

Impeller pumps

Suitable for different flow rates and ensure gentle handling of the pumped material – robust and universally applicable



SCHNEIDER

Maschinenbau GmbH

www.pumpen-schneider.de



Illustration MB-FU

Impeller pump MB series

Highlights

- reliable
- dependable
- versatile
- gentle
- incl. VA chassis

New

- With new spur gear motor
- Pump always turns, quietly and gently

Version

- Gentle pumping of the medium due to low operating speeds
- Stable spur gear motor
- Large impeller
- Shaft protection sleeve on the pump shaft guarantees good sealing of the pump
- Pulsation-free pumping
- Conveying of solids in the product
- incl. emergency stop switch, mains filter and shielded cable

Application examples

Distilling mash, de-stemmed grape mash, wine, must and fruit juices

Technical data

Impeller pump series MB

available in 3 versions with 2 speeds (2-stage) with 400 V 2.6 + 3.1 kW motor

Flow rate	Speed	Max. pressure	Weight
5000 + 10000 l/h	250 / 500 RpM	3,5 bar	47 kg
7500 + 15000 l/h	350 / 700 RpM	4,0 bar	49 kg
10000 + 20000 l/h	450 / 900 RpM	4,0 bar	52 kg

Impeller pump series MB – FU

available in 3 versions with mounted frequency converter in stainless steel housing – infinitely variable with 400 V 3.0/4.0 kW motor

Flow rate	Speed	Max. pressure	Weight
1000–10000 l/h	60 / 500 RpM	3,5 bar	48 kg
1000–15000 l/h	350 / 700 RpM	4,0 bar	50 kg
1000–20000 l/h	450 / 900 RpM	4,0 bar	52 kg

How the impeller pumps work

SCHNEIDER impeller pumps are dry, self-priming rotary pumps that operate with a low-pulsation flow based on the positive displacement principle. The built-in bypass control allows the flow rate and discharge pressure to be finely regulated. The elastic impeller can pump liquids with different viscosities and is relatively insensitive to foreign bodies.

As the impeller rotates in the pump housing, liquid is sucked into the chambers between the vanes, transported further in the chambers and pressed out at the discharge nozzle.

The change in volume is due to a bending of the vanes in the housing. The built-in reversing switch enables pumping in both directions.

Technical information

Viscosity

The pump is capable of pumping liquids in the viscosity range from 1.0 to 600 mPa at a speed of 1400 l/min.

Solids content

Liquids with low solids content without abrasive components up to a maximum size of 3 mm can be pumped, but the impeller pump is subject to considerably greater wear in this case.

Viscosity

The pump is not suitable for viscous media such as pastes, glue, honey, etc. If the impeller pump is equipped with a slow-running motor, the maximum limit is a viscosity of 1000 mPa.

Density

The maximum density of the liquid to be pumped is 1.2 kg/dm³.

Temperature

The pumped liquid must be within the temperature range of 5 °C to 60 °C.



Impeller pump Reform B – 230 V / 1-ph.

- Stainless steel pump housing
- Motor protection reversing switch
- Stainless steel chassis
- With or without bypass regulation
- Mobile or stationary

Universally applicable pump, for small and medium power ranges with 1-ph. AC motors. Particularly suitable for areas without a 400 V socket.

Technical data

available in 2 versions

Flow rate	Motor	Max. pressure	Weight
5000 l/h	230 V / 0,75 kW	3,5 bar	19 kg
10000 l/h	230 V / 1,50 kW	4,0 bar	27 kg

Performance table ± 5 % based on water + 20 °C

Flow rate	Pressure in bar				
	0	0,5	1,0	1,5	2,0
5000 l/h	5000	4800	4200	3900	3000
10000 l/h	10800	10200	10000	9500	9000



Impeller pump Reform B – 400 V / 3-ph.

- Stainless steel pump housing
- Reversing switch
- Stainless steel chassis
- With or without bypass regulation
- Mobile or stationary

This pump is suitable for small, medium and higher performance ranges.

