

Pump-Unit

PS 110-E-C



Technical Data

Drive	Electro-hydraulic
Drive Power	30,0 kW
Total Power Consumption	approx. 31,0 kW

Connections	
Electrical	CEE 63 A / 400 V AC, 50 Hz, IP 54

In-/Outlets	
Suction line	DN 65 - Kamlok 250 MT
Pressure line	G 1 1/4 BSPP IG DN 32 - RD 55
Circulation line	G 1 BSPP IG DN 25 - RD 38

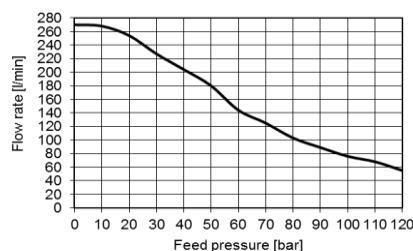
Dimensions (L x W x H)	2.270 x 740 x 2.180 (mm)
Weight	approx. 1.900 kg

Application	Pumping of cement-, fly ash and bentonite suspensions at anchoring, groutings, flushings, sealings, piling and vibrating jobs, slim and diaphragm walls, soil mixing WSM (single-, twin-, triple-mix) and cutter soil mixing CSM
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Delivery Pump (RA = Ring Area)	
Pressure	max. 90 bar ¹⁾ [max. 1.305 psi] ¹⁾
Flow rate	max. 310 l/min. ¹⁾ [max. 82 gal U.S.] ¹⁾



Delivery Pump (PA = Piston Area)	
Pressure	max. 120 bar ¹⁾ [max. 1.740 psi] ¹⁾
Flow rate	max. 270 l/min. ¹⁾ [max. 71 gal U.S.] ¹⁾



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Standard Features

Framework

skid steel frame, partially enclosed and with partition panel, floor and oil pan, central towing device, lashing eyes for transportation, fork lift guides lengthwise and crosswise, machine room sound proofed, lockable and fixable doors, finishing 2K-paint RAL 7042 (traffic grey) or on customer desire unicoloured

Electric Drive

electric motor 30,0 kW, 1.500 rpm, 400 V AC, 50 Hz, IP 54, automatic phase correction, motor safety switch, control voltage 24 V DC (for valves and remote control), operating hour meter

Hydraulic

oil tank volume 170 l [45 gal U.S.], axial piston pump and gear pump, oil cooler with thermostat, main oil and control oil filter, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, manometer for hydraulic and control oil pressure, pressure and flow infinitely variable

Delivery Pump

vertical two-plunger pump Ø 110 mm, flow rate per double stroke $V = 4,5 \text{ l}$ [1,18 gal U.S.], pump valves (suction- and pressure side) self-acting (ball valves), circulation and pump-down valves manually actuated, flow rate adjustment electro-proportional, automatic grease system for plunger sealing sleeves and manually with plunger oil, protective grid with safety function (pump shutdown)

Delivery Pressure Measurement

manometer 0-100 bar [1.450 psi] Ø 100 mm completely with stainless steel membrane

Operating Devices

main switch, control lights CURRENT POWER, CONTROL VOLTAGE and OIL COOLER OPERATION, warning lights EMERGENCY-STOP ACTIVATED, OIL FILTER PUMP and OIL COOLER MALFUNCTION, buttons HYDRAULIC MOTOR ON/OPERATION and HYDRAULIC MOTOR OFF/MALFUNCTION, buttons EMERGENCY-STOP (2x), buttons PUMP ON and PUMP OFF, switch REMOTE CONTROL ON/OFF, switch HAND / AUTOMATIC, button AUTOMATIC START/STOP, switch LIGHT ON/OFF for LED rod lamp inside, rotary knob for max. DELIVERY PRESSURE adjustment, potentiometer FLOW RATE, flow rate counters l/min. [gal U.S./min.] and l/total [gal U.S./total] with zero-setting (2x), auto pre-select counter for flow rate l/total [gal U.S./total], **Connection Options:** socket REMOTE CONTROL with EMERGENCY-STOP bridge plug, free socket 400 V / 16 A, free socket 230 V / 16 A

Accessories (included)

documentation, special tools for operation and maintenance, cable remote control 15 m and cable reel 100 m, suction hose 3 m, circulation hose, corded LED rod lamp inside

Accessories (optional)

spare part kits, grouting hoses, suction hoses, fittings, grouting grippers

Supplementary Devices

mixing and storing tanks for solid suspensions, dosing devices, screw-conveyors, radio remote control, control devices, electronic data acquisition and recording, regulating and measuring systems RMS with computer evaluation per USB and injection journal, flow meter with delivery pressure measuring, electronic delivery pressure devices (pressure transmitter) at injection place, devices for radio data transmission

Further devices, special equipments and accessories on request!