

Fuel Transfer Kits
Fuel Dispensers
Fuel Pumps
Oil Pumps
Accessories















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Diesel Fuel Pumps

AC powered



Panther 56/72

ZUWA diesel fuel pumps – rugged, durable pumps for the refuelling of construction engines, commercial and agricultural vehicles, motor yachts etc. with diesel or biodiesel. Applicable for filling and discharging fuel oil tanks. The pumps operate efficiently and reliably even at low temperatures.

Capacity: 40 - 100 litres/min.



E 80/120

Panther 56/72 and E 80/120

- » dry self-priming
- » no priming assistance required
- » integrated bypass valve
- » exclusively on model Panther: integrated filter on the suction side and anti-siphon valve
- » wide range of accessories available



PICO 230 Volt (barrel not included with the delivery)

Barrel Pump PICO New

- » barrel connection 2"
- » 4 m hose ³/₄"
- » foot valve
- » automatic or manual nozzle
- » 2 m cable with plug
- » optional: digital flow meter K24

AC Powere	d Pumps								
type	code	kW	Volt	Α	rpm (max)	flow rate (max)	pressure bar (max)	connections	weight kg
Panther 56-m	120701	0,35	230	3,0	2800	56 L/min	1,5	1" FPT x 1" FPT	7,4
Panther 56-t	120703	0,5	400	1,3	2800	56 L/min	1,5	1" FPT x 1" FPT	7,4
Panther 72-m	120702	0,5	230	4,2	2800	72 L/min	2,0	1" FPT x 1" FPT	7,9
Panther 72-t	120704	0,5	400	1,6	2800	72 L/min	2,0	1" FPT x 1" FPT	7,9
E 80-m	120607	0,5	230	3,5	1400	75 L/min	1,6	1" FPT x 1" FPT	13
E 80-t	120619	0,5	400	1,6	1400	75 L/min	1,6	1" FPT x 1" FPT	13
E 120-m	120608	0,75	230	5,7	1400	100 L/min	1,7	1" FPT x 1" FPT	15,6
E 120-t	120638	0,75	400	2,2	1400	100 L/min	1,7	1" FPT x 1" FPT	15,6
PICO 230 V	P20200	0,22	230	0,97	n. A.	35/30* L/mir	n 1,0	3/4" MPT x 2" MPT	4,5/5,5*
* manual/automa	atic nozzle								

Diesel Fuel Pumps

DC powered



Panther 56/72, BI 100 and E 2000

- » dry self-priming
- » no priming assistance required
- » integrated bypass valve
- » exclusively on model Panther: integrated filter on the suction side and anti-siphon valve
- wide range of accessories available

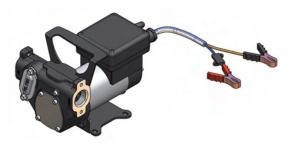






CARRY 2000

- » pump E 2000 with handle
- » on/off-switch
- » battery cable



CARRY Panther

- » pump Panther DC with handle
- » on/off-switch
- » battery cable

DC Powered P	umps								
type	code	kW	Volt	Α	rpm (max)	flow rate (max)	pressure bar (max)	connections	weight kg
E 2000-12	120628	0,14	12	22	2800	40 L/min	1,0	3/4" FPT x 3/4" FPT	3,5
E 2000-24	120630	0,16	24	13	2800	43 L/min	1,0	¾" FPT x ¾" FPT	3,5
BI 100-12	120708	0,24	12	35	2000	85 L/min	1,2	1" FPT x 1" FPT	9,9
BI 100-24	120707	0,24	24	22	2000	85 L/min	1,2	1" FPT x 1" FPT	9,9
Panther 56 DC	120701DC	0,6	12	35	2900	56 L/min	1,5	1" FPT x 1" FPT	7,5
Panther 72 DC	120702DC	0,6	24	25	3500	70 L/min	2,0	1" FPT x 1" FPT	7,5
Carry 2000 12 V	120670	0,14	12	22	2800	40 L/min	1,0	¾" FPT x ¾" FPT	4,2
Carry 2000 24 V	120671	0,16	24	13	2800	43 L/min	1,0	¾" FPT x ¾" FPT	4,2
Carry Panther 12 V	120672	0,6	12	35	2900	56 L/min	1,5	1" FPT x 1" FPT	9,1
Carry Panther 24 V	120673	0,6	24	25	3500	70 L/min	2,0	1" FPT x 1" FPT	9,1

Diesel Fuel Pumps

DC powered



Battery Kit

- » pump Carry 2000 or alternatively Panther DC
- » on/off-switch
- » battery cable
- » manual nozzle
- y 4 m oil resistant rubber hose, 3/4" male thread, Ø 19 mm, with swivel connector and suction filter



