

Muli-Nova DDP

Product information for the product group

ACO Product benefits

- Tested in accordance with DIN EN 12050-1
- Freely selectable inlets
- Delivery heads of up to 30m possible
- 2 container sizes selectable (430/ 440l)
- Easy to maintain backflow preventer (patented)

- Scope
 - Multi-dwelling units
 - Office buildings
 - Industrial buildings
 - Behind separators up to NS20 - in connection with air bubble injection
- Polyethylene tank
 - Bottom outlet/ connection manual membrane pump R 1 1/2'
 - Inspection opening for easy maintenance, diameter: 250 mm
 - Fastening set for buoyancy-proof anchorage
- DDP 1.x:
 - Horizontal inlet sockets 1x DN100, 1x DN150
 - Vertical inlet sockets: 1x DN100, 3x DN150, 1x DN200, 1x DN100 (vent pipes)
- DDP 2.x:
 - Horizontal inlet sockets 3x DN150
 - Vertical inlet sockets: 1x DN100, 2x DN150, 1x DN200, 1x DN100 (vent pipes)
- In addition, freely selectable sockets per hole saw + seal

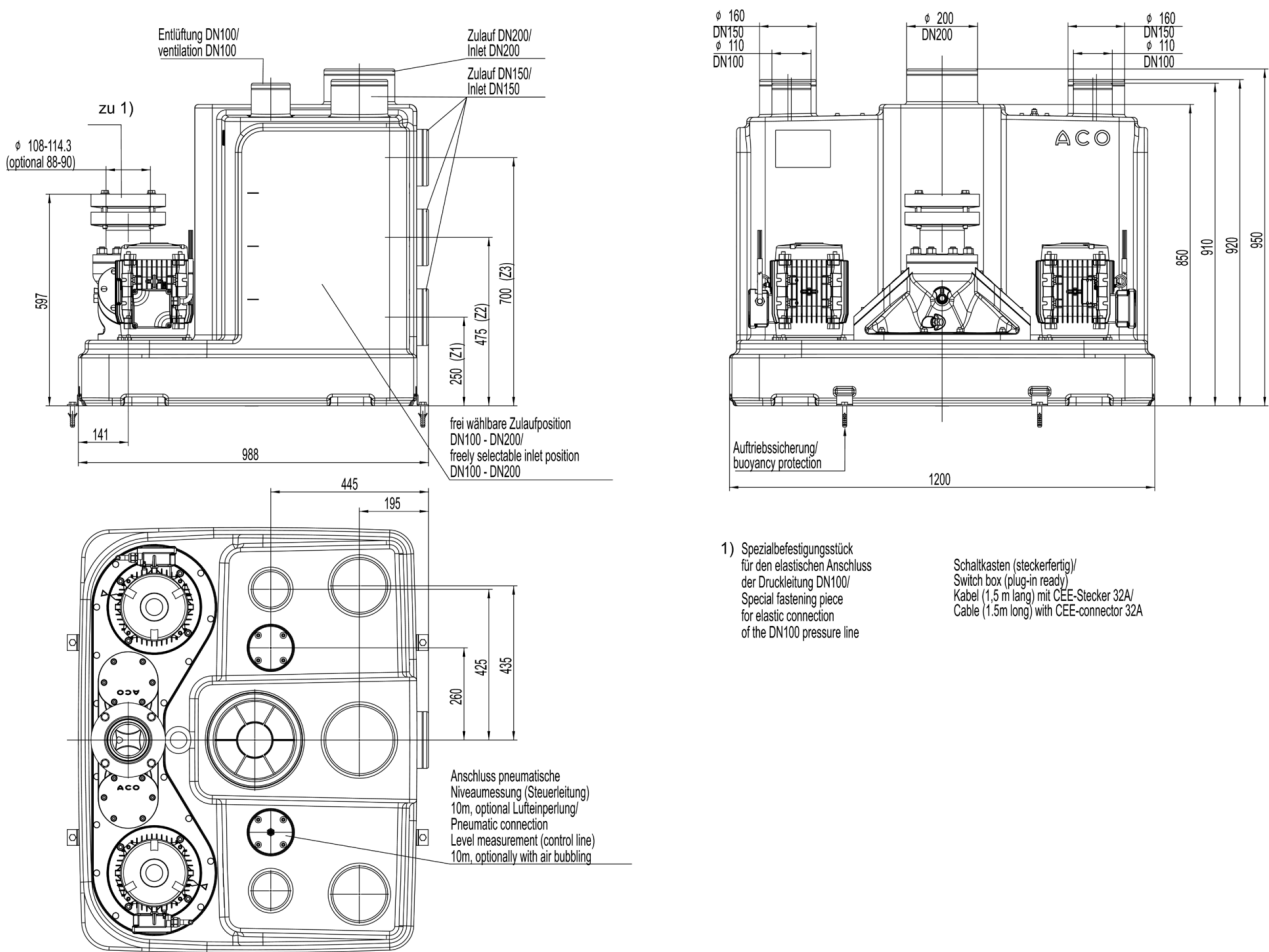
- Discharge line connection
 - Patented flap backflow preventer with lifting screw
 - Drain valve for easier draining
 - Special mounting adapter DN 80 for elastic connection of the discharge line with 108 - 114.3 mm outer pipe diameter (optional 88 - 93 mm)
 - Connecting flange for stop valve DN 80
- 2 pumps
 - 3-phase motor: 400 V, 50 Hz
 - Degree of protection IP 68
 - Blockage-free free flow impeller
 - 10 m connecting cable
- Level switching
 - Pneumatic level switching with 10 m control line
 - Optional: Pressure transducer
 - Optional: Air bubble injection (accessories) for measurement with pilot tube
- Tested in accordance with DIN EN 12050-1
- Approved delivery temperature up to 40 °C (short-term up to max. 65 °C)
- Control is not included in the scope of supply and must be ordered separately (see accessories)



