

# Pump-Unit

## PS 110-D-C

with diesel engine John Deere 55kW (EU 3b / Tier 4f)

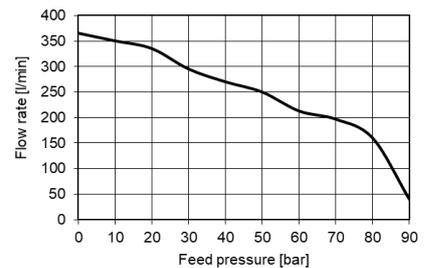


### Technical Data

Drive	Diesel-hydraulic
Drive Power	Diesel engine John Deere 4045TFC03, 55,0 kW [75 HP] at 2.200 rpm, max. Torque 304 Nm at 1.600 rpm, speed limit at 1.800 rpm, 4-cylinder in-line with turbo charger, 4,5 l displacement, water and intercooled, electrical injection
Exhaust emission	EU Step 3b / U.S. EPA Tier 4 final
Fuel consumption	+/- 14 l Diesel/h. [3,7 gal U.S.]
Fuel tank	made of steel, approx. 150 l volume [39 gal U.S.]
Connections	
Hydraulic	quick-couplings for external storing tank: forward, return and leak oil
Electrical	12 V / 24 V DC
In-/Outlets	
Suction line	1 x Kamlok 250 MT - DN 65
Pressure line	G 1 ¼ BSPP IG DN 32 - RD 55
Circulation line	G 1 BSPP IG DN 25 - RD 38
Dimensions (L x W x H)	2.760 x 1.450 x 2.150 (mm)
Weight	approx. 3.400 kg
Application	Pumping of cement-, fly ash and bentonite suspensions at anchoring, groutings, flushings, piling and vibrating jobs, slurry walls, Soil-Mixing WSM (Single-, Twin-Mix), and Cutter-Soil-Mix CSM

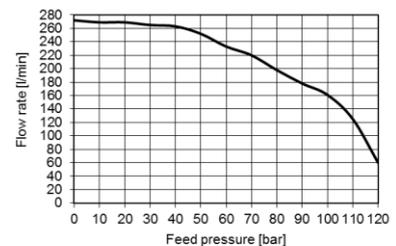
#### Delivery Pump (RA = Ring Area)

Pressure	max. 90 bar <sup>1)</sup>	[max. 1.305 psi] <sup>1)</sup>
Flow rate	max. 365 l/min. <sup>1)</sup>	[max. 96 gal U.S.] <sup>1)</sup>



#### Delivery Pump (PA = Piston Area)

Pressure	max. 120 bar <sup>1)</sup>	[max. 1.740 psi] <sup>1)</sup>
Flow rate	max. 270 l/min. <sup>1)</sup>	[max. 71 gal U.S.] <sup>1)</sup>



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## Standard Features

### Framework

skid steel frame, partially enclosed and with partition panel, floor and oil pan, central towing device, fork lift guides lengthwise and crosswise, machine room sound proofed, lockable doors, finishing 2K-paint RAL 5005 (signal blue) or on customer desire unicoloured

### Diesel Drive

diesel engine John Deere 4045TFC03, 55 kW [75 HP] at 2.200 rpm, 4-cylinder in-line, turbo charger, water and inter cooled, max. torque 304 Nm at 1.600 rpm, speed limit at 1.800 rpm (infinitely variable speed adjustment), starter battery 12 V, exhaust silencer approx. 30 dB/A, control voltage 24 V DC (for valves and remote control), operating hour meter

### Hydraulic

oil tank volume 300 l [79 gal U.S.], axial piston pump and gear pumps, oil cooler with thermostat, main and control oil filter, oil filling and ventilation filter, electrical oil filter pollution control, oil level and temperature indicator, manometer for hydraulic pressure, pressure and flow infinitely variable

### Delivery Pump

vertical two-plunger pump  $\varnothing$  110 mm, flow rate per double stroke  $V = 4,5$  l [1,18 gal U.S.], pump valves (suction- and pressure line) 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]  $\varnothing$  100 mm completely with stainless steel membrane

### Operating Devices

battery main switch, control light CONTROL VOLTAGE, warning lights OIL FILTER PUMP, OIL FILTER CONTROL OIL and OIL FILTER EXTERNAL AGITATOR, buttons EMERGENCY-STOP (2x), buttons PUMP ON and PUMP OFF, button EXTERNAL AGITATOR ON/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, socket BATTERY CHARGER 12 V

### Engine panel

LCD 7" colour display with lateral function keys for querying and displaying all relevant engine informations such as engine speed, fuel consumption, fuel tank display, water temperature, oil and boost pressure, battery voltage, operating hours, date/time etc., ignition lock, warning lamps LOW COOLING WATER and AIR FILTER POLLUTION, switch for SPEED SET 0-1-2

### 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

### 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!*