# 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 (430/550l)
- Easy to maintain backflow preventer (patented)
- Scope
  - ☐ Multi-dwelling units
  - ☐ Office buildings
  - ☐ Industrial buildings
  - ☐ Behind separators up to NS22,5 in connection with air bubble injection
  - ☐ Salt-laden backwash water from ion exchanger softening plants
  - □ Wastewater containing chlorine from indoor swimming pools (0.3 – 1.0 mg/l chlorine content)
- 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 DN 150
    - Vertical inlet sockets: 1x DN100, 3x DN150, 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
- 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)



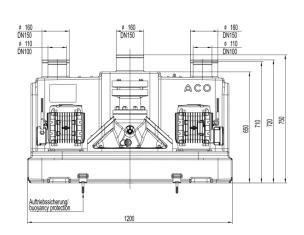


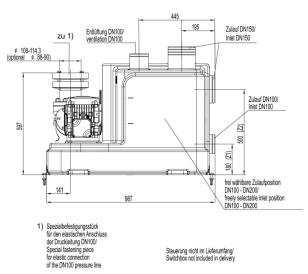
#### **Item Technical Data 3016813**

Туре		power		Key data				volume		Total volume	Weight
	P1	P2	Pow- er con- sumption	Voltage	Rev count	Inlet height Z1	Inlet height Z2	Inlet height Z3	Top inlet		
	[kW]	[kW]	[A]	[V]	[r/min]	[1]	[1]	[1]	[1]	[1]	[kg]
Muli- Nova DDP 2.3	6.3	5.5	11.2	400	2900	120	260	400	455	550	135

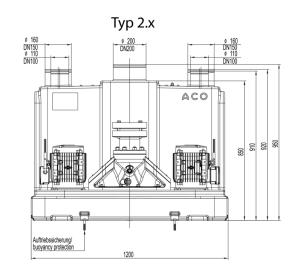
#### **Dimensions**

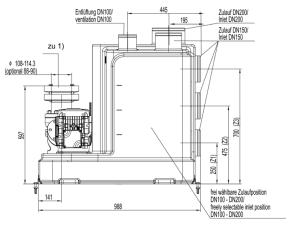
Typ 1.x



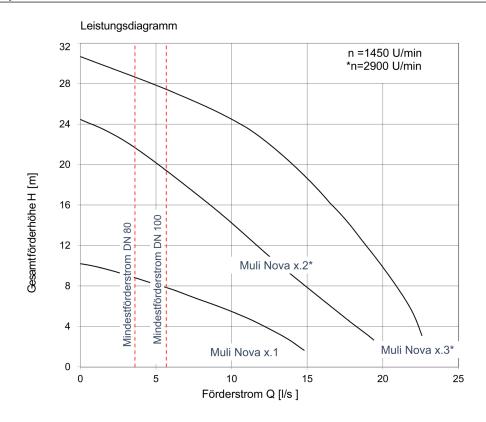


Steuerung nicht im Lieferumfang/ Switchbox not included in delivery





#### **Performance parameters**



Туре	Deliv- ery head				Delive	ery flow	Q with o	overall d	elivery l	nead H					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]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[°C]	[°C]
Muli- Nova DDP 2.3	2 – 31	22.3	22.1	21.9	21.0	19.9	19.0	17.8	16.4	15.2	13.9	12.2	10.8	40	60

#### **Accessories**

	Description	Used with	Weight	PU	ltem number
			[kg]	[piece]	
	<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> <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 Control Duo Professional without Dynamic pressure bellWith Modbus RTU functionality for connection to the building management system; CEE 16 plug with phase-changing switch;  Convertible to CEE 32 with item no. 0150.79.75 (5G4 with CEE 32 plug); Without control cable; Mains-independent alarm via 9V rechargeable battery (85dBA, 5-6h)	Muli-Nova DDP;  ☐ Muli-Nova x.1 / x.2  ; Muli-Max;  ☐ Duo  ; Powerlift–P/Powerlift-P/F-H; Muli-Flex			3014981
MODBUS	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; Without control cable; Mains-independent alarm via 9V rechargeable battery (85dBA, 5-6h)	Muli-Nova DDP; □ Muli-Nova x.3			3017236
	Switching device, ACO Multi Control Duo Advanced without Dynamic pressure 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 / Powerlift-P/F-H; Muli-Flex; Muli-Nova DDP; □ Muli-Nova x.1 / x.2			0178.63.94
	Switching device, ACO Multi Control Duo Advanced without Dynamic pressure bellCEE 32 plug with phase-changing switch; Without control line	Muli-Nova DDP; □ Muli-Nova x.3			3017237



