-conditioning systems
 - Industrial plants

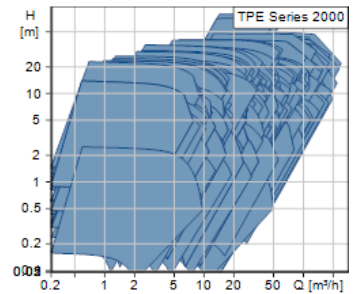
Features and benefits

- Low-energy
- Adaptation to existing operating conditions
- Simple installation
- Many control facilities
- Wireless remote control, R100
- Communication via GENIbus, BACnet MS/TP, LON, Modbus RTU or Profibus DP



TPE Series 2000

Single-stage in-line pumps with MGE motor



Technical Data

Flow (Q) max.	235 m ³ /h
Head (H) max.	42 m
Liquid temperature	-25°C to 120°C
Operating pressure max.	16 bar

Applications

- Circulation of hot or cold water in
- Heating systems
 - Domestic hot water systems
 - Cooling and air-conditioning systems

Features and benefits

- Low-energy
- Adaptation to existing operating conditions
- Simple installation

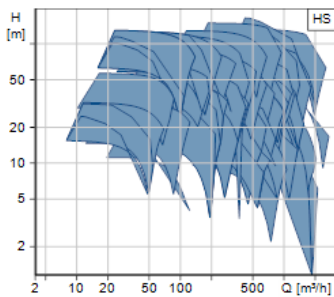
Options

- Parallel operation
- Wireless remote control, R100
- Communication via GENIbus or LON
- Twin-head versions



HS

Horizontal split case pumps



Technical Data

Flow (Q) max.	3060 m ³ /h
Head (H) max.	183 m
Liquid temperature	100°C
Operating pressure max.	16 bar

Applications

The pumps are suitable for liquid transfer in

- District heating plants
- Heating systems for blocks of flats
- Air-conditioning systems
- Cooling systems
- Washdown systems
- Other industrial systems

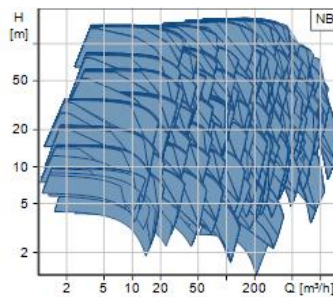
Features and benefits

- Standard dimensions according to EN / ISO standards
- Compact design
- Flexible pump range
- Standard motor
- Adaptable to any application and performance
- EN 12 756 shaft seal



NB, NBG(E)

End-suction close-coupled pumps according to EN 733 / ISO 2858



Technical Data

Flow (Q) max.	1310 m ³ /h
Head (H) max.	157 m
Liquid temperature	120°C
Operating pressure max.	16 bar

Applications

The pumps are suitable for liquid transfer in

- District heating plants
- Heating systems for blocks of flats
- Air-conditioning systems
- Cooling systems
- Washdown systems
- Other industrial systems

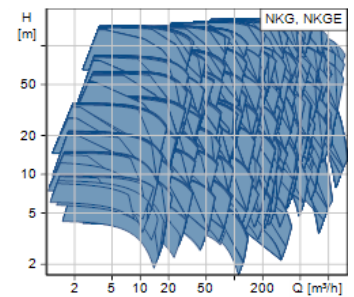
Features and benefits

- Standard dimensions according to EN / ISO standards
- Compact design
- Flexible pump range
- Standard motor
- Adaptable to any application and performance
- EN 12 756 shaft seal



NK, NKG(E)

End-suction long-coupled pumps according to EN 733 / ISO 2858



Technical Data

Flow (Q) max.	1480 m ³ /h
Head (H) max.	160 m
Liquid temperature	120°C
Operating pressure max.	16 bar

Applications

The pumps are suitable for liquid transfer in

- District heating plants
- Water supply systems
- Air-conditioning systems
- Cooling plants
- Industry
- Fire fighting systems
- Environment engineering

Features and benefits

- Standard dimensions according to EN standard
- Wide range
- Robust design
- Heavy-duty
- Flexible motor range

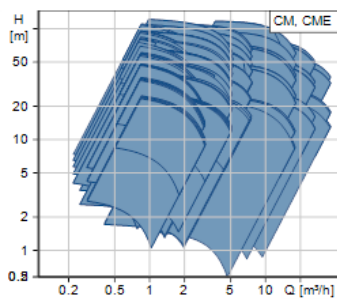
Options

- Various types of shaft seal depending on liquid, temperature and pressure
- Cast iron or bronze impeller



CM, CME

Compact horizontal end-suction pumps



Technical Data

Flow (Q) max.	35 m ³ /h
Head (H) max.	120 m
Liquid temperature	-20°C to 120°C
Operating pressure max.	16 bar

Applications

- Washing & cleaning
- Water treatment
- Temperature control
- Pressure boosting

Features and benefits

- Reliability - Peace of mind
- Compactness - Fits in everywhere
- Flexibility - Customise to the needs
- Noiseless - Out of mind

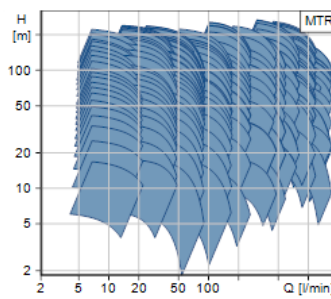
Options

- Cast iron - AISI 304(W.no 1.4301) - AISI316 (W.no 1.4401)
- All versions with integrated frequency converter CME or stand alone CM +CUE
- Connections : NPT- RP-ANSI-JIS- DIN- Vitaulic- Clamps



SPK, CHK, MTH, CRK, MTR, MTA

Multistage centrifugal immersible pumps



Technical Data

Flow (Q) max.	104 m ³ /h
Head (H) max.	267 m
Liquid temperature	-20°C to 90°C
Operating pressure max.	25 bar

Applications

- Machine tools
- Components washing machines
- Chiller units
- Industrial washing machines
- Filter and conveyor systems
- Temperature control
- Boiler feed
- General pressure boosting

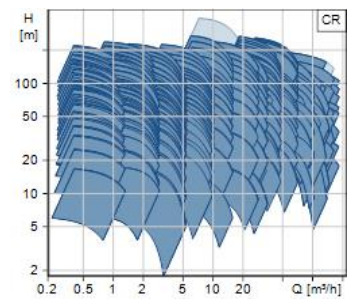
Features and benefits

- Flexible installation length
- Wide range
- Reliability
- Service-friendly
- Simple installation



CR, CRI, CRN

Vertical multistage centrifugal pumps



Technical Data

Flow (Q) max.	184 m ³ /h
Head (H) max.	267 m
Liquid temperature	-30°C to 120°C
Operating pressure max.	30 bar

Applications

The pumps are suitable for liquid transfer in

- Washing systems
- Cooling and air-conditioning systems
- Water supply systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- Boiler feeding systems

Features and benefits

- Reliability
- High efficiency
- Service-friendly
- Space-saving
- Suitable for slightly aggressive liquids

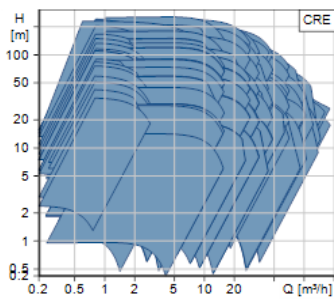
Options

- Dry-running protection and motor protection via LiqTec



CRE, CRIE, CRNE

Vertical multistage pumps with MGE motor



Technical Data

Flow (Q) max.	183 m ³ /h
Head (H) max.	271 m
Liquid temperature	120 °C
Operating pressure max.	24 bar

Applications

The pumps are suitable for liquid transfer in

- Washing systems
- Cooling and air-conditioning systems
- Water supply systems
- Water treatment systems
- Fire fighting systems
- Industrial plants
- Boiler feeding systems

Features and benefits

- Wide range
- Reliability
- In-line design
- High efficiency
- Service-friendly
- Space-saving
- Many control facilities

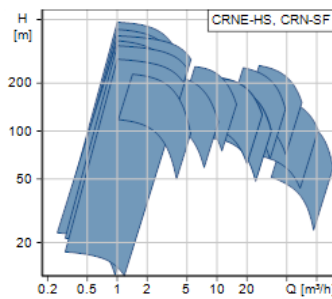
Options

- Wireless remote control, R100



CR, CRN High Pressure

Vertical multistage centrifugal pumps



Technical Data

Flow (Q) max.	146 m ³ /h
Head (H) max.	482 m
Liquid temperature	-30°C to 120°C
Operating pressure max.	50 bar

Applications

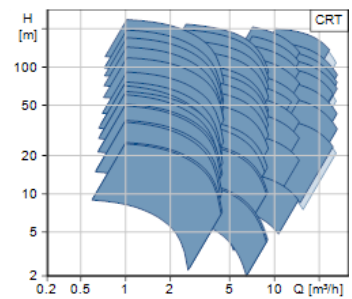
The pumps are suitable for liquid transfer in

- Washing systems
- Water treatment systems
- Industrial plants
- Boiler feeding systems



CRT

Vertical multistage centrifugal pumps



Technical Data

Flow (Q) max.	26.5 m ³ /h
Head (H) max.	236 m
Liquid temperature	-25°C to 120°C
Operating pressure max.	25 bar

Applications

The pumps are suitable for liquid transfer in

- Process water systems
- Washing in cleaning systems
- Sea water systems
- Pumping of acids and alkalis
- Ultra filtration systems
- Reverse osmosis systems
- Swimming baths

Features and benefits

- High corrosion resistance
- Reliability
- High efficiency
- Service-friendly
- Space-saving

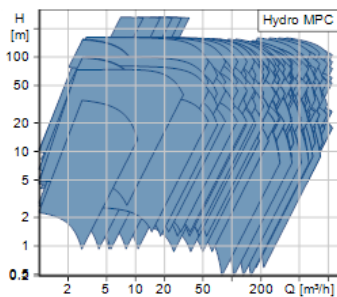
Options

- Dry-running protection and motor protection via LiqTec



Hydro MPC

Turnkey booster systems



Technical Data

Flow (Q) max.	1100 m ³ /h
Head (H) max.	162 m
Liquid temperature	5°C to 70°C
Operating pressure max.	16 bar

Applications

Hydro MPC are suitable for pressure boosting in

- Water supply
- Heating
- Air-Condition
- Water treatment

Features and benefits

- Constant pressure
- Simple installation
- Low energy
- Application optimised software

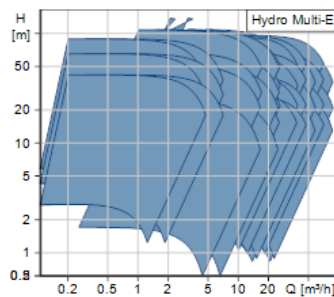
Options

- External Communication



Hydro Multi-B E(S)

Turnkey booster systems



Technical Data

Flow (Q) max.	78 m ³ /h
Head (H) max.	113 m
Liquid temperature	0°C to 60°C
Operating pressure max.	16 bar

Applications

- Offices
- Schools
- Hotels
- Apartment blocks
- Shopping centres

Features and benefits

- Constant pressure
- Simple installation
- Low-energy
- Wide range
- Small footprint
- Reliable

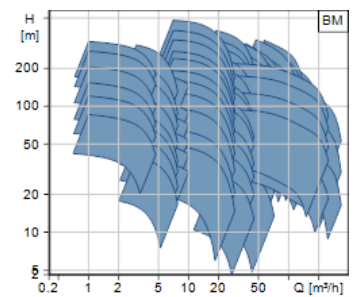
Options

- External communication, Control 2000



BM, BMB

4", 6", 8" booster modules



Technical Data

Flow (Q) max.	327 m ³ /h
Head (H) max.	390 m
Liquid temperature	40°C
Operating pressure max.	70 bar

Applications

The booster modules are suitable for pressure boosting in

- Reverse osmosis systems
- Water supply systems
- Water treatment systems
- Industrial plants

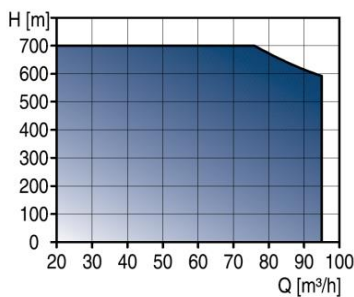
Features and benefits

- Various material versions
- Low-noise
- Simple installation
- Modular design
- Compact design
- Leakage-free



BME, BMET

Booster module with external motor



Technical Data

Flow (Q) max.	95 m³/h
Head (H) max.	700 m
Liquid temperature	40°C
Operating pressure max.	70 bar

Applications

The booster systems are suitable for pressure boosting in

- Reverse osmosis systems
- Water supply systems
- Water treatment systems
- Industrial plants

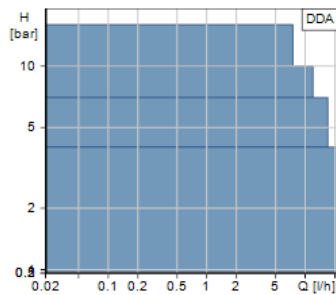
Features and benefits

- High-pressure/high-flow
- Low-energy
- Simple installation
- Compact design



SMART Digital Sets DDA, DDC, DDE

Diaphragm dosing pump with internal stepper motor drive



Technical Data

Flow (Q) max.	30 l/h
Liquid temperature	-10°C to 45°C
Operating pressure max.	16 bar

Applications

- Water and wastewater treatment
- Process water
- Food and beverage industry
- Ultrafiltration and reverse osmosis
- Pulp and paper industry

Features and benefits

- Internal stroke-speed and frequency control
- Manual, pulse and 0/4-20 mA control
- Batch, timer cycle, timer week control
- FlowControl with selective fault diagnosis, pressure monitoring
- Integrated flow measurement and AutoFlowAdapt
- 0/4-20mA and 2 relay outputs
- Auto deaeration
- Power supply 100-240 V, 50/60 Hz.

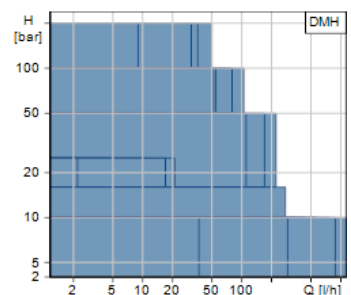
Options

- E-box for Profibus DP network.



DMH

Hydraulically driven diaphragm dosing pumps with external motor



Technical Data

Flow (Q) max.	2000 l/h
Liquid temperature	50°C
Operating pressure max.	200 bar

Applications

- Drinking water treatment
- Wastewater treatment (settlement/sludge treatment)
- Pulp/paper and textile industries

Features and benefits

- Robust design
- Stroke length adjustment
- Control options:
 - Pulse input
 - Analogue input
 - Level input from storage tank

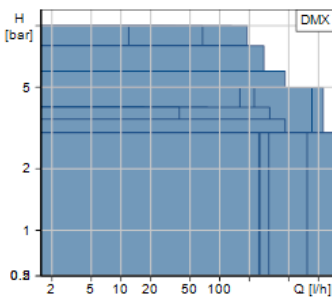
Options

- Available with API 675 approval
- Available with ATEX approval



DMX

Diaphragm dosing pumps with external motor



Technical Data

Flow (Q) max.	2000 l/h
Liquid temperature	50°C
Operating pressure max.	10 bar

Applications

- Drinking water treatment
- Wastewater treatment (settlement/sludge treatment)
- Pulp/paper and textile industries

Features and benefits

- Robust design
- Stroke length adjustment
- Control options:
 - Pulse input
 - Analogue input
 - Level input from storage tank



Oxiperm

Chlorine dioxide generating and dosing system

Technical Data

Dilute acid - chlorite generation:

Oxiperm OCD-162 5-60 g/h

Oxiperm OCD-164 30-2000 g/h

Concentrated acid - chlorite generation:

Oxiperm OCC-164 150 g/h - 10 kg/h

Chlorite - chlorine generation:

Oxiperm OCG-166 0.75 - 10 kg/h

Applications

- Disinfection in
- Water and wastewater treatment systems
 - Utility water
 - Water conditioning
 - Food and beverage processes
 - Plant processes

Features and benefits

- Safe and reliable generation of chlorine dioxide through proven methods of superior disinfection
- Easy to use controls and operations
- High efficiency generation of chlorine dioxide with a minimum of by-products
- Low chemical consumption
- Batch and continuous feed generators
- Fieldbus and alarm communication
- Generation using dilute or concentrated precursor chemicals



Selcoperm

Onsite sodium hypochlorite generators

Technical Data

Selcoperm electrolytic Cl₂ generator
125 g/h up to 2000 g/h

Applications

- Disinfection in
- Water and wastewater treatment systems
 - Groundwater supply
 - Utility water
 - Water conditioning
 - Food and beverage processes
 - Plant processes

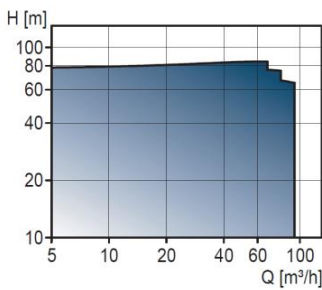
Features and benefits

- Safe and reliable generation of stable sodium hypochlorite solutions on location to minimize risks and costs
- Generation of sodium hypochlorite with salt and electricity, reducing plant operation costs
- Integrated generation system that reduces hydrogen gas exposure
- Interlocked safety devices and control systems for easy operation
- No explosion proof environments required for installation
- Durable, long-lasting equipment requiring a minimum of service



Euro-HYGIA

Single-stage end-suction sanitary pumps



Technical Data

Flow (Q) max.	95 m ³ /h (250 m ³ /h on request)
Head (H) max.	85 m
Liquid temperature	95°C (up to 150°C on request)
Operating pressure max.	16 bar

Applications

- Liquid transfer in breweries and dairies
- Mixing in soft drink applications
- Food processing plants
- Pure water systems (WFI)
- Process pumping in pharmaceutical industry
- CIP (Cleaning-In-Place) systems.

Features and benefits

- Unique hygienic design (QHD, EHEDG and 3A standards)
- CIP and SIP capable (DIN EN 12462)
- Customised solutions
- Materials: AISI 316L (DIN EN 1.4404/1.4435)
- Gentle media handling.

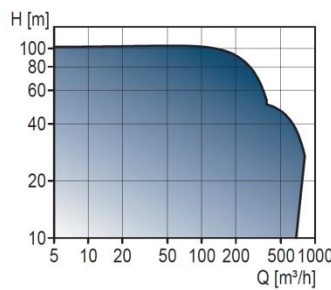
Options

- Wireless remote control, R100



MAXA, MAXANA

End-suction process pumps



Technical Data

Flow (Q) max.	800 m ³ /h
Head (H) max.	97 m
Liquid temperature	95°C (up to 150°C on request)
Operating pressure max.	10 bar

Applications

- Gentle pumping of mash and wort for beer filtration (hot side)
- Liquid transfer in dairies
- Water treatment plants
- Chemical and environmental handling systems
- Liquids with high content of solid particles.

Features and benefits

- Optimised hydraulics
- Gentle product handling
- Materials: AISI 316 (DIN EN 1.4404)
- Service and repair friendly.

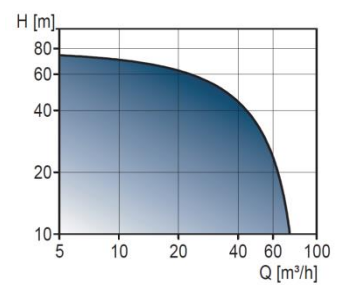
Options

- Electronically speed controlled versions
- ATEX-certified pumps
- Electro-polished versions
- Double mechanical shaft seals (tandem/back-to-back)



SIPLA

Compact horizontal end-suction pumps



Technical Data

Flow (Q) max.	55 m ³ /h
Head (H) max.	78 m
Liquid temperature	95°C
Operating pressure max.	10 bar

Applications

- CIP return pumping
- Transfer of glycerine
- Transfer of yeast
- Transfer of whey

Features and benefits

- Meets the 3A hygienic standard
- High air-content handling
- Efficient priming.

Options

- Electronically speed controlled versions
- ATEX-certified pumps
- Fully cleanable versions



NOVAlobe

Sanitary rotary lobe pumps

Pump model	Displacement litres/rev	Max. diff. pressure (bar)
NOVAlobe 10/0.06	0.06	16
NOVAlobe 20/0.12	0.12	16
NOVAlobe 30/0.33	0.33	16
NOVAlobe 40/0.65	0.65	16
NOVAlobe 50/1.29	1.29	16

Technical Data

Differential pressure	up to 16 bar
Displacement	0.06 to 1.29 l/rev
Liquid temperature	95°C
Max. viscosity	1,000,000 cP

Applications

- Dairy industry
- Food processing plants
- Soft drink applications
- Confectionary and sugar
- Pharma/personal care
- Brewery industry

Features and benefits

- Interchangeable rotor and shaft seal designs
- Various connection types
- Large shaft diameter and compact design for high differential pressure
- Standard surface finish of $R_a \leq 0.8 \mu\text{m}$ for easy cleanability
- EHEDG-certified cleanability with full drainability in vertical installation

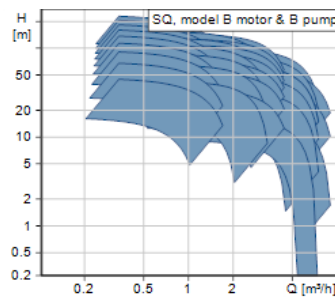
Options

- Customised shaft seal solution
- Pressure relief valve
- Thermal jacket
- Aseptic front cover



SQ, SQE

3" Submersible pumps



Technical Data

Flow (Q) max.	9 m ³ /h
Head (H) max.	230 m
Liquid temperature	0°C to 40°C
Installation depth	max. 150 m

Applications

- The pumps are suitable for
- Domestic water supply systems
 - Groundwater supply to waterworks
 - Irrigation in horticulture and agriculture
 - Groundwater lowering
 - Industrial applications

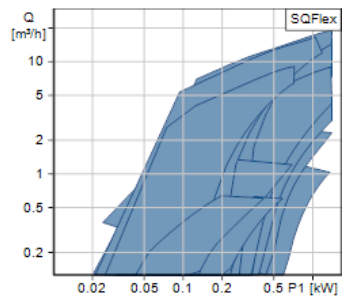
Features and benefits

- Integrated dry-running protection
- Soft start
- Over- and undervoltage protection
- High efficiency



SQFlex

Renewable-energy based water supply system



Technical Data

Flow (Q) max.	90 m ³ /day
Head (H) max.	120 m
Liquid temperature	0°C to 40°C
Voltage supply	30-300 VDC or 1x90-240 V 50 / 60 Hz
Installation depth	max. 150 m

Applications

- The SQFlex systems are suitable for remote locations, such as
- Villages, schools, hospitals, single-family houses
 - Farms and irrigation of greenhouses
 - Game parks and game farms
 - Conservation areas

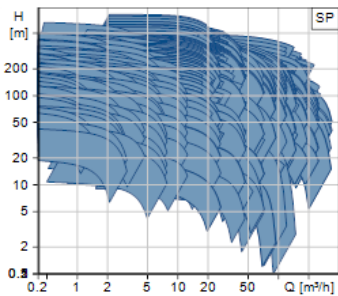
Features and benefits

- Energy supply: Solar modules, wind turbine, generator or batteries
- Simple installation
- Reliable water supply
- Virtually no maintenance
- Expansion possibilities
- Cost-efficient pumping
- Dry-running protection



SP, SP A, SP-G

4", 6", 8" 10" Submersible pumps



Technical Data

Flow (Q) max.	417 m ³ /h
Head (H) max.	800 m
Liquid temperature	60°C
Installation depth	max. 600 m

Applications

- The pumps are suitable for
 - Groundwater supply to waterworks
 - Irrigation in horticulture and agriculture
 - Groundwater lowering
 - Pressure boosting
 - Industrial applications

Features and benefits

- High efficiency
- Long service life as all components are stainless steel
- Motor protection via CU 3

Options

- Data can be monitored and controlled via CU 3/R100



MS Motor

Stainless steel 4" and 6" submersible motors

Motor sizes

- 4" motor 0.25 to 7.5 kW
- 6" motor 5.5 to 30 kW

Applications

The Grundfos MS submersible motors can be fitted on all Grundfos SP A, SP pumps and can be used in the high-pressure booster modules, type BM and BMB.

Features and benefits

- Overprotection by means of a built-in Tempcon temperature transmitter
- Standardized NEMA head and shaft end
- Completely encapsulated in stainless steel
- Liquid cooled and has liquid lubricated bearings

Options

- Material variants available



MMS Motor

Stainless steel 6", 8", and 10" rewindable submersible motors

Motor sizes

- 6" motor 3.7 to 37 kW
- 8" motor 22 to 110 kW
- 10" motor 92 to 190 kW

Applications

The Grundfos MMS submersible motors can be fitted on all Grundfos SP and SP-G pumps.