» dry self-priming impeller pump 12 or 24 Volt

Multi Purpose Barrel Pump for Battery Drive

- » for diesel fuel, oils and more liquids
- » three pin plug
- » on/off-switch with thermal motor protection
- » ultra light: only 3.1 kg
- » optional: barrel connection 2"



PICO 12/24 Volt*

Barrel Pump PICO for Battery Drive New

- » barrel connection 2"
- » 4 m hose 3/4"
- » foot valve
- » automatic or manual nozzle
- » 3 m cable with battery clips
- » optional: digital flow meter K24

^{*} barrel and battery not included with the delivery

DC Powered	Pumps								
type	code	kW	Volt	Α	rpm (max)	flow rate (max)	pressure bar (max)	connections	weight kg
battery kit Carry 2000 12 V	120631	0,14	12	22	2800	40 L/min	1,0	¾" FPT x ¾" FPT	7,5
battery kit Carry 2000 24 V	120632	0,16	24	13	2800	43 L/min	1,0	¾" FPT x ¾" FPT	7,5
battery kit Panther 12 V	120705	0,6	12	35	2900	56 L/min	1,5	1" FTP x 1" FTP	10,8
battery kit Panther 24 V	120706	0,6	24	25	3500	70 L/min	2,0	1" FTP x 1" FTP	10,8
UNISTAR 2000-B	11217111312	0,1 0,2	12 24	7,3 8,3	670 1500	15 L/min 33 L/min	2,5	1" MPT x 1" MPT	3,1
PICO 12 V	P20204	0,1	12	9,2	n. A.	30/25* L/min	1,0	3/4" MPT x 2" FPT	4,5/5,5*
PICO 24 V	P20208	0,1	24	5,6	n. A.	30/25* L/min	1,0	3/4" MPT x 2" FPT	4,5/5,5*
* manual/automati	c nozzle								

Fuel Transfer Kits



E 56F/Z



E 72-BS/Z



E 2000-F



E 56-BS

ZUWA fuel transfer kits – complete, ready to mount systems to be fastened either to a wall or a tank.

Features

- » pump with on/off-switch and cable with plug (only 230 Volt)
- » types E56 and E72 with anti-siphon valve
- » available with or without mechanical meter
- » automatic nozzle optional with type approval
- » delivery hose 4 metre, reinforced oil resistant rubber, Ø 19 or 25 mm, ¾" or 1" male thread
- » suction kit: 1.5 m oil resistant spiral hose, Ø 25 mm,1" male thread with foot valve
- » nozzle holder (except for E56-BS and E72-BS)

Fuel Transfer Kits for Wall Fastening with Meter on Plate							
type	code	pump	flow rate pump (max)	Volt			
E 56-BS/Z	120713	Panther 56	56 L/min	230			
E 72-BS/Z	120639	Panther 72	72 L/min	230			
E 2000-BS/Z	120634	E 2000	40 L/min	12			
E 2000-BS/Z	120633	E 2000	43 L/min	24			

Fuel Transfer Kits for Tanks with 2" Barrel Connection and Meter							
type	code	pump	flow rate pump (max)	Volt			
E 56-F/Z	120709	Panther 56	56 L/min	230			
E 72-F/Z	120660	Panther 72	72 L/min	230			
E 2000-F/Z	120674	E 2000	40 L/min	12			
E 2000-F/Z	120675	E 2000	43 L/min	24			

Fuel Transfer	Kits without Me	ter (Types -F wit	h 2" Barrel Con	nection)
type	code	pump	flow rate pump (max)	Volt
E 56-BS	120711	Panther 56	56 L/min	230
E 72-BS	120659	Panther 72	72 L/min	230
E 56-F	120714	Panther 56	56 L/min	230
E 2000-F	120676	E 2000	40 L/min	12
E 2000-F	120677	E 2000	43 L/min	24

Nozzles with type approval for all types of fuel transfer units on option.

Fuel Transfer Tank



Quick installation unit consisting of tank, suction kit, pump and hose. Ideal as private filling station or on construction sites.

