

Drainage pumps SÖFFEL* B

Design

The **oddesse** drainage pumps SÖFFEL* are single stage centrifugal pumps with open multi blade impeller. They can be used for vertical, horizontal or inlined installation.

The double casing made of aluminum alloy (AlSi10Mg-T6) guarantees the best cooling of the motor by circulating the pumped fluid. The pump can be used for continuous working-, sipping suction and emerging operation. The water- and oil-side mechanical seals are made of silicon carbide and guarantee a safety sealing of the motor and work independent of direction of rotation.

The impeller (made of stainless steel 1.4470) and the wear resistant diffuser guarantee a long life cycle. The anti-friction bearings are life time grease lubricated. They assure a vibration-free operation.

The motors are designed as three phase AC motors equipped with a thermal winding protection.

Fields of application

The drainage pumps SÖFFEL* B are used for the delivery of clean or dirty water with solid admixtures up to a particle size of 10 mm, a pH-value from 4 up to 8 and a medium temperature during continuous operation of up to 40 °C, for a short time up to 60 °C.

- water supply in construction industry and in mining
- watering and draining in communities, gardens and domestic sectors
- used in disastered areas and by fire brigades
- water supply in industry and agriculture
- fountains

Material specification

Components	Design	
Casing	Aluminium alloy	AlSi10Mg-T6
Stator sleeve	Stainless steel	1.4301
Inlet strainer	Stainless steel	1.4301
Impeller	Stainless steel	1.4470
Diffuser	Aluminium rubberised	AlSi10Mg-T6/NBR
Shaft	Stainless steel	1.4404
Shaft sealing	Double mechanical seal	SiC/SiC
Fasteners	Stainless steel	1.4301

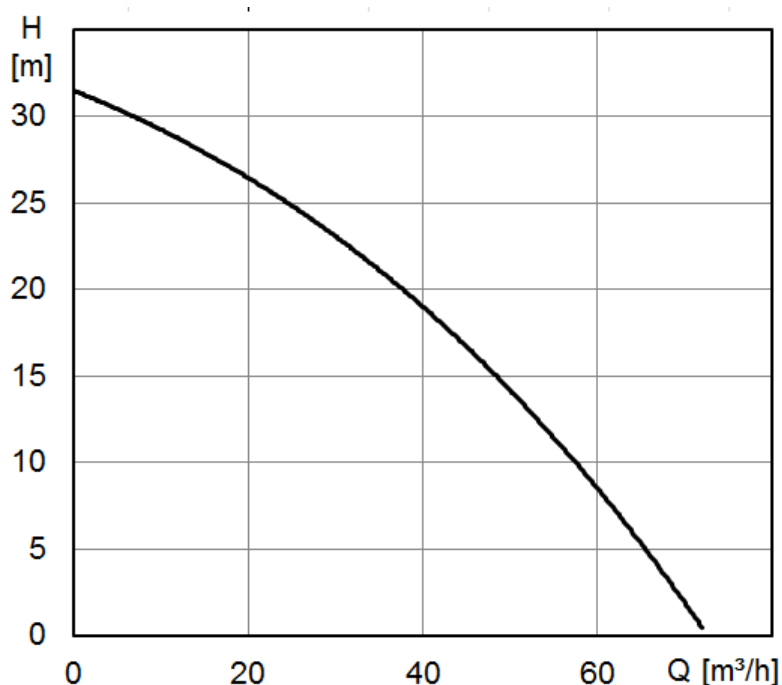
Electrical connection

- 23 m rubber-jacket cable
- alternatively with phase reversing connector,
- with motor protection connector plug or
- with motor protection connector plug and float switch