Features and benefits

- Wide range of rewindable motors
- Easily rewinded
- Protection against upthrust
- High efficiency
- 6" and 8" have standardized NEMA head and shaft end
- Mechanical shaft seal ceramic/carbon or SiC/SiC
- PVC or PE/PA windings

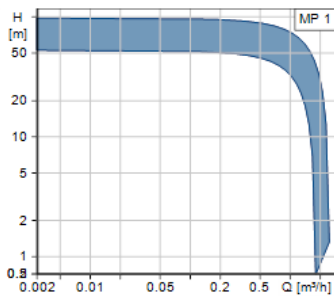
Options

- Material variants available
- Overtemperature protection via Pt100



MP 1

Environmental pump



Technical Data

Flow (Q) max. 2.45 m³/h
 Head (H) max. 98 m
 Liquid temperature 0°C to 35°C

Applications

The pumps are suitable for

- Sampling

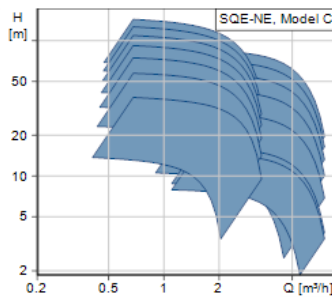
Features and benefits

- Compact design
- Fit into 50mm boreholes



SQE-NE, SP-NE

Submersible pumps for environmental use with variable speed motor



Technical Data

Flow (Q) max. 7.5 m³/h
 Head (H) max. 144 m
 Liquid temperature 0°C to 35°C
 Installation depth max. 600 m

Applications

The pumps are suitable for

- Pumping up contaminated groundwater
- Sampling
- Remedial pumping

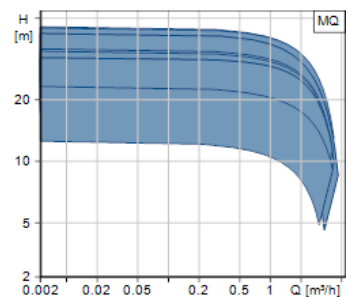
Features and benefits

- Integrated dry-running protection
- Soft start
- Over- and undervoltage protection
- High efficiency



MQ

Self-priming multistage centrifugal pumps



Technical Data

Flow (Q) max. 4.5 m³/h
 Head (H) max. 45 m
 Liquid temperature 0°C to 35°C
 Operating pressure max. 7.5 bar

Applications

The pumps are suitable for liquid transfer in

- Single- or two-family houses
- Weekend cottages
- Farms
- Greenhouses

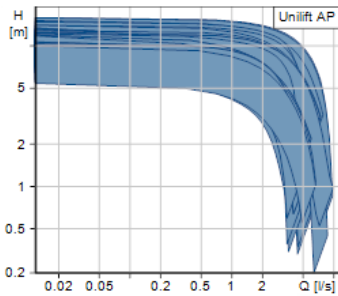
Features and benefits

- All-in-one pressure booster unit
- Easy to install
- Easy to operate
- Self-priming
- Dry-running protection with automatic reset
- Low-noise
- Maintenance-free



**KP, AP, AP35B, AP50B
– stainless steel**

Drainage, effluent and domestic sewage pumps



Technical Data

Flow (Q) max.	9 l/s
Head (H) max.	15 m
Liquid temperature	55°C
Particle size	max. ϕ 50 mm

Applications

- The pumps are suitable for
- Drainage of flooded cellars
 - Pumping of household wastewater
 - Groundwater lowering
 - Emptying of swimming-pools and excavations
 - Drainage of drain wells
 - Emptying of tanks and reservoirs

Features and benefits

- Simple installation
- Service- and maintenance-free

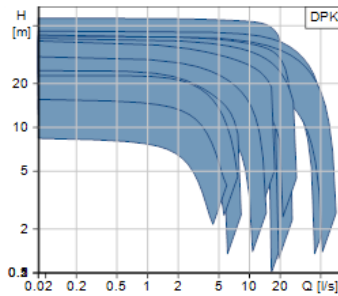
Options

- AP35 has vortex impeller
- AP50B has vortex impeller
- AP50B has auto-coupling and horizontal outlet



DPK

Drainage pumps



Technical Data

Flow (Q) max.	70 l/s
Head (H) max.	56 m
Liquid temperature	0°C to 40°C

Applications

- The pumps are suitable for draining of
- Underground building
 - Industrial pits
 - Storm water pits

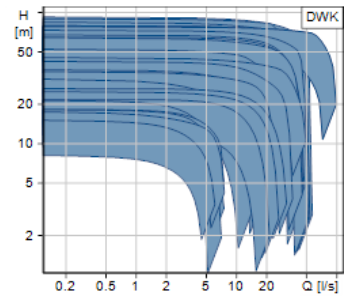
Features and benefits

- High-pressure capabilities
- Installation flexibility
- Easy to service and maintain



DWK

Dewatering pump



Technical Data

Flow (Q) max.	98 l/s
Head (H) max.	91 m
Liquid temperature	0°C to 40°C

Applications

- The pumps are suitable for draining of
- Construction sites
 - Excavation sites
 - Tunnels
 - Underground building
 - Industrial pits
 - Storm water pits

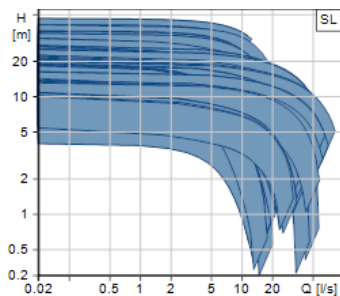
Features and benefits

- Durability
- Ductile/high-chrome impeller
- Easy to operate
- High efficiency
- Compact design
- High-pressure capabilities



SL1 / SLV

Sewage pumps



Technical Data

Flow (Q) max.	80 l/s
Head (H) max.	45 m
Liquid temperature	40°C

Applications

The SL pump is designed for the transfer of

- Drainage and surface water
- Domestic, municipal and industrial wastewater
- Process water

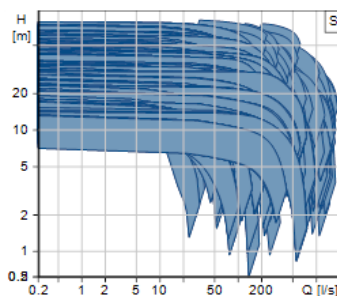
Features and benefits

- High motor efficiency.
- Intelligent adaptive controls
- Integrated analogue sensors
- Lifting handle designed for optimum point-of-balance and correct lifting.
- Patented SmartSeal auto-coupling gasket provides a completely leak-proof connection.
- Double mechanical shaft seal
- Short rotor shaft
- Choice of SuperVortex or S-tube impeller.
- Replaceable wear ring



S Range

Sewage pumps



Technical Data

Flow (Q) max.	1470 l/s
Head (H) max.	2 m
Liquid temperature	-5°C to 40 °C
Column pipe diameter	DN300, DN500, and DN800

Applications

The pumps are suitable for

- Transfer of wastewater
- Transfer of raw water
- Pumping of sludge-containing water
- Pumping of industrial effluent

Features and benefits

- Wide range
- SmartTrim
- Operation with/without cooling jacket
- Submerged or dry installation
- Different types of impellers
- Built-in motor protection
- Stainless steel versions



KPL / KWM

Axial and mixed flow pumps

Technical Data

Flow (Q) max.	11,700 l/s
Head (H) max.	40 m

Applications

The pumps are suitable for

- Flood and storm water control
- Large-volume drainage and irrigation
- Raw-water intake
- Circulation of large quantities of water
- Water-level control in coastal and low-lying areas
- Filling and emptying of dry docks and harbour installations
- Filling or emptying of reservoirs
- Treated sewage
- Cooling-water intake in power stations
- Process and discharge water
- Other low- to medium-head/high-flow applications

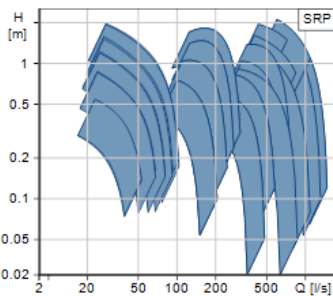
Features and benefits

- Quality products
- Robust, reliable and cost-effective
- Available in cast iron or stainless steel
- Aluminium bronze or stainless steel propeller
- High-voltage models, up to 10 kV
- Pump and motor size up to 1 MW



SRP

Submersible recirculation pumps



Technical Data

Flow (Q) max.	1880 l/s
Head (H) max.	80 m
Liquid temperature	40°C
Discharge diameter	DN 80 to DN 500
Particle size	max. ϕ 145 mm

Applications

- The pumps are suitable for
- Re-circulation of sludge within sewage treatment plants
 - Storm water pumping

Features and benefits

- High efficiency stainless steel propeller
- Totally submerged installations
- Built-in motor protection

Options

- Control and protection systems



AMD, AMG, AFG

Mixers and flowmakers

Technical Data

The mixers and flowmakers are equipped with propellers made of stainless steel or composite material with a diameter between 180 mm and 2300 mm and a rotation speed between 22 min⁻¹ and 1400 min⁻¹.

Features and benefits

- Wide range of flexible installation accessories
- Easy to maintain and service without use of special tools
- Electronic leak sensor in gearbox/shaft seal housing
- Shaft seal protected against abrasive materials
- Self-cleaning stainless steel or polyamide propellers



Diffuser

Aeration system

Applications

- Process tanks at municipal or industrial wastewater treatment plant
- SBR or MBR systems
- Stabilisation and equalisation tanks
- Aerobic digestion
- Grit and grease removal
- Flotation

Features and benefits

- Complete systems designed specifically to meet process oxygen demands
- Possibility for high diffuser density to give maximum oxygen transfer efficiency
- Custom-made solutions available as fixed or retractable systems
 - Retractable system – for easy maintenance
 - Fixed system – cost-effective in large systems
- Different materials are used for membranes, pipes and supports, according to system operating conditions
- Pre-assembled air distribution systems with one-bolt connections minimise construction time on site
- Mechanically-connected air distribution piping with sliding allows for expansion and contraction due to temperature variations
- Fully adjustable piping supports in stainless steel for flexibility in installation
- Automatic or manual purge systems reduce friction losses in air distribution piping
- Broad range of fine, medium or coarse bubble diffusers in both disc and tubular designs
- Pre-assembled diffuser units minimise installation time and eliminate incorrect assembly on site
- Flexible membranes ensure uniform air distribution over the entire surface across a wide range of air flow rates.



Control MPC

Pump controller

Technical Data

Grundfos Control MPC is a control cabinet with a CU 352 controller that permits monitoring and control of up to six identical pumps connected in parallel.

Control MPC supports communication with monitoring equipment or other external units via a number of different fieldbus protocols:

- Ethernet (VNC server is standard in Control MPC)
- PROFIBUS via CIM modules
- LON via CIM modules
- Modbus via CIM modules
- GSM and GPRS via CIUMmodules
- PLC via IO 351B modules

Features and benefits

- Efficient cascade control
- Larger color screen
- Setpoint influence
- Individual pump control
- Alternative setpoints
- Clock program
- Proportional pressure regulation
- Alternation
- Standby pumps
- Pump test run
- Pilot pumps
- Stop at low flow function
- Soft pressure build-up function (minimises risk of water hammer)
- Emergency run
- Flow estimation
- Dry running protection
- Log function



CUE

Frequency converter

Applications

The CUE provides a series of predefined functions which make the converters easy to use in almost all application areas.

Predefined control modes available such as

- Constant pressure
- Proportional pressure
- Constant level
- Constant flow

CUE offers the following inputs and output:

- RS-485 GENIBus
- an analog 0-10 V input for external setpoint
- an analog 0/4-20 mA input for sensor
- four digital inputs for various functions, for instance external start/stop
- two signal relays (C/NO/NC)

Features and benefits

- Speed control of pumps up to 250 kW
- Simple set-up
- Predefined control modes
- Predefined range of sensors
- Predefined pump family data
- Shares interface with control equipment
- Additional functions available
- Automatic setting of direction of rotation
- 16 steps to get a system up and running

Options

- Input/output add-on board
- Provides additional input:
 - one 0/4-20 mA analog input for an additional sensor
 - one 0-20 mA analog output
 - two inputs for Pt100/Pt1000 temperature sensors, for instance for bearing monitoring.



CU 3, CU 300, CU 301

Control and monitoring unit

Applications

- Monitoring and protection of pumps installations

Features and benefits

- Protection against dry running and too high motor temperature
- Constant monitoring of pump energy consumption
- Reading out of operating data via R100

Options

- Connection to large control systems via bus-communication
- Connection of sensors enabling control based on sensor signal

R 100

Wireless remote control

Application

- All pumps and electronics designed for wireless communications

Features and benefits

- Simple and quick installation and configuration
- of the pump controls
- Read out of various operating and fault signals
- Troubleshooting
- Print out of status information



MP 204

Control and monitoring unit

Technical Data

Approvals on nameplate	UL, IEC, EN, CE
Ambient temperature	-20°C to 60°C
Rated current	3 to 120 A
Mains frequency	60Hz
Rated voltage	1/3 x 100-480V
Enclosure class (IEC 34-5)	20

Applications

- Monitoring and protection of pump installations

Features and benefits

- Protection against dry running
- Protection against too high motor temperature
- Protection against overload
- Protection against overvoltage and undervoltage,
- Protection against current and phase imbalance
- Constant monitoring of power consumption



LiqTec

Control and monitoring unit

Technical Data

Approvals on nameplate	CU, CUL
Ambient temperature max.	55°C
Liquid temperature max.	120°C
Operating pressure max.	40 bar
Mains frequency	60Hz
Rated voltage	80-130V
Enclosure class (IEC 34-5)	IP X0

Applications

- Monitoring and protection of pumps and processes

Features and benefits

- Protection against dry running
- Protection against liquid temperatures exceeding 130°C ±5°C
- Protection against too high motor temperatures
- Manual or automatic restarting possible from a remote PC
- Simple installation - plug and play technology
- If the sensor, sensor cable, electronic unit or power supply fails, the pump stops immediately



Tanks

Diaphragm and bladder tanks

Technical Data

Tank size	8-3000 l
Liquid temperature	max. 99°C
Operating pressure max.	16 bar

Applications

The diaphragm and bladder tanks are used in

- Water supply systems in housing
- Pressure boosting systems in housing
- Agriculture
- Horticulture
- Industrial systems

Features and benefits

- Optimal water supply
- Reduced number of pump starts
- Ideal for drinking water

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Looking ahead,
going beyond expectations
Ahead > Beyond



EVMS 1-90 - Vertical Multistage pumps

Product Catalogue





www.ebara-europe.com

Looking ahead,
going beyond expectations
Ahead  *Beyond*

Built like a Katana

A Katana is a Japanese product, it's made with a traditional know-how started in 300 a.C.. Katana is manufactured with care and precision of details. Only years of experience can give the necessary capacity to build a masterpiece.

This is what we do with our pumps. Our 100 years of Japanese experience in pumps manufacturing are the base to project and realize pumps with high quality performance, reliability and cutting-edge mechanical parts.

We look forward not forgetting the past.

EBARA new vertical multistage pumps named "EVMS" are manufactured with the highest standards of quality, to achieve reliable operating performance by means of strict technical evaluation criteria and control programs that involve the whole manufacturing process.

We listen to the market. Our design is unique. EVMS can offer the exceptional values through the cutting-edge solutions that best suits your needs.







Innovative hydraulic solutions

Any motor, anywhere.

- **Commercial motors** can be fitted to all of the pump models without any modifications thanks to low pump axial thrust load
- **Long life of the motor bearing**
- **High pump efficiency** classified in MEI > 0.7 as the most efficient models
- **Patent Pending**

Smart plug solutions



Air ventilation plug



Water filling & sensor plug



Commercial sensor fitting



Measurements for suction and discharge pressure / drain



Two priming plugs are on both sides of motor brackets **for EVMS32-90**. A ventilation plug is integrated with one priming plug



Stainless steel tie rods

Tie rods in EN 1.4057 (AISI 431) as standard.



Piping connection options

- The various pipe connections are available depending on the application requirements
- The external dimensions can be adjusted to the replacement of the existing pump in the wide majority

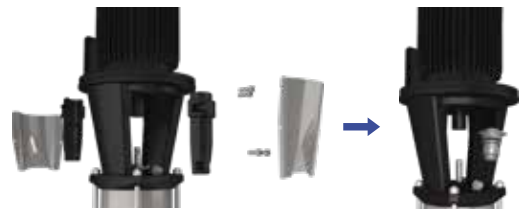
Material	Round flange DIN <small>(incl. ANSI depending on models)</small>	Loose Flange DIN <small>(incl. ANSI depending on models)</small>	Oval Flange	Victaulic®	Clamp
AISI304/ AISI316L					
ASTM CF8/ ASTM CF8M					
Cast Iron					

Shaft seal solutions

- **Shaft seal material:**

- B: Resin impregnated carbon graphite
- Q: Sintered silicon carbide
- Q_g: Silicon carbide with carbon graphite
- Carbon or graphite inclusions with silicon carbide can be used as **dry lubricant to reduce friction.**

- It's conforming to EN12756 (ex DIN 24960)



Easy maintenance

- **The cartridge shaft seal enables the plug in replacement** of the shaft seal without disassembling the motor bracket
- **The spacer coupling** allows easy maintenance without having to remove heavy motors over 5.5 kW.



ETM
M O T O R S

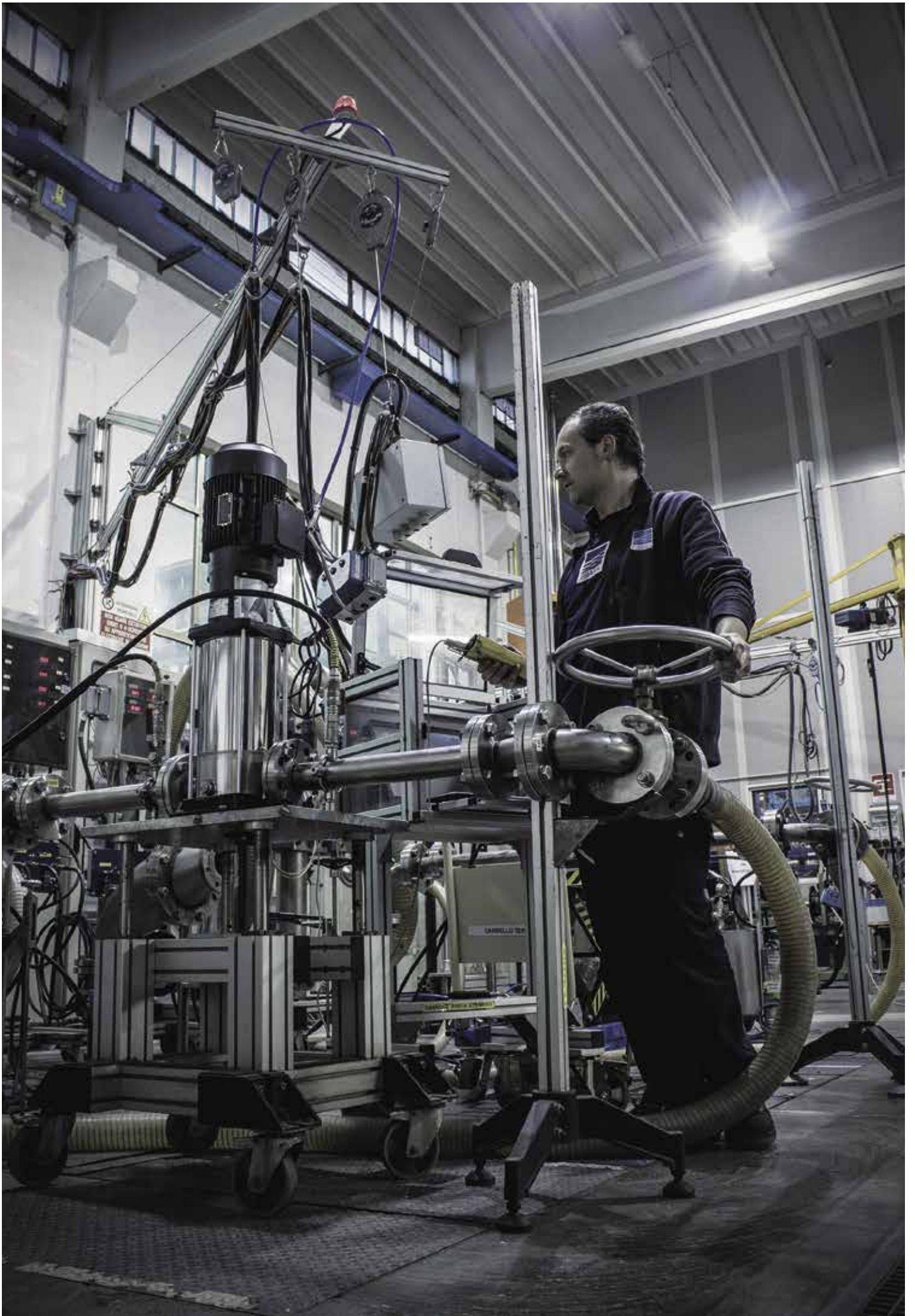


EBARA standard motor solutions

- IE3 efficiency for both 50 and 60 Hz* operation, according IEC 60034-30 standard.
 - ETM motors are available from 0.75 up to 11 kW for both 50 and 60 Hz**
- PTC sensors (thermistors) are standard from 1.5 kW upwards for motor protection at 150°C
- Unloosable screws and sealing are standard for terminal box fixing from 0.75 kW upwards
 - Stable inverter mounting on fan covers made of pressed steel

* IE3 for 60Hz is depending on motor size and voltage.

** All other sizes including single phase motors are available with commercial IEC standard motors



Reliability is made by numbers



Cycles of the endurance test*



Higher test criteria than nominal operating conditions*

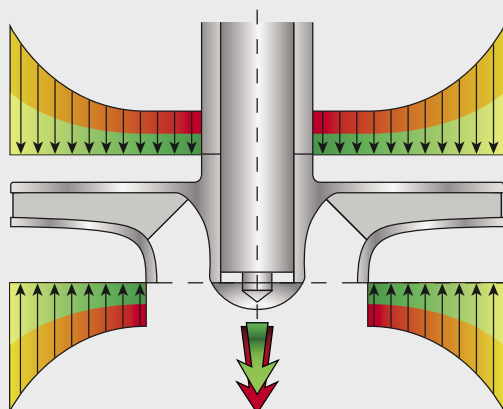


Much less axial thrust load than common pumps



* for main components

Solve axial thrust load



Shurrricane impeller



Normal impeller

The pump axial thrust load is caused by the unbalance of the static pressure between a front shroud and a back shroud of an impeller. That always causes **the reduction of the bearing life of the motor.**

General methods to work with the axial thrust load are as below.

- Increasing the size of motor bearing or using enhanced motor bearings.
- Mounting additional ball bearings on the pump bracket. These measurements are historically known to cause complicated mechanical structures.

EBARA new designed impeller "Shurrricane" can reduce the pump axial thrust load with high pump efficiency by means of the innovative hydraulic design method.

EVMS can accept the commercial motors without any modifications and improve the maintenance cycles of motor bearing.

Any motor, anywhere.



Fields of applications



INDUSTRY

- **Water treatment**
 - Reverse osmosis
 - Ultra-filtration
 - Water purification
 - Micro-filtration
 - Softening, ionizing, and demineralising systems
 - Swimming pools
 - Separators
- **Boiler feeding**
 - Steam systems
 - Condensate systems
- **Wash and clean**
 - Vehicle washing systems
 - Industrial part washing
 - Laundry systems
 - Supply of liquids with acids and bases
 - Supply of chemical liquids
- **Chilling**
 - Handling of refrigerants for cooling
 - Thermal control systems
 - Industrial cooling
 - Laser cooling
- **Machine tooling**
 - Cooling lubricant supply for tooling machines
- **Pressure boosting**
 - Pressure boosting for industrial use
- **Food & beverage**
 - Food washing systems
 - Bottle wash systems
- **Pharmaceutical industries**
- **Marine applications**
 - Freshwater, deckwash, high fog and fire fighting on ships



BUILDING SERVICE

- **Pressure boosting**
 - Pressure boosting for buildings
 - Pressure boosting for high rise buildings/hotels
- **Sprinkler systems**
- **Fire fighting systems**
 - Jockey pump
- **District heating**
- **Heat exchangers / fan heaters**
- **Air conditioning systems**
- **Heating systems**



WATER SUPPLY

- **Water treatment**
 - Water treatment plants filtration
 - Water treatment plants transfer
- **Pressure boosting**
 - Transfer from water treatment plants (mains)
- **Irrigation**
 - Golf course / sport fields irrigation
- **Agriculture**
 - Sprinkler irrigation
 - Drip irrigation



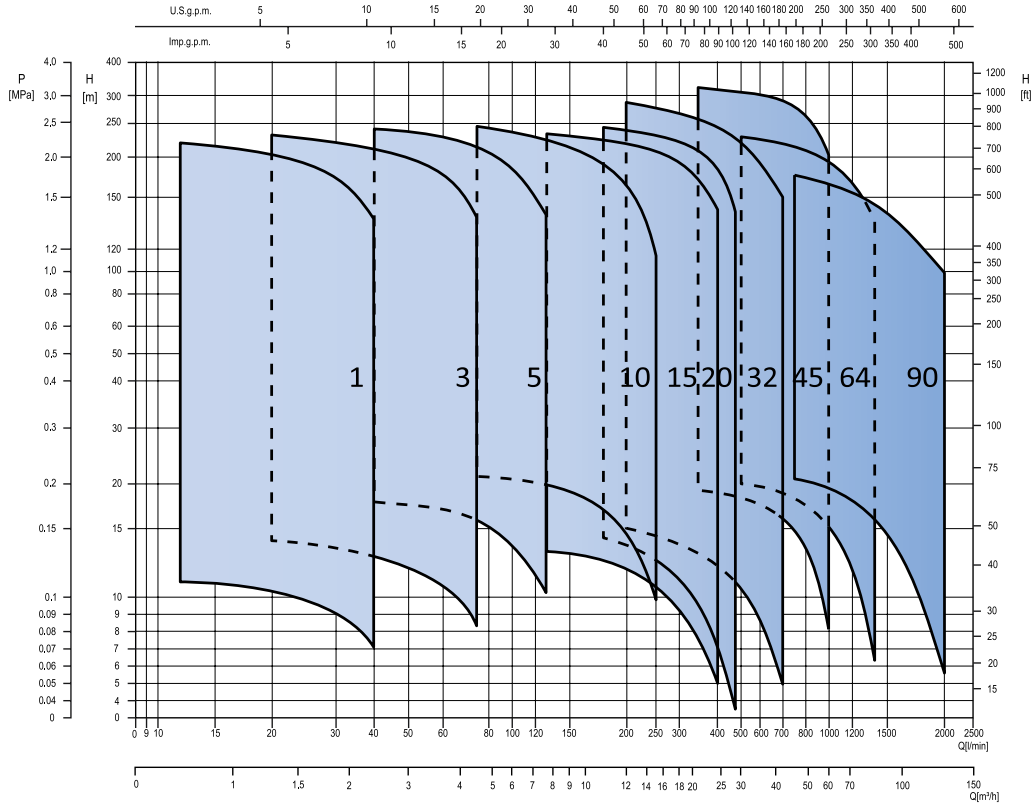
EBARA worldwide service points



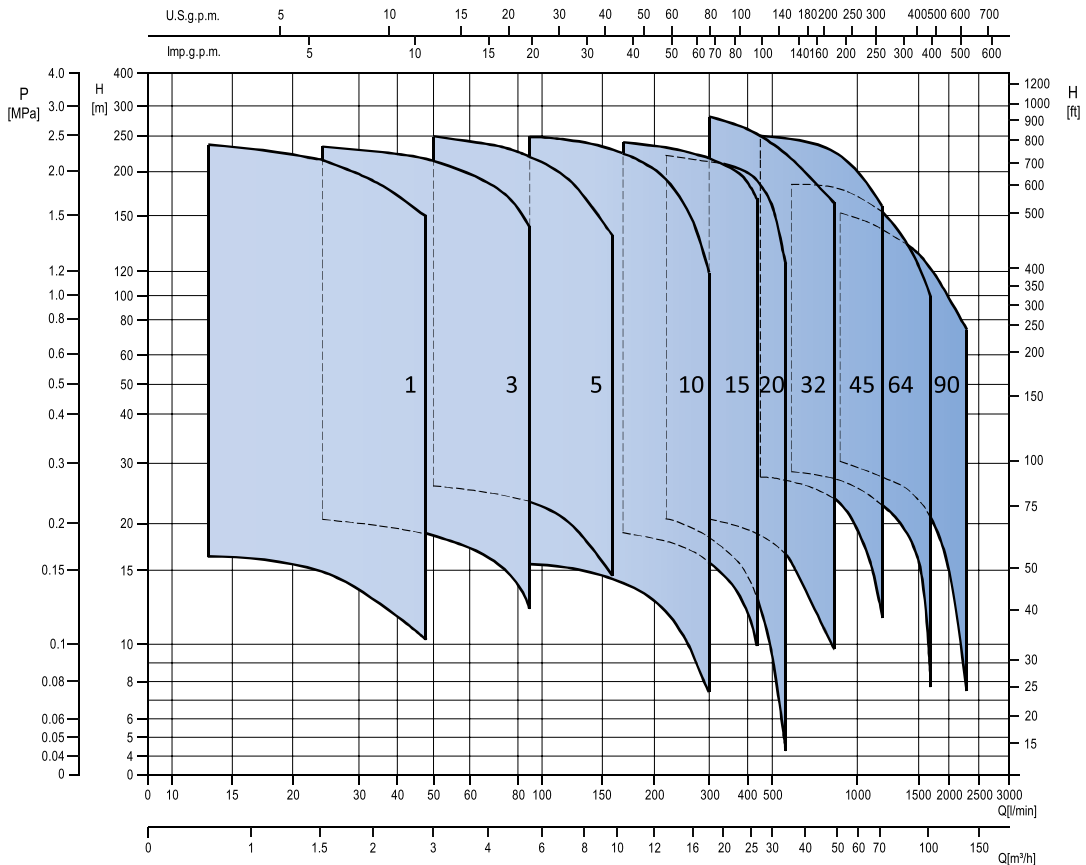
please see the contact list on page 17

Performance Range

50Hz



60Hz



General information



Minimum efficiency index (MEI)

Pump type	MEI
EVMS(.)1	> 0.70
EVMS(.)3	> 0.70
EVMS(.)5	> 0.70
EVMS(.)10	> 0.70
EVMS(.)15	> 0.70
EVMS(.)20	> 0.70
EVMS(.)32	> 0.70
EVMS(.)45	> 0.70
EVMS(.)64	> 0.70
EVMS(.)90	> 0.70