Pump Features

- » self-priming vane pump
- » flow rate up to 70 L/min
- $^{\text{y}}$ 100 μ filter in the pump housing (not in combination with pump E 2000)
- » high precision mechanial meter K33
- » automatic nozzle (optional with type approval)
- » 4 m high quality oil-resistant discharge hose
- » nozzle holder
- » Panther 56 and 72: anti-siphon valve



limit indicator

Tank Features

- » nominal capacity approx. 990 litres
- » dimensions L x W x H: 1140 x 730 x 1640 mm
- » tank level control
- » double wall construction (steel panes + PE-DH plastics)
- » visual leak detector
- » suction kit with metal tube, swing check valve, filter and hose for pump connection
- » storage approval

- filling and venting neck
- » limit indicator
- » unlimited ADR transport approval

Fuel Transfer Tanks				
type	code	pump	flow rate pump (max)	Volt
fuel transfer tank E 56-BS/Z	120820	Panther 56	56 L/min	230
fuel transfer tank E 72-BS/Z	120821	Panther 72	72 L/min	230
fuel transfer tank E 2000-BS/Z	120822	E 2000	40 L/min	12
fuel transfer tank E 2000-BS/Z	120823	E 2000	43 L/min	24



Small Diesel Fuel Dispensers

with mechanical meter

Compact, economic fuel dispensers for private and business (not for resale) use, rugged, durable design. For wall, tank or pedestal mounting.

Features

- » dry self-priming vane pump alternatively for 230,12 or 24 Volt
- » built-in bypass valve and anti-siphon valve
- » integrated filter on the suction side of the pump
- » automatic nozzle optional with type approval
- » nozzle holder with pump start/stop lever
- » mechanical flow meter with high precision and clearly legible display
- » suction kit: 1.5 metre oil resistant spiral hose, Ø 25 mm, 1" external thread with foot valve (not available in combination with pedestal)
- » high quality oil resistant delivery hose, 4 metre, Ø 19 or 25 mm, ¾" or 1" male thread with swivel connection
- » sheet steel housing with anticorrosion treatment

- » 2" connection for tank mounting on suction side
- » pedestal



coupling tank mount version



fuel dispenser 56



fuel dispenser 70

Small Diesel Fuel Die	spensers with M	Mechanical N	/leter		
type	code	kW	Volt	flow rate (max)	weight kg
fuel dispenser 56	120600	0,35	230	56 L/min	21
fuel dispenser 56, 12 V	120599	0,30	12	56 L/min	21
fuel dispenser 70, 24 V	120598	0,42	24	70 L/min	21
fuel dispenser 70	120610	0,50	230	72 L/min	25
pedestal blue	12061050	-	-	-	18
pedestal red	12060050	-	-	-	18

Small Diesel Fuel Dispensers

with electronic meter

Compact and sturdy fuel dispenser with data management system for private and business (not for re-sale) use. Easy installation. Wall, tank or pedestal mounting. Optional PC interface.





fuel dispenser 70 MC50

Features

- » dry self-priming vane pump for 230, 12 and 24 Volt
- » built-in bypass valve and anti-siphon valve
- » integrated filter on the suction side of the pump
- » automatic nozzle optional with type approval
- » nozzle holder with pump start/stop lever
- » digital flow meter K600, precision ± 0,5 %
- » suction kit: 1.5 metre oil resistant spiral hose, Ø 25 mm, 1" external thread with foot valve (not available in combination with pedestal)
- » delivery hose 4 metre, Ø 25 mm, 1" male thread with swivel connection

optional:

» pedestal





magnetic key



key reader

Tank Data Management System

- » digital display for dispense volume and operating instructions
- access control and data management for up to 50 users with access code (PIN) and/or magnetic keyl
- » dispense volume can be preset, pump stops automatically when reaching required volume
- » local memory up to 200 performed dispensing operations (dispense volume, date, time, user and optional kilometres, vehicle registration number)

- » data management software for administration and analysation on PC
- » connection and data transfer via magnetic key (manager key) and/or serial interface RS 485
- » magnetic key for access control

Small Diesel Fuel D	Dispensers	with Electro	nic Meter			
type	code	pump	flow rate (max)	number of users	magnetic key	weight kg
fuel dispenser 70 MC50	120612	Panther 72	72 L/min	50	optional	25
pedestal black	P12708	-	-	-	-	18
magnetic key set for serial interface	P12709		nanager key, 10 PC reader, PC			
magnetic key set for USB connection	P14144		nanager key, 10 PC reader, PC			



Diesel Fuel Dispensers Self Service

with electronic meter

Fuel dispenser Self Service: modern, slender design for quick and convenient refuelling. Available as stand alone or tank mounted version. Optional PC connection.



