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Technical data sheet

Battery motor FBM-B 3100 for COMBIFLUX pump FP 314

FLUX
More than just pumps

Battery motor FBM-B 3100



reddot award 2014
winner industrial design

product design award 2014

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

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

Performance data

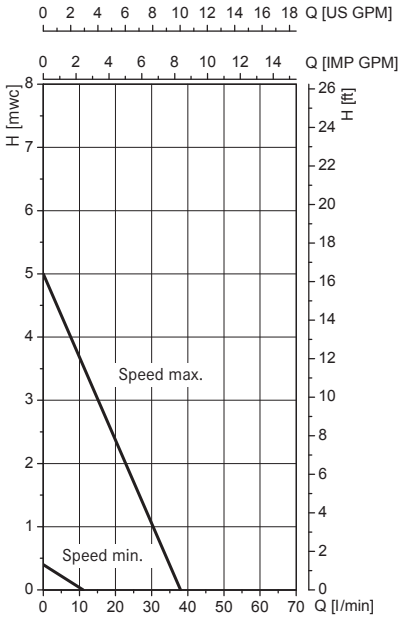
	Delivery rate Q max. [l/min] at:		**Delivery head H [mwc]** at:**		**Total quantity max. [l] with one battery charge at:**		**Battery runtime [min]* with one battery charge at:**	
Speed	5.000 rpm	15.000 rpm	5.000 rpm	15.000 rpm	5.000 rpm	15.000 rpm	5.000 rpm	15.000 rpm
FP 314 **PP/PVDF-25/19**	12	38	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

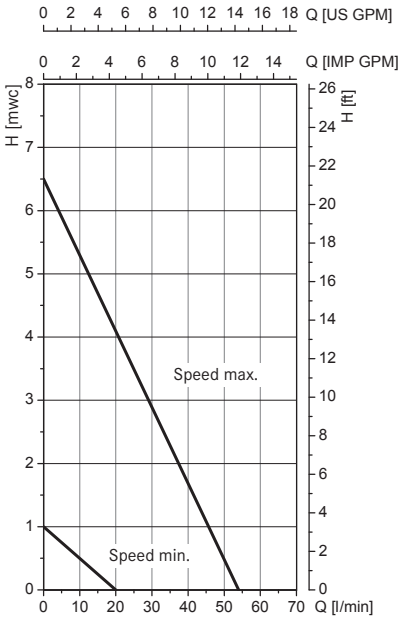
Performance charts*

Battery motor FBM-B 3100 with COMBIFLUX pump:

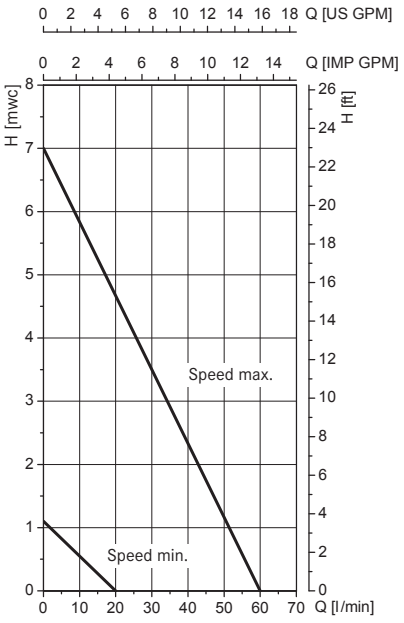
FP 314 **PP/PVDF-25/19**



FP 314 **PP-32/25**



FP 314 **S-28/25**



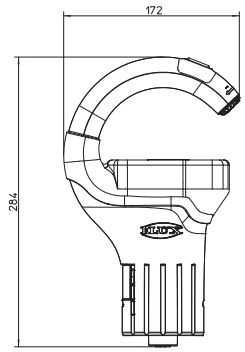
Speed min. 5.000 rpm, speed max.15.000 rpm

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

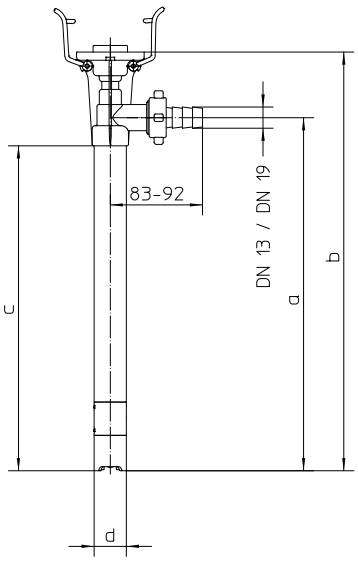
** measured with water at 20 °C

Dimensions [mm]

Battery motor FBM-B 3100



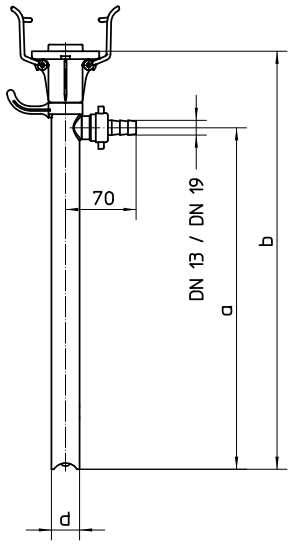
FP 314 PP+PVDF without motor



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

* AdBlue® is a registered trademark of: Verband der Automobilindustrie e. V. (VDA)

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)	10-301 01 000
FBM-B 3100 (Protection cover, battery, charger 100-120 V/50 - 60 Hz)	10-301 01 003
FBM-B 3100 (Protection cover, battery, without charger)	10-301 01 001
Battery B25-3100	10-301 02 002
Protection cover for motor FBM-B 3100	10-301 02 005
Charger BCH-3100; 220-240 V/50 - 60 Hz	10-301 02 003
Charger BCH-3100; 100-120 V/50 - 60 Hz	10-301 02 004

COMBIFLUX pump FP 314

Pump type / Immersion length [mm]	FP 314 **PP-25/19**	FP 314 **PP-32/25**	FP 314 **PVDF-25/19**	FP 314 **S-28/25**
	Part no.			
500	10-314 45 905	10-314 46 905	10-314 65 905	10-314 26 905
700	10-314 45 907	10-314 46 907	10-314 65 907	10-314 26 907
1.000	10-314 45 910	10-314 46 910	10-314 65 910	10-314 26 910
1.200	–	10-314 46 912	–	10-314 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	10-314 48 807
FP 314 PP	1.000	25	10-314 48 810
FP 314 PP	1.000	32	10-314 49 910
FP 314 PP/S AdBlue® *	1.000	32	10-314 49 ZV2

* AdBlue® is a registered trademark of: Verband der Automobilindustrie e. V. (VDA)

Hose connections consisting of hose connector and union nut for COMBIFLUX FP 314

Material	Nominal Ø	Part no.
PP	DN 13/DN 19	10-959 04 135
PVDF	DN 13	10-959 04 071
PVDF	DN 19	10-959 04 072
S	DN 13	10-959 04 133
S	DN 19	10-959 04 147

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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