

Recirculation Pump for Swimming Pool Filter Systems

Filtra N

Type Series Booklet



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Type Series Booklet Filtra N

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Domestic Water Supply / Swimming Pools

Recirculation Pumps for Swimming Pool Filtering Systems

Filtra N



Drive

- Surface-cooled
- Enclosure IP44
- Thermal class F

Single-phase AC motor:

- 230 V
- Temperature switch with automatic reset and start-up

Three-phase motor:

- 230/400 V

Shaft seal

- Mechanical seal

Bearings

- Motor runs in grease-lubricated rolling element bearings

Main applications

- Swimming pools

Fluids handled

- Clear water
- Swimming pool water¹⁾
- Not suitable for seawater (35 g/l)

Operating data

Table 1: Operating properties

Characteristic		Value
Flow rate	Q [m³/h]	≤ 36
	Q [l/s]	≤ 10
Head	H [m]	≤ 21
Fluid temperature	T [°C]	≤ +35
Operating pressure	p _d [bar]	≤ 2,5

Design details

Design

- Centrifugal pump
- Single-stage
- Self-priming
- Horizontal installation
- Integrated pre-filter consisting of a filter basket with intermediate pipe; the filter can be hinged open in the middle to facilitate cleaning.

¹ Swimming pool water (0.4 to 1.4 mg/l free chlorine, combined chlorine ≤ 0.6 mg/l, pH 6.9 to 7.7, water hardness 10 to 30 °dH, salt content ≤ 7 g/l)

Designation

Example: Filtra N 6 E

Table 2: Designation key

Code	Description	
Filtra N	Type series	
6	Size / rated flow	
	6	6 m³/h
	8	8 m³/h
	12	12 m³/h
	14	14 m³/h
	18	18 m³/h
	22	22 m³/h
	24	24 m³/h
	30	30 m³/h
E	Drive	
	D	Three-phase motor
	E	Single-phase AC motor

Materials

Table 3: Overview of available materials

Part No. (⇒ Page 9)	Description	Material
101	Pump casing	Polypropylene, 30 % glass fibre reinforced with stainless steel ring
171	Diffuser	Polypropylene, 30 % glass fibre reinforced
230	Impeller	Noryl GFN2
160	Cover	PMMA
210	Shaft	Chrome steel 1.4028
801	Motor housing	Aluminium
160	Discharge cover	Polypropylene, 30 % glass fibre reinforced

Product benefits

- Corrosion-proof thanks to pump casing made of impact-resistant plastic material
- Maintenance-free and reliable due to mechanical seal
- Energy-efficient and low-noise operation of single-phase AC motor with integrated overload protection or three-phase motor
- Low-clogging, hinged filter basket of patented design

Product information

Product information as per Regulation No. 1907/2006 (REACH)

For information as per European chemicals regulation (EC) No. 1907/2006 (REACH) see <https://www.ksb.com/en-global/company/corporate-responsibility/reach>.