Self Service FM up to 120 users



Self Service MC up to 80 users



tank versions



Features

- dry self-priming vane pump 230 Volt
- » integrated pressure regulation valve (bypass)
- » protective filter on the suction side
- » automatic nozzle optional with type approval
- » nozzle holder with lever for automatic pump start/stop
- » electronic flow meter K600
- » delivery hose 4 metre, Ø 25 mm, 1" male thread with swivel connection
- » water separation filter
- » thermal printer for fuelling slip
- » tank level control
- » lockable front door allows for easy access for maintenance and service

Diesel Fuel Dispensers Self Service

with electronic meter





Tank Data Management System

- digital display for dispense volume and operating instructions
- access control and data management for up to 120 users with access code (PIN) and/or magnetic key
- dispense volume can be preset, pump stops automatically when preset volume is dispensed
- local memory up to 250 fillings (dispense volume, date, time, user and optional kilometres, vehicle registration number)

- » data management software for administration and analysation on PC
- connection and data transfer via magnetic key (manager key) and/or serial interface RS 485
- magnetic key for access control







magnetic key



Diesel Fuel Dispe	nsers with	Electronic	Flow Mo	eter				
type	code	pump	flow rate L/min (max)	number of users	water filter	magnetic key	printer	tank level indication
Self Service 70 FM	120801	Panther 72	72	120	yes	optional	yes	yes
Self Service 70 FM tank	120801 Tank	Panther 72	72	120	optional	optional	yes	yes
Self Service 100 FM	120806	E 120	100	120	yes	optional	yes	yes
Self Service 100 FM tank	120806 Tank	E 120	100	120	optional	optional	yes	yes
Self Service 70 MC F	120803	Panther 72	72	80	yes	optional	-	-
Self Service 70 MC tank	120803 Tank	Panther 72	72	80	optional	optional	-	-
Self Service 100 MC F	120808	E 120	100	80	yes	optional	-	-
Self Service 100 MC tank	120808 Tank	E 120	100	80	optional	optional	-	-
magnetic key set for serial interface	P12709	1 manage	r key, 10 use	er key, PC re	ader, PC so	oftware		
magnetic key set								
for USB connection	P14144	1 manage	r key, 10 mse	er key, PC re	eader, PC s	oftware		
external water filter	PF13125	for Self Se	ervice 70 tan	k version				
external water filter	PF13126	for Self Se	ervice 100 tai	nk version				



Diesel Fuel Dispensers Self Service

with mechanical meter

Fuel dispenser Self Service: modern, slender design for quick and convenient refuelling. Available as stand alone or tank mounted version.

Features

- » integrated pressure regulation valve (bypass)
- » protective filter on the suction side
- » automatic nozzle optional with type approval
- » nozzle holder with lever for automatic pump start/stop
- » delivery hose 4 metre, Ø 25 mm, 1" male thread with swivel connection
- » lockable front door allows for easy access for maintenance and service







Mechanical Flow Meter K44

precision ± 1%

subtotal dispense volume indicator **4-digit** (resettable)

total dispense volume indicator **7-digit** (not resettable)



tank version



Diesel Fuel Dispensers with Mechanical Flow Meter								
type	code	pump	flow rate (max)	weight kg				
Self Service 70 K44	120805	Panther 72	72 L/min	67				
Self Service 70 K44 Tank	120805 Tank	Panther 72	72 L/min	57				
Self Service 100 K44	120810	E 120	100 L/min	75				
Self Service 100 K44 Tank	120810 Tank	E 120	100 L/min	65				

Fuel Systems for Vegetable Oil



Fuel systems and fuel dispensers with high capacity pumps and a wide range of accessories, especially adapted to the high viscosity of vegetable oil. Auto stop nozzles are available for all models on option.

Fuel Unit for Vegetable Oil

Small and compact for wall mounting or optionally with pedestal. Equipped alternatively with side channel pump or impeller pump (both stainless steel), hoses, nozzle and digital flow meter.

Fuel Unit for Vegetable Oil in Steel Locker

Robust steel locker with large door. 5 metres delivery hose, nozzle and digital flow meter are included.

Available in various versions:

- » with stainless steel impeller pump NIROSTAR or with vane pump Viscomat 90
- » with or without magnetic key for access control
- » power supply 230 or 400 Volt

ZUWA



Fuel Unit for Vegetable Oil Self Service 70 MC

Fuel dispenser with access control and tank data management system. Magnetic key and software to analyse data on PC are available. (See fuel dispenser Self Service 70 MC, page 11)

Nozzle and nozzle holder with automatic on/off switch. Lockable front door allows for easy access for maintenance and service.

