# 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
  - $\hfill\square$  Fastening set for buoyancy-proof anchorage
  - $\Box$  DDP 1.x:
    - Horizontal inlet sockets 1x DN100, 1x DN 150
    - 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
  - $\Box$  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
  - $\Box$  3-phase motor: 400 V, 50 Hz
  - $\Box$  Degree of protection IP 68
  - $\hfill\square$  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)





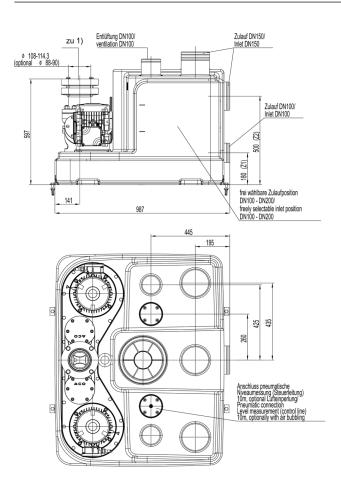
Туре	Motor	otor power Key data			Usable volume	Total volume	Weight			
	P1	P2	Power con- sumption	Voltage	Rev count	Inlet height Z1	Inlet height Z2	Top inlet		
	[kW]	[kW]	[A]	[V]	[r/min]	[1]	[1]	[1]	[I]	[kg]
Muli- Nova DDP 1.2	3.5	3	6.6	400	2900	100	275	345	430	115

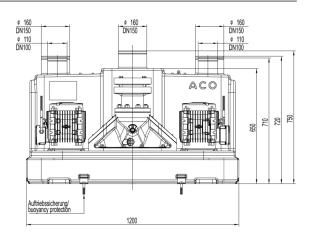
#### Item Technical Data 3016809

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## Dimensions





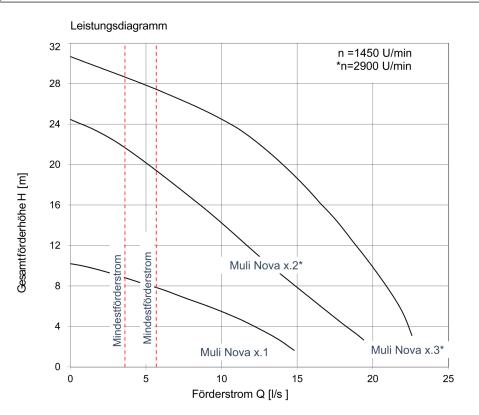
 Spezialbefestigungsstück für den elastischen Anschluss der Druckleitung DN100/ Special fastening piece for elastic connection of the DN100 pressure line

Schaltkasten (steckerfertig)/ Switch box (plug-in ready) Kabel (1,5 m lang) mit CEE-Stecker 32A/ Cable (1.5m long) with CEE-connector 32A

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#### Performance parameters



Туре	Deliv- ery head Delivery flow Q with overall delivery head H								pera	a tem- ature					
		2 m	4 m	6 m	8 m	10 m	12 m	14 m	16 m	18 m	20 m	22 m	24 m	Nor- mal	Maxi- mum
	[m]	[l/s]	[l/s]	[l/s]	[ <b>I</b> /s]	[° <b>C</b> ]	[° <b>C</b> ]								
Muli- Nova DDP 1.2	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	ltem number
	<ul> <li>For pumps up to 5,5 kW</li> <li>Plug and use with 1.5 m mains cable</li> <li>Operating voltage: 400 V</li> </ul>		[kg]	[piece]	
	<ul> <li>Frequency: 50/60 Hz</li> <li>Control voltage: 230 V/AC</li> <li>Current consumption when idling: max 10 VA</li> <li>Temperature range: -20 to +60 ° C</li> <li>IP 54 protection</li> </ul>		5.4		
MODBUS	Switching device, ACO Multi Con- trol Duo Professional without Dy- namic pressure bellWith Modbus RTU functionality for connection to the build- ing management system; CEE 16 plug with phase-changing switch; Convertible to CEE 32 with item no. 0150.79.75 (5G4 with CEE 32 plug) ; 20 m pneumatic control cable 8 x 6 mm	Muli-Nova DDP; □ Muli-Nova x.1 / x.2			3014981
MODBUS	Switching device, ACO Multi Con- trol Duo Professional without Dy- namic pressure bellWith Modbus RTU functionality for connection to the build- ing management system; CEE 32 plug with phase-changing switch; 20 m pneumatic control cable 8 x 6 mm	Muli-Nova DDP; □ Muli-Nova x.3			3017236
	Switching device, ACO Multi Con- trol Duo without Dynamic pres- sure bellCEE 16 plug with phase-changing switch; Convertible to CEE 32 with item no. 0150.79.75 (5G4 with CEE 32 plug) ; Without control line	Muli-Max; Duo ; Powerlift–P; Muli-Flex; Muli-Nova DDP; Muli-Nova x.1 / x.2			0178.63.94
	Switching device, ACO Multi Con- trol Duo without Dynamic pres- sure bellCEE 32 plug with phase-changing switch; Without control line	Muli-Nova DDP; □ Muli-Nova x.3			3017237