Version		EVMS (AISI 304), EVMSL(AISI 316L), EVMSG (Cast Iron/AISI 304)			
Operating range	Nominal flow rate	1, 3, 5, 10, 15, 20, 32, 45, 64, 90 m³/h			
	Max working pressure	1.6, 2.5, 3.0, 3.5 MPa (16, 25, 30, 35 bar)			
	Max liquid temperature range	-30°C to 140°C			
Power source	Frequency	50 Hz		60 Hz	
	Phase	Single phase	Three phase	Three phase	
	Nominal rotation speed	~ 2900 min ⁻¹		~ 3500 min ⁻¹	
	Power rating	0.37 ÷ 2.2 kW	0.37 ÷ 45 kW	0.37 ÷ 45 kW	
	Voltage	230V±10%	230/400V±10% (up to 4kW) 400/690V±10% (above 5.5kW)	460V±10% (up to 4kW) 220/380V+10%/-5% (up to 4kW)	460V±10% (above 5.5kW) 380/660V+10%/-5% (above 5.5kW)
Motor type	Type	Electric - TEFC			
	Efficiency class	-	IE3 (above 0.75 kW)	IE2/IE3 (above 0.75 kW)	
	N° of poles	2			
	Protection degree	IP55 (up to 11kW), IP56 (above 15kW)			
	Insulation class	F	F (temperature rise class B)		
	Thermal protection	-	PTC as standard for the above 1.5 kW		
	Flange mount (IEC motor)	IM B14 (up to 4 kW), IM B5 (above 5.5 kW)			

Mechanical seal	Drinking water approval					Atmosferes explosibles approval*
	DM174/2004	ACS	DVGW**	WRAS*	PZH	ATEX 2014/34/UE
EVMSG	●	-	-	-	●	●
EVMS	●	●	●	●	●	●
EVMSL	●	●	●	●	●	●

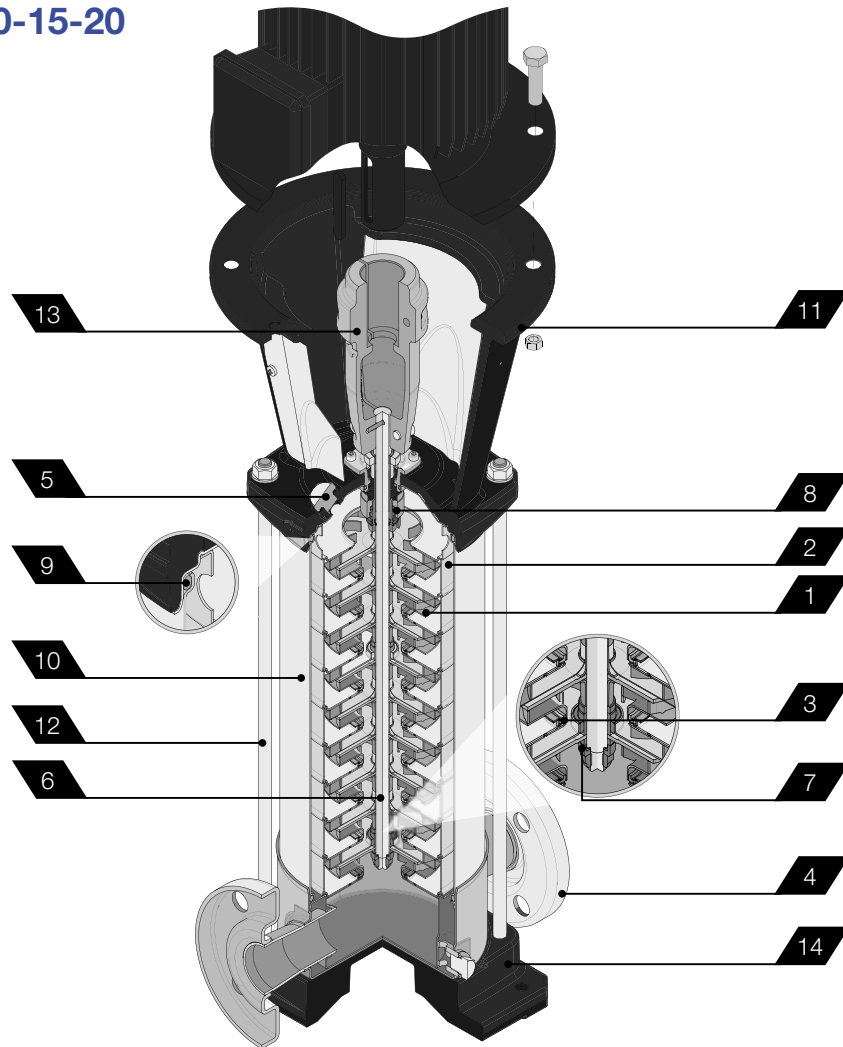
Note: * Available only for EVMS 1-20

** DVGW W270 is certified for elastomers. Reg. Nr. DW-5253CR0217
KTW is certified for organic components.

● Available

Construction

EVMS 1-3-5-10-15-20

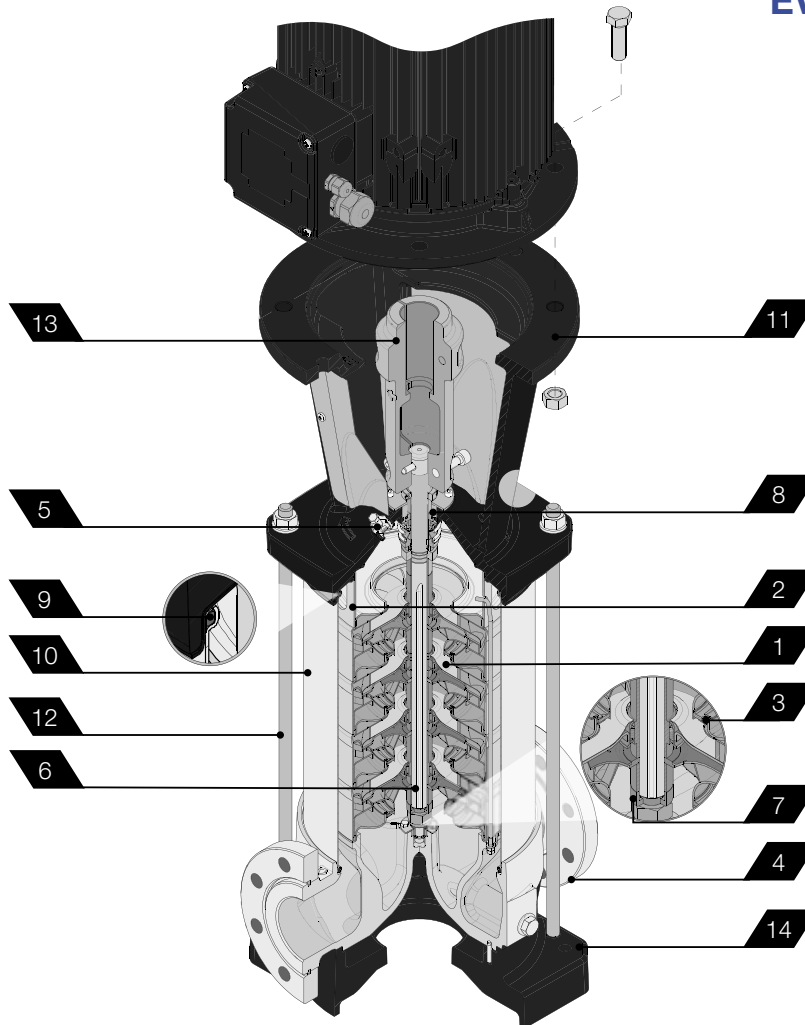


Version		EVMSG	EVMS	EVMSL	
Key Components Materials	1. Impeller	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	2. Intermediate casing	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	3. Liner ring	EN 1.4301 (AISI 304) + PPS		EN 1.4404 (AISI 316L) + PPS	
	4. Bottom casing	Cast iron ENGJL-250 EN1551	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	
	5. Casing cover	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	6. Shaft	EN 1.4301 (AISI 304)	EVMSG(G) 1-3-10 EVMSG 5-15-20 (depend on models)		
		EN 1.4404 (AISI 316L)	EVMSL 1-3-10 EVMSL 5-15-20 (depend on models)		
		EN 1.4460 (AISI 329A)	EVMSG(G)(L) 5-15-20 (depend on models)		
	7. Shaft sleeve bearing	Tungsten carbide			
	8. Shaft seal	SiC/Carbon/EPDM or FPM SiC graphite/SiC/EPDM or FPM			
	9. O ring	EPDM	●	●	●
		FPM	●	●	●
	10. Outer casing	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	11. Motor bracket	Cast iron ENGJL-200 EN1561			
12. Tie rod	EN 1.4057 (AISI 431)				
13. Coupling	up to 4 kW from 5.5 kW	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)			
14. Base	Cast iron ENGJL-250 EN1551	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)			
Pipe Connection	Oval flange	up to 16 bar	●	●	
	Round flange DIN	up to 16 bar	●	●	
	(EVMS(L)1-3-5 DIN/ANSI)	from 16 bar to 25 bar	●	●	
	Loose Flange DIN	up to 16 bar	●	●	
	(EVMS(L)1-3-5 DIN/ANSI)	from 16 bar to 25 bar	●	●	
Victaulic®	up to 25 bar	●	●	●	
Clamp	up to 25 bar	●	●	●	

Legend: ● Available

Construction

EVMS 32-45-64-90



Version		EVMSG	EVMS	EVMSL	
Key Components Materials	1. Impeller	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	2. Intermediate casing	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	3. Liner ring	EN 1.4301 (AISI 304) + PPS		EN 1.4404 (AISI 316L) + PPS	
	4. Bottom casing	Cast Iron EN GJL-250 EN 1561 (for EVMSG32 and EVMSG45-90 up to 16 bar) Cast Iron EN GJS 400-15 EN 1563 (for EVMSG45-90 above 16 bar)	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)	
	5. Casing cover	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	6. Shaft	EN 1.4301 (AISI 304)	EVMSG / EVMS 32-45-64-90 (depend on models)		
		EN 1.4404 (AISI 316L)	EVMSL 32-45-64 (depend on models)		
		EN 1.4460 (AISI 329A)	EVMSG / EVMS / EVMSL 45-64-90 (depend on models)		
	7. Shaft sleeve bearing	Tungsten carbide			
	8. Shaft seal	SiC/Carbon/EPDM or FPM SiC graphite/SiC/EPDM or FPM			
	9. O ring	EPDM	●	●	●
		FPM	●	●	●
	10. Outer casing	EN 1.4301 (AISI 304)		EN 1.4404 (AISI 316L)	
	11. Motor bracket	Cast Iron EN GJS 400-15 EN 1563			
12. Tie rod	EN 1.4057 (AISI 431)				
13. Coupling	up to 4.0 kW	Die cast Aluminium EN AB-AISI11 Cu2 (Fe)			
	from 5.5 kW to 30 kW above 37 kW	Cast Iron EN GJL250 EN 1561			
14. Base	Carbon steel				
	Cast iron EN GJL200 EN 1561				
Pipe connection	Round flange DIN/ANSI	●			
	Loose flange DIN/ANSI		●	●	

Legend: ● Available

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Data book

The complete technical documentation where find all pumps data



Instruction Manual

The technical manual where find all information to install our pumps properly



Kensaku

The system to select the spare parts



Ez-finder

The software to find and select the suitable pump for any requirement
<https://ezfinder.ebara.com>



Service

An expert team at disposal to suggest the right product and supporting for aftersales matters

EBARA Pumps Network

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Looking ahead,
going beyond expectations
Ahead > Beyond



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Japanese Technology since 1912

Submersible electric Pumps

60Hz Product Catalogue





Japanese Technology since 1912

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We have simply thought of everything

Our range of submersed pumps has been designed to meet all needs related to the pumping, treatment and movement of waste waters and clear waters, and in all situations in which the water used contains solid residues.

The different types of submersed pumps, linked to the wide range of accessories available, ensure high performance and versatility of use.

The emptying of wells, garages and cellars or the lifting of rain/waste waters, industrial applications and irrigation of gardens and orchards require different technical and construction characteristics.

Our submersed pumps offer the most suitable technical solutions for different needs ensuring the best possible performance for the specific application and ensuring high reliability of operation.

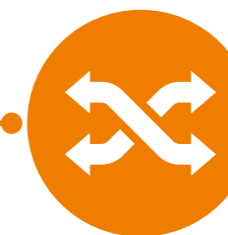
The flexibility and manageability of the smaller models allows their use in fixed or mobile applications.

The vortex impellers, single or semi-open, those equipped with a cutter and those with a grinder-type shredder allows the treatment black water with the presence of solid or filamentous substances.

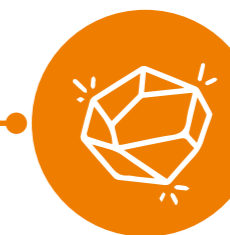
The accessories available for the different models, such as the magnetic float for clear water or the minimum suction device up to 3 mm allow completion of the functions of the pumps increasingly adapting to the demands of different uses.



RELIABILITY



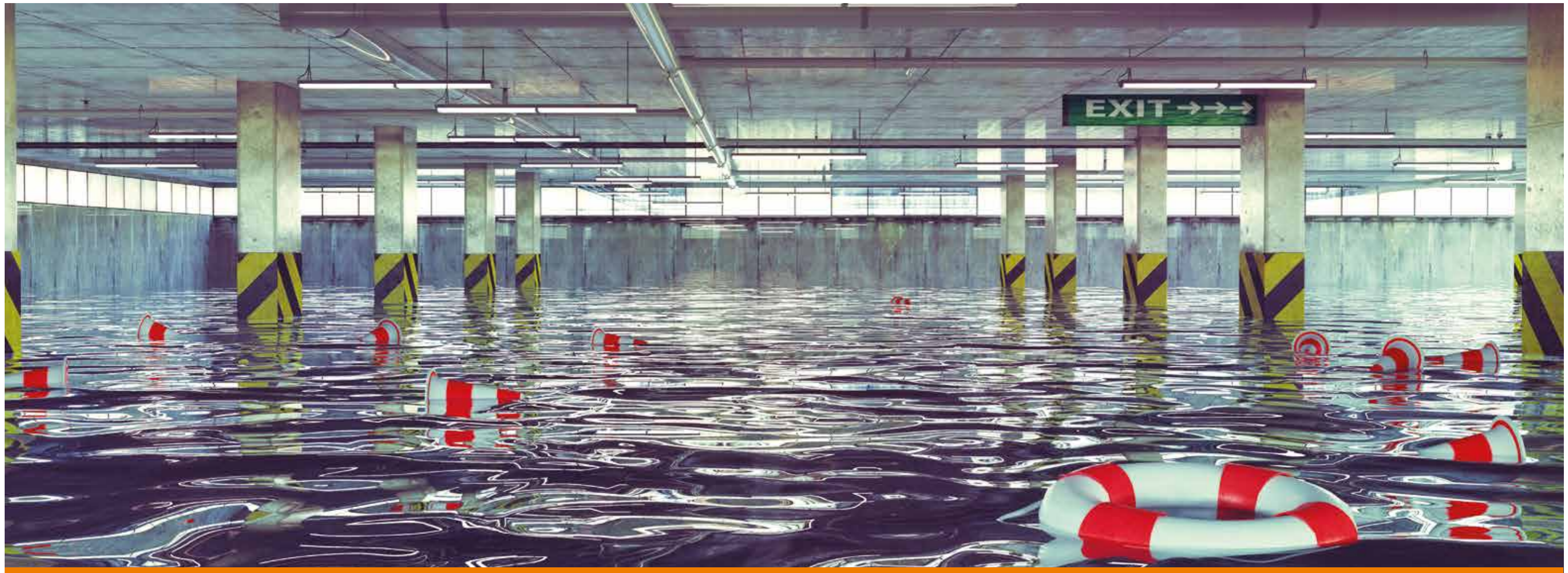
VERSATILITY AND FLEXIBILITY



FREE PASSAGE OF SOLIDS



HIGH EFFICIENCY

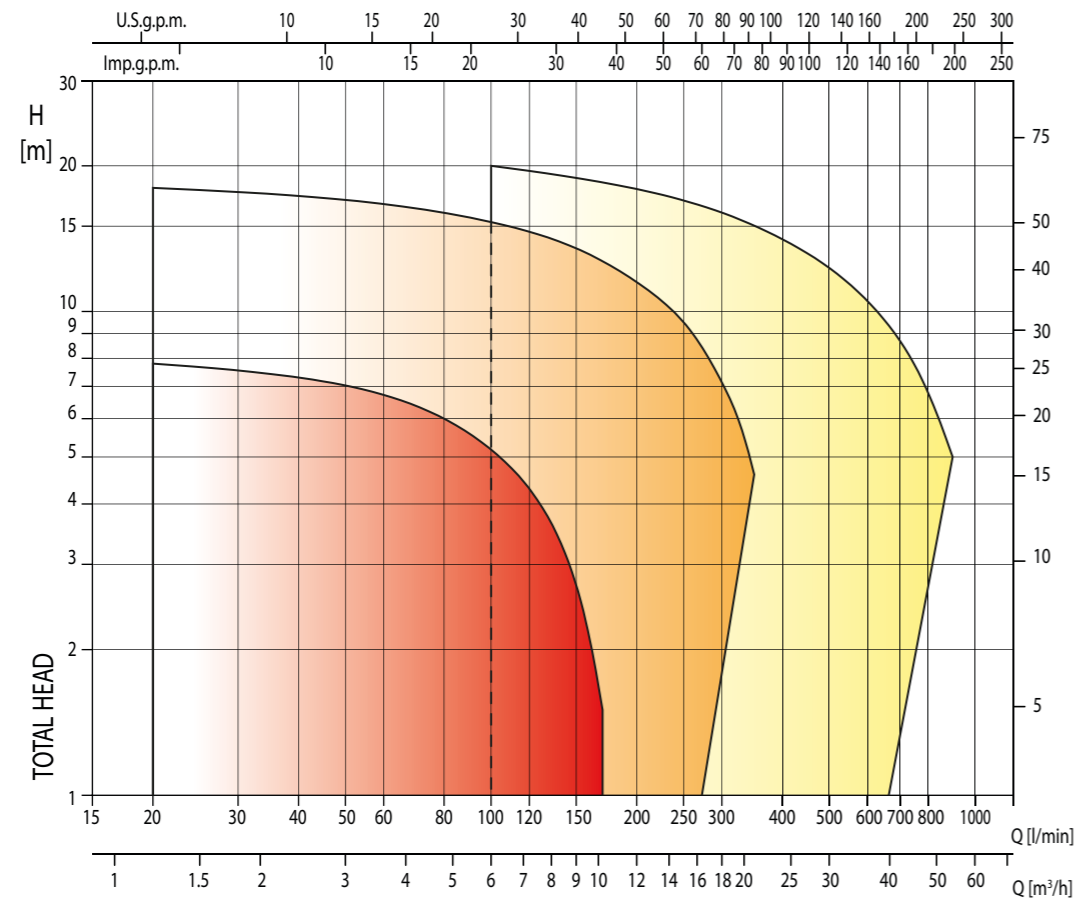


Sectors and Areas of Application

- **Emptying of wells, garages and cellars**
For the emptying of domestic premises subject to flooding or water infiltrations.
- **Emptying of tanks and cisterns**
For aspiration from water recovery systems
- **Handling of load liquids of solid or filamentous substances in suspension**
For the drainage of sludge with solid or filamentous particles
- **Civil and industrial waste water evacuation**
For the drainage of discharges of residential or industrial uses
- **Drainage of sublevel areas**
For the extraction of water from lower level areas
- **Emptying of cesspools**
For the emptying residential and industrial sewage systems
- **The lifting of rainwater**
For movement of the water contained in rainwater recovery tanks
- **Irrigation of gardens and vegetable gardens**
For gardening and small-scale agriculture



Technology, performance, quality

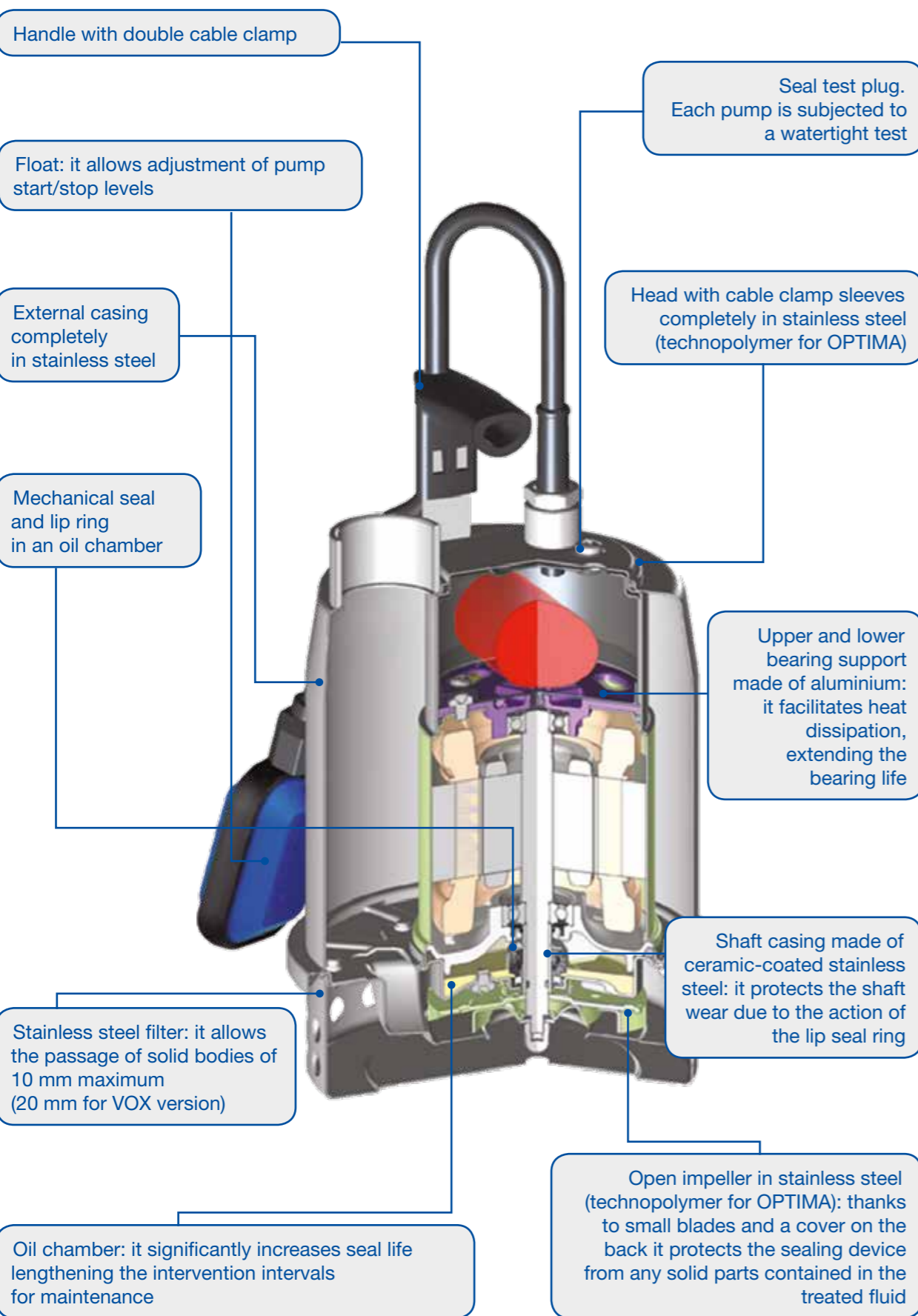


Technology, Performance, Quality: words that can take on different shapes and meanings. For EBARA they assume a **precise meaning**. They represent the characteristics that distinguish their products and that are also found in the wide range of submersed electric pumps: high technology used in production, performance of a very wide range that covers the most types of use, quality in the details and precision of the technical solutions adopted.

The steel submersible pumps summarise all this: the **steel range** was conceived and designed to offer **high quality standards** in the field of domestic applications.

The same quality, the same technology, the same **EBARA imprint** also in submersible pumps





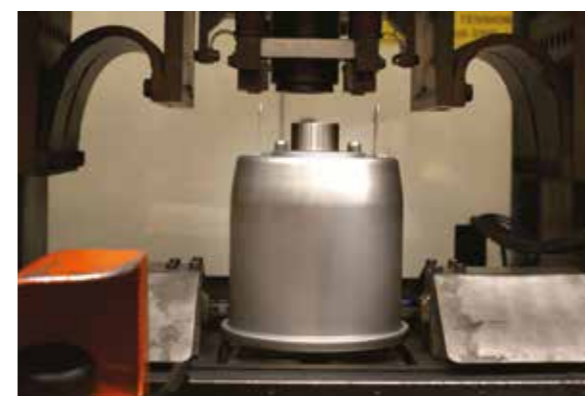
From long and proven industry experience, high technology comes to small household electric pumps

Small domestic pumps or for large industrial plants, there is no difference. Our goal is to offer the product that best suits requirements, in every situation. For these reasons we offer our experience, gained in more than 100 years in the field of waste water treatment, both for industrial products and for domestic pumps.

The electric pumps are made of stainless steel AISI 304, to ensure maximum reliability and resistance. The technical solutions adopted, as well as the matching accessories, ensure this range of high performance and a variety of solutions that adapt to any need.

The OPTIMA, easy-to-use light-water electric pumps, are part of this range. The BEST ONES, also for clear waters that also feature the vortex type impeller option (BEST ONE VOX version). Following on, with similar constructive characteristics but offering greater performance, are the BEST 2 - 5. The two larger models complete the range of submersed steel pumps: the DW - DW VOX, suitable for waste water, used with sewage and also available with a vortex impeller.

The Vox type impellers available on a number of models, as well as the minimal suction device or the magnetic float, are accessories that best express the versatility of domestic pumps. Quality and technological innovation, distinctive signs of EBARA.



OPTIMA

Submersible pumps in AISI 304

Submersible electric pump for clear water with AISI 304 stainless steel hydraulics. Pump body, intake grille, seal holder disc and motor casing are in AISI 304. Impeller in PPE + PS reinforced with glass fibres, and shaft in AISI 303.

