

Technical data sheet

Battery motor FBM-B 3100 for COMBIFLUX pump FP 314



More than just pumps

Battery motor FBM-B 3100



Special features:

- ▶ Motor is protected against medium steam by double-walled construction
- ▶ Speed controlled by micro-processor
- ▶ Electronic temperature control
- ▶ Anti-lock system
- ▶ Battery is protected by automatic switch-off if the battery is empty
- ▶ Soft start

Motor type	Storage of motor	Nominal power [W]	Speed [rpm]	Speed control	Allowed ambient temperature in operation [°C]	Allowed ambient temperature on storage [°C]	Max. viscosity [mPas]	Protection class (with protection cover)	Weight motor with battery and protection cover [kg]
brushless	ball bearing	100	5.000 - 15.000	stepless speed adjustment	0 to +40	-20 to +60	250	IP 44	1.2

Battery B25-3100



Special features:

- ▶ Overload protection of individual cells
- ▶ Deep discharge protection of individual cells
- ▶ Short-circuit fuse
- ▶ Overcurrent protection

Type	Nominal voltage [V]	Nominal capacity [Ah]	Allowed ambient temperature in operation [°C]	Optimal ambient temperature on storage [°C]	Allowed ambient temperature on storage [°C]	Dimensions [mm] l x w x h	Weight [g]
Li-ions	18	2.5	0 to +40	0 to +10	-20 to +60	115 x 75 x 46	350

Charger BCH-3100



Special features:

- ▶ Fast charger
- ▶ Electronic temperature control
- ▶ Reverse-polarity protection
- ▶ Defective battery detection
- ▶ Microprocessor-controlled charging
- ▶ LED status display

Nominal voltage [V]	Power frequency [Hz]	Charging time [min]	Allowed temperature loading range [°C]	Allowed ambient temperature on storage [°C]	Insulation class of transformer	Protection class	Cable length [m]	Type of plug	Dimensions [mm] l x w x h	Weight [g]
220-240	50-60	55	+5 to +40	-20 to +60	T40/E	IP 30	2	CEE 7/16	152 x 86 x 92	500
100-120	50-60	55	+5 to +40	-20 to +60	T40/E	IP 30	2	NEMA 1-15 P	152 x 86 x 92	500

Technical data

COMBIFLUX pump FP 314 with battery motor FBM-B 3100

COMBIFLUX pump FP 314



Type	FP 314 PVDF-25/19	FP 314 PP-25/19	FP 314 PP-32/25	FP 314 S-28/25
Type of seal	sealless			
Immersion length	500/700/1.000 mm		500/700/1.000/1.200 mm	
Outer Ø [mm]	25		32	28
Connection thread	G1 A*			G ¾ A
Materials in contact with the medium	PVDF, ETFE, PTFE/carbon, Hastelloy C	PP, ETFE, PTFE/carbon, Hastelloy C		Stainless steel (316 Ti), ETFE, PTFE/carbon
Viscosity max.	250 mPas			
Temperature of medium max.	60 °C	45 °C		60 °C
Weight [kg] at a length of 500/700/1.000/1.200 mm	0.3/0.3/0.4	0.3/0.3/0.4	0.3/0.3/0.4/0.6	1.0/1.1/1.5/1.9

*Hose connections DN 13 and DN 19 included

Battery motor FBM-B 3100 (18 V; 2.5 Ah) with COMBIFLUX pump FP 314

Performance data

Speed	Delivery rate Q max. [l/min] at:		Delivery head H [mWs]** at:		Total quantity max. [l] with one battery charge at:		Battery runtime [min]* with one battery charge at:	
	5.000 rpm	15.000 rpm	5.000 rpm	15.000 rpm	5.000 rpm	15.000 rpm	5.000 rpm	15.000 rpm
FP 314 PP/PVDF-25/19	12	38	0.4	5	2.300	1.260	200	33
FP 314 PP-32/25	20	54	1	6,5	3.300	1.250 ¹⁾	166	23 ³⁾
FP 314 S-28/25	20	60	1.1	7	3.300	1.400 ²⁾	166	23 ³⁾