	Description	Used with	Weight	ltem number	
			[kg]	[piece]	
	<ul> <li>Message system with GSM module</li> <li>Parameter via app (Android &amp; iOs)</li> <li>Mains-independent alarm via 12V lead-gel battery</li> <li>Optical and acoustic alarm message</li> <li>Freely configurable inputs <ul> <li>6 digital inputs with LED status display</li> <li>1 analogue</li> </ul> </li> <li>1 alarm output 12 V</li> <li>Alarm forwarding via SMS to mobile phones</li> <li>For mounting outside the hazardous area</li> <li>Housing: 192 x 150(with cable gland) x 100 mm (WxHxD)</li> <li>Protective doctor: IP54</li> <li>Operating voltage: 230 V/AC 50/60 Hz</li> </ul>	<ul> <li>All grease separators</li> <li>Grease layer thickness measuring device</li> <li>Pre-tank plants</li> <li>Technical processing systems</li> <li>Quatrix-K backflow preventer type 3F</li> <li>Sinkamat-K (underfloor) duo</li> <li>Muli lifting units</li> <li>Pumping stations</li> <li>Installation sets</li> </ul>	2.0	1	0150.80.14
$\sim$	<ul> <li>Connection cable antenna GSM</li> <li>Length incl. connections: approx. 15 m</li> <li>Cable type: RG58</li> <li>Connections: 1 x SMA plug (SMA/M) and 1 x SMA socket (SMA/F)</li> <li>Only one extension cable may be used per GSM module</li> <li>Usable in temperature range: -20°C to 85°C</li> </ul>	GSM - Modul			0150.83.86
	<ul> <li>Signalling unit</li> <li>Self-charging</li> <li>With floating contact</li> <li>Visual and acoustic</li> <li>Without contact transmitter</li> <li>For mounting outside the potentially explosive atmosphere</li> <li>Dimensions: 175 x 125 x 75 mm W x H x D</li> <li>Protection type: IP65</li> <li>Operating voltage: 230 V/AC 50/60 Hz</li> <li>Ready to plug in with cable: 2 m</li> </ul>				
		Faecal matter backflow automatic stop Qua- trix-K type 3F; All Muli wastewater lifting plants; Upstream tank plant mono/duo; Muli-Max; Sinkamat –K/-KD; Sinkamat-Z; Sinkamat-Z (underfloor); □ Duo ; LipuLift-P	1.4	1	0150.26.73

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Description	Used with	Weight	PU [piece]	ltem number
<ul> <li>Connection and flood module set</li> <li>To report a leak caused for example by a pipe bursting</li> <li>For electrically conducting liquids</li> <li>With volt free contact</li> <li>Visible and audible alarms (approx. 80 dB)</li> <li>Dimensions (width x height x depth): 160 x 120 x 75 mm</li> <li>Protection level: IP 65</li> <li>Operating voltage: 230 V/AC 50/60 Hz</li> <li>Plug and use: 1.4 m</li> <li>Overflow indicator with 10 m cable</li> </ul>	<ul> <li>Triplex-K backflow stops</li> <li>DN 100 – DN 150</li> <li>Quatrix-K backflow stops</li> <li>All wastewater lifting plants</li> <li>All separators</li> </ul>	<b>[kg]</b> 1.1	1	0150.78.97
<ul> <li>Signal horn</li> <li>Operating voltage: 12V DC</li> <li>Power consumption: 30 mA</li> <li>62 x 62 x 85 mm (LxWxD)</li> <li>Degree of protection: IP66</li> <li>Noise level: 95 dB(A)</li> </ul>	<ul><li>Signalling unit</li><li>Signalling unit with GSM module</li></ul>	0.2		0150.58.14
Signal horn 230V AC Power consumption: 30mA Ø62x85 mm (L/B x T) Protection: IP66 95 dB(A)	<ul> <li>Signalling unit with voltage-free fault reporting</li> <li>LipuSmart-P</li> <li>Muli-Max with signalling unit</li> <li>LipuLift-P</li> </ul>	0.3	1	0178.61.94



