

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 use

- ☐ Downstream of grease separators up to NS 15 – in conjunction with air bubble injection
- ☐ Multiple dwelling units
- ☐ 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 screw
- ☐ 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 monitoring
- ☐ 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

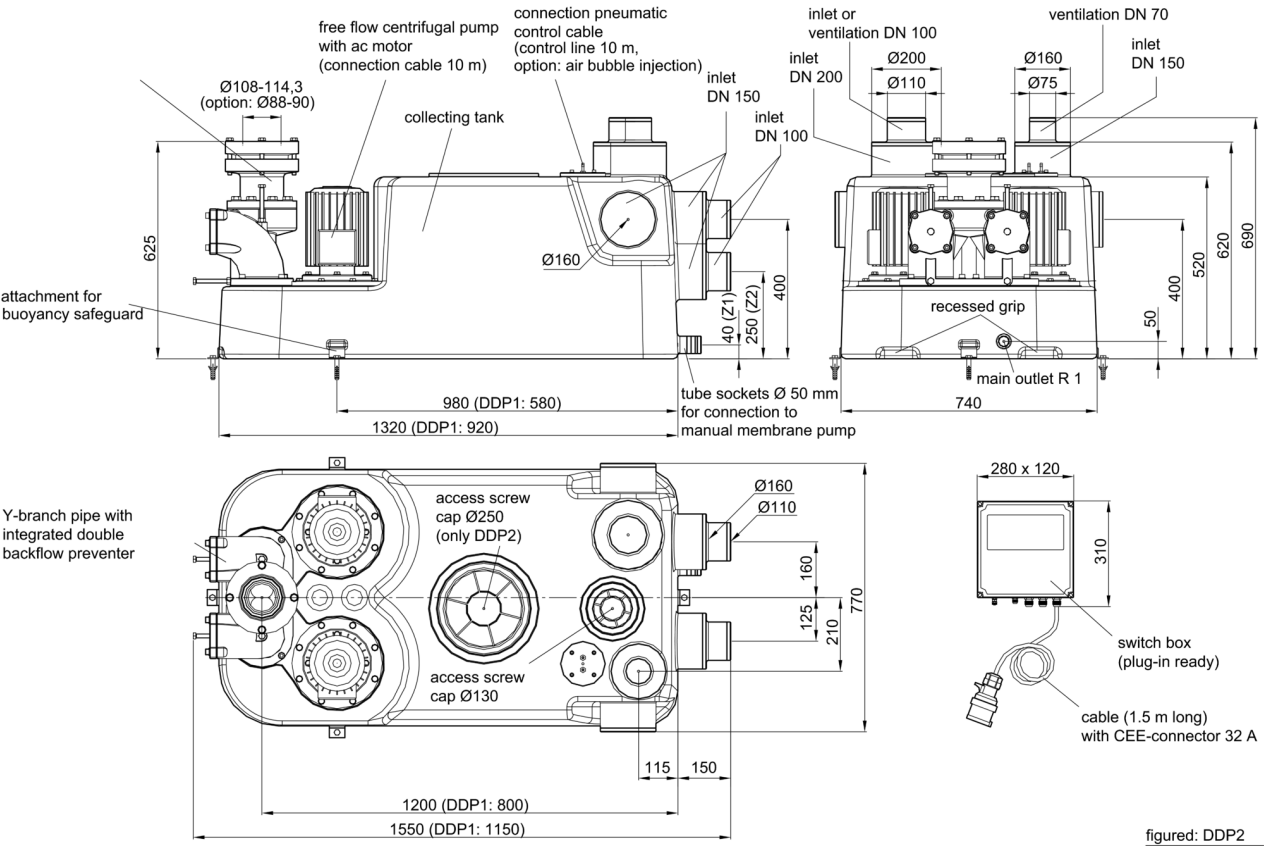
■ Tested to EN 12050-1



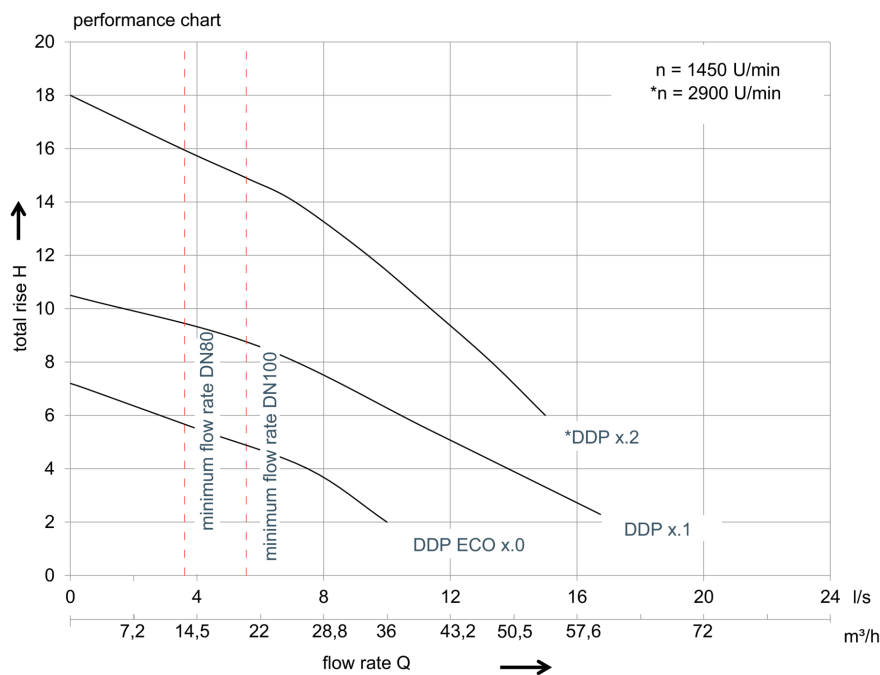
Item Technical Data 1202.00.05

Type	Motor power		Key data			Parti- cal size	Usable volume			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]	[I]	[I]	[I]	[I]	[kg]
Muli- Star DDP 2.2	3.45	3	10	400	2800	65	95	185	185	300	130

Dimensions



Performance parameters



Type	Deliv- ery head	Delivery flow Q with overall delivery head H						Media temperature	
		6 m	8 m	10 m	12 m	14 m	16 m	Normal	Maximum
		[m] [l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[l/s]	[°C]	[°C]
Muli-Star DDP 2.2	6 – 16	15.0	13.3	11.38	9.4	7.1	3.51	40	65

Accessories

Description	Used with	Weight	PU	Item number
		[kg]	[piece]	
Message system with GSM module ■ Parameter via app (Android & iOS) ■ Mains-independent alarm via 12V lead-gel battery ■ Optical and acoustic alarm message ■ Freely configurable inputs ☐ 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 	■ 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
Connection cable antenna GSM ■ 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
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 (underfloor); ☐ Duo ; LipuLift-P	1.4	1	0150.26.73

	Description	Used with	Weight	PU	Item number
			[kg]	[piece]	
