# PUMP KITS

FLUX

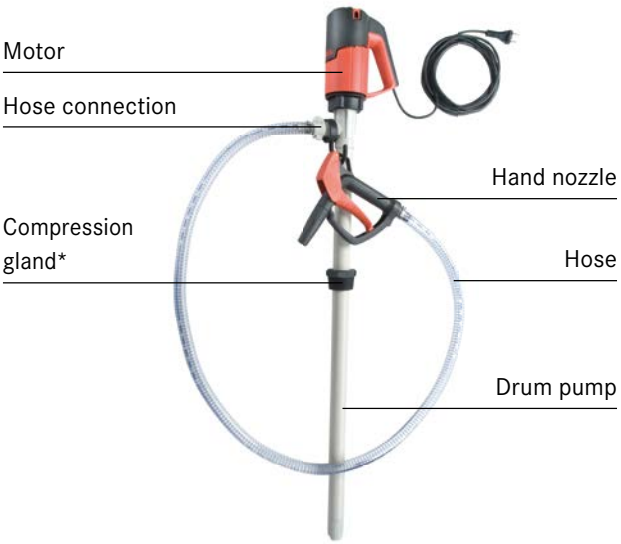
More than just pumps



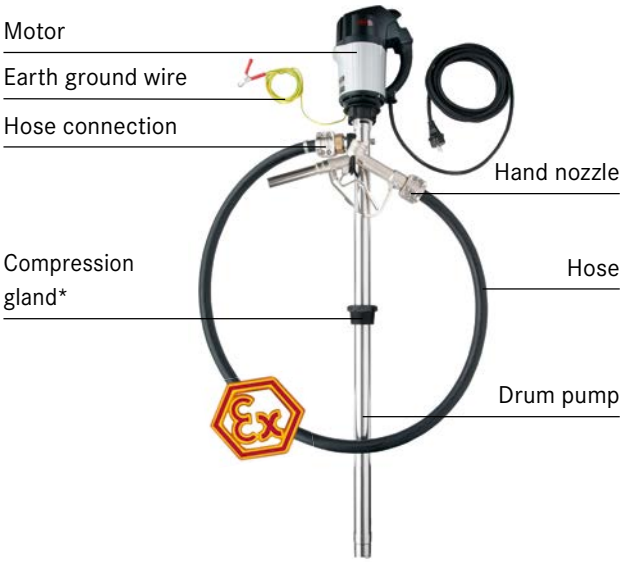
# Pre-assembled for immediate operation

FLUX pump kits offer everything you need to quickly start emptying tanks, drums or containers. They consist of:

### Pump kit configuration for the non-Ex-area




### Pump kit configuration for the Ex-area




* Not included in all pump kits.

### The right pump length for every container




With its application-based products FLUX offers the right solution for every industry sector. Use our icons as a guide to find the products suitable for your industry.

**Chemical** | **Industry** | **Surface technology** | **Paints and lacquers** | **Petro-chemicals** | **Foods** | **Cosmetics** | **Pharma-ceuticals** | **Water treatment** | **Agriculture**

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

# Smaller quantities

## JUNIORFLUX

The small sealless JUNIORFLUX drum pump with permanently fitted commutator motor is perfectly suited to dispensing comparatively small quantities from containers ranging from canisters to 200 l drums. The small outer tube diameter allows pumping even from narrow openings.



### JUNIORFLUX F 314 PP-25/19 in polypropylene

| | |
|---|---|
| Sealless, shaft in Hastelloy C, impellor in ETFE, outer-Ø 25 mm, thread on outlet G 1 A | |
| **Commutator motor F 310, 230 V, 50-60 Hz, 230 W, IP 24, with two-speed switch for smooth emptying** | |
| With 5 m power supply cable and 2-pole plug | |
| **Accessories** | |
| Hose connection PP, 1.5 m PVC hose DN 13, 2 hose clips, hand nozzle PP, seal FKM | |
| **Part no.**/weight | |
| Immersion length 700 mm | **10-314 43 007**/2.4 kg |
| Immersion length 1 000 mm | **10-314 43 010**/2.5 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 16 l/min.*, viscosity max. 250 mPas, temperature max. 45 °C, delivery head max. 5.5 mwc.