¹⁾ at length of 1.200 = 900 l

²⁾ at length of 1.200 = 1.000 l

³⁾ at length of 1.200 = 16 min

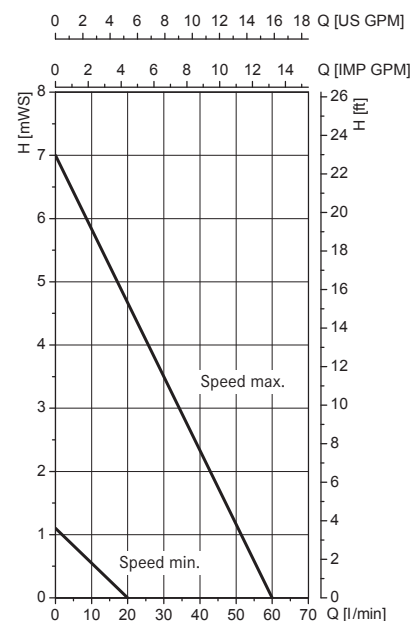
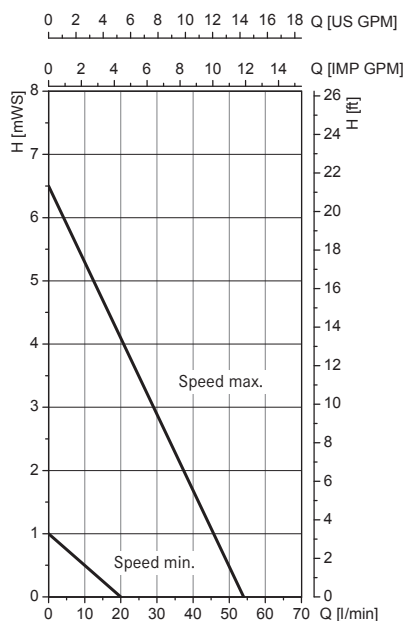
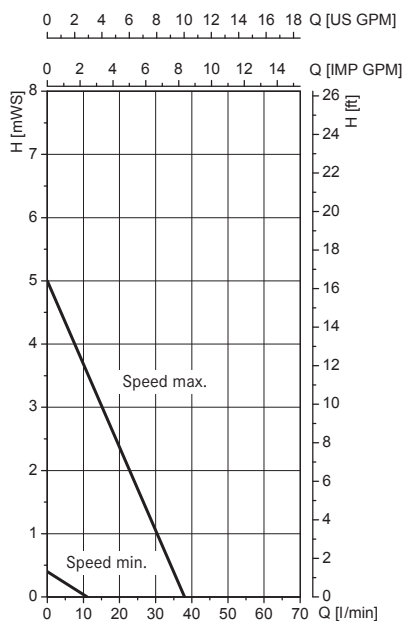
Performance charts*

Battery motor FBM-B 3100 with COMBIFLUX pump:

FP 314 **PP/PVDF-25/19**

FP 314 **PP-32/25**

FP 314 **S-28/25**



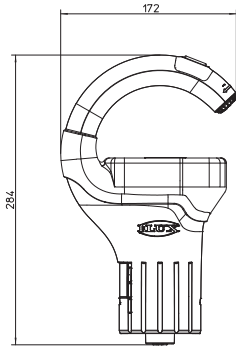
Speed min. 5.000 rpm, speed max. 15.000 rpm

* measured with free outlet, water at 20 °C, values ± 10 %

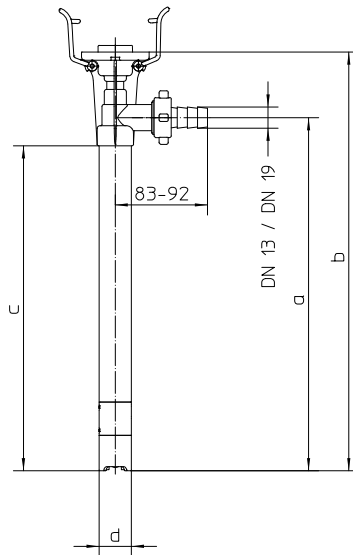
** measured with water at 20 °C

Dimensions [mm]