	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 unit ■ Signalling 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 ■ Multi-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; Multi-Max with signalling unit; LipuLift-P	1.0	1	3028082
					3031321
	Air bubble injection				
	■ For retro-fitting on Multi-Mini and Multi-Star DDP wastewater lifting plants ■ With compressor and connectors ■ To increase operational safety ■ To deal with generation of floating layers (wastewater containing grease)	■ Multi-Star DDP ■ Multi-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 ■ Multi-Star MDP1/MWP1 ■ Multi-Star DDP 1/2	19.4	1	0154.51.93

	Description	Used with	Weight	PU	Item number
			[kg]	[piece]	
	Sealing ring ■ As additional component for pressure line DN 80 ■ Clamping range: 83 - 93 mm	■ LipuSmart-P ■ Powerlift installation kit DN 100 ■ Fäkablock II ■ All Muli wastewater lifting plants	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)	■ 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 ■ Made of PVC ■ 110 mm push socket on both sides with rim sealing ring ■ Overall dimensions: 176 x 330 mm (L x H)	■ Wastewater lifting plant ■ Polyethylene grease separator ■ Polyethylene starch separator ■ Upstream tank plant □ Typ 2 and 4 ■ LipuMobil-P – Type 0.5	3.1	1	0175.13.84
	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 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
	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
	Hand membrane pump 1 1/2" ■ 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 pcs required	■ Wastewater lifting plant	14.4	1	0175.23.73
	Three way valve 1 1/2" ■ For hand membrane pump	■ 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

You can find further accessories under → <https://www.buildingdrainage.aco/search/?q=1202.00.05>