Fuel Units for Vegetable Oil				
type	code	Volt	flow rate (max)*	pressure bar (max)
fuel unit for vegetable oil EP 40 NIRO	180037	230	75 L/min	2,2
fuel unit for vegetable oil EP 40 NIRO	180038	400	75 L/min	2,2
fuel unit for vegetable oil NIROSTAR 2000-D	19002199	230	75 L/min	3
fuel unit for vegetable oil NIROSTAR 2000-D	19002196	400	75 L/min	3
fuel unit for vegetable oil in steel locker NIROSTAR**	19003191	230	75 L/min	3
fuel unit for vegetable oil in steel locker NIROSTAR**	19003190	400	75 L/min	3
fuel unit for vegetable oil in steel locker VISCOMAT 90**	19003195	230	60 L/min	5
fuel unit for vegetable oil in steel locker VISCOMAT 90**	19003194	400	60 L/min	5
fuel unit for vegetable oil Self Service 70 MC NIROSTAR	19002198	230	75 L/min	3
fuel unit for vegetable oil Self Service 70 MC NIROSTAR	19002197	400	75 L/min	3
fuel unit for vegetable oil Self Service 70 MC VISCOMAT	19002210	230	60 L/min	5
fuel unit for vegetable oil Self Service 70 MC VISCOMAT	19002200	400	60 L/min	5
* at 20°C	t (10 keys include	ed with delive	ery)	

Oil Pumps

Vane, gear and impeller pumps for oils with all grades of viscosity. Also available with pressure switch for automatic pump start and stop.



VISCOMAT 70/90

Self-priming vane pumps with specially designed blades for the transfer of oils and lubricants. The adjustable bypass valve provides flow regulation (except for Viscomat 90-m).

Excellent suction capacity and low-noise operation.



VISCOMAT 200/230/350

Gear pumps with excellent suction capacity and an internal profile maintaining constant flow at high pressure. Integrated bypass and venting valve. Pump can be mounted horizontally or vertically.



VISCOMAT DC 12/24 V

Gear pump with DC motor and battery connection for oil transfer or to draw off oil. For any mobile application.

Oil Pumps type	code	kW	Volt	flow rate (max)	pressure bar (max)	connections	weight kg
Viscomat 70-m	120609	0,75	230	25 L/min	6	¾" FPT x ¾" FPT	14,1
Viscomat 70-t	120606	0,75	400	25 L/min	6	¾" FPT x ¾" FPT	14,1
Viscomat 90-m	1206070	1,6	230	50 L/min	5	1" FPT x 1" FPT	14,1
Viscomat 90-t	1206069	2	400	50 L/min	5	1" FPT x 1" FPT	14,1
Viscomat 200-m	1206092	0,75	230	9 L/min	12	1" FPT x 1" FPT	9
Viscomat 200-t	1206096	0,75	400	9 L/min	12	1" FPT x 1" FPT	9
Viscomat 230-m	1206091	0,75	230	14 L/min	12	1" FPT x 1" FPT	12,5
Viscomat 230-t	1206095	0,75	400	14 L/min	12	1" FPT x 1" FPT	12,5
Viscomat 350-m	1206093	0,75	230	9 L/min	25	1" FPT x 1" FPT	12,5
Viscomat 350-t	1206094	0,75	400	9 L/min	25	1" FPT x 1" FPT	12,5
Viscomat DC 12V	1206097	0,15	12	4 L/min	5	1/2" FPT x 1/2" FPT	3
Viscomat DC 24V	1206098	0,15	24	4 L/min	5	½" FPT x ½" FPT	3



VISCOMAT with Pressure Switch

The pressure switch automatically starts the pump when the nozzle opens and switches it off when maximum pressure is reached.

Oil Pumps VISCOMAT with Pressure Switch							
type	code	kW	Volt	flow rate (max)	pressure bar (max)	weight kg	
Viscomat 200 with pressure switch	120645	0,55	230	9 L/min	12	12	
Viscomat 230 with pressure switch	120651	0,75	230	14 L/min	16	15	
Viscomat 350 with pressure switch	120647	0,75	230	9 L/min	25	15	



Oil Transfer Kit

Oil pump VISCOMAT 70, plate mounted for wall fastening.

Features:

- » protective filter on the inlet side
- » 1,5 m oil resistant suction hose, Ø 19 mm, 3/4" male thread
- » 4 m oil resistant delivery hose, Ø 13 mm, ½" male thread
- » nozzle for oils provided with electronic flow meter K400
- » nozzle holder and hose carrier

(Art-Nr. 120644 with 230 Volt) (Art-Nr. 120646 with 400 Volt)



Dry self-priming ZUWA impeller pumps are capable of draining tanks nearly completely. The flexible impeller allows to pass suspended solids with the liquid and is ideal for pumping waste oil.



