



Heating Oil, Extraction and Pressure Units

Eckerle heating oil conveying systems can be used universally, from supplying traditional oil-burning heaters to state-of-the-art oil condensing oil burners. A distinction is made here between pressure and extraction pump units.

Pressure units are installed close to the tank (no more than three metres of suction height). They draw the oil through independently and, depending on the model, push it up to a height of 26m.

A distinction is made between permanently running pump systems (e.g. SK9E/FP8E) and intermittently running systems, which are designed for charging operation. This makes them more energy efficient and also more durable.

Extraction units are installed close to the consumer. They draw the oil through independently and, depending on the model, up to a height of 9.5m.

A distinction is made between consumption or level-controlled systems (e.g. SP32) and systems which are controlled by the consumer and which operate alongside them (e.g. SP8).

In the pipe between the tank and the pump there is either a vacuum or suction pressure. This means that a possible leak in the suction pipe has no effect on the peripheral equipment.

Our oil supply units feature extensive safety equipment and are certified according to EN125141:05.2000.



Pressure Pump Assembly

Description

With electromagnetic piston pump, four different flow rates adjustable, self regulating pressure control, pressure relief valve, safety oil chamber, bleed & drain valve, built-in suction filter, completely wired with earthing contact-type plug and mounting strip. Tube connection: 8 x 1 mm.

Applications

The unit can be used for different applications by changing the position of a jumper on the pump's PCB.

- Version SK9E: Central oil distribution systems with one or more oil ovens to be used as a permanent operating pump during the heating season (not usable for full-year operation)
- Version FP8E: Feeding pump for oil burners in one-line systems or automatic oil evaporation burners (e.g. for tiled stoves)

SK9E/FP8E

Technical Data

Pump unit (L x W x H)

Electrical spec. 230 V/50 Hz, 25 VA

Max. delivery rate 4 – 12 l/h

Max. delivery height 15 m

Max. suction height 3 m

Special feature Integrated check valve on the suction line



Pressure Storage Assembly

Description

With electromagnetic piston pump, control and safety device depending on the delivery length, pressure gauge, built-in suction filter, pipe connections 8 x 1 mm, completely wired with earthing contact-type plug and mounting strip. Built-in safety oil pan with emergency shut-off function!

Applications

- Central oil distribution systems up to 12 users, suitable for full-year operation
- · Feeding pump for oil burners in one-line systems

KD10

Weight

Technical Data

Pump unit (L x W x H)

Electrical spec. 230 V/50 Hz, 25 VA

Max. delivery rate 14 l/h

Max. delivery height 14 m

Max. suction height 3 m

Weight 4 kg

Special feature Integrated check valve on the suction line



Pressure Storage Assembly

Description

The aggregate consists of a powerful but noiseless inner gear pump, driven by an electric motor. The pump fills a 5 l membrane accumulator. The switch control works dependently on the pressure. In case of a line break, the unit will be automatically switched off by a safety switch (< 2 bar). The check valve protects the suction pipe against a pressure increase and prevents any fuel oil release. An integrated recovery security tank with a leakage sensor assures additional safety. This system integrates a filter on the suction line. The function of the pump is completely monitored, with a status indication of the operation status on a front screen. The cover is easily removable and protects the device against dust and humidity. Suction and pressure connections are designed for copper pipes of 10 x 1 mm. The device is delivered with installation material and electrical plug.

Applications

- · Central oil supply systems for housing estates with seve-
- Automatic supply of oil burners, combined heat and power stations or similar devices in single line systems up to 1000 KW.

DSA100

Technical Data

Pump unit 530 x 240 x 510 mm (LxWxH) Electrical spec. 230 V/50 Hz, 130 VA Max. delivery rate 100 l/h Max. delivery height 26 m 3 m Max. suction height Max. pump pressure 3,2 bar Extension tank 5l content Weight ca. 21 kg Integrated check valve Special feature

on the suction line

ral oil ovens (> 12 users) suitable for full-year operation.

FPK 40 W/120 W/200 W

Technical Data

	FPK 40 W/120 W Pump unit (L x W x H)	190 x 123 x 145 mm
	FPK 200 W Pump unit (L x W x H)	241 x 122 x 142 mm
	Electrical spec.	230V/50Hz, 130VA
	Max. delivery rate	50 l/120 l/200 l
	Max. delivery height	40 m
	Max. suction height	5 m
	Suction connection	G1/4 "
	Pressure connection	G1/8 "
	Suction and pres-	8 x 1 mm (FPK200W)



Pressure Pump Unit

Description

The units consist of a high-quality internal gear pump with a built-in, adjustable pressure relief valve (except FP-K200W), suction filter (except FPK200W) and single-phase AC motor and plastic coupling.