Technical data SÖFFEL* B65

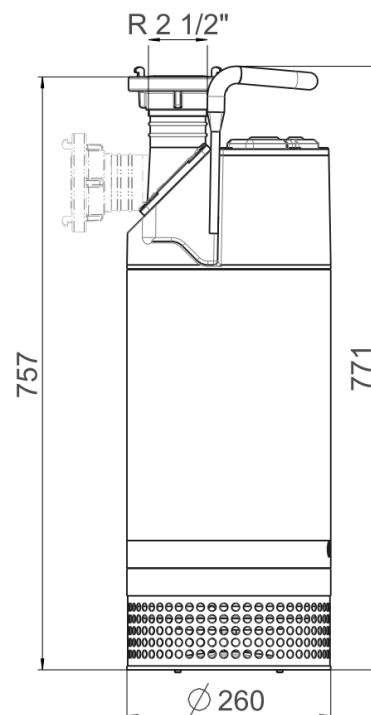
- Delivery rate range 72.0 – 0 m³/h
- Delivery head range 0 – 31.5 m
- Medium temperature max. 40 °C, for a short time 60 °C
- Immersion depth max. 20 m
- Density max. 1100 kg/m³
- pH-value 4 - 8
- Nominal voltage 400 V / 500 V 3~, 50 Hz
- Nominal current 7.8 A / 6.2 A
- Nominal speed 2900 1/min
- Power P1 / P2 4.6 kW / 3.9 kW
- Degree of protection DIN IP68
- Weight 49 kg (without cable)
- Thread connection R 2 ½" external thread
- Coupling Storz B
- Hose connection Ø 2 ½"

Characteristic curve SÖFFEL* B65



Q [m ³ /h]	0	11	21	30	40	53	66	72
Q [l/s]	0	3	6	8	11	15	18	20
H [m]	32	29	26	24	18	12	5	0

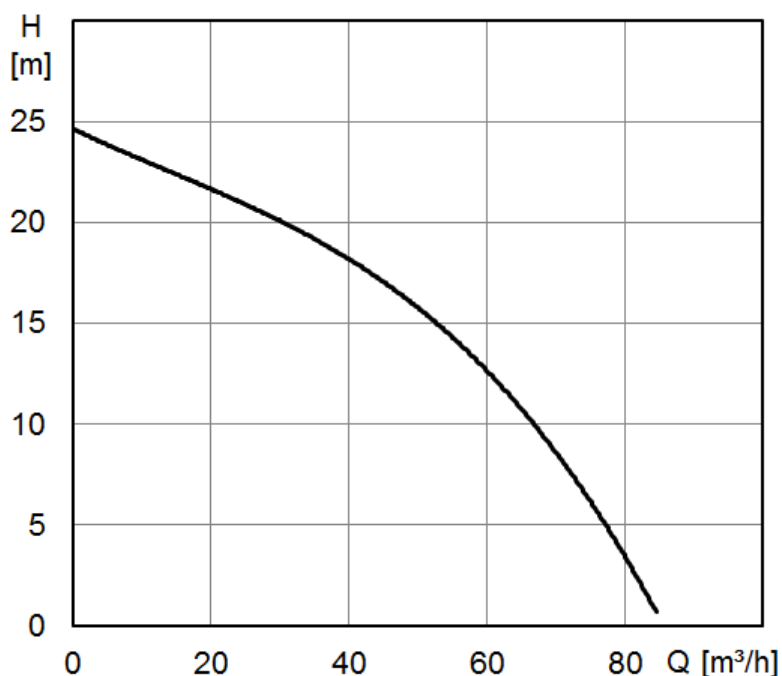
Dimensions SÖFFEL* B65



Technical data SÖFFEL* B80

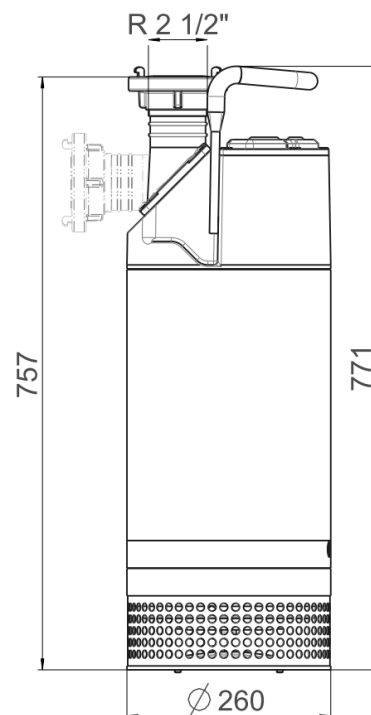
- Delivery rate range 84.5 – 0 m³/h
- Delivery head range 0 – 24.5 m
- Medium temperature max. 40 °C, for a short time 60 °C
- Immersion depth max. 20 m
- Density max. 1100 kg/m³
- pH-value 4 - 8
- Nominal voltage 400 V / 500 V 3~, 50 Hz
- Nominal current 7.8 A / 6.2 A
- Nominal speed 2900 1/min
- Power P1 / P2 4.6 kW / 3.9 kW
- Degree of protection DIN IP68
- Weight 49 kg (without cable)
- Thread connection R 2 ½" external thread
- Coupling Storz B
- Hose connection Ø 2 ½"