### JUNIORFLUX F 314 PP-32/25 in polypropylene

| | |
|---|---|
| Sealless, shaft in Hastelloy C, impellor in ETFE, outer-Ø 32 mm, thread on outlet G 1 A | |
| **Commutator motor F 310, 230 V, 50-60 Hz, 230 W, IP 24, with two-speed switch for smooth emptying** | |
| With 5 m power supply cable and 2-pole plug | |
| **Accessories** | |
| Hose connection PP, 1.5 m PVC hose DN 19, 2 hose clips, hand nozzle PP, seal FKM | |
| **Part no.**/weight | |
| Immersion length 1 000 mm | **10-314 44 010**/2.7 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 21 l/min.*, viscosity max. 250 mPas, temperature max. 45 °C, delivery head max. 5.6 mwc.

### Examples of media

Boric acid, fruit acids, phosphoric acid (up to 50 %), hydrochloric acid (up to 30 %), sulphuric acid (up to 40 %) alkalis such as battery acid, ammonia solution, glycol (up to 40 %), sodium hydroxide, potassium hydroxide (up to 30 %), sodium hypochlorate (up to 20 %), citric acid and soap solution

* The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

# Battery pump

## COMBIFLUX

The small sealless COMBIFLUX battery pump is perfectly suited to dispensing comparatively small quantities from containers ranging from canisters to 200 l drums or even IBCs. Offering IP 44, it is protected from splash water and therefore also ideal for use outdoors. The small outer tube diameter allows pumping even from narrow openings.

### COMBIFLUX FP 314 PP-25/19 in polypropylene

| | |
|---|---|
| Sealless, shaft in Hastelloy C, impellor in ETFE, outer-Ø 25 mm, thread on outlet G 1 A | |
| **Battery motor FBM-B 3100, rated voltage 18 V, rated capacity 2.5 Ah, Li-ion type battery, IP 44** | |
| Charger 220 - 240 Volt, 50-60 Hz | |
| **Accessories** | |
| Hose connection PP, 1.5 m PVC hose DN 13, hand nozzle PP, seal FKM | |
| **Part no.**/weight | |
| Immersion length 700 mm | **10-314 48 807**/2.6 kg |
| Immersion length 1 000 mm | **10-314 48 810**/2.7 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 14 l/min.*, viscosity max. 250 mPas, delivery head max. 5.0 mwc.

### COMBIFLUX FP 314 PP-32/25 in polypropylene

| | |
|---|---|
| Sealless, shaft in Hastelloy C, impellor in ETFE, outer-Ø 25 mm, thread on outlet G 1 A | |
| **Battery motor FBM-B 3100, rated voltage 18 V, rated capacity 2.5 Ah, Li-ion type battery, IP 44** | |
| Charger 220 - 240 Volt, 50-60 Hz | |
| **Accessories** | |
| Hose connection PP, 1.5 m PVC hose DN 19, hand nozzle PP, seal FKM | |
| **Part no.**/weight | |
| Immersion length 1 000 mm | **10-314 49 910**/2.9 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 21 l/min.*, viscosity max. 250 mPas, delivery head max. 5.0 mwc.

Variable flow rate thanks to simple, continuous speed setting.





### Examples of media

Boric acid, fruit acids, phosphoric acid (up to 50 %), hydrochloric acid (up to 30 %), sulphuric acid (up to 40 %), alkalis such as battery acid, ammonia solution, glycol (up to 40 %), sodium hydroxide, potassium hydroxide (up to 30 %), sodium hypochlorate (up to 20 %), citric acid and soap solution



product design award 2014

reddot award 2014 winner industrial design

* The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

# Cleaning agents and disinfectants / Fire brigade

## FES 800 for cleaning agents and disinfectants

Pre-assembled pump kit to pump cleaning agens and disinfectants from 60 l hobbocks.

### Drum pump F 424 PP-41/36 in polypropylene

Sealless, with FLUX fume gland, shaft in Hastelloy C, outer tube-Ø max. 41 mm

**Commutator motor FEM 4070, 230 V, 50 Hz, 500 W, continuous speed setting and low voltage circuit breaker, for 60 l hobbocks**

**Accessories**

2 m PVC hose DN 19, hand nozzle PP, FLUX-Clip

**Part no.**/weight

| | |
|---|---|
| Immersion length 800 mm | **10-407 44 208**/4.9 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 60 l/min.*, viscosity max. 600 mPas, delivery head max. 9.5 mwc.

This kit contains a fume gland.




## Fire brigade

To pump foaming agents, low-concentration acids and low-concentration alkalis. Mobile use also possible thanks to 24 V DC motor (can be powered by emergency vehicle).

