

LipuSmart-P-OA Extension stage 3

Product information for the product group

ACO Product benefits

- Integrated backflow protection
- Only one vent stack necessary
 - For the LipuSmart-P NS 2, ACO recommends the on-site installation of 2 ventilation lines
- Compact installation dimensions: The pump technology can be flexibly installed on 3 sides
- Innovative overall system control via integration in the building control technology
- 4in1 – complete solution
- Optional Modbus connection
- Structural stability of the container stability verification according to German Standard DIN 19901

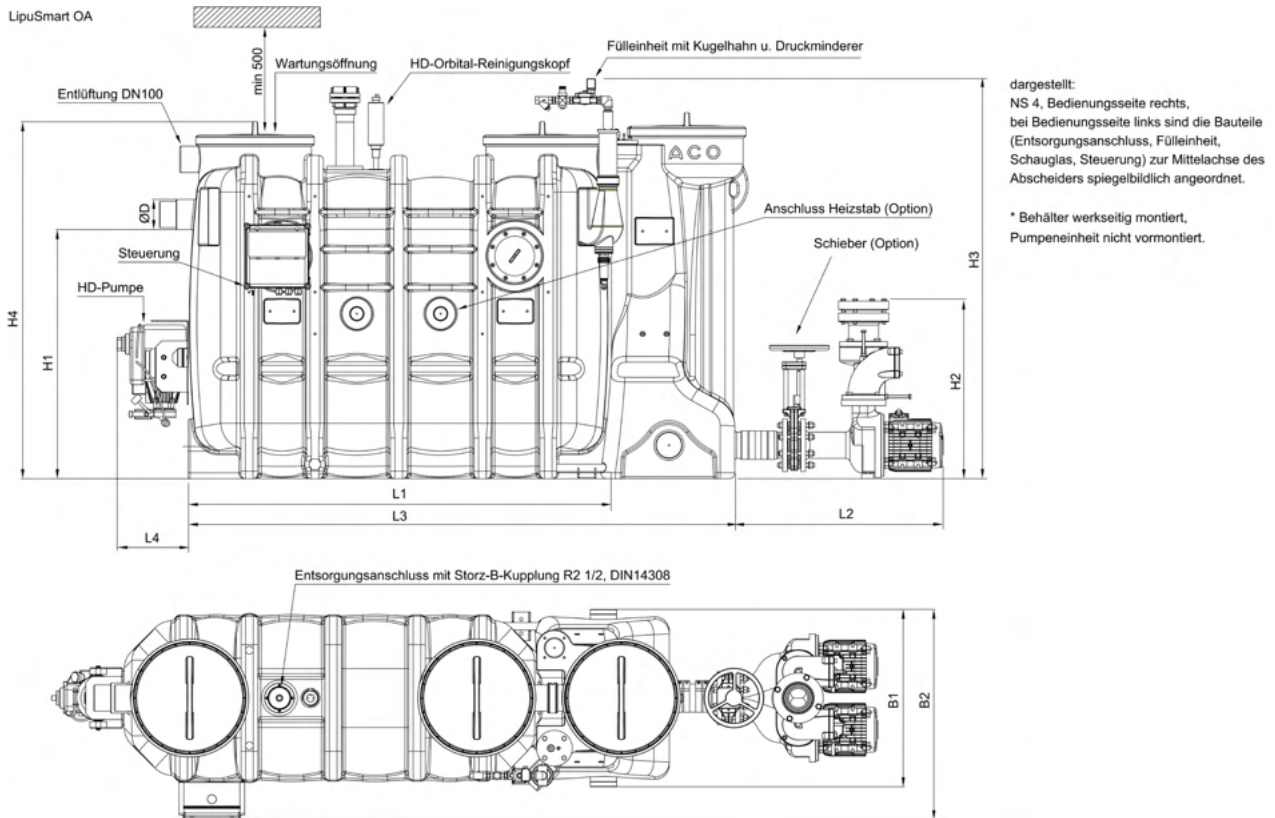
- Program-controlled, odour-free disposal and cleaning by means of direct suction and hydromechanical internal cleaning
- Disposal connection DN 65, mating flange with Storz coupling 75B and blind connector 2½"
- Fill unit with solenoid valve
- Bluetooth interface (LipuSmart App/Android)



Item Technical Data 3553.76.42

| Nominal size | Nominal width | Contents | | | Key data | | | Weight | | Operation side | |
|--------------|---------------|-------------|--------------|---------|-----------------|------|-----|---------------|-------|----------------|------------|
| | | Sludge trap | Grease store | Overall | Type | P2 | To | Delivery head | Empty | | Full |
| | | [l] | [l] | [l] | | [kW] | [l] | [m] | [kg] | | [kg] |
| NS 3 | DN 100 | 300 | 150 | 630 | Pumpenset 1,5kW | 1.5 | 155 | 9 | 244 | 874 | Right-hand |