Characteristic curve SÖFFEL* B80



Q [m³/h]	0	10	21	40	51	60	75	84.5
Q [l/s]	0	3	6	11	14	17	21	24
H [m]	24.5	23	22	18	15	12	7	0

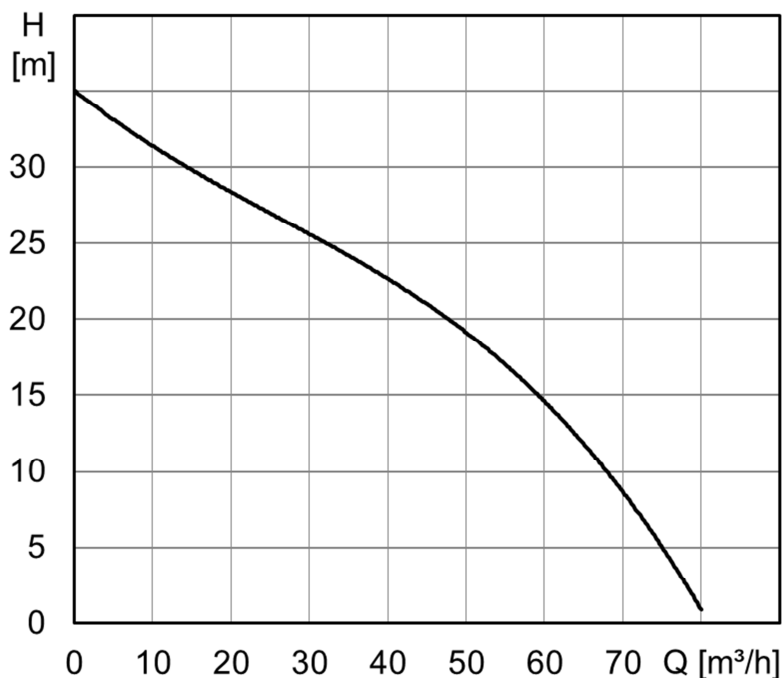
Dimensions SÖFFEL* B80



Technical data SÖFFEL* B90

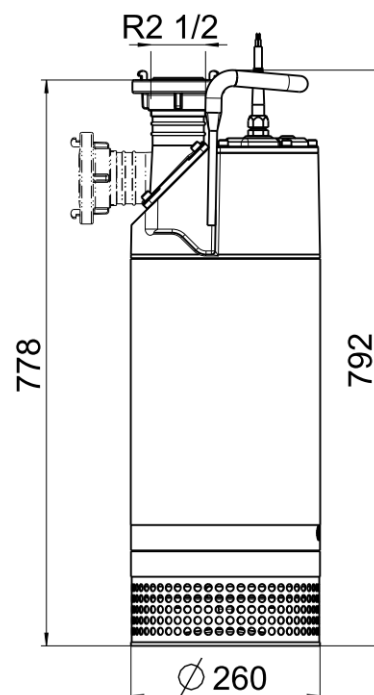
- Delivery rate range 80 – 0 m³/h
- Delivery head range 0 – 35 m
- Medium temperature max. 40 °C, for a short time 60 °C
- Immersion depth max. 20 m
- Density max. 1100 kg/m³
- pH-value 4 - 8
- Nominal voltage 400 V / 500 V 3~, 50 Hz
- Nominal current 11.6 A / 9.3 A
- Nominal speed 2900 1/min
- Power P1 / P2 6.9 kW / 6 kW
- Degree of protection DIN IP68
- Weight 58 kg (without cable)
- Thread connection R 2 ½" external thread
- Coupling Storz B
- Hose connection Ø 2 ½"