Technical data

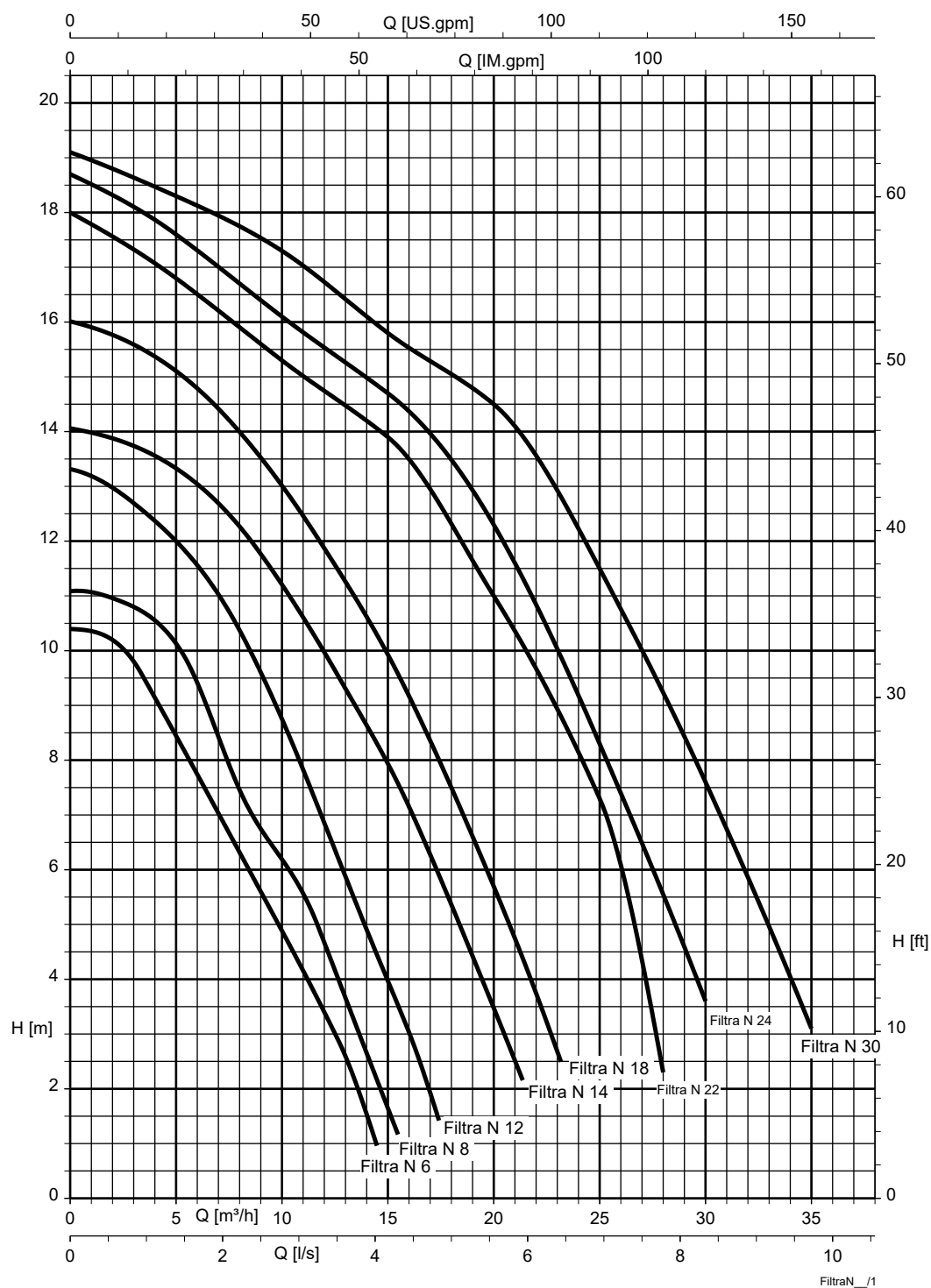
Filtra N

Table 4: Technical data

Size	Connection		P ₁	P _N	I _N			Mat. No.	[kg]
					1~230 V, 50 Hz	3~230 V, 50 Hz	3~400 V, 50 Hz		
	Suction side	Discharge side			[kW]	[kW]	[A]		
6 E	G 2	G 2	0,57	0,37	2,6	-	-	48020325	9,2
6 D	G 2	G 2	0,56	0,55	-	1,9	1,1	48242859	9,2
8 E	G 2	G 2	0,62	0,37	2,8	-	-	48020326	9,2
8 D	G 2	G 2	0,61	0,55	-	2,1	1,2	48242860	9,2
12 E	G 2	G 2	0,73	0,37	3,3	-	-	48020327	9,2
12 D	G 2	G 2	0,66	0,55	-	2,3	1,3	48242861	9,2
14 E	G 2	G 2	0,89	0,75	4,1	-	-	48020328	13
14 D	G 2	G 2	0,80	0,75	-	2,8	1,6	48242862	11
18 E	G 2	G 2	1,05	0,75	4,8	-	-	48020329	13
18 D	G 2	G 2	0,97	0,75	-	3,1	1,8	48242863	11
22 D	G 2	G 2	1,40	1,10	-	4,3	2,5	48242864	13,3
24 D	G 2	G 2	1,60	1,10	-	4,8	2,8	48242865	13,3
30 D	G 2	G 2	2,05	1,10	-	5,5	3,2	48242866	13,3

Characteristic curves

Filtra N 6/8/12/14/18/22/24/30, n = 2800 rpm



Dimensions

Filtra N

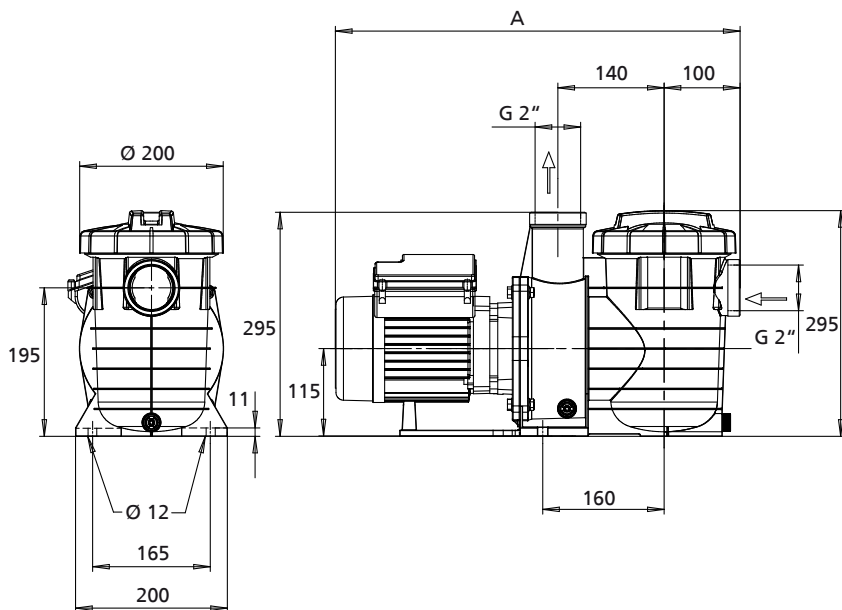


Fig. 1: Dimensions

Table 5: Dimensions

Size	A
	[mm]
6E, 6D, 8E, 8D, 12E, 12D, 14D, 18D	512,5
12E, 14E, 18E	524
22D, 24D, 30D	534

Scope of supply

Depending on the model, the following items are included in the scope of supply:

- Pump set

Accessories

Further required accessories can be purchased from our distributors.



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