### Drum pump F 430 PP-40/33 in polypropylene

With mechanical seal in oxide ceramics, PTFE/carbon, FKM seal material, shaft in stainless steel 1 4571, impellor in ETFE, outer-Ø 40 mm, thread on outlet G 1 ¼ A

**Commutator motor F 458, 24 V DC, 410 W, IP 55**

With 5 m power supply cable without plug

**Accessories**

Hose connection PP, 2 m PVC hose DN 19, hand nozzle PP, FLUX-Clip, compression gland PP conductive (R2)

**Part no.**/weight

| | |
|---|---|
| Immersion length 1 000 mm | **10-458 40 610**/8.8 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 40 l/min.*, delivery head max. 9.5 mwc.



* The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

## Version with mechanical seal

Pump set fully prepared for pumping acids and alkalis from 200 l drums or IBCs. The F 430 drum pump is ideal for frequent changes in media and for media which harden, dry quickly or crystallise. It can be disassembled into two parts quickly and easily for cleaning.

### Drum pump F 430 PP-40/33 in polypropylene

With mechanical seal in ceramic oxide, PTFE/carbon, seal in FKM, shaft in Hastelloy C, impellor in ETFE, outer-Ø 40 mm, thread on outlet G 1 ¼ A

**Commutator motor FEM 4070, 230 V, 50 Hz, 500 W, IP 24 with splash water protection, continuous speed setting, with low voltage circuit breaker**

With 5 m power supply cable and 2-pole plug

**Accessories**

Hose connection PP, 2 m PVC hose DN 19,
2 hose clips, hand nozzle PP, seal FKM,
FLUX-Clip, compression gland PP conductive (G 2)

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-407 40 010**/5.1 kg |
| Immersion length 1 200 mm | **10-407 40 012**/5.3 kg |

When using the pump with hose and hand nozzle, the flow rate at maximum speed is max. 40 l/min.*, viscosity max. 600 mPas, temperature max. 50 °C, delivery head max. 9.5 mwc.

## Sealless version

Pump set fully prepared for pumping acids and alkalis from 200 l drums or IBCs. The F 424 drum pump is particularly well suited to media which flow quickly and don't harden or crystallise and aren't abrasive. The sealless version guarantees optimum emptying of the inner tube and a long service life.

### Drum pump F 424 PP-41/36 in polypropylene

Sealless, shaft in Hastelloy C, impellor in ETFE, outer-Ø 40 mm, foot piece-Ø 41 mm, thread on outlet G 1¼ A

**Commutator motor FEM 4070, 230 V, 50 Hz, 500 W, IP 24 with splash water protection, continuous speed setting, with low voltage circuit breaker**

With 5 m power supply cable and 2-pole plug

**Accessories**

Hose connection PP, 2 m PVC hose DN 19,
2 hose clips, hand nozzle PP, seal FKM,
FLUX-Clip, compression gland PP conductive (G 2)

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-407 44 010**/5.1 kg |
| Immersion length 1 200 mm | **10-407 44 012**/5.3 kg |

When using the pump with hose and hand nozzle, the flow rate at maximum speed is max. 60 l/min.*, viscosity max. 600 mPas, temperature max. 50 °C, delivery head max. 9.5 mwc.



Easy and fast cleaning



### Examples of media

Boric acid, fruit acids, phosphoric acid (up to 50 %), hydrochloric acid (up to 30 %), sulphuric acid (up to 40 %), glycol (up to 40 %), citric acid, silicic acid, potassium hydroxide (up to 30 %), sodium hydroxide (up to 30 %), ammonia solution, ammonium sulphate (up to 50 %), lead acetate (up to 80 %), calcium chloride, iron (II) chloride, potassium chloride, copper (II) chloride, magnesium chloride and magnesium sulphate

Particularly well suited to hydrochloric acid



* The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

# Concentrated acids / emptying IBCs via outlet

## Concentrated acids

Pre-assembled pump kit for pumping concentrated acids from 200 l drums or IBCs.

### Drum pump F 430 PVDF-40/33 in polyvinylidene fluoride

With mechanical seal in ceramic oxide, PTFE/carbon, seal in FKM, shaft in Hastelloy C, impellor in ETFE, outer-Ø 40 mm, thread on outlet G 1 ¼ A

**Commutator motor F 458, 230 V, 50 Hz, 460 W, IP 55, with low voltage circuit breaker, with special sealing for extreme usage conditions**

With special corrosion-resistant painting, 5 m power supply cable and safety plug

**Accessories**

Hose connection PVDF, 2 m chemical hose DN 19, 2 hose clips, hand nozzle PVDF, seal FKM, FLUX-Clip, compression gland PP conductive

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-458 60 010**/8.9 kg |
| Immersion length 1 200 mm | **10-458 60 012**/9.2 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 40 l/min.*, viscosity max. 600 mPas, temperature max. 80 °C, delivery head max. 9.5 mwc.