Characteristic curve SÖFFEL* B90



Q [m ³ /h]	0	10	20	30	40	50	60	70	80
Q [l/s]	0	3	5	8	11	14	17	19	22
H [m]	35	31	28	26	22	18	14	9	0

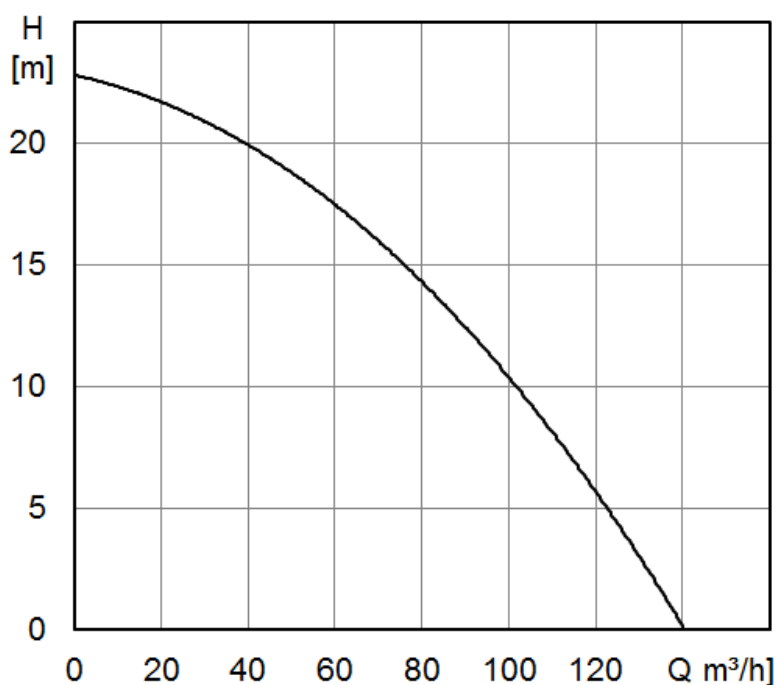
Dimensions SÖFFEL* B90



Technical data SÖFFEL* B140

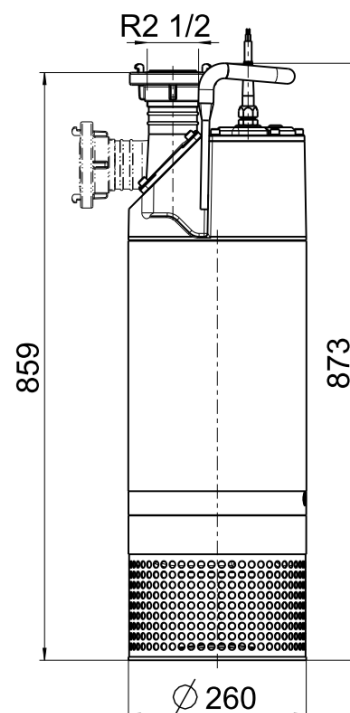
- Delivery rate range 140 – 0 m³/h
- Delivery head range 0 – 22.8 m
- Medium temperature max. 40 °C, for a short time 60 °C
- Immersion depth max. 20 m
- Density max. 1100 kg/m³
- pH-value 4 - 8
- Nominal voltage 400 V / 500 V 3~, 50 Hz
- Nominal current 11.6 A / 9.3 A
- Nominal speed 2900 1/min
- Power P1 / P2 6.9 kW / 6 kW
- Degree of protection DIN IP68
- Weight 59 kg (without cable)
- Thread connection R 2 ½" external thread
- Coupling Storz B
- Hose connection Ø 2 ½"

Characteristic curve SÖFFEL* B140



Q [m ³ /h]	0	21	36	62	79	95	110	125
Q [l/s]	0	6	10	17	22	26	31	35
H [m]	22.8	21	20	17	15	11	8	5

Dimensions SÖFFEL* B140



Drainage pumps SÖFFEL* B65P

Design

The **oddesse** drainage pumps SÖFFEL* B65P are two-stage centrifugal pumps with open multi blade impeller. They can be used for vertical, horizontal or inlined installation.