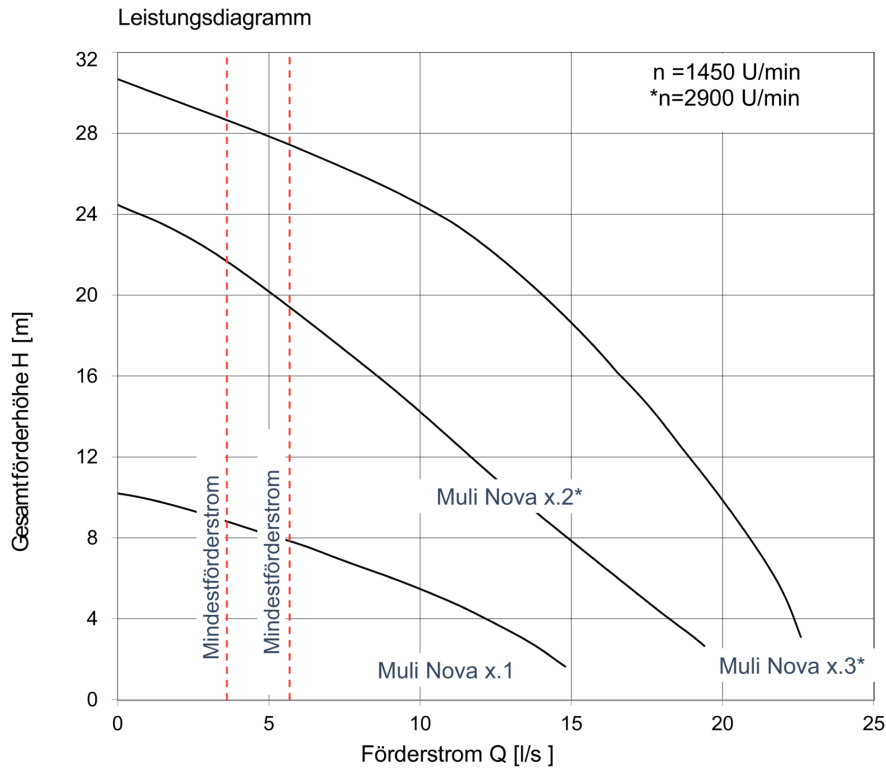
Item Technical Data 3016812

Type	Motor power		Key data			Usable volume				Total volume	Weight
	P1	P2	Pow-er consumption	Voltage	Rev count	Inlet height Z1	Inlet height Z2	Inlet height Z3	Top inlet		
	[kW]	[kW]	[A]	[V]	[r/min]	[l]	[l]	[l]	[l]	[l]	[kg]
Muli-Nova DDP 2.2	3.5	3	6.6	400	2900	120	260	400	455	550	120

Dimensions










Performance parameters












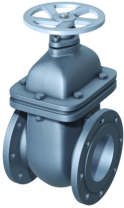



Type	Deliv- ery head [m]	Delivery flow Q with overall delivery head H											Media tem- perature		
		2 m [l/s]	4 m [l/s]	6 m [l/s]	8 m [l/s]	10 m [l/s]	12 m [l/s]	14 m [l/s]	16 m [l/s]	18 m [l/s]	20 m [l/s]	22 m [l/s]	24 m [l/s]	Nor- mal [°C]	Maxi- mum [°C]
Muli- Nova DDP 2.2	2 – 24	19.4	18.4	16.7	15.0	13.2	11.7	10.2	8.6	6.8	5.0	3.1	0.6	40	60






Accessories

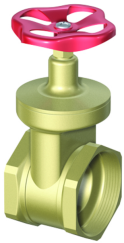

Description	Used with	Weight	PU	Item number
		[kg]	[piece]	
<ul style="list-style-type: none"> ■ For pumps up to 5,5 kW ■ Plug and use with 1.5 m mains cable ■ Operating voltage: 400 V ■ Frequency: 50/60 Hz ■ Control voltage: 230 V/AC ■ Current consumption when idling: max 10 VA ■ Temperature range: -20 to +60 ° C ■ IP 54 protection 		5.4		