Technical data

available in 5 versions

Flow rate	Motor	Max. pressure	Weight
5000 l/h	400 V / 0,75 kW	3,5 bar	18 kg
10000 l/h	400 V / 1,50 kW	4,0 bar	27 kg
15000 l/h	400 V / 2,20 kW	4,0 bar	33 kg
20000 l/h	400 V / 2,20 kW	4,0 bar	37 kg
33000 l/h	400 V / 4,00 kW	4,0 bar	56 kg

Performance table $\pm 5\%$ based on water + 20 °C

Q (l/h)	Pressure in bar					
	0	0,5	1,0	1,5	2,0	2,5
5000 l/h	5000	4800	4200	3900	3200	2600
10000 l/h	10800	10200	10000	9500	9000	8300
15000 l/h	15200	14000	13000	12500	12000	10500
20000 l/h	19800	19100	17800	16400	14700	13000
33000 l/h	28000	27300	26000	24100	22000	19500



Impeller pump Reform B – RGT

- Stainless steel pump housing
- Variable speed gearbox
- Motor protection reversing switch
- Stainless steel chassis
- With or without bypass regulation
- Mobile or stationary

Universally applicable impeller pump, as the delivery rate of the pump can be controlled by means of an infinitely variable friction gear. Particularly gentle treatment of the pumped material.

Technical data

available in 2 versions

Flow rate	Motor	Max. pressure	Weight
100–5000 l/h	400 V / 0,75 kW	3,5 bar	34 kg
500–11000 l/h	400 V / 1,50 kW	4,0 bar	51 kg

Performance table $\pm 5\%$ based on water + 20 °C

Performance table $\pm 5\%$ based on water + 20 °C

Flow rate	Pressure in bar					
	0	0,5	1,0	1,5	2,0	2,5
100–5000 l/h	6000	5625	4865	3673	3000	
500–11000 l/h	11000	10000	8400	7700	7000	



Impeller pump Reform B – FU

- Stainless steel pump housing
- Frequency-controlled motor
- Stainless steel chassis
- With or without bypass regulation
- Mobile or stationary
- Protection class IP 55

Universally applicable impeller pump, as the flow rate of the SCHNEIDER pump can be electronically controlled by a mounted frequency converter (FC) in protection class IP 55. Particularly gentle handling of the pumped material.

Technical data

available in 3 versions

Flow rate	Motor	Max. pressure	Weight
100–5000 l/h	400 V / 0,75 kW	3,5 bar	21 kg
500–10000 l/h	400 V / 1,5 kW	4,0 bar	35 kg
800–15000 l/h	400 V / 2,2 kW	4,0 bar	44 kg

Performance table ± 5 % based on water + 20 °C

Flow rate	Pressure in bar				
	0	0,5	1,0	1,5	2,0
100–5000 l/h	5000	4800	4200	3900	3000
500–10000 l/h	10800	10200	10000	9500	9000
800–15000 l/h	15200	14000	13000	12500	12000



Impeller pump Reform B (2-step)

- Stainless steel pump housing
- Pole-changing motor with 2 speeds
- Motor protection reversing switch
- Stainless steel chassis
- With or without bypass regulation
- Mobile or stationary

A versatile pump that can be operated at two speeds. Motor protection switch is standard.

Technical data

available in 4 versions

Flow rate	Motor	Max. pressure	Weight
2500 + 5000 l/h	400V 0,6kW + 1,0kW	3,5 bar	30 kg
5000 + 10000 l/h	400V 1,3kW + 2,2 kW	4,0 bar	42 kg
7500 + 15000 l/h	400V 1,3kW + 2,2 kW	4,0 bar	44 kg
10000 + 20000 l/h	400V 1,3kW + 2,2 kW	4,0 bar	46 kg

Schneider Maschinenbau GmbH specializes in the development, production and sale of food pumps and agitators. We became known for our impeller pumps, a robust and versatile pump that is highly regarded by winegrowers and can be found in all winegrowing regions in Europe.

In addition to the food industry, our products are also used in the chemical and pharmaceutical industries. We attach great importance to the quality of our products, short delivery times and individual customer requirements. Modern production and in-house design guarantee a high standard of quality.

Our Products

Impeller pumps / Progressing cavity pumps / Agitators / Flotation systems Flow meters / Steam generators / Control system: Pressure control, dry-running protection, frequency inverter, app / Pressure control for progressing cavity pumps for feeding chamber filter presses Vario Control



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