### Examples of media

Chromic acid, chloric acid, hydrofluoric acid (up to 40 %), sodium hypochlorite, copper sulphate, sulfuric acid (up to 90 %), butylene glycol and oxalic acid

## Emptying IBCs via outlet

The MINIFLUX pump kit was designed for emptying IBCs via their floor-level outlet. Designed as an alternative to a vertical pump, the MINIFLUX can be used when an IBC is not accessible from the top. It is suitable for applications when gravity draining via the outlet tap is insufficient eg. rapid dispensing, long distance product transfer, or transfer to another container in a higher location.

### Container pump MINIFLUX S-41/38-136 in stainless steel

Shaft in stainless steel, mechanical seal in ceramic oxide and PTFE/carbon, FKM seal material, inlet side with S 60 x 6 union nut, discharge side G 1 ¼ A

**Commutator motor FEM 4070, 230 V, 50 Hz, 500 W, IP 24 with low voltage circuit breaker and speed setting**

With 5 m power supply cable and 2-pole plug

**Accessories**

Hose connection PP, G 1 ¼, 2 m PVC hose DN 19, hand nozzle PP/FKM DN 19, FLUX-Clip, outlet spout diameter Ø 25 mm

**Part no.**/weight

**10-407 29 000**/4.8 kg

When using the pump with hose and hand nozzle, the flow rate is max. 60 l/min.*, viscosity max. 1 000 mPas, delivery head max. 9 mwc.



### Examples of media

Ammonium nitrate, ammonium sulphate, boric acid, calcium chloride and glycerine

* The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

## Petroleum products

Pre-assembled pump kit to pump petroleum products from 200 l drums or IBCs.

### Drum pump F 430 AL-41/38 in Aluminium

With mechanical seal in ceramic oxide, PTFE/carbon, seal NBR, shaft in stainless steel 1.4571 / 316Ti, impellor in ETFE, outer-Ø 41 mm, thread on outlet G 1 ¼ A

**Commutator motor FEM 4070, 230 V, 50 Hz, 500 W, IP 24 with splash water protection, continuous speed setting, with low voltage circuit breaker**

With 5 m power supply cable and 2-pole plug

**Accessories**

Hose connection AL, 2 m petroleum hose DN 25, 2 hose clips, hand nozzle AL, seal NBR, FLUX-Clip, compression gland PP conductive

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-407 10 010**/6.4 kg |
| Immersion length 1 200 mm | **10-407 10 012**/6.7 kg |

When using the pump with hose and hand nozzle, the flow rate at maximum speed is max. 65 l/min.*, viscosity max. 600 mPas, temperature max. 80 °C, delivery head max. 9.5 mwc.




Drum pump and accessories as above, but complete with powerful 800 W motor.

**Commutator motor F 457, 230 V, 50 Hz, 800 W, IP 24 with splash water protection, with low voltage circuit breaker**

With 5 m power supply cable and 2-pole plug

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-457 10 010**/7.8 kg |
| Immersion length 1 200 mm | **10-457 10 012**/8.1 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 80 l/min.*, viscosity max. 1 000 mPas, temperature max. 80 °C, delivery head max. 12 mwc.




### Examples of media

Diesel (up to 40 °C), heating oil, hydraulic oil, lube oil and engine oil

* The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

# Flammable liquids

## Flammable liquids

Pre-assembled pump kit to pump high flammable media from 200 l drums or IBCs.