## **Flashing light**

230V; Power consumption: 70 mA	Signalling unit with voltage-free fault report- ing; LipuSmart-P; Muli-Max with signalling unit; LipuLift-P		1	0178.62.08
				0150.76.25
<ul> <li>Air bubble injection</li> <li>To increase operational safety (where floating surfaces are generated e.g. grease separator)</li> <li>For pneumatic level switching</li> <li>Mini compressor <ul> <li>Connection: 230 V</li> <li>Plug and use</li> </ul> </li> <li>With T-screw-in connection</li> <li>With backflow valve</li> </ul>				
	Muli-Max; Powerlift–P; Muli-Flex	0.6		0150.25.45
Pressure pick-up ■ 4–20 mA ■ For secure switching cable lengths >				

For secure switching cable lengths > 12 m ■ 0–200 mbar

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For more information please visit: https://www.buildingdrainage.aco/products **Note:** The max. temperature may only be reached for a short time.



	Description	Used with	Weight	PU	ltem number
			[kg]	[piece]	
	With cable for installation: 20 m	Control ACO Multi-Control Mono/Duo; Lip- uLift-P/LipuLift-PF; Muli-Flex	2.0		0178.63.88
	Cable for installation: 40 m	Control ACO Multi-Control Mono/Duo; Lip- uLift-P/LipuLift-PF; Muli-Flex	3.4		0178.63.87
P	<ul> <li>Float switch</li> <li>Housing: PRE-ELEC PP</li> <li>Degree of protection: IP68</li> <li>Switch voltage: 4-40 V</li> <li>Switch current: 1-100 mA</li> <li>Connection cable: 10m</li> <li>Switch inclination: 10°</li> <li>Protection class: II 1G Ex ia IIC T6 Ga</li> </ul>	<ul> <li>For faecal and non-faecal wastewater</li> <li>MultiControl controls as float switches</li> <li>MultiControl controls as additional High alarm float</li> </ul>			0159.12.45
	<ul> <li>Safety barrier</li> <li>To separate Ex-risk and secure areas</li> <li>Incl. housing</li> </ul>	<ul><li>Pressure pick-off</li><li>Float switch with ATEX-certificate</li></ul>			
			0.5		0178.63.89
0	<ul> <li>Sealing ring</li> <li>As additional component for pressure line DN 80</li> <li>Clamping range: 88 - 93 mm</li> </ul>	<ul> <li>LipuSmart-P</li> <li>Powerlift installation kit DN 100</li> <li>Fäkablock II</li> <li>All Muli wastewater lifting plants</li> </ul>	0.3	1	0150.83.71
	<ul> <li>Stop valve DN 80</li> <li>Made of cast iron</li> <li>8 screws and nuts</li> <li>1 DN 80 seal</li> <li>Length: 180 mm</li> </ul>	<ul> <li>LipuSmart-P</li> <li>Muli-Star MDP1/MWP1</li> <li>Muli-Star DDP 1/2</li> </ul>	19.4	1	0154.51.93
4	<ul> <li>Inlet valve DN 100</li> <li>Made out of PVC</li> <li>Spigot Ø110 on both sides for sleeveless pipe systems made of cast iron or plastic</li> <li>Total dimensions: 176 x 360 mm (L x H)</li> </ul>	<ul> <li>Grease separator made of polyethylene</li> <li>Starch separator made of polyethylene</li> <li>Upstream tank systems type 2 and 4</li> <li>LipuMobil – type 0.5</li> </ul>	5.9		0175.31.87
	<ul> <li>Inlet valve DN 100</li> <li>Made of PVC</li> <li>110 mm push socket on both sides with rim sealing ring</li> <li>Overall dimensions: 176 x 330 mm (L x H)</li> </ul>	<ul> <li>Wastewater lifting plant</li> <li>Polyethylene grease separator</li> <li>Polyethylene starch separator</li> <li>Upstream tank plant <ul> <li>Typ 2 and 4</li> </ul> </li> <li>LipuMobil-P – Type 0.5</li> </ul>	3.1	1	0175.13.84
	<ul> <li>Inlet valve DN 150</li> <li>Made of PVC</li> <li>160 mm push socket on both sides with rim sealing ring</li> <li>Overall dimensions: 226 x 510 mm (L x H)</li> </ul>	<ul> <li>Wastewater lifting plant</li> <li>Polyethylene grease separator</li> <li>Polyethylene starch separator</li> <li>Upstream tank plant</li> <li>Type 7 – Type 10</li> </ul>	7.0	1	0175.13.85