	<p>Switching device, ACO Multi Control Duo Professional without Dynamic pressure bellWith Modbus RTU functionality for connection to the building management system; CEE 16 plug with phase-changing switch;</p> <ul style="list-style-type: none"> <input type="checkbox"/> Convertible to CEE 32 with item no. 0150.79.75 (5G4 with CEE 32 plug) <p>; 20 m pneumatic control cable 8 x 6 mm</p>	<p>Muli-Nova DDP;</p> <ul style="list-style-type: none"> <input type="checkbox"/> Muli-Nova x.1 / x.2 		3014981
	<p>Switching device, ACO Multi Control Duo Professional without Dynamic pressure bellWith Modbus RTU functionality for connection to the building management system; CEE 32 plug with phase-changing switch; 20 m pneumatic control cable 8 x 6 mm</p>	<p>Muli-Nova DDP;</p> <ul style="list-style-type: none"> <input type="checkbox"/> Muli-Nova x.3 		3017236
	<p>Switching device, ACO Multi Control Duo without Dynamic pressure bellCEE 16 plug with phase-changing switch;</p> <ul style="list-style-type: none"> <input type="checkbox"/> Convertible to CEE 32 with item no. 0150.79.75 (5G4 with CEE 32 plug) <p>; Without control line</p>	<p>Muli-Max;</p> <ul style="list-style-type: none"> <input type="checkbox"/> Duo <p>; Powerlift-P; Muli-Flex; Muli-Nova DDP;</p> <ul style="list-style-type: none"> <input type="checkbox"/> Muli-Nova x.1 / x.2 		0178.63.94
	<p>Switching device, ACO Multi Control Duo without Dynamic pressure bellCEE 32 plug with phase-changing switch; Without control line</p>	<p>Muli-Nova DDP;</p> <ul style="list-style-type: none"> <input type="checkbox"/> Muli-Nova x.3 		3017237