Battery motor FBM-B 3100



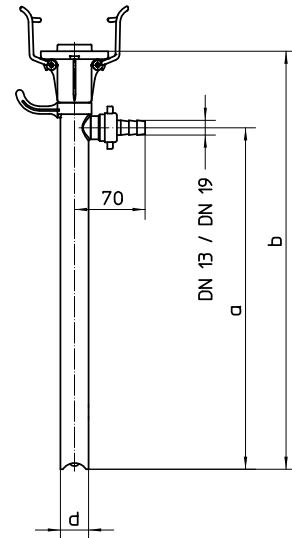
FP 314 PP+PVDF without motor



Immersion length	a	b	c	d	
1.200	1.200	1.538	1.172	Ø 32	
1.000	1.000	1.338	972	Ø 25	Ø 32
700	700	1.038	672		
500	500	838	472		

Dimensions in mm

FP 314 S without motor



Immersion length	a	b	d
1.200	1.189	1.538	Ø 28
1.000	989	1.338	
700	689	1.038	
500	489	838	

Dimensions in mm

COMBIFLUX pump kits

Pump kit	FP 314 PP-25/19	FP 314 PP-32/25	FP 314 PP/S-32/25 AdBlue® version
Motor	Battery motor FBM-B 3100 18 V/ 2.500 mAh		
Charger	220-240 V/ 50-60 Hz		
Outer tube material	polypropylene		
Seal type	sealless		
Shaft material	Hastelloy C		stainless steel
Immersion length [mm]	700/1.000	1.000	1.000
Outer Ø [mm]	25	32	
Hose connector	DN 13	DN 19	
Hose material	PVC		
Hose length [m]	1.5		2
Hose Ø	DN 13	DN 19	
Hand nozzle material/seal	PP/FKM		
Connection hand nozzle	DN 13	DN 19	
Hand nozzle outlet Ø [mm]	11	22	19
Weight [kg]	2.4/2.6	2.4	2.4

Part numbers

COMBIFLUX FP 314 with battery motor FBM-B 3100 and accessories

Battery motor FBM-B 3100 and accessories

Description	Part no.
FBM-B 3100 (Protection cover, battery, charger 220-240 V/50 - 60 Hz)	301 01 000
FBM-B 3100 (Protection cover, battery, charger 100-120 V/50 - 60 Hz)	301 01 003
FBM-B 3100 (Protection cover, battery, without charger)	301 01 001
Battery B25-3100	301 02 002
Protection cover for motor FBM-B 3100	301 02 005
Charger BCH-3100; 220-240 V/50 - 60 Hz	301 02 003
Charger BCH-3100; 100-120 V/50 - 60 Hz	301 02 004

COMBIFLUX pump FP 314

Immersion length [mm]	Pump type	FP 314 PP-25/19	FP 314 PP-32/25	FP 314 PVDF-25/19	FP 314 S-28/25
	Part no.				
500		314 45 905	314 46 905	314 65 905	314 26 905
700		314 45 907	314 46 907	314 65 907	314 26 907
1.000		314 45 910	314 46 910	314 65 910	314 26 910
1.200		-	314 46 912	-	314 26 912

COMBIFLUX pump kits with battery motor 220-240 V/50-60 Hz

Pump type	Immersion length [mm]	Outer ø [mm]	Part no.
FP 314 PP	700	25	314 48 807
FP 314 PP	1.000	25	314 48 810
FP 314 PP	1.000	32	314 49 910
FP 314 PP/S AdBlue®	1.000	32	314 49 ZV2

Other accessories:

We offer the appropriate accessories for the COMBIFLUX, such as: hand nozzles, hoses, compression glands or liquid meters.

See our brochure for accessories and the price list for the precise specifications.

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