The mechanical seal is standard (Ceramic/Carbon/NBR)

- MA version (fig.1) with float

- MS version (fig.3) with MS vertical magnetic float with reduced dimensions for clean water

Accessories

- 1"¼ hose connector and relative hose clamp (optional)
- Minimum suction device up to 3 mm (fig. 2)



Practical and easy to use



Possibility of use in fixed and mobile installations



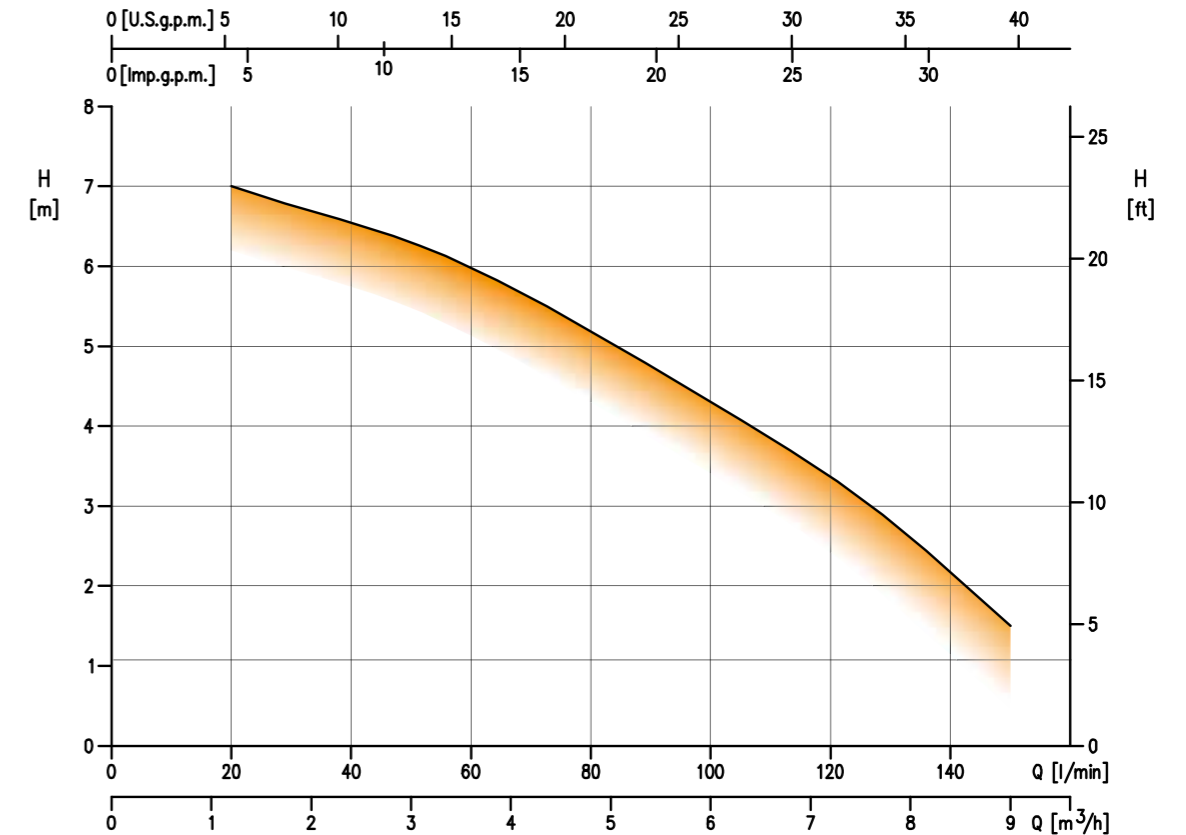
Resistant to corrosion

- Total head from 1.5 to 7 m
- Capacity from 1.2 to 9 m³/h
- Maximum immersion 5 m
- Maximum liquid temperature 50°C
- Maximum solid size passage 10 mm



Performance curve

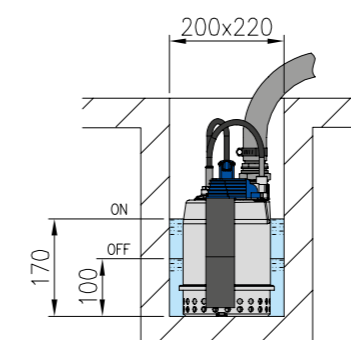
50Hz



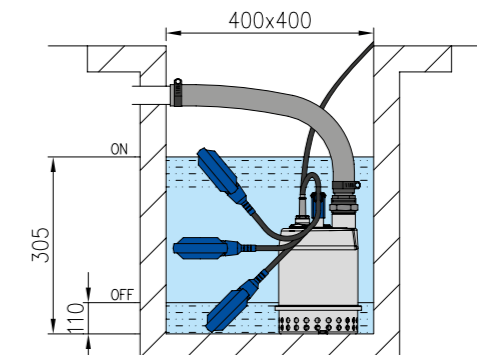
INSTALLATION

The OPTIMA electric pumps have a wide versatility of installation. The possibility of choosing between the vertical magnetic float (small) or the float switch allows choosing of the best option, also based on the space available to insert the pump. Furthermore, the choice of switch type also depends on the water level for which pump start is preferred.

OPTIMA MS



OPTIMA MA



BEST ONE - ONE VOX

Fully submersed electric pumps in AISI 304



Possibility of use in fixed and mobile installations



Resistant to corrosion



Practical and easy to use

Submersible electric pump for clear water with AISI 304 stainless steel hydraulics. Outer casing, impeller, filter, motor cover, seal holder disc and motor case all in AISI 304, shaft in AISI 303. The mechanical seal is standard in Ceramic/Carbon/NBR. Provided with 5 m of power cable type H05 RN - F (single phase), H07 RN - F (three phase) for internal use, with or without float.

Special Versions

- Version MA (fig. 1) with float
- Version VORTEX (VOX) (fig. 2)
- Version MA (fig. 3) with magnetic float MS vertical with reduced dimensions for clean water

Accessories

- 1 1/4" hose connector and relative hose clamp (optional)
- Minimum suction device up to 3 mm (fig. 4)

- Total head from 1,5 to 7,8 m for BEST ONE and from 1,3 to 5,5 m for BEST ONE VOX
- Capacity from 1.2 to 10.2 m³/h
- Maximum immersion 5 m
- Maximum liquid temperature 50°C
- Maximum solid size passage:
 - 10 mm
 - 20 mm for version VOX (VORTEX)



Low suction device

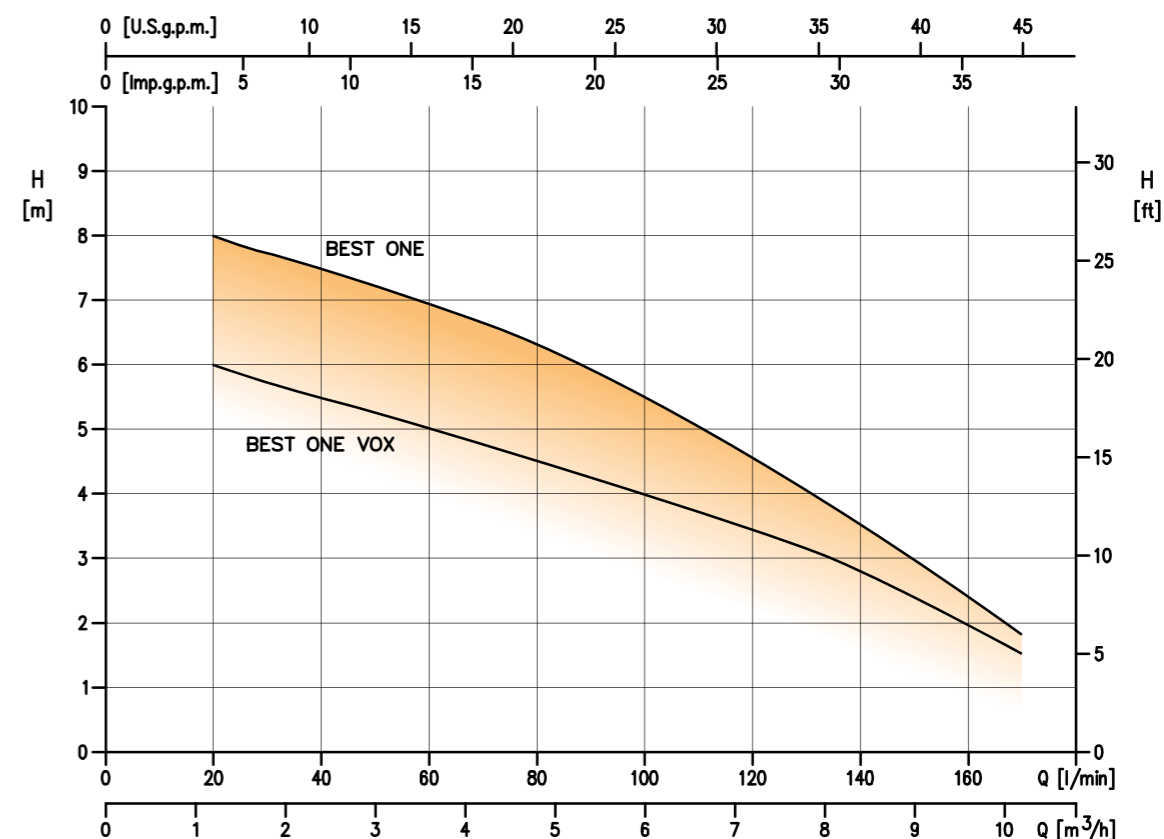
It allows aspiration to 3 mm from the ground (only for M and MA version). Easily mountable with simple pressing.

MS magnetic float (vertical)

It allows the use of floating pumps where space is limited (not compatible with low suction device)

Performance curve

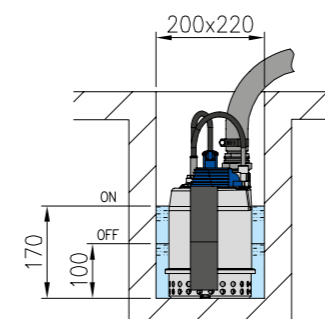
50Hz



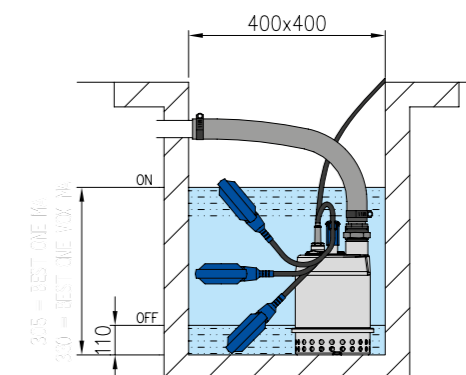
INSTALLATION

The BEST ONE electric pumps have a wide versatility of installation. The possibility of choosing between the vertical magnetic float (small) or the float switch allows choosing of the best option also based on the space available to insert the pump. Furthermore, the choice of switch type also depends on the water level for which pump start is preferred.

BEST ONE MS



BEST ONE MA



BEST 2-5

Submersible pumps in AISI 304

Submersible electric pump completely in AISI 304 stainless steel.

The pump body, the impeller, the suction grille, the motor cover, the seal holder disc and the motor case are in AISI 304.

The shaft is in AISI 303 (part in contact with the liquid). Double mechanical seal with oil chamber: the upper one in Carbon/Ceramic/NBR (motor side), the lower one in SiC/SiC/NBR (pump side).

Special Versions

- MA Version with float



Possibility of use in fixed and mobile installations



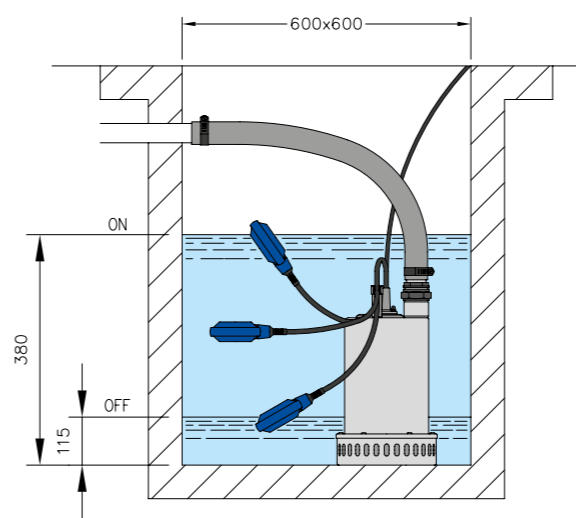
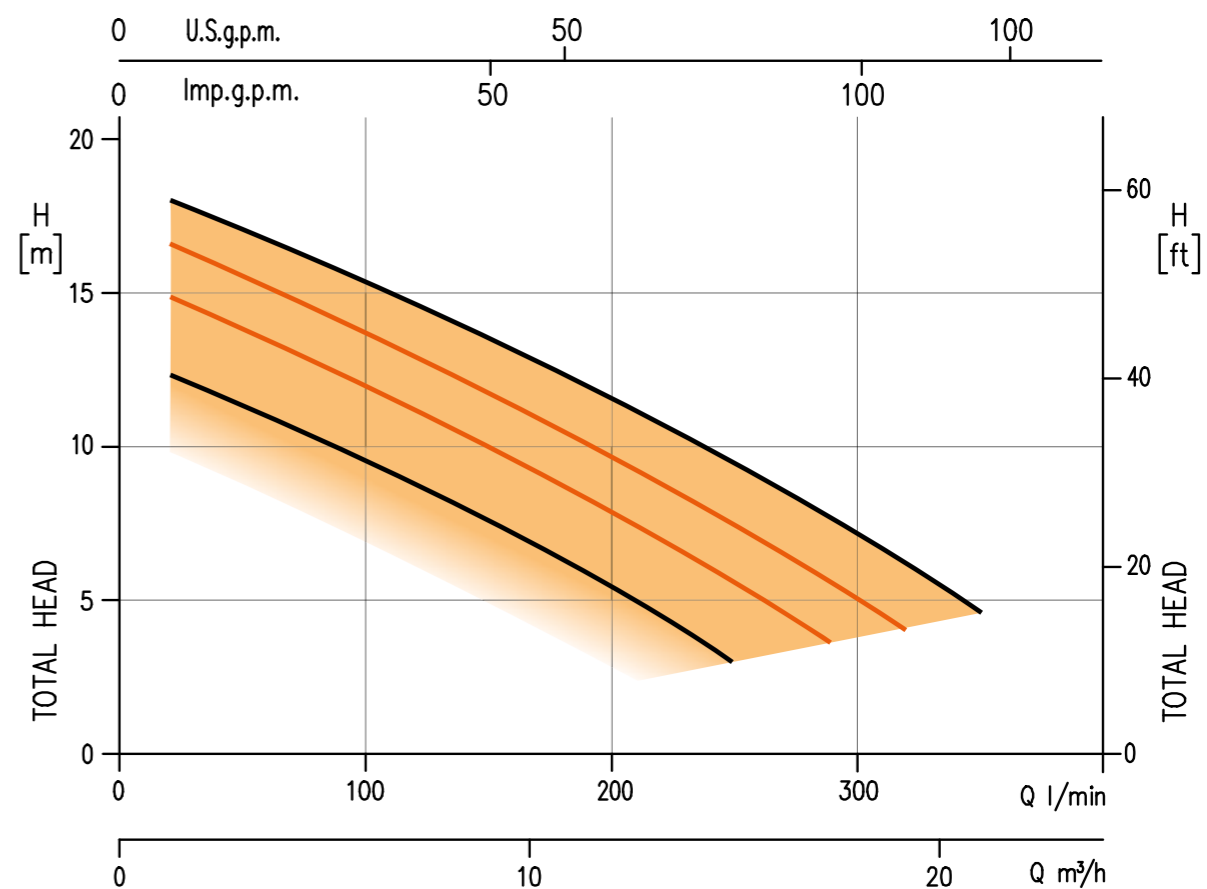
Practical and easy to use

- Total head from 3 to 18 m
- Capacity from 1,2 to 21 m³/h
- Maximum immersion 7 m
- Maximum liquid temperature 35°C
- Maximum solid size passage 10 mm



Performance curve

50Hz



INSTALLATION

The BEST 2 - 5 electric pumps are also available with a float switch, thus increasing the versatility of use. The choice of the use of the float switch requires the respecting of minimum installation spaces to guarantee correct operation of the pump itself.

DW – DW VOX

Submersible electric pumps for waste water in AISI 304

Submersible electric pumps in stainless steel AISI 304 for sewage. They have a pump body, impeller, motor cover, seal holder disc and motor case in AISI 304, while the shaft is in AISI 303. Double mechanical seal with interposed oil chamber: the upper one in carbon/ceramic/NBR (motor side), the lower one in SiC/SiC/NBR (pump side).

G20 cast iron spacer (only for DW – DW VOX 300).
Available single-phase versions with or without float.

Special Versions

- Single-channel impeller version (DW)
- Vortex type impeller version (DW VOX)
- Flanged version (DWF/DW VOXF)

Accessories

Descent device kit

- Guide hook DW - DW VOX in cast iron
- Fixed hook DW - DW VOX in cast iron
- On request version with special seal of Tungsten Carbide/Tungsten Carbide + FPM O-Ring

- Total head from 2 to 20 m for DW and from 1,5 a 16,1 m for DW VOX
- Capacity from 6 a 54 m³/h for DW and from 6 to 48 m³/h for DW VOX
- Maximum immersion 7 m
- Maximum liquid temperature 40°C
- Maximum solid size passage 50 mm

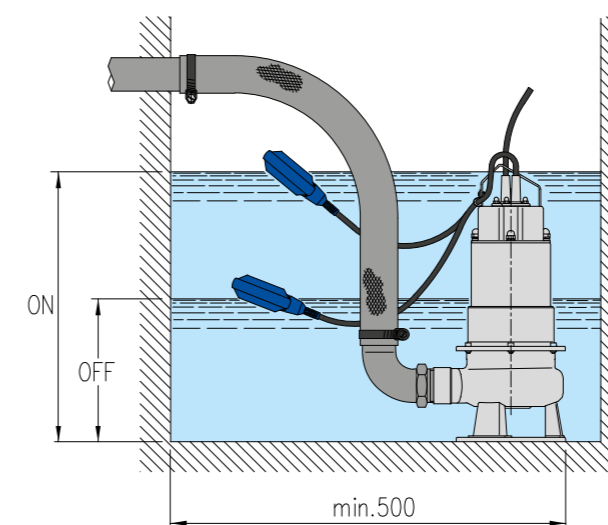
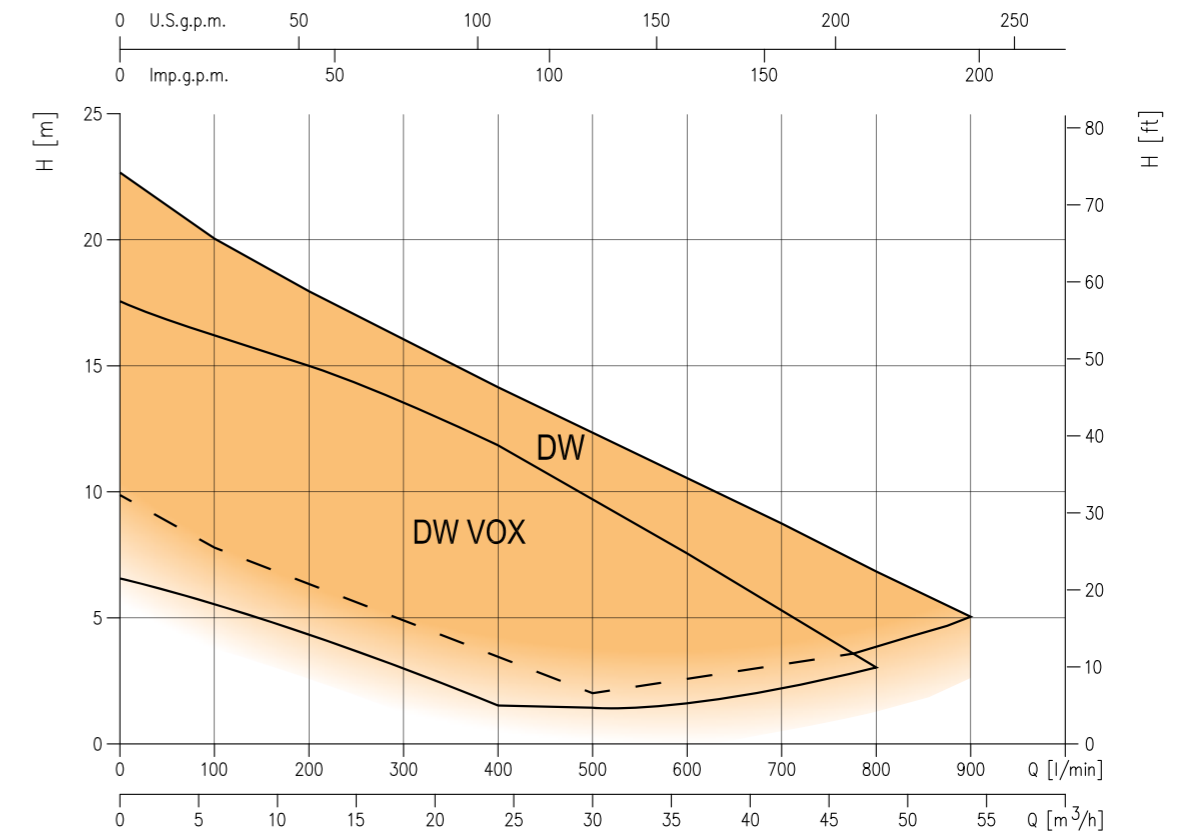


Possibility of use in fixed and mobile installations



Performance curve

50Hz



INSTALLATION

The DW - DW VOX electric pumps are also available with a float switch, thus increasing the versatility of use. The choice of the use of the float switch requires the respecting of minimum installation spaces to guarantee correct operation of the pump itself.

EZ-finder, more than just a simple selector

EZ-finder, a way to look for a model of electric pump?? **Much more.**
 It is the ultimate tool to find and select the right product for your needs.
 Thanks to the logic of the selector, it is possible to search for a product in **various ways**: according to the point of work, by entering the model name or by selecting the application type. **Simple**, the right product in seconds.
 EZ-finder is the **ideal tool** available to the installer, the designer or the engineer.

Discover it at the link <https://ezfinder.ebara.com>



Everything that you need just a click away


visit our website www.ebara.eu

- 

Data book
 Complete technical documentation to be consulted to obtain all the data related to the pumps
- 

Instruction manual
 The manual with all the information needed for correct installation of our pumps
- 

Kensaku
 a system for the selection of spare parts
- 

Ez-finder
 The correct pump selection software for every need
<https://ezfinder.ebara.com>
- 

Service
 A team of professionals at your disposal to advise you in your choice of pump and to offer post sale assistance

EBARA sales network

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Export Sales (for order only):
e-mail: exportsales@ebaraeurope.com
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Hai Duong Province, Vietnam
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Phone +81 3 6275 7598
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bombas **IDEAL**

Serie **ARS**



Datos técnicos
Technical data
Donnees techniques

50Hz

60Hz

UNE 166.002

BUREAU VERITAS
Certification



ISO 9001

BUREAU VERITAS
Certification



ISO 14001

BUREAU VERITAS
Certification



ARS 1046

Bombas de Aguas Residuales Sumergidas
Submersible Wastewater Pump
Pompes Immergées Pour Epuisement Des Eaux



Vortex
Vortex
Vortex

Monocanal cerrado
Single-channel
Monocanal

Multicanal
Multi-channel
Multicanal

Componentes principales / Main components / Principaux composants
Rodamientos

Rodamientos con lubricación permanente y sin mantenimiento. Rodamientos de alta resistencia, sobredimensionados para conferirles mayor durabilidad. Sonda Pt 100 (según versión)

Ball bearings

Permanently lubricated maintenance free bearings are fitted as standard. High strength bearing, oversized to increase the durability. Pt 100 (depending on version)

Roulements

Roulements avec lubrification permanente et sans entretien. Roulements de haute résistance surdimensionnés pour augmenter leur durabilité. Pt 100 (selon version)


Motor

Todos los grupos disponen de motores eléctricos trifásicos de alta eficiencia, tipo jaula de ardilla, protección IP-68 y aislamiento clase F y H, equipados con sonda térmica (PTC), dependiendo de versión.

Motor

All models have squirrel cage type high efficiency three phase electric motors, IP-68 protection and class F and H insulation, equipped with thermal sensor (PTC), depending on version.

Moteur

Tous les groupes sont munis de moteurs électriques triphasés de haut rendement, type à cage d'écureuil, protection IP-68 et isolement classe F et H, équipés avec protection thermique (PTC) suivant leur version.


Cierre mecánico Carburo de silicio- vitón

Dos cierres mecánicos garantizan la estanqueidad del motor de la cámara de aceite. Cierres mecánicos estándar del mercado.

Mechanical seal Silicon carbide-vitón

Hardened double mechanical seals in oil bath. Mechanical seal standard.

Garniture mécanique carbure silice-vitón

Deux garnitures mécaniques garantissent l'étanchéité du moteur dans la chambre d'huile. Garnitures mécaniques standard.


Sistema de acoplamiento

Compatibilidad 100% con zócalo de acoplamiento de las principales marcas en el mercado.

Automatic coupling system

100% compatible with other leading manufacturers automatic coupling systems.

Pied d'assise

Compatibilité du 100% avec les systèmes d'accouplements des principales marques du marché.


Bridas

Según EN 1092-2 (DIN 28605) desde DN40 hasta DN300 y taladradas según norma DIN 2501-PN10.

Flanges

According to EN 1092-2 (DIN 28605) from DN40 to DN300 and drilled according to norm DIN 2501-PN10.

Brides

Suivant EN 1092-2 (DIN 28605) de DN40 jusqu'à DN300, et taraudées suivant la norme DIN 2501-PN10.


Finalización de cable

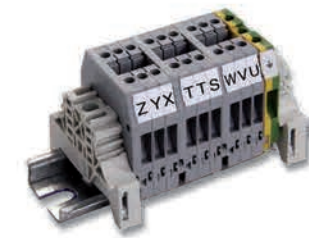
Cable acabado con terminales y letreros, protegido con una funda termoretráctil.

Wire ending

Cable finished with wire caps and letterings, protected with a thermoshrinkable cap.

Finition des câbles

Câbles finis avec connecteurs et identifications, protégés par une gaine thermoretractable.


Conexiones eléctricas

Los bornes debidamente marcados sobre carril DIN separan el circuito de fuerza y de maniobra, reduciendo riesgos de accidentes y facilitando el mantenimiento.

Electrical connections

Din track mounted connections are clearly marked and isolate connections, reducing the risk of accidents and easing maintenance.

Connexions électriques

Les bornes marquées sur le rail DIN séparent le circuit de puissance et de contrôle, en réduisant les risques d'accidents et en facilitant leur entretien.

Tratamiento de superficie

Las normativas que este tipo de pintura epoxy cumplen son las siguientes:

Normativa ISO: ensayos de Resistencia a la Condensación (ISO 6270), Resistencia a la Niebla Salina (ISO 7253), Adhesión de la pintura (ISO 2409 e ISO 4624), Resistencia a la inmersión (ISO 2812).

Normativa americana ASTM: Resistencia a la Abrasión (ASTM D4060), Características de Flexibilidad y Dureza superficial e impacto (ASTM D522, ASTM D3363 y ASTM D2794), Desprendimiento Catódico (ASTM G8).

Surface Treatment

The new painting, a two pack epoxy has following complies with:

ISO regulation: endurance tests to the Condensation (ISO 6270), Resistance to the Saline fog (ISO 7253), Adhesion of the painting (ISO 2409 and ISO 4624), Resistance to the dip (ISO 2812).

American regulation ASTM: Resistance to the Graze (ASTM D4060), Characteristics of Flexibility and superficial Hardness and Impact (ASTM D522, ASTM D3363 and ASTM D2794), Cathode Detachment (ASTM G8).

Traitement de surface

Ce type de peinture epoxy conforme aux normatives suivantes:

Réglementation ISO: Essais de résistance à la condensation (ISO 6270), Résistance au brouillard marin (ISO 7253), Adhésión de la peinture (ISO 2409 et ISO 4624), et Résistance à l'immersion (ISO 2812).

Normative Américaine ASTM: Résistance à l'abrasion (ASTM D4060), les Caractéristiques de Flexibilité et de Dureté superficielle et leur impact (ASTM D522, ASTM D3363 et ASTM D2794), Déliaison cathodique (ASTM G8).


Tornillería

Acero inoxidable de alta resistencia.

Screws

High strength stainless steel.

Visserie

Acier inoxydable de haute résistance.