Description	Used with	Weight	PU	Item number
		[kg]	[piece]	
 <p>Message system with GSM module</p> <ul style="list-style-type: none"> ■ Parameter via app (Android & iOS) ■ Mains-independent alarm via 12V lead-gel battery ■ Optical and acoustic alarm message ■ Freely configurable inputs <ul style="list-style-type: none"> □ 6 digital inputs with LED status display □ 1 analogue ■ 1 alarm output 12 V ■ Alarm forwarding via SMS to mobile phones ■ For mounting outside the hazardous area ■ Housing: 192 x 150(with cable gland) x 100 mm (WxHxD) ■ Protective doctor: IP54 ■ Operating voltage: 230 V/AC 50/60 Hz 	<ul style="list-style-type: none"> ■ All grease separators ■ Grease layer thickness measuring device ■ Pre-tank plants ■ Technical processing systems ■ Quatrix-K backflow preventer type 3F ■ Sinkamat-K (underfloor) duo ■ Muli lifting units ■ Pumping stations ■ Installation sets 	2.0	1	0150.80.14
 <p>Connection cable antenna GSM</p> <ul style="list-style-type: none"> ■ Length incl. connections: approx. 15 m ■ Cable type: RG58 ■ Connections: 1 x SMA plug (SMA/M) and 1 x SMA socket (SMA/F) ■ Only one extension cable may be used per GSM module ■ Usable in temperature range: -20°C to 85°C 	■ GSM - Modul			0150.83.86
 <p>Signalling unit</p> <ul style="list-style-type: none"> ■ Self-charging ■ With floating contact ■ Visual and acoustic ■ Without contact transmitter ■ For mounting outside the potentially explosive atmosphere ■ Dimensions: 175 x 125 x 75 mm W x H x D ■ Protection type: IP65 ■ Operating voltage: 230 V/AC 50/60 Hz ■ Ready to plug in with cable: 2 m 				
	Faecal matter backflow automatic stop Quatrix-K type 3F; All Muli wastewater lifting plants; Upstream tank plant mono/duo; Muli-Max; Sinkamat -K/-KD; Sinkamat-Z; Sinkamat-Z (underfloor); <input type="checkbox"/> Duo ; LipuLift-P	1.4	1	0150.26.73

Description	Used with	Weight	PU	Item number	
		[kg]	[piece]		
 <p>Connection and flood module set</p> <ul style="list-style-type: none"> ■ To report a leak caused for example by a pipe bursting ■ For electrically conducting liquids ■ With volt free contact ■ Visible and audible alarms (approx. 80 dB) ■ Dimensions (width x height x depth): 160 x 120 x 75 mm ■ Protection level: IP 65 ■ Operating voltage: 230 V/AC 50/60 Hz ■ Plug and use: 1.4 m ■ Overflow indicator with 10 m cable 	<ul style="list-style-type: none"> ■ Triplex-K backflow stops <ul style="list-style-type: none"> □ DN 100 – DN 150 ■ Quatrix-K backflow stops ■ All wastewater lifting plants ■ All separators 	1.1	1	0150.78.97	
 <p>Signal horn</p> <ul style="list-style-type: none"> ■ Operating voltage: 12V DC ■ Power consumption: 30 mA ■ 62 x 62 x 85 mm (LxWxD) ■ Degree of protection: IP66 ■ Noise level: 95 dB(A) 	<ul style="list-style-type: none"> ■ Signalling unit ■ Signalling unit with GSM module 	0.2		0150.58.14	
 <p>Signal horn</p> <ul style="list-style-type: none"> ■ 230V AC ■ Power consumption: 30mA ■ Ø62x85 mm (L/B x T) ■ Protection: IP66 ■ 95 dB(A) 	<ul style="list-style-type: none"> ■ Signalling unit with voltage-free fault reporting ■ LipuSmart-P ■ Multi-Max with signalling unit ■ LipuLift-P 	0.3	1	0178.61.94	
 <p>Flashing light</p>	230V; Power consumption: 70 mA	Signalling unit with voltage-free fault reporting; LipuSmart-P; Multi-Max with signalling unit; LipuLift-P	0.5	1	0178.62.08
				0150.76.25	
 <p>Air bubble injection</p> <ul style="list-style-type: none"> ■ To increase operational safety (where floating surfaces are generated e.g. grease separator) ■ For pneumatic level switching ■ Mini compressor <ul style="list-style-type: none"> □ Connection: 230 V □ Plug and use ■ With T-screw-in connection ■ With backflow valve 	Multi-Max; Powerlift-P; Multi-Flex	0.6		0150.25.45	
 <p>Pressure pick-up</p> <ul style="list-style-type: none"> ■ 4–20 mA ■ For secure switching cable lengths > 12 m ■ 0–200 mbar 					

