# Muli-Star DDP

## Product information for the product group

# ACO Product benefits

- Low weight
- Different inlet heights
- CFD-optimised impeller
- High chemical resistance of all components
- Suitable for use downstream of grease separators
- Fast installation
- Ready to connect
- High usable volume up to 185 l
- Adapted to door dimension: 780 mm
- Areas of us
  - Downstream of grease separators up to NS 15 – in conjunction with air bubble injection
  - $\hfill\square$  Multiple dwelling units
  - $\hfill\Box$  Office buildings, hotels
  - ☐ Hospitals
- Tank made of polyethylene
  - ☐ Bottom outlet R 1"
  - ☐ Inspection opening for easy maintenance, diameter: 130 mm (DDP1), 130 mm and 250 mm (DDP2)
  - ☐ Fixing set for buoyancy-proof anchorage
  - □ Connection for manual diaphragm pump DN 50
  - ☐ 2 horizontal inlet sockets, DN 150
  - ☐ 2 horizontal inlet sockets, DN 150/DN 100
  - ☐ 1 vertical inlet sockets DN 200/DN 150
  - ☐ 1 vertical inlet sockets DN 100/DN 70 1 ventilation socket
- Delivery line connection
  - ☐ Special backflow valve with ball in the housing
  - ☐ Y-branch pipe with vent and immobilising
  - ☐ Special adapter DN 80 for elastic connection of the delivery line with 108 114.3 mm outside pipe diameter (optional 88 93 mm)
  - ☐ Connecting flange for stop valve DN 80 PN 16

- 2 pump units
  - ☐ 3-phase motor: 400 V, 50 Hz
  - ☐ Degree of protection IP 68
- ☐ Integrated permanent motor monitor-ing
- ☐ Blockage-free free flow impeller
- □ 10 m connection cable
- Level switching
  - ☐ Pneumatic level switching with 10 m control cable
  - ☐ Optionally with air bubble injection (accessory)
- Control
  - ☐ Degree of protection IP 54
  - □ 1.5 m cable and CEE plug (16A) DDP x.1
  - □ 1.5 m cable and CEE plug (32A) DDP x.2
- ☐ Isolated group alarm and operation signal
- Tested to EN 12050-1

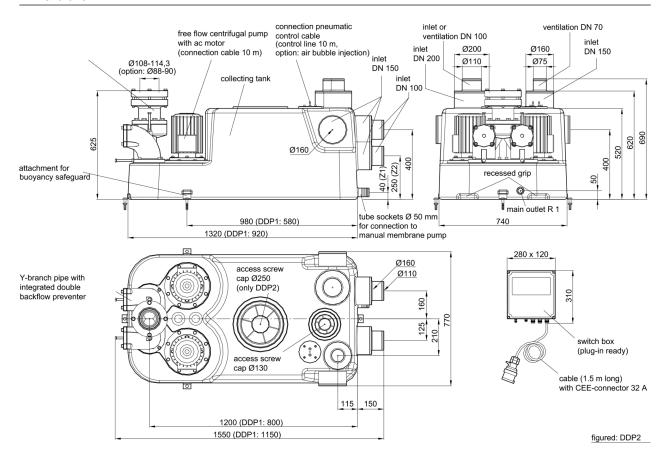


Item number: 1202.00.04

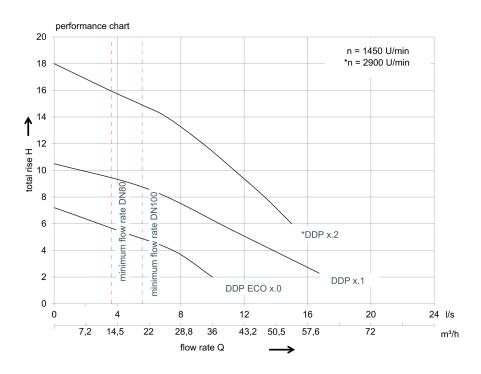
#### Item Technical Data 1202.00.04

Туре	Motor power		Key data		Parti- cal size	_	sable volum		Total volume	Weight	
	P1	P2	Pow- er con- sumption	Voltage	Rev count		Inlet height Z1	Inlet height Z2	Top inlet		
	[kW]	[kW]	[A]	[V]	[r/min]	[mm]	[1]	[1]	[1]	[1]	[kg]
Muli- Star DDP 2.1	1.83	1.5	5	400	1400	65	95	185	185	300	107

#### **Dimensions**



### **Performance parameters**



Туре	Delivery head	Delivery flow Q with overall delivery head H				Media temperature		
		4 m	6 m	8 m	10 m	Normal	Maximum	
	[m]	[m] [l/s]	[l/s]	[l/s] [l/s]	[l/s]	[°C]	[° <b>C</b> ]	
Muli-Star DDP 2.1	4 – 9.5	14.44	11.0	7.5	1.5	40	65	



#### **Accessories**

Description	Used with	Weight	PU	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 leadgel 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>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
<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
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 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; Powerlift-P / Powerlift-P/F-H; Sinkamat – K/-KD; Sinkamat-Z; Sinkamat-Z	1.4	1	0150.26.73



Item number: 1202.00.04

(underfloor);□ Duo; LipuLift-P

Item	number:	1202.00.04	

Description	Used with	Weight	PU	ltem number
		[kg]	[piece]	
<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 switching device; Signalling unit with voltage-free fault reporting; LipuSmart-P; Muli-Max with signalling unit; LipuLift-P	1.0	1	3028082
				3031321
Air bubble injection ■ For retro-fitting on Muli-Mini and Muli-Star DDP wastewater lifting plants ■ With compressor and connectors ■ To increase operational safety ■ To deal with generation of floating layers (wastewater containing grease)	■ Muli-Star DDP ■ Muli-Mini	1.9		0154.81.27
Stop valve DN 80  Made of cast iron 8 screws and nuts 1 DN 80 seal Length: 180 mm	■ LipuSmart-P ■ Muli-Star MDP1/MWP1 ■ Muli-Star DDP 1/2	19.4	1	0154.51.93

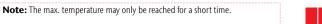
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For more information please visit: https://www.buildingdrainage.aco/products **Note:** The max. temperature may only be reached for a short time.



	Description	Used with	Weight	PU	ltem number
			[kg]	[piece]	
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
•	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
4	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		0175.31.88
	<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
•	<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
	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





Description	Used with	Weight		ltem number
		[kg]	[piece]	
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=1202.00.04