Sonda humedad

Un dispositivo detecta la humedad en la cámara de aceite (OPCIONAL). Barrera intrínseca (según versión)

Water probe

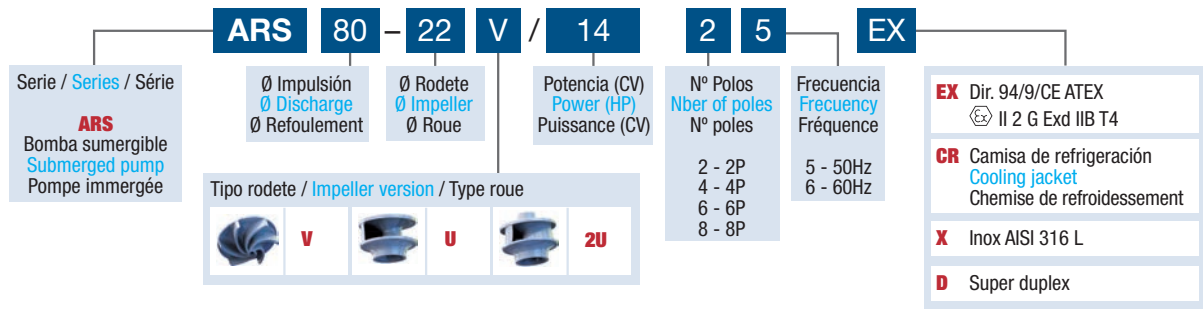
Sensor detects presence of water in the oil bath (OPTION). Intrinsic safety barrier (depending versions)

Sonde de controle des infiltrations

Un dispositif détecte l'humidité dans la chambre à huile (sur demande). Barrière de sécurité intrinsèque (selon versions)



Identificación de la serie / Identification of the series / Identification de la série



bombas IDEAL Pol. Ind. Mediterráneo-C/Cid, 8 46560-Massalfassar-Valencia-Spain www.bombasideal.com

CE

Tipo 01 Nº 02

HP 09 kW 10 RPM 11

V 06 A 07 Hz 08

Q (m³/h) 03 H (m) 04

bombas IDEAL Pol. Ind. Mediterráneo - C/Cid, 8 46560 - Massalfassar - Valencia - Spain www.bombasideal.com

CE

TIPO 01 Nº 02

HP 09 kW 10 RPM 11

V 06 A 07 Hz 08

Q (m³/h) 03 H (m) 04 kg 05

bombas IDEAL Pol. Ind. Mediterráneo - C/Cid, 8 46560 - Massalfassar - Valencia - Spain www.bombasideal.com

CE

TIPO 01 Nº 02

Q máx: 03 m³/h H máx: 04 m

Q min: 03 m³/h H min: 04 m

MOTOR DATA (IEC 60034-1) Oper. Duty S1 04 Kg

V 06 A 07 Hz 08

HP 09 kW 10 RPM 11

η_{motor} 12 % COS ϕ 13 Ins.Class 14

IP 15 T max. 16 °C ∇ 17 m

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CE

TIPO 01 Nº 02

Q máx: 03 m³/h H máx: 04 m

Q min: 03 m³/h H min: 04 m

MOTOR DATA (IEC 60034-1) Oper. Duty S1 04 Kg

V 06 A 07 Hz 08

HP 09 kW 10 RPM 11

η_{motor} 12 % COS ϕ 13 Ins.Class 14

IP 15 T max. 16 °C ∇ 17 m

Cod.	Denominación	Name	Denomination
01	Tipo de bomba	Pump type	Type de pompe
02	Número de serie	Serial number	Numéro de série
03	Caudal máx./min. (m³/h)	Flow max./min. (m³/h)	Débit max./min. (m³/h)
04	Altura máx./min. (m.c.a.)	Head max./min. (m.w.c.)	Hauteur max./min. (m.c.e.)
05	Peso (kg)	Weight (kg)	Poid (kg)
06	Tensión (V)	Voltage (V)	Voltage (V)
07	Intensidad (A)	Current (A)	Courant (A)
08	Frecuencia (Hz)	Frequency (Hz)	Fréquence (Hz)
09	Potencia en el eje (CV)	Shaft power (HP)	Puissance à l'arbre (CV)
10	Potencia en el eje (kW)	Shaft power (kW)	Puissance à l'arbre (kW)
11	Velocidad de rotación (rpm)	Rotation speed (rpm)	Vitesse de rotation (rpm)
12	Rendimiento motor (%)	Motor efficiency (%)	Rendement du moteur (%)
13	Factor potencia	Power factor	Facteur de puissance
14	Clase de aislamiento	Insulation class	Classe d'isolation
15	Grado de protección	Protection grade	Degré de protection
16	Temperatura máxima del fluido (°C)	Maximum fluid temperature (°C)	Température maximale de fluide (°C)
17	Profundidad máxima de inmersión (m)	Maximum immersion depth (m)	Profondeur dimmersion maximale (m)
18	Código ATEX del motor	Motor ATEX code	Code ATEX du moteur
19	Código ATEX de la bomba	Pump ATEX code	Code ATEX de la pompe

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CB



MC AI1



EBAR



ACS



AGS



AJS



AR



BR



D



Medio ambiente
Environment

BOMBAS IDEAL, S.A.

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Massalfassar - Valencia (Spain)
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www.bombasideal.com

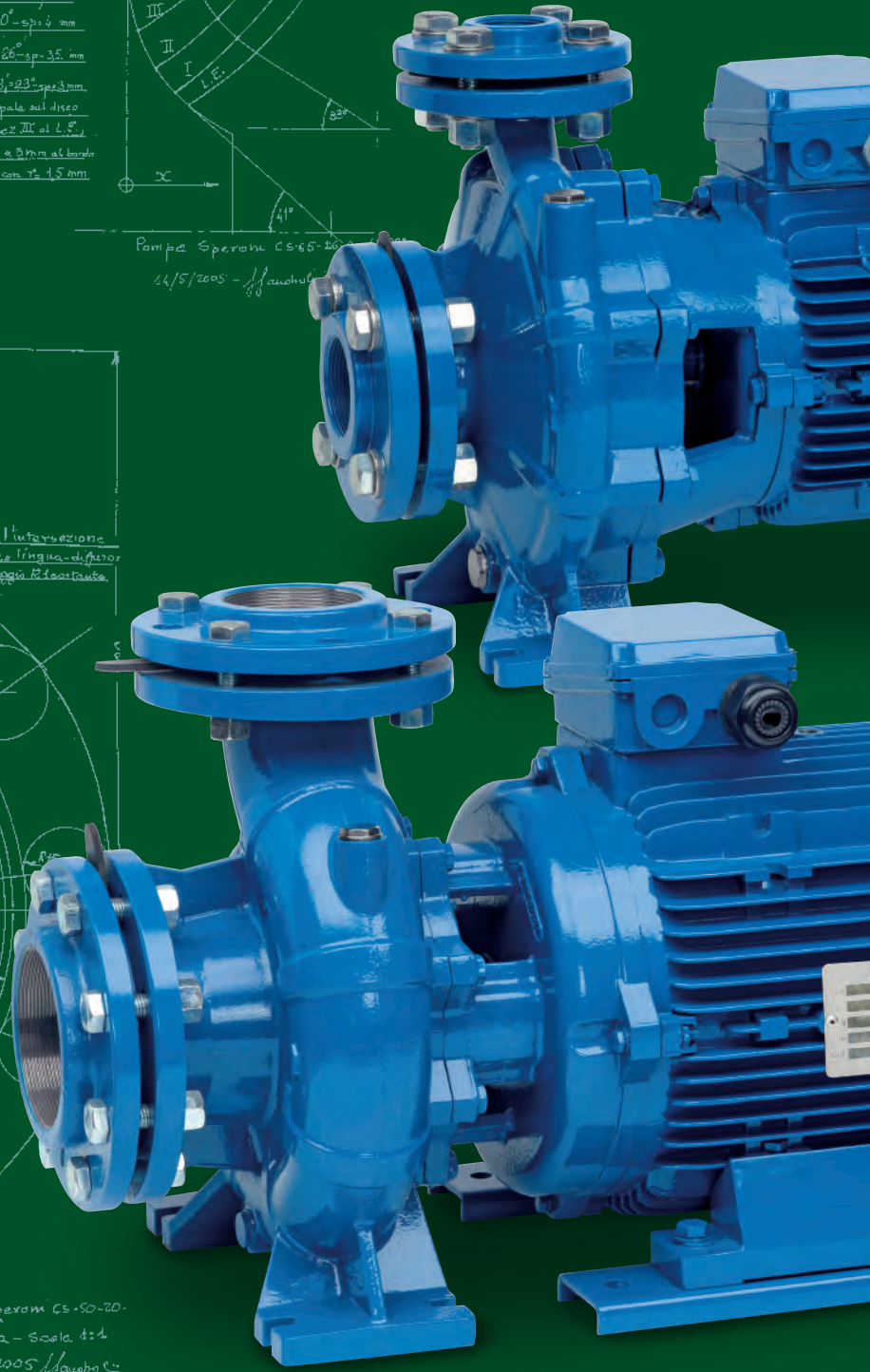
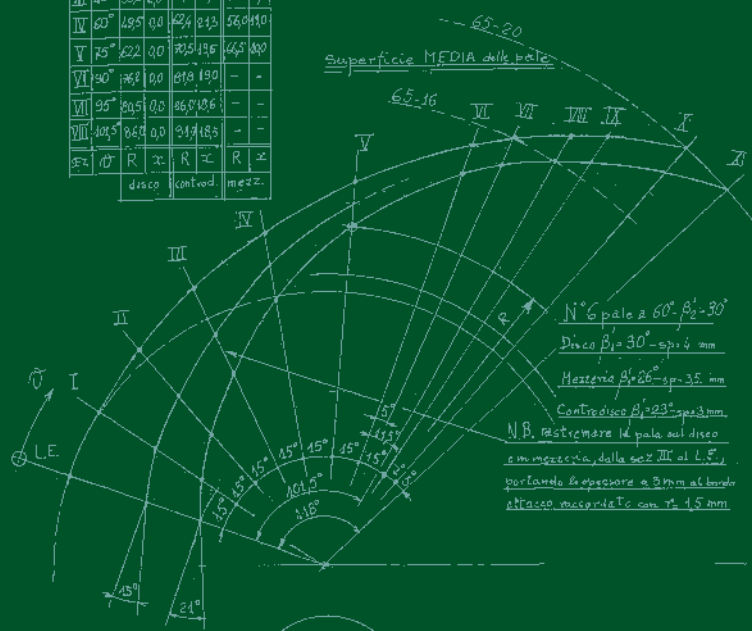


Turbo VORTEX

II	30°	31,9	5,5	62,9	27,0	41,0	9,4
III	45°	39,0	2,0	59,8	23,5	47,0	19,6
IV	60°	49,5	0,0	52,4	24,3	56,0	44,0
V	75°	62,2	0,0	40,5	19,6	66,5	89,0
VI	90°	76,8	0,0	31,9	19,0	-	-
VII	95°	89,5	0,0	26,9	19,6	-	-
VIII	101,5°	96,0	0,0	21,9	18,5	-	-
sez.	10°	R	∞	R	∞	R	∞
		disco		control.		mezz.	



WATER PUMPS



N.B.
 Se la girante presenta una prevalenza esecutiva, al foto più progetto, dar
 più portare a R 205 ± 206 - Comunque allora portare anche ad
 R = 107 ± 106 il raggio del foro della cassa destinato all'alloggiamento
 della girante

Pompe Speroni CS-50-20
 Chiocciola - scala 1:1
 3/10/2005 f. fauchin

60 Hz

CATÁLOGO GENERAL GENERAL CATALOGUE

APLICACIONES

Electrobombas volumétricas capaces de desarrollar cargas hidrostáticas elevadas con potencias limitadas, y tener curvas de funcionamiento especialmente estables.

Son adecuadas para instalaciones domésticas, para aumentar la presión de suministro de los acueductos y para la distribución automática del agua por medio de depósitos pequeños, autoclaves o grupos de hidrosfera de membrana.

Para el funcionamiento correcto de la bomba use exclusivamente agua limpia, o líquidos no agresivos, sin que haya presencia de arena u otras impurezas sólidas.

APPLICATION

Volumetric water pumps able to offer high pressures in relation to comparatively low powers and which have particularly steady operating curves.

They are qualified in domestic fittings, to increase the system pressure in aqueducts and for automatic water distribution by small autoclave tanks or by hydrosphere units.

For the correct functioning of the pump, use clean water, or non-aggressive liquids only, without sand or other solid impurities.



LÍMITES DE USO

- Temperatura del líquido hasta 35 °C (para un uso doméstico según la norma EN 60335-2-41)
- Temperatura máx. líquido: 60 °C (para otros usos)
- Temperatura ambiente hasta 40 °C.
- Altura de aspiración manométrica de hasta 7 m.
- Servicio continuo

MOTOR

- Motor eléctrico por inducción de 2 polos ($n = 3450 \text{ min}^{-1}$)
- Aislamiento Clase F
- Protección IP 44

MATERIALI

- | | |
|-----------------------------|---------------------------|
| - Cuerpo bomba | Fundición |
| - Soporte del motor | Fundición |
| - Rodete | Latón |
| - Eje motor | Acero inoxidable AISI 304 |
| - Juntas mecánicas | Cerámica/Grafito/NBR |
| - Juntas mecánicas (KPM 70) | Grafito/Silicio/NBR |

OPERATING CONDITIONS

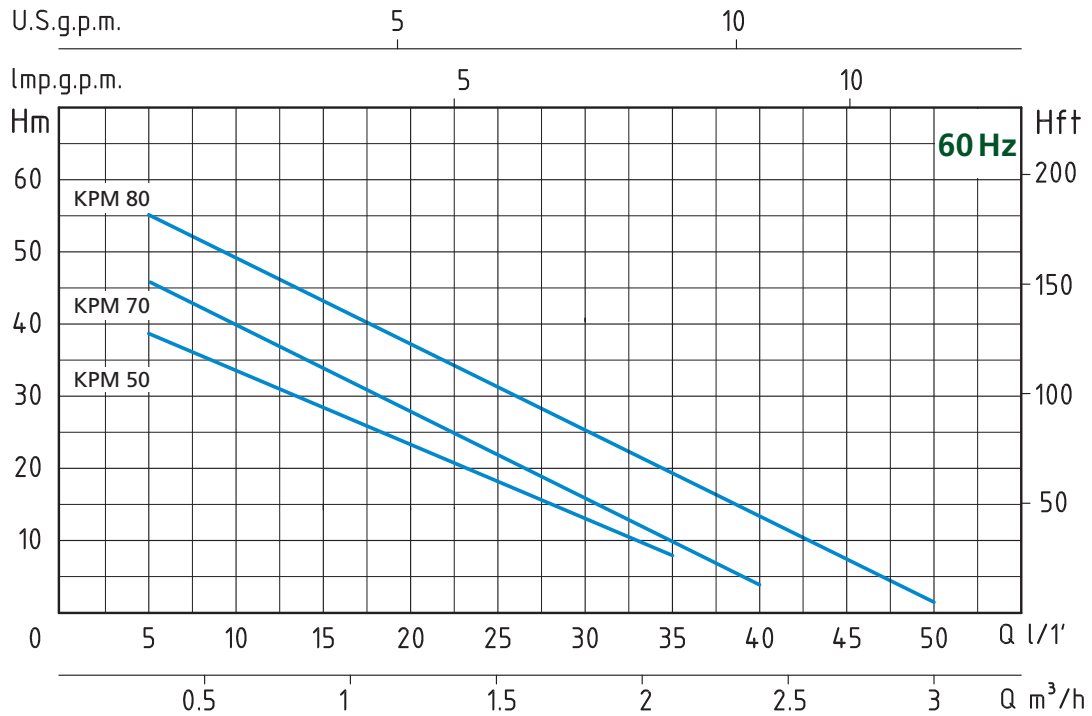
- Liquid temperature up to 35°C (for home use according to EN 60335-2-41)
- Temperature max. liquid: 60°C (for other uses)
- Ambient temperature up to 40°C
- Total suction lift up to 7 mt.
- Continuous duty

MOTOR

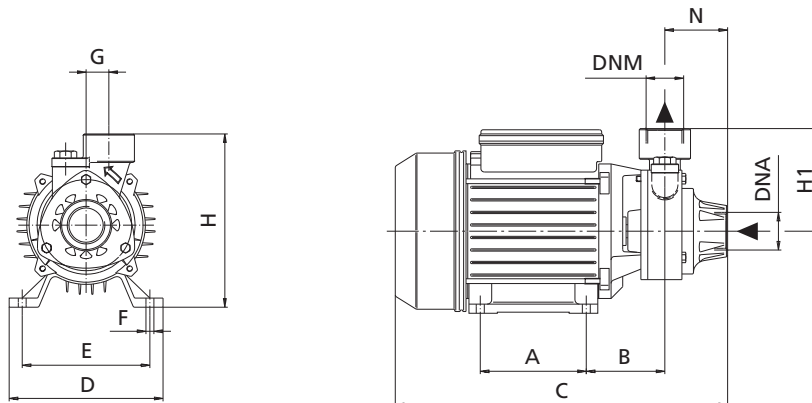
- Two-Pole induction motor ($n = 3450 \text{ min}^{-1}$)
- Insulation Class F
- Protection IP 44

MATERIALS

- | | |
|----------------------------|--------------------------|
| - Pump body | Cast Iron |
| - Motor Support | Cast Iron |
| - Impeller | Brass |
| - Shaft with rotor | Stainless Steel AISI 304 |
| - Mechanical seal | Ceramic/Graphite/NBR |
| - Mechanical seal (KPM 70) | Graphite/Silicon/NBR |



TIPO TYPE	POTENCIA NOMINAL NOMINAL POWER		POTENCIA ABSORBIDA INPUT POWER	AMPERIO AMPERE	Q = CAPACIDAD - CAPACITY									
	HP	kW			HP	kW	m³/h	0,3	0,6	0,9	1,2	1,5	1,8	2,1
Monofásico Single-phase	P2		P1	Monofásico Single-phase	m³/h	0,3	0,6	0,9	1,2	1,5	1,8	2,1	2,4	3
220V-60Hz				1 x 220V	lt/1'	5	10	15	20	25	30	35	40	50
					Carga hidrostática manométrica total en m.C.A. - Total head in meters w.c.									
KPM 50	0,5	0,37	0,55	2,9	H (m)	38	34	29	24	19	13	8		
KPM 70	0,7	0,52	0,80	3,5		46	40	34	28	21	15	10	4	
KPM 80	0,8	0,6	0,9	4		55	49	42	36	31	25	20	13	2



TIPO TYPE	DIMENSIONES mm - DIMENSIONS mm												DIMENSIONES DIMENSIONS mm	PESO WEIGHT		
	A	B	C	D	E	F	G	H	H1	N	DNA	DNM				
Monofásico Single-phase													P	L	H	Kg
KPM 50	80	65	255	120	100	7	20	144	81	50	1"	1"	177	300	176	6,1
KPM 70	85	70	285	135	112	7	20	152	81	50	1"	1"	172	328	191	7,7
KPM 80	90	70	295	135	112	7	20	161	90	55	1"	1"	172	328	191	9,2

APLICACIONES

Electrobombas centrífugas de un solo rodete adecuadas para responder a las exigencias de caudales grandes, medianos y pequeños.

Uso en instalaciones domésticas, agrícolas e industriales, distribución automática del agua por medio de depósitos pequeños (autoclave), para riego por aspersión y por inundación en jardín y en agricultura, para aumentar, en derivación la presión de suministro de los acueductos.

APPLICATION

Single impeller centrifugal pumps suitable to cover any small, medium or large capacity request; for domestic, agricultural and industrial purposes; with automatic water distribution through small and medium sized tanks; for sprinkler and flood irrigation systems in gardening and agriculture; to increase in derivation system pressure in aqueducts.



CM 22

CM 32

LÍMITES DE USO

- Temperatura del líquido hasta 35 °C (para un uso doméstico según la norma EN 60335-2-41)
- Temperatura máx. líquido: 60 °C (para otros usos)
- Temperatura ambiente hasta 40 °C.
- Altura de aspiración manométrica de hasta 7 m.
- Servicio continuo

MOTOR

- Motor eléctrico por inducción de 2 polos ($n = 3450 \text{ min}^{-1}$)
- Aislamiento Clase F
- Protección IP 44

MATERIALES

- | | |
|---------------------|---------------------------|
| - Cuerpo bomba | Fundición |
| - Soporte del motor | Fundición |
| - Rodete | Acero inoxidable AISI 304 |
| - Eje motor | Acero inoxidable AISI 304 |
| - Juntas mecánicas | Cerámica/Grafito/NBR |

OPERATING CONDITIONS

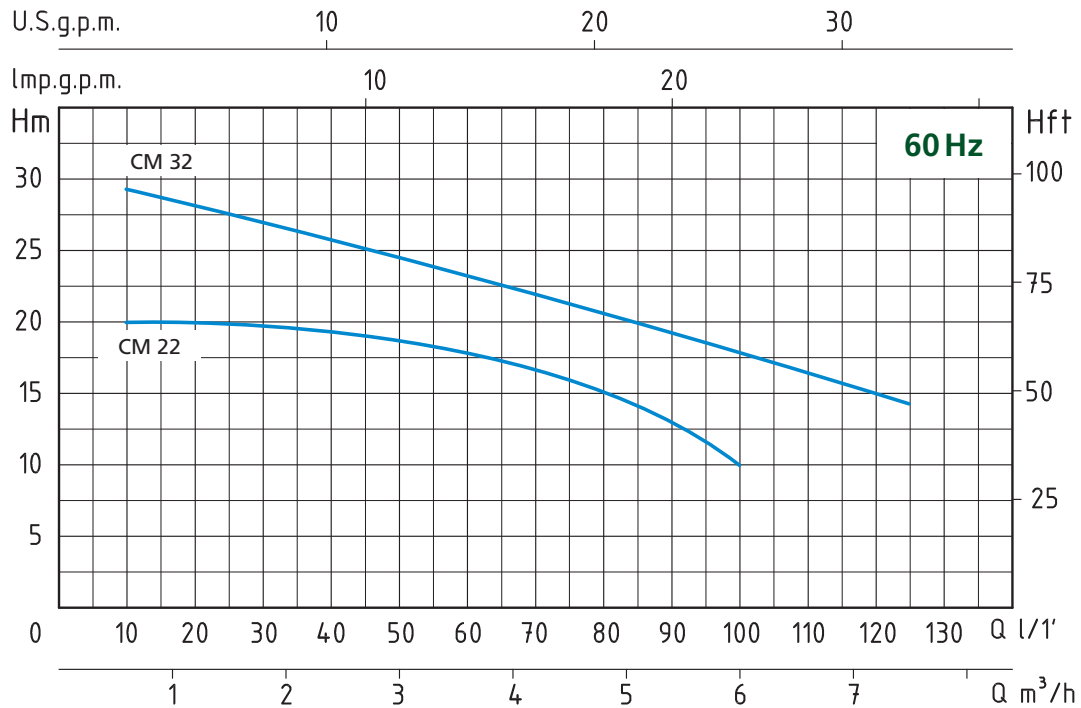
- Liquid temperature up to 35°C (for home use according to EN 60335-2-41)
- Temperature max. liquid: 60°C (for other uses)
- Ambient temperature up to 40°C
- Total suction lift up to 7 mt.
- Continuous duty

MOTOR

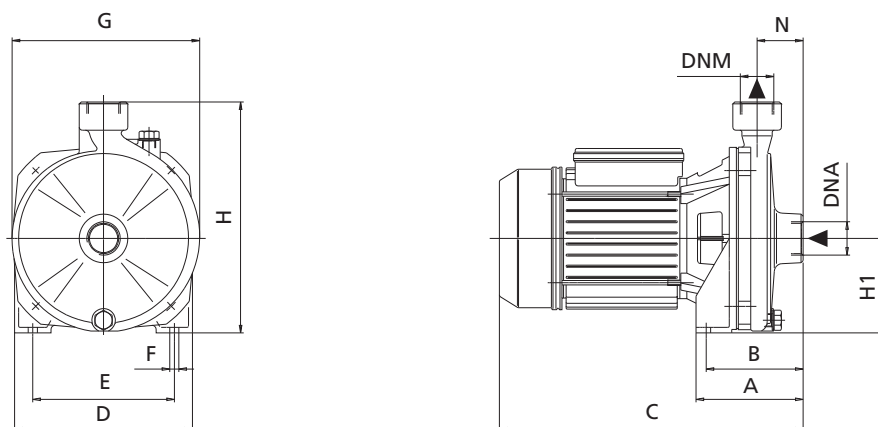
- Two-Pole induction motor ($n = 3450 \text{ min}^{-1}$)
- Insulation Class F
- Protection IP 44

MATERIALS

- | | |
|--------------------|--------------------------|
| - Pump body | Cast Iron |
| - Motor Support | Cast Iron |
| - Impeller | Stainless Steel AISI 304 |
| - Shaft with rotor | Stainless Steel AISI 304 |
| - Mechanical seal | Ceramic/Graphite/NBR |



TIPO TYPE	POTENCIA NOMINAL NOMINAL POWER		POTENCIA ABSORBIDA INPUT POWER	AMPERIO AMPERE	Q = CAPACIDAD - CAPACITY							
	Monofásico Single-phase	P2		P1	Monofásico Single-phase	m³/h	0,6	1,2	2,7	3,6	5,4	6
220V-60Hz	HP	kW	kW	1 x 220V	lt/1'	10	20	45	60	90	100	125
	Carga hidrostática manométrica total en m.C.A. - Total head in meters w.c.											
CM 22	0,5	0,37	0,65	2,8	H (m)	20	18	17	16	12	10	
CM 32	1	0,75	1,2	5,5		29	28	26	23	20	18	14



TIPO TYPE	DIMENSIONES mm - DIMENSIONS mm												DIMENSIONES DIMENSIONS mm	PESO WEIGHT		
	A	B	C	D	E	F	G	H	H1	N	DNA	DNM			P	L
Monofásico Single-phase																
CM 22	100	90	260	162	126	9	164	205	83	47	1"	1"	184	300	232	9,4
CM 32	108	98	300	176	140	9	186	229	94	50	1"	1"	206	348	257	14,8

APLICACIONES

Electrobombas centrífugas de un solo rodete adecuadas para responder a las exigencias de caudales grandes, medianos y pequeños. Uso en instalaciones domésticas, agrícolas e industriales, distribución automática del agua por medio de depósitos pequeños (autoclave), para riego por aspersión y por inundación en jardín y en agricultura, para aumentar, en derivación la presión de suministro de los acueductos.

APPLICATION

Single impeller centrifugal pumps suitable to cover any small, medium or large capacity request; for domestic, agricultural and industrial purposes; with automatic water distribution through small and medium sized tanks; for sprinkler and flood irrigation systems in gardening and agriculture; to increase in derivation system pressure in aqueducts.