The double casing made of aluminum alloy (AlSi10Mg-T6) guarantees the best cooling of the motor by circulating the pumped fluid. The pump can be used for continuous working-, sipping suction and emerging operation. The water- and oil-side mechanical seals are made of silicon carbide and guarantee a safety sealing of the motor and work independent of direction of rotation.

The impeller (made of stainless steel 1.4470) and the wear resistant diffuser guarantee a long life cycle. The anti-friction bearings are life time grease lubricated. They assure a vibration-free operation.

The motors are designed as three phase AC motors equipped with a thermal winding protection.

Fields of application

The drainage pumps SÖFFEL* B65P are used for the delivery of clean or dirty water with solid admixtures up to a particle size of 10 mm, a pH-value from 4 up to 8 and a medium temperature during continuous operation of up to 40 °C, for a short time up to 60 °C.

- water supply in construction industry and in mining
- watering and draining in communities, gardens and domestic sectors
- used in disastered areas and by fire brigades
- water supply in industry and agriculture
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Material specification

Components	Design	
Casing	Aluminium alloy	AlSi10Mg-T6
Stator sleeve	Stainless steel	1.4301
Inlet strainer	Stainless steel	1.4301
Impeller	Stainless steel	1.4470
Diffuser	Aluminium rubberised	AlSi10Mg-T6/NBR
Shaft	Stainless steel	1.4404
Shaft sealing	Double mechanical seal	SiC/SiC
Fasteners	Stainless steel	1.4301

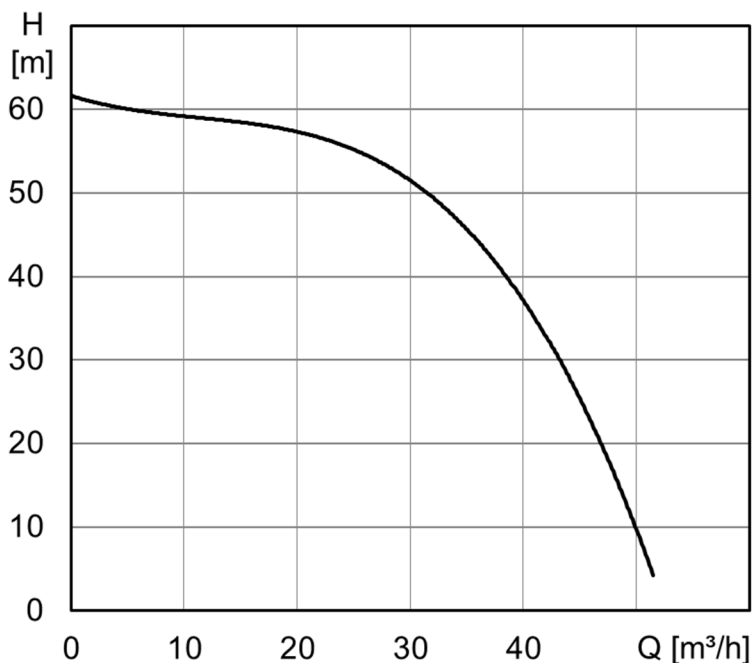
Electrical connection

- 23 m rubber-jacket cable
- alternatively with phase reversing connector,
- with motor protection connector plug or
- with motor protection connector plug and float switch

Technical data SÖFFEL* B65P

- Delivery rate range 51.5 - 0 m³/h
- Delivery head range 0 - 61 m
- Medium temperature max. 40 °C, for a short time 60 °C
- Immersion depth max. 20 m
- Density max. 1100 kg/m³
- pH-value 4 - 8
- Nominal voltage 400 V 3~, 50 Hz
- Nominal current 17.2 A
- Nominal speed 2900 1/min
- Power P1 / P2 10.2 kW / 9 kW
- Degree of protection DIN IP68
- Weight 107 kg (without cable)
- Thread connection R 2 ½" external thread
- Coupling Storz B
- Hose connection Ø 2 ½"

Characteristic curve SÖFFEL* B65P



Q [m ³ /h]	0	11	21	30	40	50	51.5
Q [l/s]	0	3	6	8	11	14	14
H [m]	61	60	57	50	37	13	0

Dimensions SÖFFEL* B65P