### Drum pump FP 424 Ex S-43/38 in stainless steel

| | | |
|---|---|---|
| **Ex II 1/2 G Ex h IIB T4...T3 Ga/Gb Ex label, for use in zone 0** | | |
| Sealless, shaft in stainless steel 1.4571 / 316Ti, impellor in ETFE, outer-Ø 41 mm, foot piece Ø 43 mm, thread on outlet G 1 ¼ A | | |
| **Commutator motor F 460 Ex, 230 V, 50 Hz, 460 W, Ex II 2 G Ex db eb IIC T6 Gb Ex label, with low voltage circuit breaker** | | |
| With 5 m power supply cable and safety plug | | |
| **Accessories** | | |
| Earth ground wire 2 m long, universal hose DN 21, 2 m long, integrated in electrically conductive manner with hose fittings in brass, hand nozzle MS, seal PTFE, FLUX-Clip, compression gland PP conductive | | |
| **Part no.**/weight | | |
| with F 460 Ex | Immersion length 1 000 mm | **10-460 24 010**/10.9 kg |
| with F 460 Ex | Immersion length 1 200 mm | **10-460 24 012**/11.4 kg |
| with F 460 Ex EL | Immersion length 1 000 mm | **10-460 24 110**/10.9 kg |
| with F 460 Ex EL | Immersion length 1 200 mm | **10-460 24 112**/11.4 kg |

When using the pump with hose and pump nozzle, the flow rate is max. 50 l/min.*, viscosity max. 600 mPas, temperature max. 100 °C (in areas subject to explosion hazards max. 40 °C), delivery head max. 9.5 mwc.



Also with continuously variable speed setting, with F 460 Ex EL commutator motor

### Examples of media

Acetone, petrol, butanol, ethanol, propanol, toluene, petroleum, ethylene glycol and hexane

Drum pump and accessories as above, but complete with motor driven using compressed air.

### Compressed air motor F 416 Ex

| | | |
|---|---|---|
| **470 W at 6 bar, Ex II 2G Ex h IIC T6 Gb Ex label** | | |
| **Part no.**/weight | | |
| Immersion length 1 000 mm | | **10-416 24 010**/7.4 kg |
| Immersion length 1 200 mm | | **10-416 24 012**/7.9 kg |

When using the pump with hose and pump nozzle, the flow rate is max. 50 l/min.*, viscosity max. 800 mPas, temperature max. 100 °C (in areas subject to explosion hazards max. 40 °C), delivery head max. 13 mwc.



* The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

# Universal applications

## Universal applications

Pre-assembled pump kit to pump different media from 200 l drums or IBCs.

### Drum pump F 430 S-41/38 in stainless steel

**Ex II 1/2G IIB T4 Ex label, for use in zone 0**

With mechanical seal in ceramic oxide, PTFE/carbon, seal FKM, shaft in stainless steel 1.4571 / 316Ti, impellor in ETFE, outer-Ø 41 mm, thread on outlet G 1 ¼ A

**Commutator motor F 460 Ex, 230 V, 50 Hz, 460 W, Ex II 2 G Ex db eb IIC T6 Gb Ex label, with low voltage circuit breaker**

With 5 m power supply cable and safety plug

**Accessories**

Earth ground wire 2 m long, universal hose DN 21, 2 m long, integrated in electrically conductive manner with hose fittings in stainless steel, hand nozzle in stainless steel, seal PTFE/FEP, FLUX-Clip, compression gland PP conductive

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-460 20 010**/11.1 kg |
| Immersion length 1 200 mm | **10-460 20 012**/11.6 kg |

When using the pump with hose and pump nozzle, the flow rate is max. 50 l/min.*, viscosity max. 600 mPas, temperature max. 100 °C (in areas subject to explosion hazards max. 40 °C), delivery head max. 9.5 mwc.





### Examples of media

Allyl alcohol, heptane, ethyl acetate, methanol, propionic acid and xylene

Drum pump and accessories as above, but complete with motor driven using compressed air.

### Compressed air motor F 416 Ex

**470 W at 6 bar, Ex II 2G Ex h IIC T6 Gb Ex label**

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-416 20 010**/7.6 kg |
| Immersion length 1 200 mm | **10-416 20 012**/8.1 kg |

When using the pump with hose and pump nozzle, the flow rate is max. 50 l/min.*, viscosity max. 800 mPas, temperature max. 100 °C (in areas subject to explosion hazards max. 40 °C), delivery head max. 13 mwc.



* The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

# 99,98 % drum emptying / Industrial applications up to 30 000 mPas

### 99,98 % drum emptying

Optimum drum emptying guarantees maximum cost-effectiveness when pumping high-grade or hazardous liquids. The FP 425 has a built-in non-return device which can be closed with ease before removing the drum pump from the container. This prevents the medium in the drum pump from flowing back into an emptied drum.