Description	Used with	Weight	PU	Item number
		[kg]	[piece]	
With cable for installation: 20 m	Control ACO Multi-Control Mono/Duo; LipuLift-P/LipuLift-PF; Multi-Flex	2.0		0178.63.88
Cable for installation: 40 m	Control ACO Multi-Control Mono/Duo; LipuLift-P/LipuLift-PF; Multi-Flex	3.4		0178.63.87
 Float switch <ul style="list-style-type: none"> ■ Housing: PRE-ELEC PP ■ Degree of protection: IP68 ■ Switch voltage: 4-40 V ■ Switch current: 1-100 mA ■ Connection cable: 10m ■ Switch inclination: 10° ■ Protection class: II 1G Ex ia IIC T6 Ga 	<ul style="list-style-type: none"> ■ For faecal and non-faecal wastewater ■ MultiControl controls as float switches ■ MultiControl controls as additional High alarm float 			0159.12.45
 Safety barrier <ul style="list-style-type: none"> ■ To separate Ex-risk and secure areas ■ Incl. housing 	<ul style="list-style-type: none"> ■ Pressure pick-off ■ Float switch with ATEX-certificate 			
		0.5		0178.63.89
 Sealing ring <ul style="list-style-type: none"> ■ As additional component for pressure line DN 80 ■ Clamping range: 88 - 93 mm 	<ul style="list-style-type: none"> ■ LipuSmart-P ■ Powerlift installation kit DN 100 ■ Fäkablock II ■ All Muli wastewater lifting plants 	0.3	1	0150.83.71
 Stop valve DN 80 <ul style="list-style-type: none"> ■ Made of cast iron ■ 8 screws and nuts ■ 1 DN 80 seal ■ Length: 180 mm 	<ul style="list-style-type: none"> ■ LipuSmart-P ■ Multi-Star MDP1/MWP1 ■ Multi-Star DDP 1/2 	19.4	1	0154.51.93
 Inlet valve DN 100 <ul style="list-style-type: none"> ■ Made out of PVC ■ Spigot Ø110 on both sides for sleeveless pipe systems made of cast iron or plastic ■ Total dimensions: 176 x 360 mm (L x H) 	<ul style="list-style-type: none"> ■ Grease separator made of polyethylene ■ Starch separator made of polyethylene ■ Upstream tank systems type 2 and 4 ■ LipuMobil – type 0.5 	5.9		0175.31.87
 Inlet valve DN 100 <ul style="list-style-type: none"> ■ Made of PVC ■ 110 mm push socket on both sides with rim sealing ring ■ Overall dimensions: 176 x 330 mm (L x H) 	<ul style="list-style-type: none"> ■ Wastewater lifting plant ■ Polyethylene grease separator ■ Polyethylene starch separator ■ Upstream tank plant <ul style="list-style-type: none"> □ Typ 2 and 4 ■ LipuMobil-P – Type 0.5 	3.1	1	0175.13.84
 Inlet valve DN 150 <ul style="list-style-type: none"> ■ Made of PVC ■ 160 mm push socket on both sides with rim sealing ring ■ Overall dimensions: 226 x 510 mm (L x H) 	<ul style="list-style-type: none"> ■ Wastewater lifting plant ■ Polyethylene grease separator ■ Polyethylene starch separator ■ Upstream tank plant <ul style="list-style-type: none"> □ Type 7 – Type 10 	7.0	1	0175.13.85