Applications

The Eckerle pressure pump units FPK40W / 120W and 200W are used as feeder units for heating oil consumers with their own power circuit, such as pressure atomiser burners, CHPs, or for filling day tanks with level controls.



Suction Pump Assembly

Description

With electromagnetic piston pump, float-, control- and safety device, built-in suction filter, check valve, 1,6 l oil storage tank, LCD display with permanent function-control feedback, builtin safety oil pan with emergency shut-off function, thermical safety detection, pipe connections for 8 x 1 mm, completely wired with earthing contact-type plug.

Applications

- · Pump aggregate for fan burner up to 80kW at 7 m suction height
- Oil / tiled oven
- · For one-line systems only

SP 32/01

sure connection

Technical Data

217 x 168 x 255 mm Pump unit $(L \times W \times H)$ 230 V/50 Hz, 25 VA Electrical spec. 8 l/h at 7 m suction Max. suction height height or 16 l/h at 4 m suction height Weight

Special feature Integrated check valve on the suction line



Suction Pump Assembly

Description

The first suction pump for oil fired fan burners that operates in a closed circuit. This system offers a 100% non-smelling oil supply. Provided with electromagnetic piston pump, safety device, suction filter and check valve. Hydraulic connectors: Suction line 10 x 1 mm, burner sided 2 x 3/8" male thread. Built-in safety oil pan with emergency shut-off

Applications

- Suction pump aggregate running 100% closed circuit for fan burners up to 80 kW at 7 m suction height
- Easy installation via 7-pin-plug for burners
- · Suitable for single line systems only
- · Perfect match for self-contained central heating

SP8

Technical Data

Pump unit 250 x 130 x 250 mm (LxWxH)

Electrical spec. 230 V/50 Hz, 40 VA Max. suction height 8 l/h at 7 m suction

height or 16 l/h at 4 m suction height

Weight 3,4 kg

Special feature Integrated check valve





Suction Pump Assembly

with higher flow rate

Description

With electromagnetic piston pump, float-, control- and safety device, built-in suction filter, 8 l oil storage tank, builtin safety oil pan with separate detection, LCD display with permanent function-control feedback with anti-syphoning protection valve on the outlet side, alternatively in mechanical version M (adjusted at 1.80 m) or electrical version E (is driven through the oil burner), pipe connections for 10 x 1 mm pipe, completely wired with earthing contact-type plug.

Applications

- Full-automatic suction pump aggregate for feeding oil burners up to max. 50 l/h nozzle capacity
- For one-line systems only

SP32/02-80-M/-E

Technical Data

Pump unit 400 x 260 x 380 mm $(L \times W \times H)$ Electrical spec. 230 V/50 Hz, 50 VA 80 l/h at 2 m suction Max. suction height height or 20 l/h at 7 m suction height

Weight

Special feature Integrated check valve on the suction line

SP 32/02-80-E with electrical Options

> anti-syphoning valve SP 32/02-80-M with mechanical anti-syphoning valve



Suction Pump Assembly

with higher flow rate

Description

High performance-internal gear pump (gap compensated), motor, float-, control- and safety device, built-in suction filter, 8 l oil storage tank, built-in safety oil pan with separate electrical detection, LCD display with permanent functioncontrol feedback, vacuum gauge, two separate feeding lines wether with electrical or mechanical or without antisyphoning-protection-valves (outlet sided), all pipe connectors are located above the security pan, pipe connections for 15×1 mm pipe on suction line, $2 \times (10 \times 1 \text{ mm})$ on pressure side.

Applications

- · Full-automatic suction pump aggregate for supplying one or several oil burners up to 180 l/h nozzle capacity
- For one-line systems only.

SP32/03-200-M/-0/-E

Technical Data

Pump unit

(LxWxH) Electrical spec. 230 V/50 Hz, 150 VA Max. suction height 215 l/h at 4 m suction height or 180 l/h at 9,5 m suction height Weight

SP 32/03-200-M with Options

mechanical anti-syphoningprotection-valves SP 32/03-200-E with electrical anti-syphoningprotection-valves SP 32/03-200-0 without anti-syphoning-protection-valves

460 x 245 x 635 mm

All indicated data serve alone the product description and are not as characteristics in the legal sense to be understood. Subject to alterations.