CHP Oil Change Unit Stationary New rapid and convenient motor oil change in CHP units Features:

- » pump UNISTAR 2000-A, flow rate with oil max. 15 L/min
- » nozzle with electronic flow meter
- » 2 x 3 m suction hose, 2 x 4 m delivery hose
- » 2 multifunctional valves

(code 11138136322-BHKW)

For further information about function and features please ask for our detailed brochure.

Impeller Pump UNISTAR								
type	code	kW	Volt	flow rate (max)	pressure bar (max)	connections	weight kg	
UNISTAR/V 2000-A	110121M	0,37	230	30 L/min	3	¾" MPT x ¾" MPT	9,5	
UNISTAR/V 2000-B	110131M	0,55	230	60 L/min	3	1" MPT x 1" MPT	10	

AdBlue® Fuelling Systems

AdBlue® is a solution of water and urea used for catalytic converters of diesel engined commercial vehicles. In the SCR technology AdBlue® is applied for exhaust gas treatment reducing toxic nitrogen oxides in the exhaust gases.



AdBlue BASIS with flow meter **K24**



AdBlue® KOMPAKT with flow meter TURBINOX

AdBlue® BASIS/ KOMPAKT

- » dry self-priming and easy to maintain
- » pump body made of high quality stainless steel
- » flow rate with urea: max. 45 L/min
- » high precision digital flow meter



AdBlue® TOP

Complete AdBlue® transfer kit, particularly suitable for IBC and smaller containers.

- » available either with powerful impeller or centrifugal pump
- » digital flow meter TURBINOX
- » suction hose with quick coupling
- » 4 metres delivery hose
- » automatic oder manual nozzle
- » nozzle holder with drop collector

Fuelling Systems for AdBlue® type	code	Volt	flow rate (max)	pressure bar (max)
AdBlue® BASIS (with flow meter)	81598	230/400	45 L/min	4
AdBlue® KOMPAKT (with flow meter)	81595	230/400	45 L/min	4
AdBlue® TOP 1 (with flow meter, automatic nozzle)	81596	230/400	45 L/min	4
AdBlue® TOP 2 (with flow meter, automatic nozzle)	81597	230	40 L/min	5
AdBlue® TOP 2 (without flow meter, automatic nozzle)	81599	230	40 L/min	5

AdBlue® Pumps

pumps and accessories



AdBlue® pump for battery drive with flow meter, pressure switch and dry run protection

AdBlue® Pumps

- » dry self-priming and easy to maintain
- » pump body made of high quality stainless steel
- » flow rate with urea: max. 45 L/min
- » ultra light

optional:

- » high precision digital flow meter K24
- » pressure switch for automatic On/Off
- » dry run protection

Pumps for AdBlue® type	code	Volt	flow rate (max)	pressure bar (max)
AdBlue® pump AC	13218116331	230	45 L/min	4
AdBlue® pump DC	13218111312	12/24	12/25 L/min	3





Nozzles for AdBlue®	code	flow rate (max)	connections
nozzle for AdBlue® manual	131120	80 L/min	3/4"
nozzle for AdBlue® automatic	131029	70 L/min	3/4"



Flow Meter TURBINOX

- » precision: ±1%
- » housing stainless steel
- » user friendly calibration
- » digital display (subtotal 5digit, total 8-digit)



Flow Meter K 24

- » precision ±1%
- » housing: synthetic
- » pivoted digital display (subtotal 5-digit, total 6-digit)
- » battery charge indicator

Flow Meters for AdBlue®							
type	code	flow rate (max)	pressure bar (max)	connections	weight kg	dimensions mm	
K24	131817	5 - 100 L/min	20	1" MPT x 1" FPT	0,4	225x100x100	
TURBINOX	131811	4 - 40 L/min	30	1" FPT	1,5	n/a	

for diesel fuel and vegetable oil

Manual Nozzles

- » with swivel connection
- » low flow loss
- » types 120 and 150 with aluminium housing







Automatic Nozzles

- » swivel connection
- » stops fuelling process automatically when tank is full
- » rubber jacket convenient handling also in low temperatures (not available for nozzle 280)

auto stop nozzles also available for vegetable oil







Nozzles for Diesel and Biodie	esel with Swivel Connect	tion	
type	code	flow rate (max)	connections
manual nozzle plastics	131041	80 L/min	1" female
manual nozzle 120	131016	120 L/min	1" female
manual nozzle 150	131080	150 L/min	1" female
automatic nozzle 60	131033	60 L/min	1" female
automatic nozzle 70 with type approval	131033G	70 L/min	1" female
automatic nozzle 80	131069	80 L/min	1" female
automatic nozzle 120	131070	120 L/min	1" female
automatic nozzle 120 with type approval	131070G	120 L/min	1" female
automatic nozzle 280	1310250	280 L/min	1 ½" female