### Drum pump FP 425 Ex S-41/34 in stainless steel

**Ex II 1/2 G Ex h IIB T4...T3 Ga/Gb Ex label, for use in zone 0**

With mechanical seal in ceramic oxide, PTFE/carbon, seal FKM, shaft in stainless steel 1.4571 / 316Ti, impellor in ETFE, outer-Ø 41 mm, thread on outlet G 1 ¼ A

**Commutator motor F 460 Ex, 230 V, 50 Hz, 460 W, Ex II 2 G Ex db eb IIC T6 Gb Ex label, with low voltage circuit breaker**

With 5 m power supply cable and safety plug

**Accessories**

Earth ground wire 2 m long, universal hose DN 21, 2 m long, integrated in electrically conductive manner with hose fittings in stainless steel, hand nozzle in stainless steel, seal PTFE/FEP, FLUX-Clip, compression gland PP conductive

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-460 25 010**/11.9 kg |
| Immersion length 1 200 mm | **10-460 25 012**/12.4 kg |

When using the pump with hose and pump nozzle, the flow rate is max. 30-40 l/min.*, viscosity max. 600 mPas, temperature max. 100 °C (in areas subject to explosion hazards max. 40 °C), delivery head max. 8 mwc.



### Industrial applications up to 30 000 mPas

Pre-assembled progessive cavity pump kit in gear version to pump thin to medium viscous media up to 30 000 mPas from 200 l drums and IBCs.



### Progressive cavity pump VISCOPOWER F 570

Version with planetary gear (reduction of 1 : 16) with torsion shaft, in stainless steel, with closed mechanical seal, seals FKM, outer-Ø 53 mm, Clamp 2" connection with adapter G 1 ½" external trhead, stator in PTFE

**Commutator motor F 457, 230 V, 50 Hz, 800 W, IP 24 with splash water protection, with low voltage circuit breaker**

With 5 m power supply cable and 2-pole plug

**Accessories**

Hose connection in stainless steel DN 32 - G 1 ½, hose for food & chemicals DN 32, outer diameter 43 mm, electrically conductive, stainless steel discharge spout with G 1 ½ A connection, compression gland PP conductive

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-457 90 002**/12.5 kg |
| Immersion length 1 200 mm | **10-457 90 003**/13.2 kg |

When using the pump with hose and discharge spout, the flow rate is max. 21 l/min.*, at a viscosity 3 000 mPas, delivery head max. 40 mwc.

### Examples of media

Water-based viscous printing inks, mineral oils of medium viscosity (e.g. SAE 140 motor oil) and pastes of medium viscosity



* The max. flow rate is achieved in the configuration stated with a measuring oil medium of 3000 mPas at 20 °C and a backpressure of 3-4 bar.

# For urea solution / AdBlue®**

## JUNIORFLUX AdBlue®** for smaller quantities

### Drum pump JUNIORFLUX F 314 PP/S-32/25-1000 in polypropylene

Sealless, shaft in stainless steel, impellor in ETFE, outer-Ø 32 mm, thread on outlet G 1 A

**Commutator motor F 310, 230 V, 50 Hz, 230 W, IP 24, with two-speed switch for smooth emptying**

With 5 m power supply cable and 2-pole plug

**Accessories**

Hose connection PP, 2 m PVC hose DN 19, 2 hose clips, hand nozzle PP AdBlue®**, seal FKM

**Part no.**

Immersion length 1 000 mm **10-314 44 ZV2**



When using the pump with hose and hand nozzle, the flow rate is max. 36 l/min.*, viscosity max. 250 mPas, delivery head max. 6.7 mwc.

## COMBIFLUX AdBlue®** with battery-powered motor for mobile use

### Drum pump COMBIFLUX FP 314 PP/S-32/25 in polypropylene

Sealless, shaft in stainless steel, impellor in ETFE, outer-Ø 32 mm, thread on outlet G 1 A

**Battery motor FBM-B 3100, rated voltage 18 V, rated capacity 2.5 Ah, Li-ion type battery**

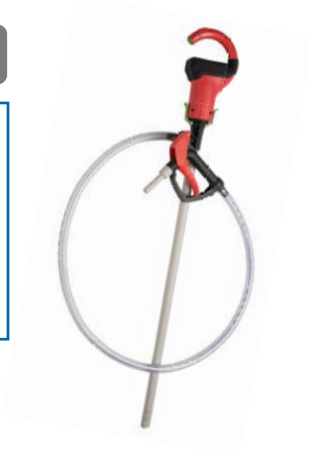
Charger 220 - 240 V, 50-60 Hz

**Accessories**

Hose connection PP, 2 m PVC hose DN 19, hand nozzle PP AdBlue®**, seal FKM

**Part no.**

Immersion length 1 000 mm **10-314 49 ZV2**



When using the pump with hose and hand nozzle, the flow rate is max. 33 l/min.*, viscosity max. 250 mPas, delivery head max. 6.5 mwc.