	Description	Used with	Weight	PU	ltem number
			[kg]	[piece]	
	<ul> <li>Inlet valve DN 150</li> <li>Made out of PVC</li> <li>Spigot Ø110 on both sides for sleeveless pipe systems made of cast iron or plastic</li> <li>Total dimensions: 226 x 420 mm (L x H)</li> </ul>	<ul> <li>Grease separator made of polyethylene</li> <li>Starch separator made of polyethylene</li> <li>Upstream tank systems type 7 to 10</li> </ul>	10.2		0175.31.88
	<ul> <li>Inlet valve DN 200</li> <li>Made out of PVC</li> <li>Push socket 200 mm with lip sealing ring on both sides</li> <li>Total dimensions: 264 x 637 mm (L x H)</li> </ul>	<ul> <li>Wastewater lifting plant</li> <li>Muli-Star DDP 1/2</li> <li>Grease separator made of polyethylene</li> <li>From NS 15</li> </ul>	8.4	1	0170.20.83
0		<ul> <li>Abwasserhebeanlage</li> <li>Muli-Nova DDP</li> </ul>			
	<b>Inlet seal DN 50</b> ACO inlet seal DN 50; For insertion of an additional inlet; For pipe with OD 50 mm; Drilling diameter 59 mm				3013641
	<b>Inlet seal DN 70</b> ACO inlet seal DN 70; For insertion of an additional inlet; For pipe with OD 75mm; Drilling diameter 86 mm				3014479
	<b>Inlet seal DN 100</b> ACO inlet seal DN 100; For insertion of an additional inlet; For pipe with OD 110mm; Drilling diameter 125 mm				3014478
	<b>Inlet seal DN 150</b> ACO inlet seal DN 150; For insertion of an additional inlet; For pipe with OD 160mm; Drilling diameter 175 mm				3014477
	<b>Inlet seal DN 200</b> ACO inlet seal DN 200; For insertion of an additional inlet; For pipe with OD 200mm; Drilling diameter 215 mm				3014476
	<b>Inlet seal DN 250</b> ACO inlet seal DN 250; For insertion of an additional inlet,; For pipe with OD 250mm,; Drill diameter 265 mm				3014475
	<ul> <li>Hand membrane pump 1½"</li> <li>For fixing to wall</li> <li>Incl. hose <ul> <li>Clear width: 48 x 80 mm</li> </ul> </li> <li>Incl, hose clamp <ul> <li>Clear width: 50 x 70 mm</li> <li>Width: 12 mm</li> <li>2 pces required</li> </ul> </li> </ul>	Wastewater lifting plant	14.4	1	0175.23.73
	Three way valve 1½" ■ For hand membrane pump	Wastewater lifting plant	3.3	1	0159.10.14

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	Description	Used with	Weight	PU	ltem number
			[kg]	[piece]	
	Stop valve 1½" ■ For hand membrane pump	Wastewater lifting plant	1.0	1	0159.10.12
J	siphon				
			0.7		0174.02.29
			1.3		0174.02.30

You can find further accessories under  $\rightarrow$  https://www.buildingdrainage.aco/search/?q=3016809