Nozzles for Vegetable Oil with Swivel Connection					
type	code	flow rate (max)	connections		
nozzle automatic - passenger car (not shown)	131030	60 L/min	1" female		
nozzle automatic - commercial vehicle (not shown)	131130	80 L/min	1" female		



for oils and lubricants

Nozzles for Oils

- » with automatic anti-drip valve
- » alternatively with flexible or rigid end fitting
- » preadjustment of charge with meter K500



Nozzles for Oils and Lubricants with Aut	omatic Anti-	-drip Valve	
type	code	flow rate	connections
nozzle rigid	131803		½" female
nozzle flexible	131804		½" female
nozzle with mechanic flow meter K40, rigid (not shown)	131818	1 - 30 L/min	½" female
nozzle with mechanic flow meter K40, flexible	131819	1 - 30 L/min	½" female
nozzle with digital flow meter K400, rigid (not shown)	131802	1 - 30 L/min	½" female
nozzle with digital flow meter K400, flexible	131801	1 - 30 L/min	½" female
nozzle with digital flow meter K500 *, flexible	131807	1 - 30 L/min	½" female
nozzle with digital flow meter K600, rigid (not shown)	131820	6 - 60 L/min	1" female
nozzle with digital flow meter K600, flexible	131821	6 - 60 L/min	1" female
* required charge can be preadjusted			

Flow Meters

mechanical and electronic





K33 K44

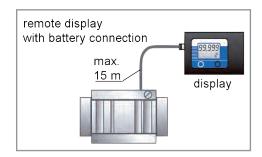
Mechanical Flow Meters K33 / K44

for diesel and oils

K33: 3-digit subtotal and 6-digit total dispense volume indicator K44: 4-digit subtotal- and 7-digit total dispense volume indicator

- precision ±1%
- low flow loss

Mechanical Flow Meters								
type	code	flow rate L/min	pressure bar (max)	connections	weight kg	dimensions mm		
K33	131072	10 - 100	10	1" female	2	180x180x170		
K44	131806	10 - 100	10	1" female	2	180x180x170		



Pulser Flow Meters

for diesel and oils

Counters for connecting with an external receiver, with or without remote indicator The K900 includes remote indication and cable connection.



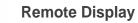




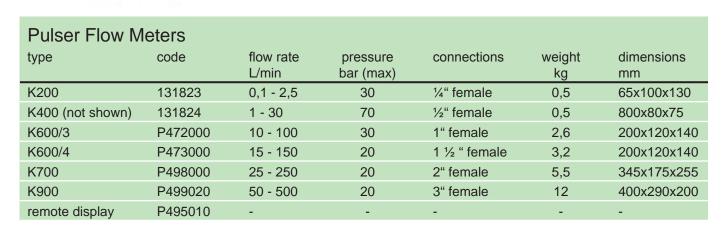


K900

K700



Teleindication for a distance up to 15 metres when combined with a counter. Works with battery or conventional power supply.



Flow Meters

electronic



K24 with pivoted display



K200 New

for diesel, biodiesel and oils

- digital display with 5-digit subtotal and 8-digit total dispense volume indicator
- precision ±0,5%
- housing: aluminium
- low flow loss



K400

for oils and lubricants

- digital display with 5-digit subtotal and 8-digit total dispense volume indicator
- precision ±0,5%
- housing: aluminium
- low flow loss
- balance valve for pressure reduction



TURBINOX

for diesel and AdBlue®

- digital display with 5-digit subtotal and 8-digit total dispense volume indicator
- precision ±1%
- housing stainless steel
- user friendly calibration



for diesel, biodiesel and heat transfer medium

- pivoted digital display with 5-digit subtotal and 6-digit total dispense volume indicator
- high precision ±1%
- housing: plastics
- flow rate: max. 120 L/min
- operating pressure: max. 20 bar
- connection 1", NW 25
- battery charge indicator