## AdBlue®** F 424 for emptying IBCs

### Container pump F 424 PP/S-41/35Z in polypropylene

Sealless, shaft in stainless steel, free from non-ferrous metals, impellor in ETFE, outer-Ø 41 mm, thread on outlet G 1 ¼ A

**Commutator motor FEM 4070, 230 V, 50 Hz, 500 W, IP 24, with speed setting and low voltage circuit breaker**

With 5 m power supply cable and 2-pole plug

**Accessories**

Hose connection PP, 3 m PVC hose DN 19, hand nozzle PP AdBlue®**, FLUX-Clip, compression gland PP conductive G 2 A

**Part no.**

Immersion length 1 200 mm **10-407 44 112**



When using the pump with hose and hand nozzle, the flow rate is max. 50 l/min.*, viscosity max. 800 mPas, delivery head max. 18 mwc.

## AdBlue®** F 424 with self-closing pump nozzle

### Container pump F 424 PP/S-41/35Z in polypropylene

Sealless, shaft in stainless steel, free from non-ferrous metals, impellor in ETFE, outer-Ø 41 mm, thread on outlet G 1 ¼ A

**Commutator motor FEM 4070, 230 V, 50 Hz, 500 W, IP 24, with speed setting and low voltage circuit breaker**

With 5 m power supply cable and 2-pole plug

**Accessories**

Hose connection PP, 6 m special hose DN 16, self-closing pump nozzle in aluminium, FLUX-Clip, compression gland PP conductive G 2 A

**Part no.**

Immersion length 1 200 mm **10-407 41 ZV6**



When using the pump with hose and hand nozzle, the flow rate is max. 35 l/min.*, viscosity max. 800 mPas, delivery head max. 18 mwc.

* The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

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

# Foods and Pharmaceuticals

### Foods and Pharmaceuticals

Pump kit fully prepared for the food and pharmaceuticals sector. The pump kit is ideal for hygiene applications and for pumping and metering from drums, IBCs and other tanks.

#### Drum pump FP 427 S-43/38 FOOD in stainless steel

| | |
|---|---|
| **Appropriate for food contact acc. to EC 1935/2004 and FDA CFR 21** | |
| Sealless, materials in contact with medium in stainless steel, PTFE, FKM. Outer tube-Ø 43 mm, 1 ½" clamp connection | |
| **Commutator motor F 458, 230 V, 50 Hz, 460 W, IP 55, with low voltage circuit breaker, with special sealing for extreme usage conditions** | |
| With 5 m power supply cable and safety plug | |
| **Accessories** | |
| Hose connection in stainless steel/FKM, 2 m food hose DN 25 ithout inliner (white NBR inner material), hand nozzle in stainless steel, FLUX-Clip, seal FKM/PTFE, outlet Ø 28 mm, compression gland PP conductive, R2 thread | |
| **Part no.**/weight | |
| Immersion length 1 000 mm | **10-458 27 610**/10.8 kg |
| Immersion length 1 200 mm | **10-458 27 612**/11.3 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 50 l/min.*, viscosity max. 1 000 mPas, delivery head max. 8 mwc.




**Examples of media**
Cooking oils, glucose solution, fruit juices and chocolate sauces

### Foods and Pharmaceuticals in Ex-version

Ex-version of pump kit fully prepared for the food and pharmaceuticals sector. The pump kit is ideal for frequent changes in mediaand for pumping and metering from drums, IBCs and other tanks.

#### Drum pump FP 430 Ex FOOD S-41/38 in stainless steel

| | |
|---|---|
| **Ex II 1/2G IIB T4 Ex label, for use in zone 0, for contact with food in accordance with (EC) 1935/2004 and FDA CFR 21** | |
| With mechanical seal in ceramic oxide, PTFE/carbon, seal FKM, shaft and impellor in stainless steel 1.4571 / 316Ti, outer-Ø 41 mm, 1 ½" clamp connection | |
| **Commutator motor F 460 Ex, 230 V, 50 Hz, 460 W, Ex II 2 G Ex db eb IIC T6 Gb Ex label, with low voltage circuit breaker** | |
| With 5 m power supply cable and safety plug | |
| **Accessories** | |
| Hose connection in stainless steel/FKM, 2 m chemical and food hose DN 19 with inliner (PE inner material), hand nozzle in stainless steel, FLUX-Clip, seal FKM/PTFE, outlet Ø 28 mm, compression gland PP conductive, R2 thread/Ø 40/41 mm, earth ground wire 2 m long | |
| **Part no.**/weight | |
| Immersion length 1 000 mm | **10-460 20 510**/11.1 kg |
| Immersion length 1 200 mm | **10-460 20 512**/11.6 kg |

When using the pump with hose and hand nozzle, the flow rate is max. 60 l/min.*, viscosity max. 1 200 mPas, delivery head max. 9 mwc.