Item number: 3016813



### Signalling unit

- 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 хD
- 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; Powerlift-P / Powerlift-P/F-H; Sinkamat –K/-KD; Sinkamat-Z; Sinkamat-Z (underfloor);	1.4	1	0150.26.73
; LipuLift-P			



tem	number:	3016813

	Description	Used with	Weight	PU	ltem number
			[kg]	[piece]	
00	<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>	1.1	1	0150.78.97
	Signal horn  ■ 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><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>Pump stations with ACO MultiControl switching device</li> <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: 40 mA; IP66	Pump stations with ACO MultiControl switch- ing device; Signalling unit with voltage-free fault reporting; LipuSmart-P; Muli-Max with	1.0	1	3028082
	signalling unit; LipuLift-P	•••••		3031321
 				3031321
Mounting for level measuring  ■ For the replacement of the pilot tube  □ e.g. with pressure transducer and float switch  ■ Replaces the existing pilot tube	■ Wastewater lifting station  □ Muli-Nova			3018265



#### Air bubble injection

- To increase operational safety (where floating surfaces are generated e.g. grease separator)
- For pneumatic level switching
- Mini compressor
  - $\hfill\Box$  Connection: 230 V
- □ Plug and use
- With T-screw-in connection
- With backflow valve

Muli-Max; Powerlift–P; Muli-Flex 0.6 0150.25.45

Version: 27.08.2025 Page 6 of 9 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]	
( <u>)</u>	pressure sensor ■ 4–20 mA				
	<ul><li>■ For secure switching cable lengths &gt; 12 m</li><li>■ 0–200 mbar</li></ul>				
	With cable for installation: 20 m	Control ACO Multi-Control Mono/Duo; Lip-uLift-P/LipuLift-PF; Powerlift-P/F-H; Muli-Flex	2.0		0178.63.88
	Cable for installation: 40 m	Control ACO Multi-Control Mono/Duo; Lip-uLift-P/LipuLift-PF; Powerlift-P/F-H; Muli-Flex	3.4		0178.63.87
P	Float switch 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> <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
	Safety barrier ■ To separate Ex-risk and secure areas ■ Incl. housing	<ul><li>Pressure pick-off</li><li>Float switch with ATEX-certificate</li></ul>			
			0.5		0178.63.89
0	Sealing ring  ■ As additional component for pressure line DN 80  ■ Clamping range: 83 - 93 mm	<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
	Stop valve DN 80  Made of cast iron  8 screws and nuts  1 DN 80 seal  Length: 180 mm	<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
•	Inlet valve DN 100  ■ 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> <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</li> <li>Typ 2 and 4</li> <li>LipuMobil-P – Type 0.5</li> </ul>	3.1	1	0175.13.84



containing faeces lifting station for free-standing installation		lte	em numl	oer: 30168
Description	Used with	Weight	PU	ltem number
		[kg]	[piece]	
<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	0175.13.8
Inlet valve DN 150  ■ 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> <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		0175.31.8
<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	0170.20.8
	■ Wastewater lifting plant  □ Muli-Nova DDP			
<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
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



■ Wastewater lifting station

□ Muli-Nova

Circular hole saw DN100	
(110mm)Diameter: 125mm; For inlet seal DN100 (110mm);	3017098
□ Item no. 3014478	



Inlet seal DN 200ACO inlet seal DN 200; For insertion of an additional inlet; For

pipe with OD 200mm; Drilling diameter 215

**Note:** The max. temperature may only be reached for a short time.



3014476

Description	Used with	Weight	PU	ltem number
		[kg]	[piece]	
Circular hole saw DN150 (160mm) Diameter: 175mm; For inlet seal DN150 (160mm);				3017099
Hand membrane pump 1½"  ■ For fixing to wall  ■ Incl. hose  □ Clear width: 48 x 80 mm  ■ Incl, hose clamp  □ Clear width: 50 x 70 mm  □ Width: 12 mm  □ 2 pces required	■ 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
Stop valve 1½" ■ For hand membrane pump	■ Wastewater lifting plant	1.0	1	0159.10.12

You can find further accessories under → https://www.buildingdrainage.aco/search/?q=3016813