K600

for diesel and biodiesel K600/3 also for oils

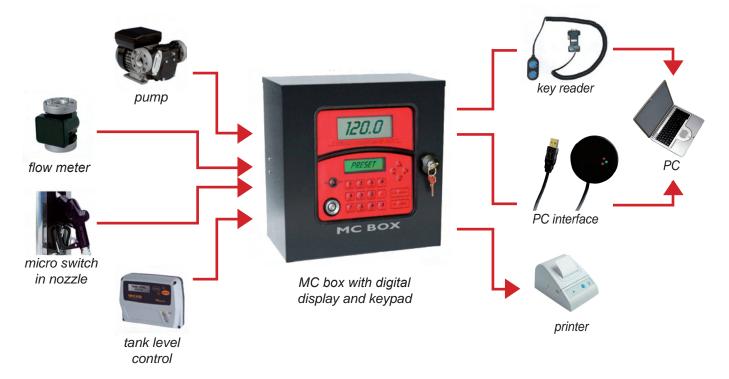
- digital display with 5-digit subtotal and 8-digit total dispense volume indicator
- precision ±0,5%
- housing: aluminium
- low flow loss
- integrated filter in the suction line
- low battery indicator
- calibratable



Electronic Flow Meters with Integrated Display						
type	code	flow rate L/min	pressure bar	connections	weight kg	dimensions mm
K24	131815	5 - 120	20	1" MPT x 1" FPT	0,4	225x100x100
K200	131822	0,1 - 2,5	550	1/4" female	0,6	310x170x55
K400	131801Z	1 - 30	70	½" female	0,5	80x80x75
K600/3	131805	10 - 100	30	1" female	1,6	200x120x140
K600/4	131809	15 - 150	20	1 ½ " female	3,2	200x120x140
K900 (not shown)	499020	50 - 500	20	3" female	12	400x290x200
TURBINOX	131811	4 - 40	30	1" female	1,5	

Accessories

MC box and tank level control



MC Box - Control System for Multiple Fuel Units

Logging and administration of tank data via PC and printer

- » digital display for dispense volume and operating instructions
- » administration of up to 80 users
- » access control via PIN-code or magnetic key
- » preadjustable charge
- » local memory for up to 250 performed dispensing operations (dispense volume, date, time, user and optional kilometres, vehicle registration number)
- » connection to tank level control
- » administration of the micro switch connected to the nozzle holder
- » data transfer to PC via key reader oder specific transfer cable (RS Converter, for a distance of up to 1000 m) via USB interface

(code P572000)

Tank level control

Permanent high precision display of tank content. The unit consists of a control device with system integrated software and a 10 metre hose.

Optional PC connection, easy to configure.

Adjustments:

- » filling level alarm (min/max)
- » level indication (height, volume in various measures, per cent)
- » calibration

(code 131808)

Extended remote control

Filling level control can be expanded with a remote control system sending out alarm signals or the current filling level via SMS or e-mail. Up to eight tanks can be controlled.



Hoses for Diesel Fuel and Oil

All hoses come with swivel connector.

Filling hose: reinforced, oil resistant rubber up to max. 10 bar pressure

- 1/2" hose, NW 13, sold per metre (code 30077)
- 3/4" hose, NW 19, sold per metre (code 30074)
- 1" hose, NW 25, sold per metre (code 30075)
- 1½" hose, NW 38, sold per metre (code 30086)
- ¾" filling hose kit, Ø 19 mm, 4 metres with crimped fittings 1" male thread (code 131012) *
- 1" filling hose kit, Ø 25 mm, 4 metres with crimped fittings 1" male thread (code 131064) *

Spiral reinforced suction hose, oil resistant plastics

- 1" hose, NW 25, sold per metre (code 30095)
- 1" suction hose kit, Ø 25 mm, 1.5 metres with check valve and suction filter (code 131014) *
- * available equally in any required length



filling hose kit



suction hose kit

Accessory Kits for Diesel Fuel Pumps

All kits come with suction hose, filter, check valve, nozzle and filling hose.

- kit with automatic nozzle 60 and filling hose ¾" (code 131090)
- kit with manual nozzle 120 and filling hose ¾" (code 131091)
- kit with automatic nozzle 80 and filling hose 1" (code 131105)

Tank-Adaptor

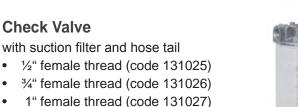
two parts for easy connection of pump and tank pressure side: 1" male thread tank side: 2" male thread (code 131080N)



Swivel Connector

for oil and fuel dispensing nozzles

- 1" x 3/4" male thread (code 131103)
- 1" x 1" male thread (code 131099)





Line Filter

for fuel and oil pumps connection: 1" female thread (code 12060501)



Cartridge Filter for Oil

 10μ , max. 100 L/min, 1" female thread (code 12060502)

Cartridge for Oil (not shown)

 10μ , max. 100 L/min, 1" female thread (code P9359)



Water Separating Filter

30μ, max. 65 L/min, 1" female thread (code P11698)

Cartridge (not shown)

(code P11567)





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