**Examples of media**
Ethanol, liqueurs and spirits

 * The max. flow rate is achieved in the mentioned configuration with the medium water at 20 °C and discharge height = height of outlet.

### Foods and Pharmaceuticals up to 25 000 mPas

Gear unit version of progressive cavity pump kit fully prepared for pumping viscous media up to 25 000 mPas from 200 l drums or IBCs. The progressive cavity pump is designed especially for the food and pharmaceuticals sector and is suited to a huge range of different media.

### Progressive cavity pump VISCOPOWER F 570, FOOD in stainless steel

**Appropriate for food contact acc. to EC 1935/2004 and FDA CFR 21**

Planetary gear (reduction of 1 : 16) with torsion shaft, in stainless steel, with closed mechanical seal, seals in FKM, outer diameter 53 mm, 2" clamp connection, stator in PTFE

**Commutator motor F 458-1, 230 V, 50 Hz, 700 W, IP 55, with low voltage circuit breaker**

With 5 m power supply cable and safety plug

**Accessories**

Hose connection in stainless steel, 2.5 m hose for food and chemicals DN 32, stainless steel discharge spout, 2" clamp connection, compression gland PP

| **Part no.**/weight | |
|---|---|
| Immersion length 1 000 mm | **10-458 90 002**/13.4 kg |
| Immersion length 1 200 mm | **10-458 90 003**/14.3 kg |

When using the pump with hose and discharge spout, the flow rate is max. 19 l/min.*, at 3 000 mPas viscosity, delivery head max. 30-40 mwc.

Motor protection class IP 55



FDA

### Examples of media

Apple sauce, honey, fruit concentrates, gelatine, glucose, jam, mayonnaise and tomato ketchup

* The max. flow rate is achieved in the configuration stated with a measuring oil medium of 3 000 mPas at 20 °C and a backpressure of 3-4 bar.

### Flow meter FMC 100

To keep up to speed at all times when pumping, FLUX drum pumps can be combined with a FMC 100 flow meter. The FMC 100 is available in PP, ETFE and stainless steel for flow rates of 10-100 l/min. A clearly legible LCD with 7 digits and multifunction keys ensure quick and easy operation. The quantities pumped can be displayed in litres, imperial gallons, US gallons or kilograms.
All models are protected against explosion in accordance with Ex II 2G Ex ia IIB T6 Gb.



### Flow meter FMO

The FMO flow meter is constructed on the basis of the oval gear principle and is ideal for measuring pure, low- to high-viscosity media. In combination with FLUXTRONIC® evaluation electronics, dispensing and metering processes can be performed with maximum precision and the greatest possible safety. The stainless steel versions are protected against explosion in accordance with Ex II 2G Ex h IIB T4 Gb.



### Flow meter FMT 120 PP

The FLUX flow meter FMT 120 works on the turbine wheel principle and is an economical alternative to our flow meters FMO and FMC. The FMT 120 PP is easy to handle and allows a fast and safe dispensing of media.



### Additional accessories

To supplement our wide range of pump sets, we can also supply an extensive range of accessories. More information about these can be found in the separate "Accessories" and "Flow meter" brochures or on our website **www.flux-pumps.com**

More than just pumps

Today the FLUX name is recognised around the globe as the trademark for top standards in pump technology. Everything started with the invention of the electric drum pump in 1950. Nowadays FLUX has an extensive range of products each of which can be customized. FLUX pumps are used for example in the chemical and pharmaceutical industries; in machinery and plant engineering as well as companies in electroplating, wastewater treatment and the food sector.

Whether single-product or system solution – FLUX quality is synonymous with a long service life, excellent economy and maximum safety.

In addition to the excellent product quality FLUX customers appreciate the superb level of expertise our staff has to offer as well as their genuine customer focus.

These days FLUX-GERÄTE GMBH supplies pumps to almost 100 countries around the globe.

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