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 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)



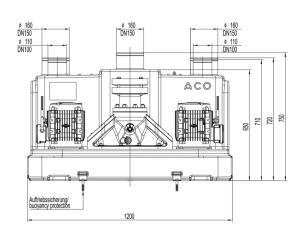


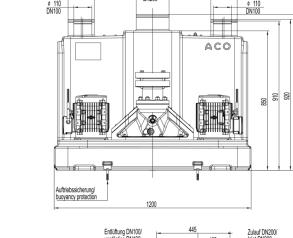
Item Technical Data 3016810

Туре	Motor	power		Key data			Usable volume	e	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]	[1]	[kg]
Muli- Nova DDP 1.3	6.3	5.5	11.2	400	2900	100	275	345	430	130

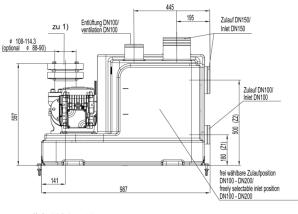
Dimensions

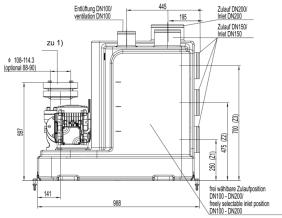
Typ 1.x





Typ 2.x

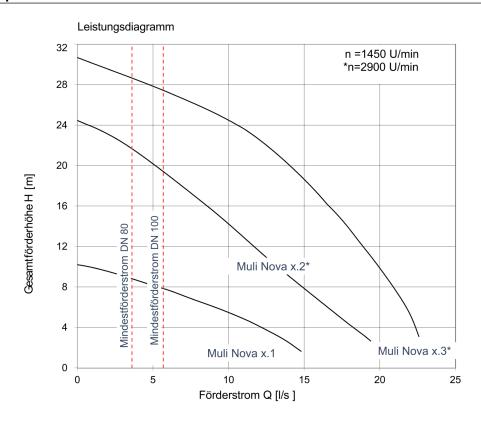




 Spezialbefestigungsstück für den elastischen Anschluss der Druckleitung DN100/ Special fastening piece for elastic connection of the DN100 pressure line

Steuerung nicht im Lieferumfang Switchhox not included in deliver 92

Performance parameters



Туре	Deliv- ery head	Delivery flow Q with overall delivery head H								Media tem- perature					
		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 1.3	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]	
	 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		
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: 3016810



- 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); □ Duo ; LipuLift-P	1.4	1	0150.26.73



Item number: 3016810

	Description	Used with	Weight	PU	Item number
			[kg]	[piece]	
00	 Connection and flood module set 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 	 Triplex-K backflow stops DN 100 – DN 150 Quatrix-K backflow stops All wastewater lifting plants All separators 	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)	Signalling unitSignalling unit with GSM module	0.2		0150.58.14
	Signal horn ■ 230V AC ■ Power consumption: 30mA ■ Ø62x85 mm (L/B x T) ■ Protection: IP66 ■ 95 dB(A)	 Pump stations with ACO MultiControl switching device Signalling unit with voltage-free fault reporting LipuSmart-P Muli-Max with signalling unit LipuLift-P 	0.3	1	0178.61.94



Flashing light

230V; Power consumption: 40 mA; IP66	Pump stations with ACO MultiControl switching device; Signalling unit with voltage-free fault reporting; LipuSmart-P; Muli-Max with signalling unit; LipuLift-P	3028082
	signalling unit, cipuciter	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

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Item number: 3016810



Float switch

■ Housing: PRE-ELEC PP

Cable for installation: 40 m

■ Degree of protection: IP68

With cable for installation: 20 m

- 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



■ For faecal and non-faecal wastewater

■ MultiControl controls as float switches

■ MultiControl controls as additional High

uLift-P/LipuLift-PF; Powerlift-P/F-H; Muli-Flex Control ACO Multi-Control Mono/Duo; Lip-

uLift-P/LipuLift-PF; Powerlift-P/F-H; Muli-Flex



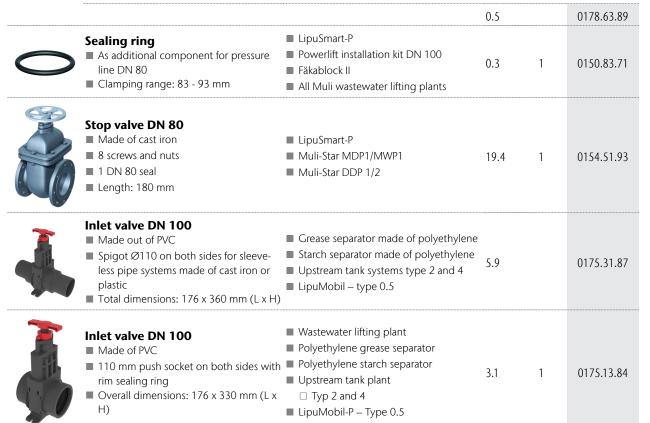
Safety barrier

- To separate Ex-risk and secure areas
- Incl. housing

■ Pressure pick-off

alarm float

■ Float switch with ATEX-certificate



0178.63.88

0178.63.87

0159.12.45

	Description	Used with	Weight	PU	ltem number
			[kg]	[piece]	
	 Inlet valve DN 150 ■ Made of PVC ■ 160 mm push socket on both sides with rim sealing ring ■ Overall dimensions: 226 x 510 mm (L x H) 	 Wastewater lifting plant Polyethylene grease separator Polyethylene starch separator Upstream tank plant Type 7 – Type 10 	7.0	1	0175.13.85
1	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)	 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 ■ Made out of PVC ■ Push socket 200 mm with lip sealing ring on both sides ■ Total dimensions: 264 x 637 mm (L x H) 	 Wastewater lifting plant Muli-Star DDP 1/2 Grease separator made of polyethylene From NS 15 	8.4	1	0170.20.83



lacktriangle Wastewater lifting plant

☐ Muli-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



■ Wastewater lifting station

□ Muli-Nova

Circular hole saw DN100	
(110mm)Diameter: 125mm; For inlet seal	3017098
DN100 (110mm);	3017090
☐ Item no. 3014478	

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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=3016810