CM 35-45-50



CM 53-54-55

LÍMITES DE USO

- Temperatura del líquido hasta 35 °C (para un uso doméstico según la norma EN 60335-2-41)
- Temperatura máx. líquido: 90 °C (para otros usos)
- Temperatura ambiente hasta 40 °C.
- Altura de aspiración manométrica de hasta 7 m.
- Servicio continuo

MOTOR

- Motor eléctrico por inducción de 2 polos ($n = 3450 \text{ min}^{-1}$)
- Aislamiento Clase F
- Protección IP 55

MATERIALES

- | | |
|---------------------|---------------------------|
| - Cuerpo bomba | Fundición |
| - Soporte del motor | Fundición |
| - Rodete | Latón |
| - Eje motor | Acero inoxidable AISI 304 |
| - Juntas mecánicas | Cerámica/Grafito/NBR |

OPERATING CONDITIONS

- Liquid temperature up to 35°C (for home use according to EN 60335-2-41)
- Temperature max. liquid: 90°C (for other uses)
- Ambient temperature up to 40°C
- Total suction lift up to 7 mt.
- Continuous duty

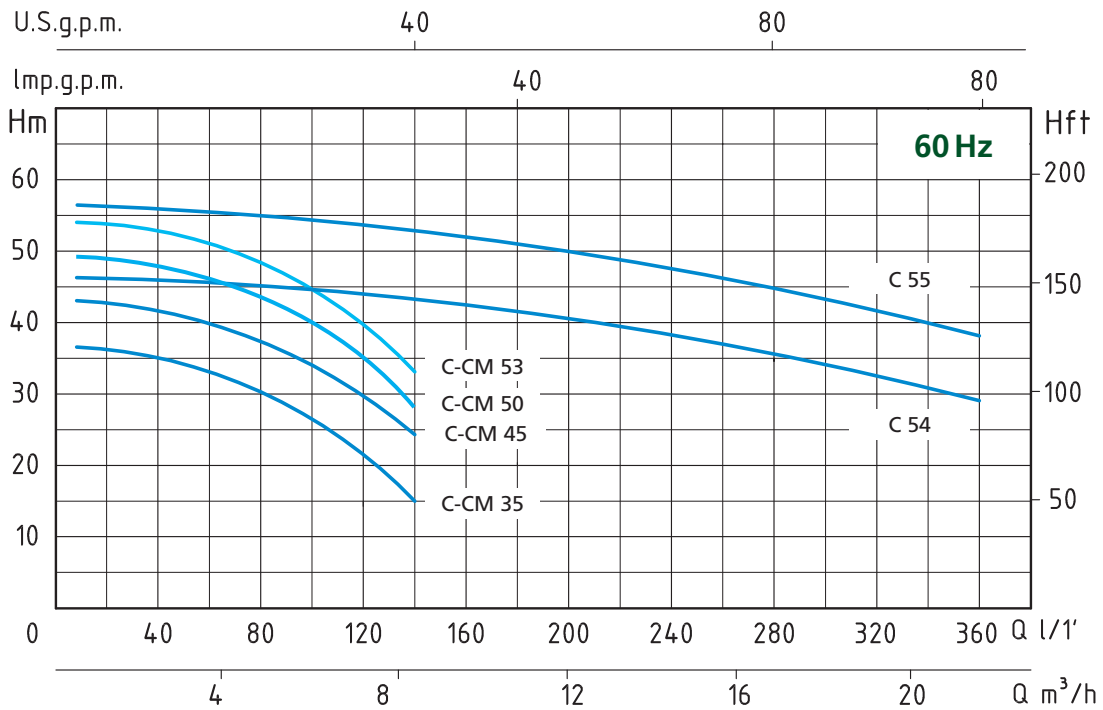
MOTOR

- Two-Pole induction motor ($n = 3450 \text{ min}^{-1}$)
- Insulation Class F
- Protection IP 55

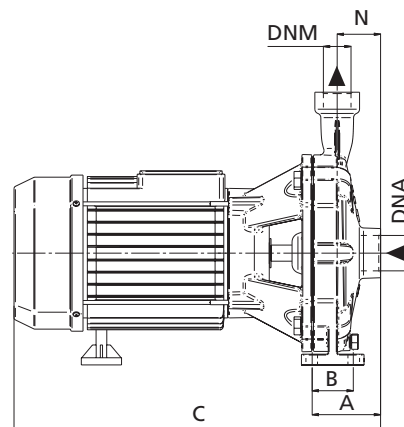
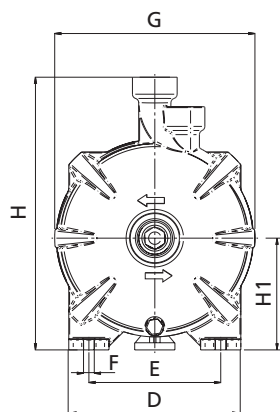
MATERIALS

- | | |
|--------------------|--------------------------|
| - Pump body | Cast Iron |
| - Motor Support | Cast Iron |
| - Impeller | Brass |
| - Shaft with rotor | Stainless Steel AISI 304 |
| - Mechanical seal | Ceramic/Graphite/NBR |

SINGLE IMPELLER CENTRIFUGAL PUMPS



TIPO TYPE		POTENCIA NOMINAL NOMINAL POWER		POTENCIA ABSORBIDA INPUT POWER	AMPERIO AMPERE		Q = CAPACIDAD - CAPACITY											
Monofásico Single-phase	Trifásico Three-phase	P2		P1	Monofásico Single-phase	Trifásico Three-phase	m³/h	0,6	1,2	3,6	5,4	6	7,5	9	12	18	21	
220V-60Hz	220/380V-60Hz	HP	kW	kW	1 x 220V	3 x 380V	lt/1'	10	20	60	90	100	125	150	200	300	350	
Carga hidrostática manométrica total en m.C.A. - Total head in meters w.c.																		
CM 35	C 35	1,5	1,1	1,85	8,3	4	H (m)	36	35,5	33,5	28	26	19					
CM 45	C 45	2	1,5	2,4	10,7	5		43	42	40,5	36,5	34	28					
CM 50	C 50	2,5	1,85	3,1	14	5,2		49,5	48,5	46,5	45	43	36	27				
CM 53	C 53	3	2,2	3,3	15	5,5		54	53	51	47	45	38	29				
	C 54	4	3	4,5		7,3		46,5	46	45,3	44,7	44,5	44	43,5	42	35		
	C 55	5,5	4	5,7				56	55,5	54,5	54	53,5	53	52	50	44	39	



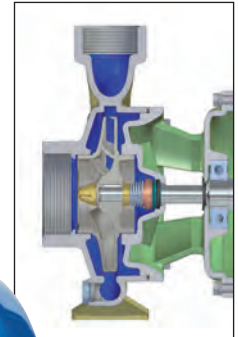
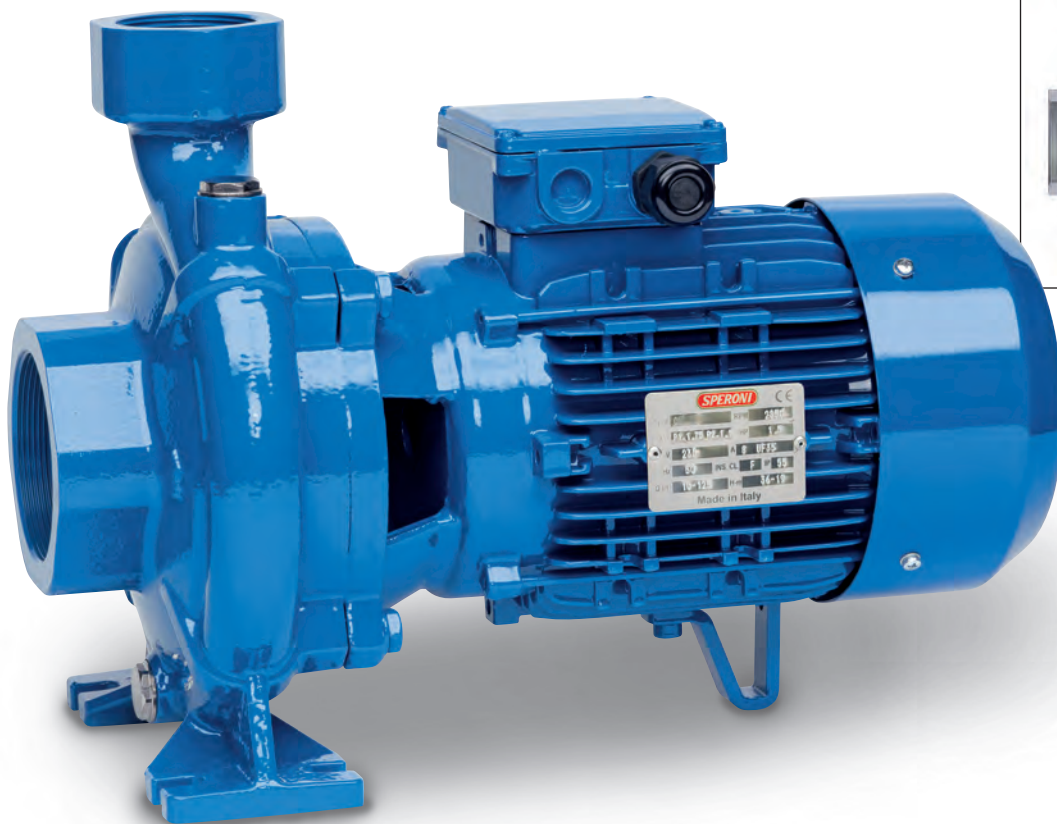
TIPO TYPE		DIMENSIONES mm - DIMENSIONS mm												DIMENSIONES DIMENSIONS mm			PESO WEIGHT
Monofásico Single-phase	Trifásico Three-phase	A	B	C	D	E	F	G	H	H1	N	DNA	DNM	P	L	H	Kg
CM 35	C 35	76,5	45	355	220	147,5	12	224	305	125	48,5	1" 1/4	1"	252	390	350	23,4
CM 45	C 45	76,5	45	355	224	147,5	12	224	305	125	48,5	1" 1/4	1"	252	390	350	24,6
CM 50	C 50	76,5	45	410	224	147,5	12	224	305	125	48,5	1" 1/4	1"	252	438	350	27,1
CM 53	C 53	76,5	45	410	220	147,5	12	224	305	125	48,5	1" 1/4	1"	252	438	350	30,7
	C 54	88,5	60	485	245	190	14	256	323	132	58,5	2"	1" 1/4	269	540	421	50,5
	C 55	88,5	60	475	245	190	14	256	323	132	58,5	2"	1" 1/4	269	540	421	51,1

APLICACIONES

Electrobombas centrífugas monobloque, con rodete de fundición. Estas máquinas son adecuadas para el bombeo de agua limpia y de otros líquidos químicamente y mecánicamente no agresivos. Adecuadas para las exigencias más variadas en ámbito civil, agrícola, industrial o de instalaciones en general. Suministro de agua, riego por aspersión o por inundación, alimentaciones de autoclaves y sobreelevaciones de presión y en cualquier otro uso que comporte el trasvase de líquidos limpios en general.

APPLICATION

Centrifugal monoblock with cast iron impeller. These machines are ideal for pumping clean water and other chemically and mechanically non-aggressive liquids. Used for a wide variety of applications in civil, agricultural, industrial or general plant uses. Water supply, spray or flowing irrigation, autoclave feed, high pressure system and any other general service requiring transfer of clean liquids.



LÍMITES DE USO

- Temperatura del líquido hasta 35 °C (para un uso doméstico según la norma EN 60335-2-41)
Temperatura máx. líquido: 90 °C (para otros usos)
- Temperatura ambiente hasta 40 °C.
- Altura de aspiración manométrica de hasta 7 m.
- Servicio continuo

MOTOR

- Motor eléctrico por inducción de 2 polos ($n = 3450 \text{ min}^{-1}$)
- Aislamiento Clase F
- Protección IP 55

MATERIALES

- | | |
|---------------------|---------------------------|
| - Cuerpo bomba | Fundición |
| - Soporte del motor | Fundición |
| - Rodete | Fundición |
| - Eje motor | Acero inoxidable AISI 304 |
| - Juntas mecánicas | Cerámica/Grafito/NBR |

OPERATING CONDITIONS

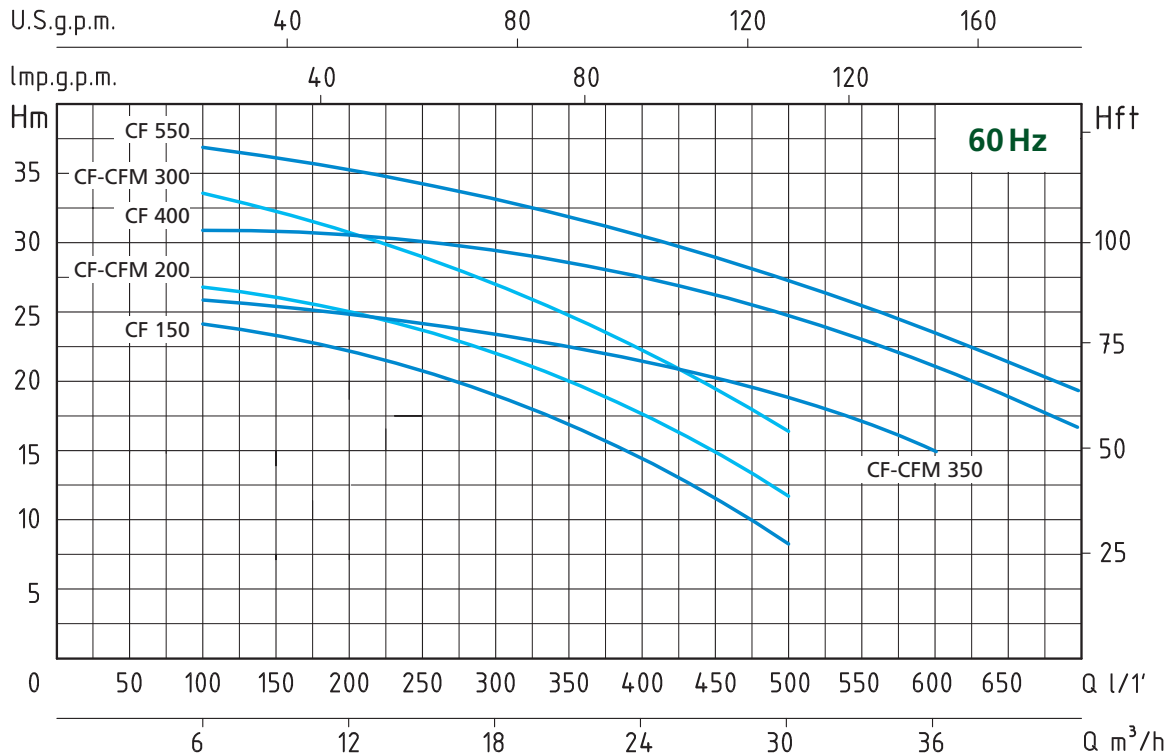
- Liquid temperature up to 35°C (for home use according to EN 60335-2-41)
Temperature max. liquid: 90°C (for other uses)
- Ambient temperature up to 40°C
- Total suction lift up to 7 mt.
- Continuous duty

MOTOR

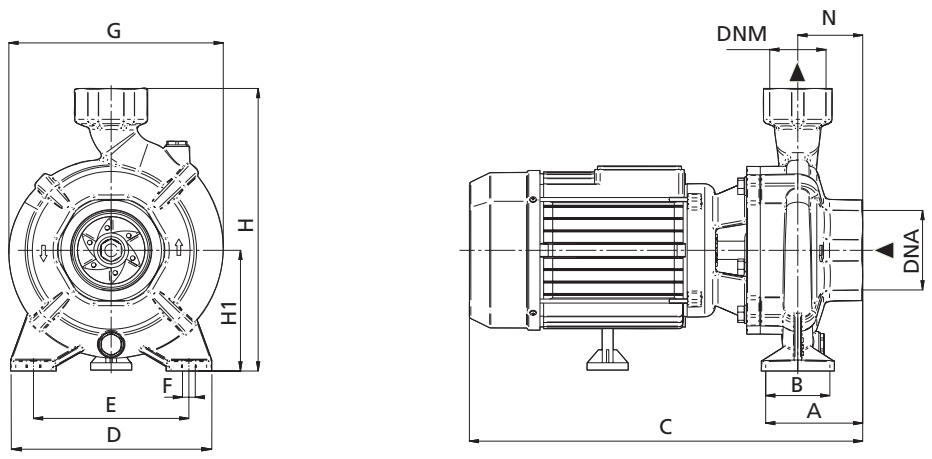
- Two-Pole induction motor ($n = 3450 \text{ min}^{-1}$)
- Insulation Class F
- Protection IP 55

MATERIALS

- | | |
|--------------------|--------------------------|
| - Pump body | Cast Iron |
| - Motor Support | Cast Iron |
| - Impeller | Cast Iron |
| - Shaft with rotor | Stainless Steel AISI 304 |
| - Mechanical seal | Ceramic/Graphite/NBR |



TIPO TYPE		POTENCIA NOMINAL NOMINAL POWER		POTENCIA ABSORBIDA INPUT POWER	AMPERIO AMPERE		Q = CAPACIDAD - CAPACITY										
Monofásico Single-phase	Trifásico Three-phase	P2		P1	Monofásico Single-phase	Trifásico Three-phase	Carga hidrostática manométrica total en m.C.A. - Total head in meters w.c.										
220V-60Hz	220/380V-60Hz	HP	kW	kW	1 x 220V	3 x 380V	m³/h	6	9	12	18	21	24	27	30	36	42
							lt/1'	100	150	200	300	350	400	450	500	600	700
	CF 150	1,5	1,1	2,25		4,3		24	23	21,5	18,5	16,5	14,5	11,5	8,5		
	CFM 200	2	1,5	2,7	12	5,1		27	26	25	21	19	17	14,5	12		
	CFM 300	3	2,2	3,6	16	5,9		33,5	32,5	30,5	27	25	22,5	19,5	16,5		
	CFM 350	3	2,2	3,6	16	5,9		26	25,5	25	23,5	22,5	21,5	20,5	19	15	
	CF 400	4	3	4,5		7,3		31,5	31,2	31	29,5	28,5	27,5	26	24,5	20,5	16,5
	CF 550	5,5	4	5,7		9,3		37	36	35,5	33,5	32	30,5	29	27,5	24	19



TIPO TYPE		DIMENSIONES mm - DIMENSIONS mm											DIMENSIONES DIMENSIONS mm			PESO WEIGHT	
Monofásico Single-phase	Trifásico Three-phase	A	B	C	D	E	F	G	H	H1	N	DNA	DNM	P	L	H	Kg
	CF 150	96	55	394	210	165	14	220	286	119	68,5	2"	2"	259	507	345	23,7
	CFM 200	96	55	394	210	165	14	220	286	119	68,5	2"	2"	259	507	345	27,6
	CFM 300	96	55	430	210	165	14	220	286	119	68,5	2"	2"	259	507	345	30,7
	CFM 350	98,5	55	430	220	170	14	237,5	309	132	71	3"	2"	282	490	365	31,6
	CF 400	98,5	55	496	220	170	14	237,5	309	132	71	3"	2"	269	540	421	43,3
	CF 550	98,5	55	496	220	170	14	237,5	309	132	71	3"	2"	269	540	421	46,6

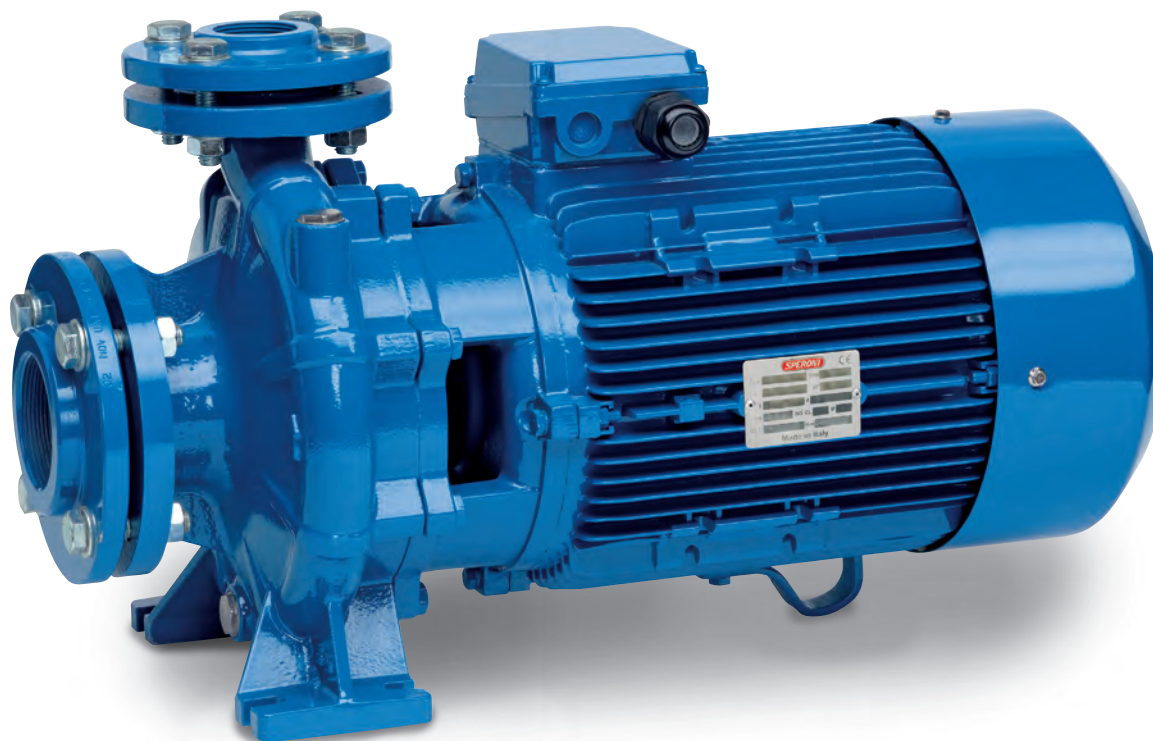
APLICACIONES

Electrobombas centrífugas, monobloque y con un solo rodete, con cuerpo de la bomba, conectado al motor mediante soporte. Con bocas de aspiración y de impulsión embridadas (PN 10) y contrabridas de tipo roscado. Estas máquinas son adecuadas para bombear agua limpia y otros líquidos químicamente y mecánicamente no agresivos; la posibilidad de instalación en cualquier posición, excepto aquella con la boca aspirante dirigida hacia arriba. Adecuadas para las exigencias más variadas en ámbito civil, agrícola, industrial o de instalaciones en general. Suministro de agua, riego por aspersión o por inundación, alimentaciones de autoclaves y sobreelevaciones de presión, calefacción y acondicionamiento y en cualquier otro uso que comporte el trasvase de líquidos limpios en general.

APPLICATION

Centrifugal, monoblock and single-impeller electrical pumps with pump body, with connection to the motor by means of a support unit. With flanged inlet and delivery openings (PN 10) and threaded counter-flanges.

These machines are ideal for pumping clean water and other chemically and mechanically non-aggressive liquids. They are adapt for civil, agricultural, industrial or general plant uses. Water supply, spray or flowing irrigation, autoclave feed, high pressure system, heating, conditioning and any other general service requiring transfer of clean liquids.



LÍMITES DE USO

- Temperatura del líquido hasta 35 °C (para un uso doméstico según la norma EN 60335-2-41)
- Temperatura máx. líquido: 90 °C (para otros usos)
- Temperatura ambiente hasta 40 °C.
- Altura de aspiración manométrica de hasta 7 m.
- Servicio continuo

MOTOR

- Motor eléctrico por inducción de 2 polos ($n = 3450 \text{ min}^{-1}$)
- Aislamiento Clase F
- Protección IP 55

MATERIALES

- | | |
|------------------|---------------------------|
| - Cuerpo bomba | Fundición |
| - Soporte | Fundición |
| - Rodete | Fundición |
| - Eje motor | Acero inoxidable AISI 304 |
| - Junta mecánica | Cerámica/Grafito/NBR |

OPERATING CONDITIONS

- Liquid temperature up to 35°C (for home use according to EN 60335-2-41)
- Temperature max. liquid: 90°C (for other uses)
- Ambient temperature up to 40°C
- Total suction lift up to 7 mt.
- Continuous duty

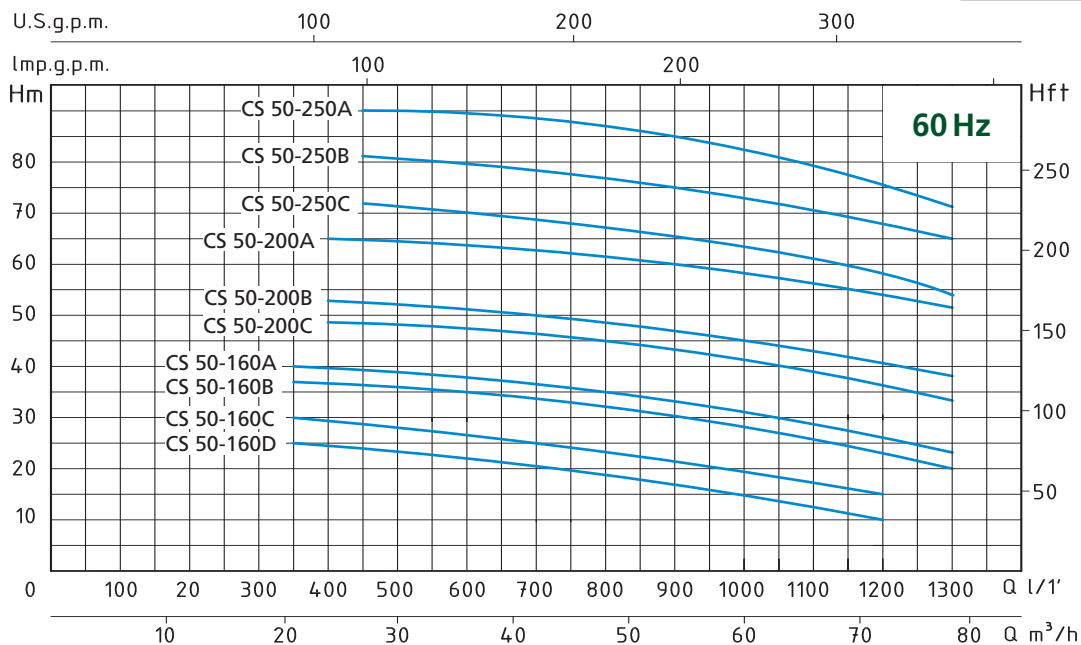
MOTOR

- Two-Pole induction motor ($n = 3450 \text{ min}^{-1}$)
- Insulation Class F
- Protection IP 55

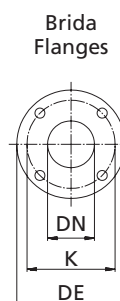
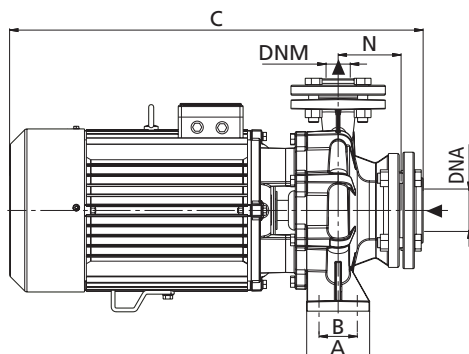
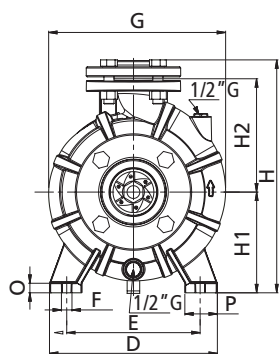
MATERIALS

- | | |
|--------------------|--------------------------|
| - Pump body | Cast Iron |
| - Support | Cast iron |
| - Impeller | Cast iron |
| - Shaft with rotor | Stainless steel AISI 304 |
| - Mechanical seal | Ceramic/Graphite/NBR |

MONOBLOCK CENTRIFUGAL PUMPS



TIPO TYPE	POTENCIA NOMINAL NOMINAL POWER		POTENCIA ABSORBIDA INPUT POWER	AMPERIO AMPERE	Q = CAPACIDAD - CAPACITY														
	P2		P1	Trifase Three-phase 3 x 380V	m³/h	21	24	27	30	33	36	39	42	48	54	60	66	72	78
	HP	KW	KW		lt/1'	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1300
Carga hidrostática manométrica total en m.C.A. - Total head in meters w.c.																			
CS 50-160 D	4	3	4,8	7,5	25	24,5	24	23,5	22,8	22	21,3	20,5	19	17	15	13	10		
CS 50-160 C	5,5	4	5,7	8,8	29,5	29,2	28,8	28,3	27,8	27,1	26,4	25,6	24	22,5	20,5	18	15,5		
CS 50-160 B	7,5	5,5	8,2	13,2	37	36,8	36,5	36	35,5	35	34,5	34	32	30,5	28,5	26	23,5	20,5	
CS 50-160 A	10	7,5	9,5	15	40	39,8	39,5	39	38,5	38	37,5	37	35	33,5	31,5	29	26,5	23	
CS 50-200 C	12,5	9,2	12	19	48,7	48,5	48,2	47,8	47,5	47	46,5	45	43,5	42	39,5	37	33		
CS 50-200 B	15	11	13,5	21,5	52,7	52,5	52,2	51,7	51,2	50,7	50,2	49,2	48	46	43,5	41	38		
CS 50-200 A	20	15	18	29	64,5	64	63,5	63	62,5	62	61,5	60,5	59,5	58	56,5	54,5	51,5		
CS 50-250 C	20	15	20	32			71,3	71	70,5	70	69,5	68,5	67	65	63	61	58	54	
CS 50-250 B	25	18,5	23	36,5			80,8	80,5	80	79,5	79	78,5	77	75	73	70,5	68	65	
CS 50-250 A	30	22,5	27	43			90	89,7	89,3	89	88,5	88	86,5	85	83	81	79	71	



DIMENSIONES mm - DIMENSIONS mm				
DN	DE	K	Orificios - Holes	
			n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18
100	220	180	8	18