	Description	Used with	Weight [kg]	PU [piece]	Item number
	Inlet valve DN 150 <ul style="list-style-type: none"> ■ Made out of PVC ■ Spigot Ø110 on both sides for sleeveless pipe systems made of cast iron or plastic ■ Total dimensions: 226 x 420 mm (L x H) 	<ul style="list-style-type: none"> ■ Grease separator made of polyethylene ■ Starch separator made of polyethylene ■ Upstream tank systems type 7 to 10 	10.2		0175.31.88
	Inlet valve DN 200 <ul style="list-style-type: none"> ■ Made out of PVC ■ Push socket 200 mm with lip sealing ring on both sides ■ Total dimensions: 264 x 637 mm (L x H) 	<ul style="list-style-type: none"> ■ Wastewater lifting plant <ul style="list-style-type: none"> <input type="checkbox"/> Multi-Star DDP 1/2 ■ Grease separator made of polyethylene <ul style="list-style-type: none"> <input type="checkbox"/> From NS 15 	8.4	1	0170.20.83
		<ul style="list-style-type: none"> ■ Abwasserhebeanlage <ul style="list-style-type: none"> <input type="checkbox"/> Multi-Nova DDP 			
	Inlet seal DN 50ACO inlet seal DN 50; For insertion of an additional inlet; For pipe with OD 50 mm; Drilling diameter 59 mm				3013641
	Inlet seal DN 70ACO inlet seal DN 70; For insertion of an additional inlet; For pipe with OD 75mm; Drilling diameter 86 mm				3014479
	Inlet seal DN 100ACO inlet seal DN 100; For insertion of an additional inlet; For pipe with OD 110mm; Drilling diameter 125 mm				3014478
	Inlet seal DN 150ACO inlet seal DN 150; For insertion of an additional inlet; For pipe with OD 160mm; Drilling diameter 175 mm				3014477
	Inlet seal DN 200ACO inlet seal DN 200; For insertion of an additional inlet; For pipe with OD 200mm; Drilling diameter 215 mm				3014476
	Inlet seal DN 250ACO inlet seal DN 250; For insertion of an additional inlet;; For pipe with OD 250mm;; Drill diameter 265 mm				3014475
	Hand membrane pump 1 1/2" <ul style="list-style-type: none"> ■ For fixing to wall ■ Incl. hose <ul style="list-style-type: none"> <input type="checkbox"/> Clear width: 48 x 80 mm ■ Incl. hose clamp <ul style="list-style-type: none"> <input type="checkbox"/> Clear width: 50 x 70 mm <input type="checkbox"/> Width: 12 mm <input type="checkbox"/> 2 pcs required 	<ul style="list-style-type: none"> ■ Wastewater lifting plant 	14.4	1	0175.23.73
	Three way valve 1 1/2" <ul style="list-style-type: none"> ■ For hand membrane pump 	<ul style="list-style-type: none"> ■ Wastewater lifting plant 	3.3	1	0159.10.14

Description		Used with	Weight [kg]	PU [piece]	Item number
	Stop valve 1 1/2" ■ For hand membrane pump	■ Wastewater lifting plant	1.0	1	0159.10.12
	siphon		0.7		0174.02.29
			1.3		0174.02.30

You can find further accessories under → <https://www.buildingdrainage.aco/search/?q=3016812>