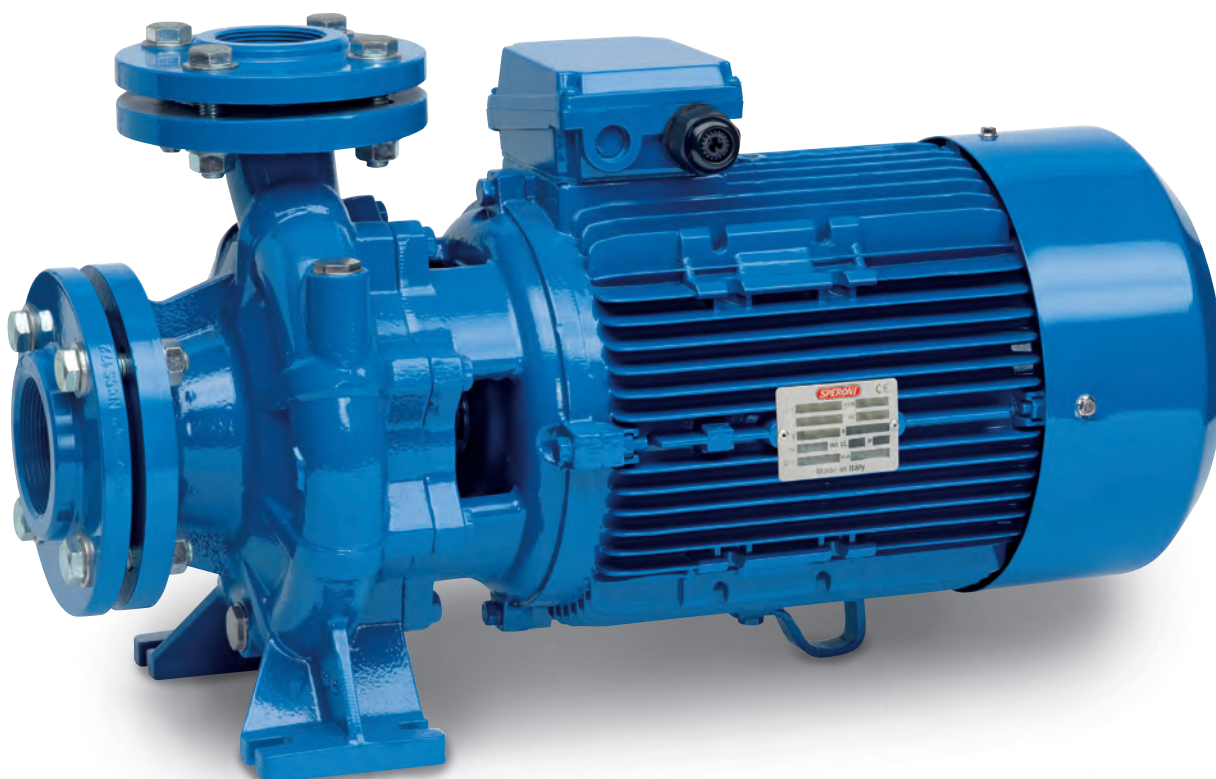
TIPO TYPE	DIMENSIONES mm - DIMENSIONS mm														DIMENSIONES DIMENSIONS mm			PESO WEIGHT Kg	
	A	B	C	D	E	F	G	H	H1	H2	N	O	P	DNA	DNM	P	L		H
Trifásico Three-phase																			
CS 50-160 D	100	70	570	265	212	15	268	372	160	180	100	15	50	65	50	317	680	495	62,1
CS 50-160 C	100	70	570	265	212	15	268	372	160	180	100	15	50	65	50	317	680	495	65
CS 50-160 B	100	70	650	265	212	15	268	372	160	180	100	15	50	65	50	317	680	495	74,8
CS 50-160 A	100	70	650	265	212	15	268	372	160	180	100	15	50	65	50	317	680	495	79,1
CS 50-200 C	100	70	745	265	212	15	335	425	160	200	100	18	50	65	50	372	805	550	123,1
CS 50-200 B	100	70	745	265	212	15	335	425	160	200	100	18	50	65	50	372	805	550	125
CS 50-200 A	100	70	745	265	212	15	335	425	160	200	100	18	50	65	50	372	805	550	132,1
CS 50-250 C	125	95	750	320	250	15	340	435	180	225	100	18	65	65	50	395	865	561	142,2
CS 50-250 B	125	95	795	320	250	15	340	435	180	225	100	18	65	65	50	395	865	561	155,4
CS 50-250 A	125	95	825	320	250	15	360	455	180	225	100	18	65	65	50	395	865	561	210,5

APLICACIONES

Electrobombas centrífugas, monobloque y con un solo rodete, con cuerpo de la bomba, conectado al motor mediante soporte. Con bocas de aspiración y de impulsión embridadas (PN 10) y contrabridas de tipo roscado. Estas máquinas son adecuadas para bombear agua limpia y otros líquidos químicamente y mecánicamente no agresivos; la posibilidad de instalación en cualquier posición, excepto aquella con la boca aspirante dirigida hacia arriba. Adecuadas para las exigencias más variadas en ámbito civil, agrícola, industrial o de instalaciones en general. Suministro de agua, riego por aspersión o por inundación, alimentaciones de autoclaves y sobreelevaciones de presión, calefacción y acondicionamiento y en cualquier otro uso que comporte el trasvase de líquidos limpios en general.

APPLICATION

Centrifugal, monoblock and single-impeller electrical pumps with pump body, with connection to the motor by means of a support unit. With flanged inlet and delivery openings (PN 10) and threaded counter-flanges. These machines are ideal for pumping clean water and other chemically and mechanically non-aggressive liquids. They are adapt for civil, agricultural, industrial or general plant uses. Water supply, spray or flowing irrigation, autoclave feed, high pressure system, heating, conditioning and any other general service requiring transfer of clean liquids.



LÍMITES DE USO

- Temperatura del líquido hasta 35 °C (para un uso doméstico según la norma EN 60335-2-41)
- Temperatura máx. líquido: 90 °C (para otros usos)
- Temperatura ambiente hasta 40 °C.
- Altura de aspiración manométrica de hasta 7 m.
- Servicio continuo

MOTOR

- Motor eléctrico por inducción de 2 polos (n = 3450 min⁻¹)
- Aislamiento Clase F
- Protección IP 55

MATERIALES

- | | |
|------------------|---------------------------|
| - Cuerpo bomba | Fundición |
| - Soporte | Fundición |
| - Rodete | Fundición |
| - Eje motor | Acero inoxidable AISI 304 |
| - Junta mecánica | Cerámica/Grafito/NBR |

OPERATING CONDITIONS

- Liquid temperature up to 35°C (for home use according to EN 60335-2-41)
- Temperature max. liquid: 90°C (for other uses)
- Ambient temperature up to 40°C
- Total suction lift up to 7 mt.
- Continuous duty

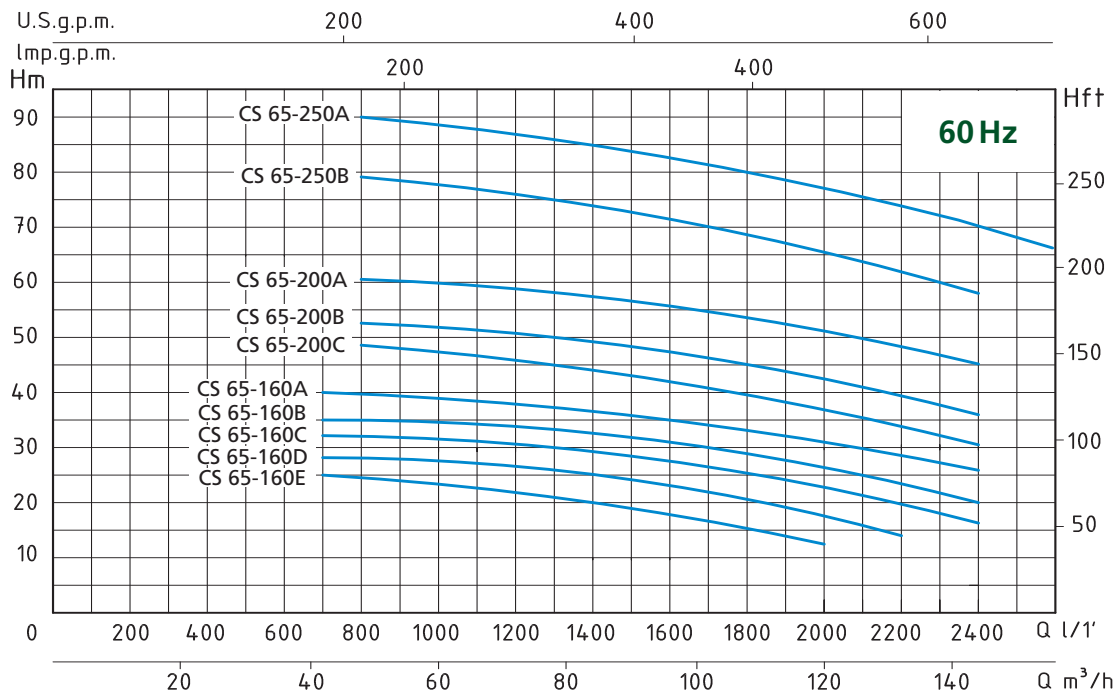
MOTOR

- Two-Pole induction motor (n = 3450 min⁻¹)
- Insulation Class F
- Protection IP 55

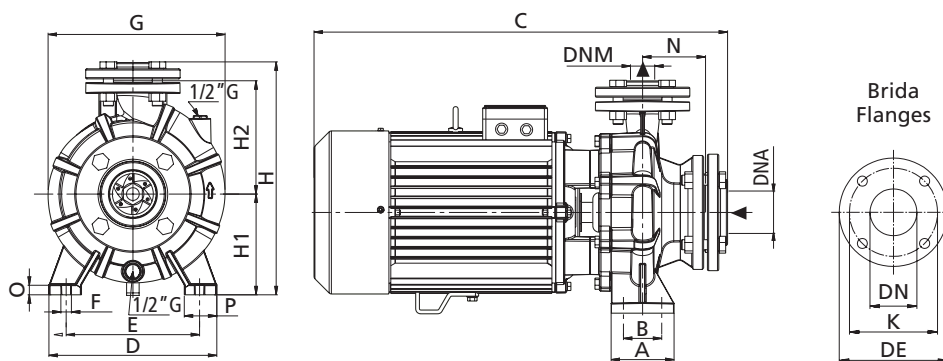
MATERIALS

- | | |
|--------------------|--------------------------|
| - Pump body | Cast Iron |
| - Support | Cast iron |
| - Impeller | Cast iron |
| - Shaft with rotor | Stainless steel AISI 304 |
| - Mechanical seal | Ceramic/Graphite/NBR |

MONOBLOCK CENTRIFUGAL PUMPS



TIPO TYPE	POTENCIA NOMINAL NOMINAL POWER		POTENCIA ABSORBIDA INPUT POWER	AMPERE AMPERE	Q = CAPACIDAD - CAPACITY															
	HP	kW			kW	Trifásico Three-phase	m³/h	42	48	54	60	66	72	78	84	96	108	120	132	144
Trifásico Three-phase					3 x 380V	lt/1'	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000	2200	2400	2600
Carga hidrostática manométrica total en m.C.A. - Total head in meters w.c.																				
CS 65-160 E	7,5	5,5	8	13	H (m)	24,5	24,2	24	23,5	23	22,5	21,5	20,5	18,5	16	12,5				
CS 65-160 D	10	7,5	10	16		28,5	28,2	28	27,5	27	26,5	25,8	25	23	21	18	14			
CS 65-160 C	12,5	9,2	11,5	18,5		32	31,7	31,5	31,2	30,7	30,2	29,7	29	27	25	22	19	16		
CS 65-160 B	15	11	13,5	21,5		35,5	35	34,8	34,5	34	33,5	33	32,5	31	29	26,5	24	20		
CS 65-160 A	20	15	16	26		40	39,5	39	38,5	38	37,5	37	36,5	35,5	33,5	31	28,5	26		
CS 65-200 C	20	15	20	32			48,5	48	47,5	47	46,2	45,5	44,5	42,5	40,5	38	34,5	31		
CS 65-200 B	25	18,5	23	36,5			52,5	52	51,5	51	50,5	50	49	47	45	43	40	36		
CS 65-200 A	30	22,5	27	43			60,5	60	59,5	59	58,5	58	57,5	56	54,5	52,5	49,5	45,5		
CS 65-250 B	40	30	37	58			79	78,5	78	77	76	75	74	72	69	66	63	58		
CS 65-250 A	50	37	46	72			89,5	89	88,5	87,5	86,5	85,5	84	82,5	80	77	74	70	66	



DIMENSIONES mm - DIMENSIONS mm				
DN	DE	K	Orificios - Holes	
			n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18
100	220	180	8	18

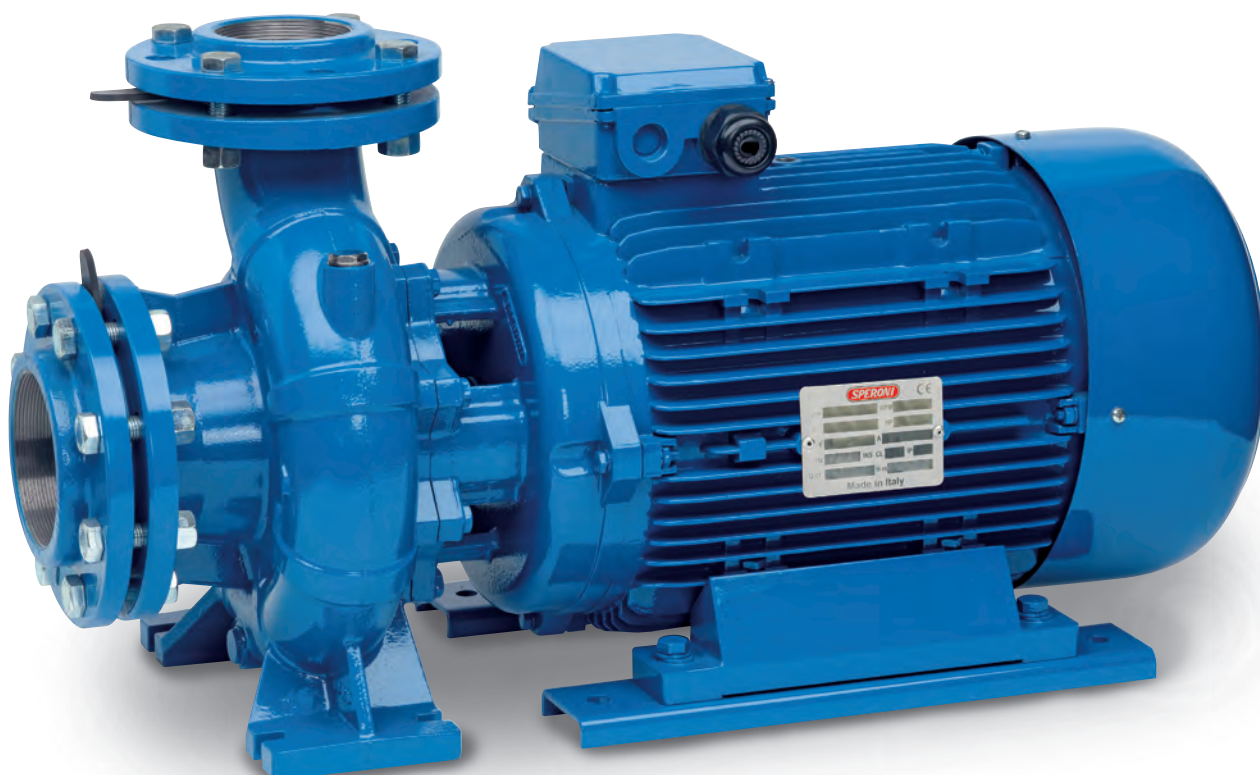
TIPO TYPE	DIMENSIONES mm - DIMENSIONS mm															DIMENSIONES DIMENSIONS mm	PESO WEIGHT		
	A	B	C	D	E	F	G	H	H1	H2	N	O	P	DNA	DNM			P	L
Trifásico - Three-phase																			
CS 65-160 E	125	95	610	280	212	15	295	395	160	200	100	18	65	80	65	317	680	495	82,2
CS 65-160 D	125	95	610	280	212	15	295	395	160	200	100	18	65	80	65	317	680	495	85,6
CS 65-160 C	125	95	750	280	212	15	340	425	160	200	100	18	65	80	65	372	805	550	125,2
CS 65-160 B	125	95	750	280	212	15	340	425	160	200	100	18	65	80	65	372	805	550	125,5
CS 65-160 A	125	95	750	280	212	15	340	425	160	200	100	18	65	80	65	395	865	561	137,2
CS 65-200 C	125	95	745	320	250	15	335	445	180	225	100	18	65	80	65	395	865	561	141,5
CS 65-200 B	125	95	790	320	250	15	335	445	180	225	100	18	65	80	65	395	865	561	156,5
CS 65-200 A	125	95	825	320	250	15	360	455	180	225	100	18	65	80	65	395	865	561	215,5
CS 65-250 B	160	120	825	360	280	18	370	485	200	250	100	18	85	80	65	395	935	580	250,1
CS 65-250 A	160	120	825	360	280	18	370	485	200	250	100	18	85	80	65	395	935	580	258,2

APLICACIONES

Electrobombas centrífugas, monobloque y con un solo rodete, con cuerpo de la bomba, conectado al motor mediante soporte. Con bocas de aspiración y de impulsión embridadas (PN 10) y contrabridas de tipo roscado. Estas máquinas son adecuadas para bombear agua limpia y otros líquidos químicamente y mecánicamente no agresivos; la posibilidad de instalación en cualquier posición, excepto aquella con la boca aspirante dirigida hacia arriba. Adecuadas para las exigencias más variadas en ámbito civil, agrícola, industrial o de instalaciones en general. Suministro de agua, riego por aspersión o por inundación, alimentaciones de autoclaves y sobreelevaciones de presión, calefacción y acondicionamiento y en cualquier otro uso que comporte el trasvase de líquidos limpios en general.

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LÍMITES DE USO

- Temperatura del líquido hasta 35 °C (para un uso doméstico según la norma EN 60335-2-41)
- Temperatura máx. líquido: 90 °C (para otros usos)
- Temperatura ambiente hasta 40 °C.
- Altura de aspiración manométrica de hasta 7 m.
- Servicio continuo

MOTOR

- Motor eléctrico por inducción de 2 polos ($n = 3450 \text{ min}^{-1}$)
- Aislamiento Clase F
- Protección IP 55

MATERIALES

- | | |
|------------------|---------------------------|
| - Cuerpo bomba | Fundición |
| - Soporte | Fundición |
| - Rodete | Fundición |
| - Eje motor | Acero inoxidable AISI 304 |
| - Junta mecánica | Cerámica/Grafito/NBR |

OPERATING CONDITIONS

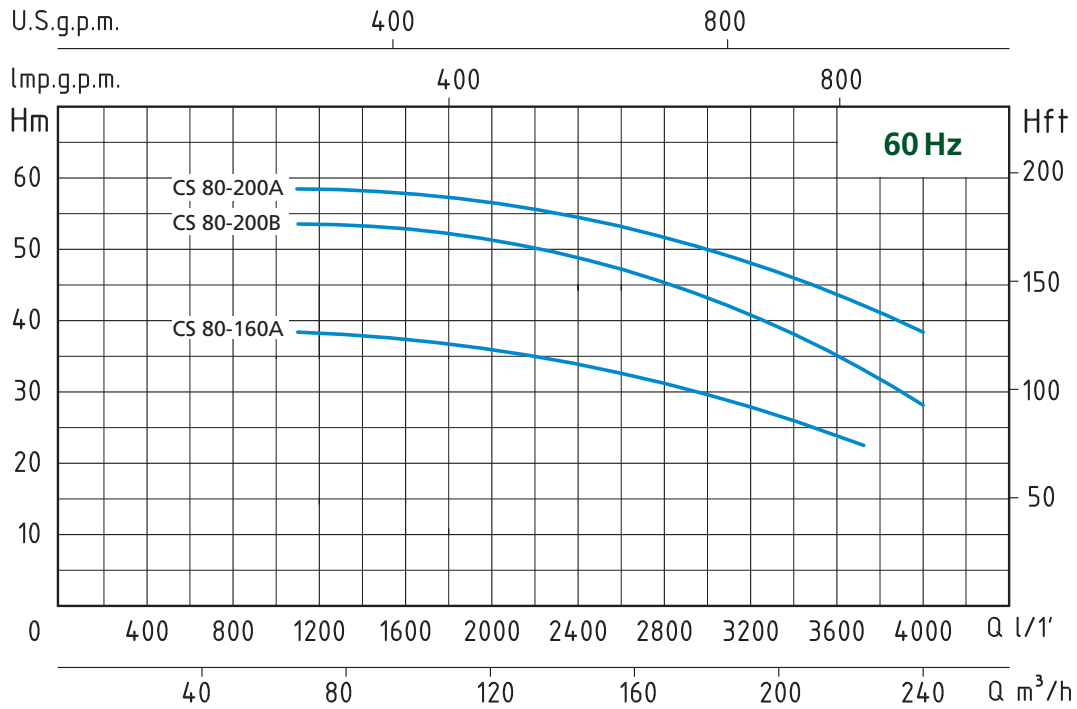
- Liquid temperature up to 35°C (for home use according to EN 60335-2-41)
- Temperature max. liquid: 90°C (for other uses)
- Ambient temperature up to 40°C
- Total suction lift up to 7 mt.
- Continuous duty

MOTOR

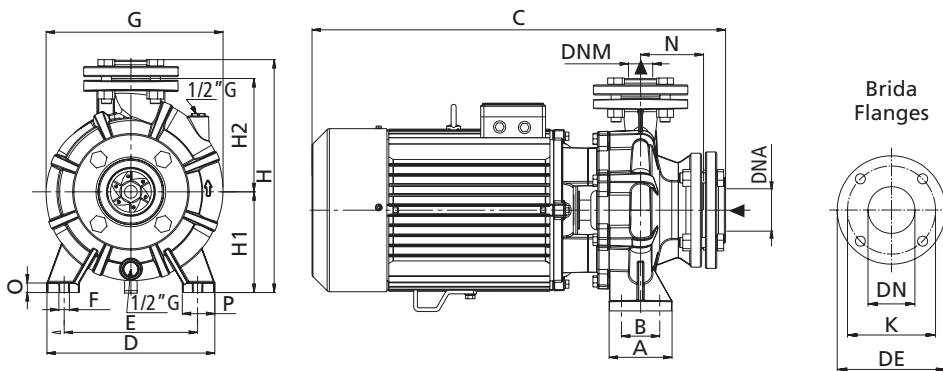
- Two-Pole induction motor ($n = 3450 \text{ min}^{-1}$)
- Insulation Class F
- Protection IP 55

MATERIALS

- | | |
|--------------------|--------------------------|
| - Pump body | Cast Iron |
| - Support | Cast iron |
| - Impeller | Cast iron |
| - Shaft with rotor | Stainless steel AISI 304 |
| - Mechanical seal | Ceramic/Graphite/NBR |



TIPO TYPE	POTENCIA NOMINAL NOMINAL POWER	POTENCIA ABSORBIDA INPUT POWER	AMPERIO AMPERE	Q = CAPACIDAD - CAPACITY																
				m³/h	66	72	78	84	96	108	120	132	144	156	168	180	195	210	225	240
Trifásico Three-phase	P2	P1	Trifásico Three-phase 3 x 380V	lt/1'	1100	1200	1300	1400	1600	1800	2000	2200	2400	2600	2800	3000	3250	3500	3750	4000
	HP	kW		Carga hidrostática manométrica total en m.C.A. - Total head in meters w.c.																
CS 80-160 A	30	22,5	22	35	H (m)	38,6	38,5	38,2	38	37,7	37	36,3	35,3	34,2	33	31,6	30	27,8	25	22
CS 80-200 B	40	30	33,5	54	54,1	54	53,8	53,6	53,1	52,2	51,3	50,4	49,2	47,7	46,2	44,2	41,2	38	33,6	28,5
CS 80-200 A	50	37	39	62	58,8	58,7	58,5	58,3	57,8	57,2	56,3	55,4	54,2	53	51,5	50	48	45	42	39



DIMENSIONES mm - DIMENSIONS mm				
DN	DE	K	Orificios - Holes	
			n°	Ø
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	4	18
80	200	160	8	18
100	220	180	8	18

TIPO TYPE	DIMENSIONES mm - DIMENSIONS mm															DIMENSIONES DIMENSIONS mm			PESO WEIGHT Kg	
	A	B	C	D	E	F	G	H	H1	H2	N	O	P	DNA	DNM	P	L	H		
Trifásico Three-phase																				
CS 80-160 A	125	95	870	320	250	15	360	445	180	225	125	18	65	100	80	395	935	580	219,1	
CS 80-200 B	125	95	900	345	280	15	360	470	180	250	125	18	65	100	80	395	935	580	247,2	
CS 80-200 A	125	95	900	345	280	15	360	470	180	250	125	18	65	100	80	395	935	580	258,5	



WATER PUMPS

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Tank POWER 3 Stage Filter



- New Tank Power – 3 Stage Filter with MicroShield® Technology, provides healthy premium drinking water as it filters out 99.9% of Impurities, Silt, Insects, Rust, Chlorine, Gases, Organic Materials, Taste and Odor.
- DIY: Easy self-installation!
- Compact and Convenient
- Hanging Handles included for easy wall hanging for a free counter top
- Anti-Rust Base – Food Grade Plastic Base.
- Leak Proof with Safety Double O Ring.
- FDA Approved, Food Grade Material
- Durable, Food Grade Stainless Steel Faucet
- Widely available Tank Power Replacement Cartridges
- Available: Tank Power 3 stage with cartridges that last up to one year.

- فلتر Tank Power 3 مراحل الحديد بتكنولوجيا MicroShield® يقدم مياه شرب صحية و نقية بجوده عاليه حيث ينقي المياه من 99.9% من الشوائب، الأتربة، الحشرات، الضد، الكلور، الغازات، المواد العضوية، الطعم و الرائحة.
- سهل التركيب لا يحتاج فني.
- شكل مدمج مميز
- يحتوي علي حامل لتعليق لسهولة تعليقه علي الحائط و توفير المساحة
- قاعدة ضد الصدأ - مصنوعة من البلاستيك المخصص للاستعمال مع الأكل و الشراب.
- ديل جوان لضمان عدم التسريب.
- خامات مخصصة للأكل و الشراب و معتمده من منظمة FDA العالمية
- مزود بصنوبرمصنوع من مواد مقاومة للصدأ.
- شمعات الفلتر Tank Power متوفرة في جميع منافذ البيع.
- متوفر منه Tank Power 3 مراحل بسمك يحكي حتى سنة.

Product Capacity	Product Weight (grams)		Product Dimensions (mm)			Packed Product Dimensions			Container Capacity (Unit in 40 FT High Cube)
	Net Weight	Gross Weight	L	W	H	L	W	H	
3 Months	3266	3858	39.0	10.0	29.5	40.0	18.0	30.5	3846
12 Months	4486	5105	39.0	10.0	29.5	44.0	20.5	30.5	3200

نوع المنتج	وزن المنتج (جرام)		أبعاد المنتج (مم)			أبعاد المنتج المعبأ			سعة الحاوية (الوحدة في مكعب ارتفاع 40 قدم)
	الوزن الصافي	الوزن الإجمالي	طول	عرض	ارتفاع	طول	عرض	ارتفاع	
3 أشهر	3266	3858	39.0	10.0	29.5	40.0	18.0	30.5	3846
12 شهر	4486	5105	39.0	10.0	29.5	44.0	20.5	30.5	3200

Tank POWER 5 Stage Filter



- New Tank Power – 5 Stage Filter with MicroShield® Technology, provides premium, healthy drinking water as it filters out 99.9% of Impurities, Silt, Insects, Rust, Chlorine, Gases, Organic Materials, Taste, Odor and neutralizes acidity and pH levels in water.
- Compact and Convenient for below the sink installation
- Easy wall hanging option
- Anti-Rust Base – Food Grade Plastic Base.
- Leak Proof with Safety Double O Ring.
- Durable, Food Grade Stainless Steel Faucet
- FDA Approved, Food Grade Material
- Durable, Food Grade Stainless Steel Faucet
- Widely available Tank Power Replacement Cartridges

- فلتر Tank Power 5 مراحل الحديد بتكنولوجيا MicroShield® يقدم مياه شرب صحية و نقية بجوده عاليه حيث ينقي المياه من 99.9% من الشوائب، الأتربة، الحشرات، الضد، الكلور، الغازات، المواد العضوية، الطعم و الرائحة ويعادل نسبة الحمضية في المياه و يزيد القلوية فيها.
- مثالي للتركيب تحت الحوض.
- سهولة تعليقه علي الحائط و توفير المساحة
- قاعدة ضد الصدأ - مصنوعة من البلاستيك المخصص للاستعمال مع الأكل و الشراب.
- ديل جوان لضمان عدم التسريب.
- خامات مخصصة للأكل و الشراب و معتمده من منظمة FDA العالمية
- مزود بصنوبرمصنوع من مواد مقاومة للصدأ.
- شمعات الفلتر Tank Power متوفرة في جميع منافذ البيع.

Product Capacity	Product Weight (grams)		Product Dimensions (mm)			Packed Product Dimensions			Container Capacity (Unit in 40 FT High Cube)
	Net Weight	Gross Weight	L	W	H	L	W	H	
5 Stage Filter	5180	5800	40.3	14.0	36.5	41.0	15.5	37.0	3450

نوع المنتج	وزن المنتج (جرام)		أبعاد المنتج (مم)			أبعاد المنتج المعبأ			سعة الحاوية (الوحدة في مكعب ارتفاع 40 قدم)
	الوزن الصافي	الوزن الإجمالي	طول	عرض	ارتفاع	طول	عرض	ارتفاع	
5 مراحل	5180	5800	40.3	14.0	36.5	41.0	15.5	37.0	3450

Tank POWER RO 7 Stage Filter



- New Tank Power – 7 Stage RO Filter with MicroShield® Technology, provides premium, healthy drinking water as it filters out 99.9% of Impurities, Silt, Insects, Rust, Chlorine, Gases, Organic Materials, Taste, Odor, Harmful TDS, Viruses, Bacteria, Heavy Metals. The water is increased in its alkalinity. As a final stage the water is energized with Oxygen which cares for a better blood circulation in the body.
- Compact and Convenient for below the sink installation
- Anti-Rust Base – Food Grade Plastic Base.
- Leak Proof with Safety Double O Ring.
- FDA Approved, Food Grade Material
- Durable, Food Grade Stainless Steel Faucet
- Widely available Tank Power Replacement Cartridges

- فلتر Tank Power RO 7 مراحل الحديد بتكنولوجيا MicroShield® يقدم مياه شرب صحية و نقية بجوده عاليه حيث يفلتر المياه من 99.9% من الشوائب، الأتربة، الحشرات، الضد، الكلور، الغازات، المواد العضوية، الطعم، الرائحة، الأملاح الذائبة الصاره ، الفيروسات ، البكتيريا ، ويعادل نسبة الحمضية في المياه بالإضافة إلي المرحلة الأخيرة والتي تزيد نسبة الأوكسجين في المياه مما يترتب عليه تحسين الدورة الدموية في الجسم.
- مثالي للتركيب تحت الحوض.
- قاعدة ضد الصدأ - مصنوعة من البلاستيك المخصص للاستعمال مع الأكل و الشراب.
- ديل جوان لضمان عدم التسريب.
- خامات مخصصة للأكل و الشراب و معتمده من منظمة FDA العالمية
- مزود بصنوبرمصنوع من مواد مقاومة للصدأ.
- شمعات الفلتر Tank Power متوفرة في جميع منافذ البيع.

Product Capacity	Product Weight (grams)		Product Dimensions (mm)			Packed Product Dimensions			Container Capacity (Unit in 40 FT High Cube)
	Net Weight	Gross Weight	L	W	H	L	W	H	
RO 7 Stage Filter	12535	14150	40.3	20.5	43.5	45.0	44.0	46.0	780

نوع المنتج	وزن المنتج (جرام)		أبعاد المنتج (مم)			أبعاد المنتج المعبأ			سعة الحاوية (الوحدة في مكعب ارتفاع 40 قدم)
	الوزن الصافي	الوزن الإجمالي	طول	عرض	ارتفاع	طول	عرض	ارتفاع	
7 مراحل	12535	14150	40.3	20.5	43.5	45.0	44.0	46.0	780

النوع الغربي
(WESTERN TYPE)

SHAPE الشكل

هيكل مستطيل مع مائل علوي وباب مفصلي قابل للقفل
RECTANGLE SHELL WITH SLOPE TOP & HINGED LOCKABLE DOOR

SIZE الحجم

١٢٥سم (طول) X ١٠٥سم (عرض) X ٢٥٠سم (ارتفاع)

125 CMS. (L) X 105 CMS. (W) X 250 CMS (H)

FINISH التشطيب

تشطيب ناعم من الداخل والخارج

INSIDE & OUTSIDE SMOOTH FINISH.

COLOUR اللون

اللون البيج من الخارج ، من الداخل الأبيض

OUTSIDE BAIGE COLOUR, INSIDE WHITE.

WEIGHT APPROX الوزن

٢٠٠ كيلوجرام 200 KGS.

FITTING ACCESSORIES: ملحقات التركيب:

CERAMIC WESTERN TYPE SEATER
WITH FLUSH TANK & CLEANING HOSE,

WASH BASIN WITH TAP,

MIRROR,

SHOWER & MIXER, DRAIN PIPES
WITH COMPLETE PLUMBING WORK

EXHAUST FAN,

LIGHT WITH SWITCH & COMPLETE WIRING
WITH PLASTIC TRUNKING



كرسي من النوع الغربي من السيراميك
مع خزان التنظيف وخرطوم التنظيف

حوض غسيل مع صنوبر

مرآة

دش وخطاب ، تصريف الأنابيب
مع أعمال السباكة الكاملة

مروحة شفت

ضوء مع مفتاح وأسلاك كاملة
مع الكابلات البلاستيكية

النوع العربي
(Arabic Type)

SHAPE الشكل

هيكل مستطيل مع مائل علوي وباب مفصلي قابل للقفل
RECTANGLE SHELL WITH SLOPE TOP & HINGED LOCKABLE DOOR

SIZE الحجم

١٢٥سم (طول) X ١٠٥سم (عرض) X ٢٥٠سم (ارتفاع)

125 CMS. (L) X 105 CMS. (W) X 250 CMS (H)

FINISH التشطيب

تشطيب ناعم من الداخل والخارج

INSIDE & OUTSIDE SMOOTH FINISH.

COLOUR اللون

اللون البيج من الخارج ، من الداخل الأبيض

OUTSIDE BAIGE COLOUR, INSIDE WHITE.

WEIGHT APPROX الوزن

٢٠٠ كيلوجرام 200 KGS.

FITTING ACCESSORIES: ملحقات التركيب:

CERAMIC ARABIC TYPE SEATER
WITH FLUSH TANK & CLEANING HOSE,

WASH BASIN WITH TAP,

MIRROR,

SHOWER & MIXER, DRAIN PIPES
WITH COMPLETE PLUMBING WORK

EXHAUST FAN,

LIGHT WITH SWITCH & COMPLETE WIRING
WITH PLASTIC TRUNKING



كرسي من النوع العربي من السيراميك
مع خزان التنظيف وخرطوم التنظيف

حوض غسيل مع صنوبر

مرآة

دش وخطاب ، تصريف الأنابيب
مع أعمال السباكة الكاملة

مروحة شفت

ضوء مع مفتاح وأسلاك كاملة
مع الكابلات البلاستيكية

أنظمة تصريف المياه العازلة للصوت

Silenta Premium عبارة عن نظام أنابيب مجاري عازل للصوت مكون من ثلاثة طبقات مصنوع من مادة (البولي بروبيلين) PP والتي تم تشكيلها وتقويتها خصيصا للتصريف المنزلي غير المضغوط وفقا لمعايير النظام EN 1451 و DIN 4109 و DIN 4102 والتي تم



الإعتمادات والشهادات

تصنع منتجاتها وفقا للمعايير الأوروبية والمعايير التركية المكافئة للمعايير الأوروبية، تعتبر شركتنا مؤسسة رائدة وديناميكية من حيث التحسين المستمر ورضاء العملاء.

بعض شهادات جودة المنتج لشركتنا هي كما يلي:

DVGW (ألمانيا) - SKZ (ألمانيا) - معهد النظافة (ألمانيا) - فراونوفر (ألمانيا) - Nordic Polymark (السويد) - AENOR (إسبانيا) - UkrSepro (أوكرانيا) - GOST (روسيا) - SABS (جنوب إفريقيا) - TSE (تركيا) - SASO (المملكة العربية السعودية)

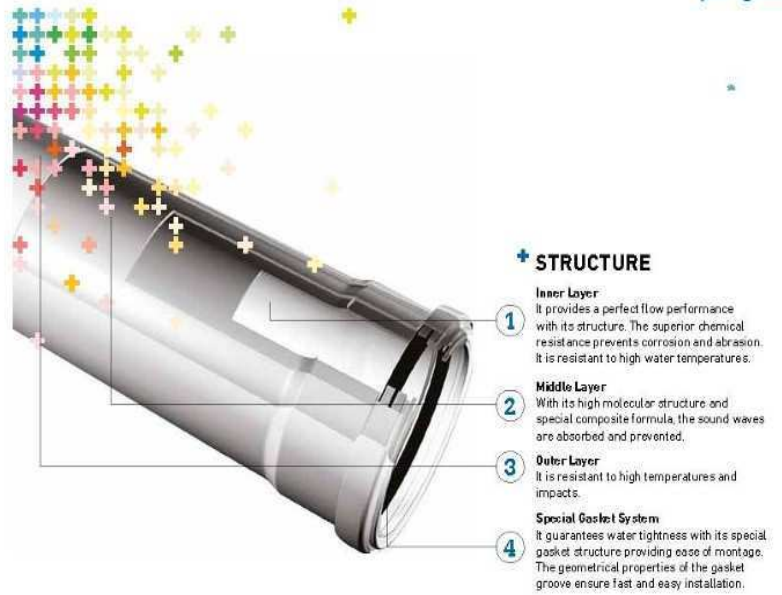
مجالات التطبيق

- مباني المكاتب وقاعات المؤتمرات وغيرها
- المدارس والمكتبات والمستشفيات والفنادق والمنزل
- جميع أنظمة الصرف الجوفية بين المبنى وخط الأنابيب الرئيسي
- المباني المستدامة / الخضراء
- المناطق الصناعية (استخدام قصير وطويل الأجل)

من خلال تقديم معايير منتجاتها بطريقة توفر الجودة والاستمرارية المطلوبة للعملاء، تقوم شركة GF Hakan Plastik بتصدير منتجاتها إلى أكثر من 70 دولة بناء على هذه الشهادات. بالإضافة إلى جودة المنتج، تم اعتماد عملية وجودة نظام GF Hakan Plastik من قبل BVQI من خلال شهادة ISO 9001: 2015 وتواصل الشركة جهودها في مجال الشهادات.

شركتنا التي تعطي الأولوية القصوى لجودة العملية والنظام لديها أيضا شهادة ISO 14001: 2015 وشهادة OHSAS 18001: 2007. كلا مصنعي الإنتاج في سيركيزكوي وشانلي أورفا حاصلان على شهادات اعتماد المختبرات 2012 TS EN SO / IEC 17025: 2012 الممنوحة من منظمة TÜRKAK.

الخصائص التقنية



+ STRUCTURE

- Inner Layer**
It provides a perfect flow performance with its structure. The superior chemical resistance prevents corrosion and abrasion. It is resistant to high water temperatures.
- Middle Layer**
With its high molecular structure and special composite formula, the sound waves are absorbed and prevented.
- Outer Layer**
It is resistant to high temperatures and impacts.
- Special Gasket System**
It guarantees water tightness with its special gasket structure providing ease of montage. The geometrical properties of the gasket groove ensure fast and easy installation.

+ Technical Properties

Pipe Structure	3-Layered (Special PP-Mineral reinforced composite)
Diameters (mm)	ø58, ø78, ø90, ø110, ø135, ø160, ø200
Pipe length (mm)	150, 250, 500, 1000, 2000, 3000
Sound transmission	13 dB(A) at 4 U/s (EN 14366)
Fire class	B2 (DIN 4102)
Joining method	Joining with Rubber Gasket and Socket (Push-Fit)
Clamping	With GF Hakan Silent pipe clamps
Color	Light Grey (Halogen-free and Cadmium-free)
Installation	Very easy to install thanks to its weight lower than cast-iron pipes
Thermal expansion coefficient	0.04 mm/mK
Tensile strength	13 N/mm ²
Chemical resistance	Resistant to organic and inorganic chemical environments for pH values between 2 and 12
Installation temperature	Minimum: -10°C Maximum: 60°C
Operating temperature	Minimum: -10°C Maximum: 97°C
Application class	B/D (building / drainage)
Ring Stiffness	ISO/DIN 9969. The ring stiffness is at least 4.6 kN / m ² over the entire range of - dimensions: 58 mm - 200 mm
Impact strength	Complies with EN 1451
Approvals and Certificates	Germany: DIBt, Fraunhofer, Hoch, Ukraine: Sapro, Russia: Gost, Malaysia: Iikram, Turkey: TSE

Certificates

TSE	SRM	TURKAK	GOST-R
AFITI	DIN CERTCO	SGS	ERA
UkrSepro	kiwa	WRAS	

+GF+

صناعة سويسرية من شركة
جورج فيشر مع خبرة أكثر من 40 سنة
Benefit from more than 40 years of experience!

أنظمة مواسير البيكس لتوزيع المياه



JRG Sanipex هو أول نظام تركيب لمياه الشرب البلاستيكية يعتمد نظام (أنبوب داخل أنبوب) في العالم وخبرة لأكثر من 40 عامًا. تم تحديث JRG Sanipex باستمرار لتعكس أحدث التقنيات في مجال توزيع المياه واحتياجات السوق.

تتضمن وصلات JRG Sanipex المصنوعة من البرونز اتصالاً آمناً وخاليًا من جيوب الماء المسببة لتكوين البكتيريا وتضمن التدفق الكامل لضغط المياه. يمكن إزالة الوصلة في أي وقت ولا تتطلب أي مواد مانعة للتسرب إضافية. تسمح تقنية الأنابيب داخل الأنابيب بوضع الأنابيب مباشرة في البلاطة الخرسانية واستبدال الأنابيب البكس داخل الأنبوب الخارجي الوافي إذا دعت الحاجة.



هذا يعني أنه يمكن استبدال أنابيب JRG Sanipex ، التي يتم وضعها في أنبوب خارجي واقفي ، في حالة حدوث ثقب في المواسير إذا كان موزع مواسير البكس مرتبًا أو يسهل الوصول إليه ، فيمكن استبدال أنابيب القطر الخارجي بمقاس ٢٠م أو ١٦م الموضوعة في نظام توزيع أحادي بسهولة دون إتلاف الأرضيات أو البلاط.

بالإضافة إلى ذلك ، تمنع مكونات النظام المنسقة تمامًا بشكل فعال انتقال الضوضاء.

الأنابيب البكس متعددة الطبقات

تجمع الأنابيب البكس متعددة الطبقات بين مزايا البلاستيك والمعدن. بفضل مرونة البلاستيك وقوة المعدن ، فإن الأنابيب مناسبة بشكل مثالي لتحمل مجموعة واسعة من درجات الحرارة والضغط في كل من أنظمة المياه الباردة والساخنة. يتكون هيكل الأنابيب من خمس طبقات: طبقة داخلية مواسير PE-X مسحوقة ، عامل لصق ، أنبوب ألومنيوم ملحوم طولياً ، طبقة لاصقة أخرى وطبقة خارجية مسحوقة من مواسير PE-X. تم تطوير PE-X من قبل الشركات المصنعة الشهيرة لبناء تطبيقات التكنولوجيا وتمت الموافقة على استخدامها مع المواد الغذائية ومياه الشرب.

الإعتمادات والشهادات

تصنع منتجاتها وفقاً للمعايير الأوروبية ، تعتبر شركتنا مؤسسة رائدة وديناميكية من حيث التحسين المستمر ورضاء العملاء. بعض شهادات جودة المنتج لشركتنا هي كما يلي:

SVGW – DVGW (ألمانيا) معهد النظافة (ألمانيا) - Nordic Polymark (السويد) - AENOR (إسبانيا)
SABER SASO - WRAS (UK) (المملكة العربية السعودية)

الخصائص التقنية

مواسير البيكس (القابلة للسحب والاستبدال):

Specifications

Materials	PE-Xa, PE-Xc, PE-Xc / AL / PE-X, gunmetal
Dimension range	d12 – d32
Connection technology	Cone grip connection
Operating pressure	Up to 16 bar
Operating temperature	0°C to +95°C
Pipe dimension	d 12, 16, 20, 25, 32 DN 8, 12, 15, 20, 25
Application range	Cold and hot water, HVAC, compressed air, watermist sprinkler systems
Installation	Surface and concealed conduits from distributor to tapping points
Pipes	JRG cross-linked polyethylene (XL-PE) pipes JRG Sanipex MT multilayer composite pipes
Fittings/system components	Gunmetal and plastic
Technology	Pipe-in-pipe system



مجالات التطبيق

إستخدامات متعددة في عدة مناطق سواء لتوصيلات المياه داخل المنازل (الباردة والساخنة) أو للتدفئة / التبريد أو نظام توصيلات شبكة الري ورش المياه.

- يمكن استبدال أنابيب البكس في حال حدوث أي ضرر من خلال صندوق الوصلات المخفية
- الأمثل للإشعاعات خفيفة الوزن والأخشاب والوحدات السكنية مسبقة الصنع
- يمكن تركيبها في أي موضع واتجاه دون الحاجة لوصلات أو أنواع لتغيير الاتجاه

مواسير البيكس (المعددة الطبقات (PEX – AL - PEX):

Specifications

Materials	PE-Xa, PE-Xc, PE-Xc/AL/PE-X, PPSU/PA-GF, gunmetal
Dimension range	d12 - d63
Connection technology	Flared fitting
Operating pressure	Up to 1,000 kPa (10 bar)
Operating temperature	0 °C (up to 95 °C for short periods of time)
Pipe dimensions	d 12, 16, 20, 26, 32, 40, 50, 63 DN 8, 12, 15, 20, 25, 32, 40, 50
Applications	Building technology, maritime applications, industrial applications, hot and cold-water distribution, heating and air-conditioning applications, compressed air, demineralized water, vacuum
Installation	Surface and concealed conduits from distributor to tapping points
Pipes	Multilayer composite and PE-X pipes
Fittings / system components	Gunmetal and plastic



FIRE PROTECTION



Zurn Wilkins Couplings and Fittings

High Quality Fire Protection Products
From the Brand You Trust

Now you can get a full line of grooved fittings and couplings from Zurn Wilkins, the brand you already trust for backflow prevention and PRVs. Available in sizes up to 12 in., for simpler sourcing from a single brand.

Find more information at zurn.com/grooved



Features

- ✓ Trusted name in water control and fire prevention
- ✓ Full UL/FM line of painted and galvanized groove fittings and couplings
- ✓ Available in sizes 1 ¼ in. to 12 in.
- ✓ Rigid couplings come standard with angle pad
- ✓ All gaskets come pre-lubricated
- ✓ All fittings and couplings available in galvanized steel
- ✓ Factory is ISO9001:2015 certified



FP23
Couplings



FP52
Elbows



FP53
Tees



FP63
Mechanical Tees



FP8
Grooved Flanges



FP51
Grooved Reducers



FP56
Crosses



FP3
Caps



Also Available in Galvanized
Fittings and couplings available in galvanized steel

Product Definition



Polyurea consists of two compounds (A and B) that are mixed in equal proportions 1: 1 by means of a special machine called a reactor or reactor. The compounds are shortened for RES, ISO. ISO is the color RES is the active Adhesives Material

Product Features

- Dry time in 30 seconds
- Light on surfaces
- The warranty 7-10 Years according to the polyurea layer thickness
- The degree of expansion of more than 350% of the original size
- Withstand high temperatures - 40 to 200 degrees
- Excellent chemical resistance
- Resistant to scratching, shredding and slip
- The material is environmentally friendly
- The material is quick to implement
- Treating structural and expansion joints



PROMAX RESIDENTIAL ELECTRIC WATER HEATER

PROMAX RESIDENTIAL ELECTRIC WATER HEATER



ECT-30/40/52/55/66/80/120
ECS/ECL/ECJ -30/40/50

Tall, short and lowboy modes available.

- Commercial grade incoloy sheathed elements with Ni-Chrome resistance wire embedded in magnesium oxide Range 3.5 to 4.5 Kw , rated 230 Volt, suitable for 220 - 240 Volt power supply .

- Surface mounted control thermostats with a temperature range from 43 °c/110 °F to maximum 71 °c/160 °F and hi-limit factory fixed setting at 83 °c/ 180 °F .



- Thermostats are accurate to $\pm 2.5^{\circ}\text{C} / ^{\circ}\text{F}$.

- Diffuser dip tube carries incoming cold water from the top connection, to the bottom of the tank to minimize mixing with the hot water in the tank . Helps reduce lime & sediment buildup while maximizing hot water output . made from long-lasting PEX cross-linked polymer .

- Our Coregard™ magnesium anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods .

- Durable, tamper-resistant brass drain valve

- The internal pressure tank is constructed of heavy duty carbon steel. Maximum working pressure is rated at 150psi/10bar. Test pressure per UL 174 std is 300psi/20bar.

- Specially developed glass coating protects tank from corrosion and maximizes tank life.

- Factory installed, side-mounted , CSA/ASME certified T&P safety relief is standard on all models.

- All models are equipped with factory installed heat traps on the inlet and outlet connections to improve energy efficiency.

- Code compliance meets the Federal Energy Efficiency standards according to the 2004 edition of the National Appliance Energy Conservation Act (NAECA) of 1992 and the standby loss requirements of the U. S. Department of Energy and Current Edition of ASHAE/IES 90.1.

- Residential export water heater comply with UL 174, GSO PAL and IEC 60335-2-21. Only models with stanard KW are registered for SASO energy lables

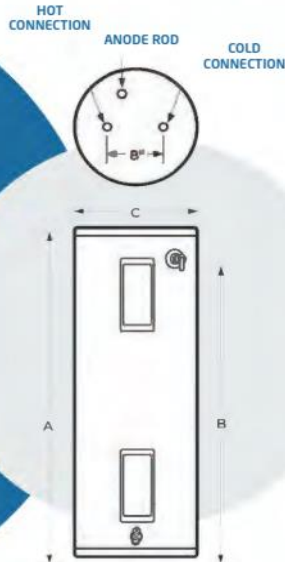
- Limited warranty 6 years on the tank and 6 years on the parts.

INSTALLATION & DIMENSIONS PROMAX

OPTIONS

Element options for export models (depending on model and National Codes of importing country) :

Commercial grade incoloy sheathed elements with Ni-Chrom resistance wire embedded in magnesium oxide, range 4.5 and 3.0 Kw, rated 415 volt, suitable for 415 - 380 Volt, 3 phase power supply are available supply, are available at added cost .



Model Number	Gallon Capacity	Energy Factor	First Hour Rating (Gallons)	Element Wattage	Recovery μF Rise Gallons Per Hour	Water Connection	Dimensions in Inches			Approx. Shipping Weight (lbs)
							A	B	C	
Tall Models										
ECT-30X	28	0.93	43	3500	21	Top	46-1/2	39-1/2	19	90
ECT-40X	36	0.92	52	3500	21	Top	59-1/2	53-1/2	19	106
ECT-52X	45	0.91	60	4500	21	Top	58-1/4	51-1/2	20	116
ECT-55X	54	0.90	67	4500	21	Top	56-1/2	48-1/2	22	175
ECT-66X	60	0.88	72	4500	21	Top	60	53	20-1/2	178
ECT-80X	73	0.86	81	4500	21	Top	60-1/2	52	22-1/2	188
ECT-120X	106	0.83	112	4500	21	Top	61-1/2	54-3/4	28	268
Short Models										
ECT-30X	26	26	26	26	21	Top	39	31	20	94
ECT-40X	36	36	36	36	21	Top	47-1/2	40-3/4	20	103
ECT-50X	46	46	46	46	21	Top	48	40-1/3	21-1/2	121
Lowboy Models										
ECT-30X	28	28	28	28	21	Top	30	22-1/2	22	91
ECT-30X	28	28	28	28	21	Top	30	22-3/4	22	111
ECT-40X	38	38	38	38	21	Top	31-5/8	24	24-1/4	113
ELJN-40X	38	38	38	38	21	Top	31-1/2	25-5/8	24	115
ELJN-40X	38	38	38	38	21	Side	31-1/2	25-5/8	24	113
ECL-50X	48	48	48	48	21	Top	31-5/8	26	24-1/4	133

Recoveries are rounded to nearest gallon, and are based upon the standard element offering. Water connections - 4/3 on all models.

Data subject to change
ME/ECTECS /40



مميزات المنتج
Product Features

High load Capacity
Modern Geometric design
Environment Friendly
Diferent Colors

قدرة تحمل عالية
تصميم هندسي حديث
صديقة للبيئة
ألوان مختلفة



Size	Standard Size	Over Base	Clear Opening	Depth	Weight	Design Load Capacity	Reference Standards
Size 30 x 30 cm:	30x30cm	404x404mm	300x300mm	38mm	4.8 kg	3.5 tons	EN124/SASO412
Size 40 x 40 cm:	40x40cm	480x480mm	400x400mm	38mm	7.40 kg	3.5 tons	EN 124/SASO412
Size 50 x 50 cm:	50x50cm	600x600mm	500x500mm	44mm	11.7 kg	3.5 tons	EN 124/SASO412
Size 60 x 60 cm:	60x60cm	700x700mm	600x600mm	45mm	16.4 kg	3.5 tons	EN 124/SASO412
Size 70 x 70 cm:	70x70cm	808x808mm	700x700mm	46mm	23.1 kg	3.5tons	EN 124/SASO412

standard colors of manhole covers



شهادات الجودة Product Certificates

AL MUHAIDEB NATIONAL
WATER SOLUTIONS



الوطني المهيدب
لحلول المياه





وتفتخر شركتنا بحصول منتجاتنا على عدة شهادات للجوده وذلك للعمل وفق معايير الجوده والتي سنقوم بذكرها كالتى

Our company is proud that our products have obtained several quality certificates in order to work according to quality standards, which we will mention as follows :

SASO

وهى شهاده الجوده وفقا للهيئة السعوديه للمواصفات والمقاييس والجودة

It is a quality certificate according to the Saudi Standards, Metrology and Quality Organization



GSO

كما نقوم بعمل اختبارات خاصه والتصنيع وفق لهيئه التقييس لدول مجلس التعاون الخليجي

We also do special tests and manufacture according to GCC Standardization Organization



ASTM

معيار الجوده فى اجراءات التصنيع وتجاوز اختبارات الجوده

Quality standards in manufacturing procedures and passing quality tests



ISO

معيار عالمى لنظام الجوده فى التصنيع والتسويق والبيع

A global standard for a quality system in manufacturing, marketing and sales



NSF

معيار جوده عالمى يدل على أن المنتج آمن لتخزين مياه الشرب والإستخدام البشرى

An international quality standard indicating that the product is safe for storing water for drinking and for human use



WRAS

هى علامة مطابقة لخزانات البلاستيك انه يتوافق مع المعايير العالية المنصوص عليها فى لوائح المياه

Quality Certificate for plastic tanks that it complies with the high standards For Water regulation advisory Scheme



UL

شهاده خاصه بأمن وسلامه خزانات الفايبرجلاس تحت الارض والخاصه بالمؤسسه العالميه اندر رايتز Underwriters Laboratories

Certification for the safety and security of underground fiberglass tanks, of the international foundation, Underwriters Laboratories.



عملائنا Our clients

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Our Clients



Schlumberger



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+966138331400



INNOBIZ

Venture for Tomorrow



مشاريعنا our projects

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Our Projects



مشروع فلل وزارة الاسكان
المشرقية - حي الجنادرية
The Ministry of Housing villas project
Al-Mashriqiya - Al-Janadriyah District

ارامكو
Aramco



مشروع أمانه الأحساء
Amana Al-Ahsa Project

مدينة الملك عبدالله
King Abdullah City



مشروع مدينة الرياض
Riyadh Township Project

مصنع الراشد للحديد
Alrashed Steel Factory



مشروع مدينة المطار
Airport City Project

الوطنية للدواجن
Alwatania For Chicken



مشروع مرسيا
Murcia Project

سابك
Sabic



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INNObiz

Venture for Tomorrow





تواصل معنا

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