Dimensions







Nomi- nal size




Dimensions




| | L1 | L2 | L3 | L4 | H1 | H2 | H3 | H4 | B1 | B2 | D |
|------|------|------|------|------|------|------|------|------|------|------|------|
| | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] |
| NS 3 | 1450 | 800 | 1975 | 300 | 1055 | 753 | 1680 | 1500 | 742 | 880 | 110 |








Accessories







| Description | Used with | Weight [kg] | PU [piece] | Item number |
|---|--|----------------|---------------|--------------------------|
|  Flashing light | | | | |
| 230V; Power consumption: 70 mA | Signalling unit with voltage-free fault reporting; LipuSmart-P; Multi-Max with signalling unit; LipuLift-P | 0.5 | 1 | 0150.76.25 0178.62.08 |







| Description | Used with | Weight | PU | Item number |
|---|--|--------|---------|-------------|
| | | [kg] | [piece] | |
|  <p>Grease layer thickness measuring device</p> <ul style="list-style-type: none"> ■ For electronic measurement of layer of grease ■ Suitable for liquid and/or congealing grease ■ Measuring device with plug and used connecting cable, length: 3 m ■ With two voltage-free changeover contacts to display full warning (80%) and advance warning of fill level (50%) ■ With visual display of fill level ■ With heated probe rod to increase reliability of operation ■ Operating voltage: 230VAC/5 VA ■ Max consumption approx. 12W | <ul style="list-style-type: none"> ■ LipuJet-P <ul style="list-style-type: none"> <input type="checkbox"/> Oval NS 1 – 10 <input type="checkbox"/> Round NS 2 – 22,5 ■ LipuJet-S <ul style="list-style-type: none"> <input type="checkbox"/> Oval NS 1 – 10 <input type="checkbox"/> Round NS 2 – 20 ■ LipuSmart-P <ul style="list-style-type: none"> <input type="checkbox"/> Oval NS 1 – 10 | 2.8 | | 3300.11.50 |
|  <p>Heating rod</p> | <ul style="list-style-type: none"> ■ LipuSmart OA/OAP | 15.0 | | 0155.35.28 |
|  <p>ACO Ozone Generator</p> <ul style="list-style-type: none"> ■ ACO Ozone minimizes odors that can arise from grease separators, lifting plants and pumping stations ■ Material: acid-resistant stainless steel <p>Consists:</p> <ul style="list-style-type: none"> ■ ACO Ozone - ozone generator <ul style="list-style-type: none"> <input type="checkbox"/> Size (L x W x H): 270 x 100 x 85 mm <input type="checkbox"/> Nominal voltage 230 V / 50 Hz <input type="checkbox"/> Degree of protection IP20 ■ ACO Ozone pump - feed pump <ul style="list-style-type: none"> <input type="checkbox"/> Size (L x W x H): 160 x 90 x 90 mm <input type="checkbox"/> Integrated filter <input type="checkbox"/> Nominal voltage 230 V / 50 Hz <input type="checkbox"/> Degree of protection IP54 ■ ACO Ozone bracket - wall bracket <ul style="list-style-type: none"> <input type="checkbox"/> Size (L x W x H): 295 x 110 x 90 mm ■ Hoses | <ul style="list-style-type: none"> ■ Grease separators, indoors ■ Grease separators, outdoors ■ Lifting stations ■ Pumping stations | | | 7980.90.00 |






| Description | Used with | Weight | PU | Item number |
|--|--|--------|---------|-------------|
| | | [kg] | [piece] | |
|  <p>Grease layer thickness measuring device Multi Control</p> <ul style="list-style-type: none"> ■ To determine the disposal intervals of grease separators ■ Suitable for liquid and/or harden fats ■ Delineation with colour-touchpanel ■ With integrated SD-card (4GB) for recording of the measuring process ■ With headed sounding stick (temperature is adjustable) to increase the operation safety ■ Three free of potential contacts for output of pre-alarm (adjustable), full-alarm (adjustable) and error ■ Measuring stick with adjusting scale ■ Delineation with plug-in cable connection, 3 m ■ Service voltage: 100 240VAC 50/60 Hz, 2 A ■ Power: ca. 43 W | <ul style="list-style-type: none"> ■ LipuJet-P <ul style="list-style-type: none"> <input type="checkbox"/> Oval NS 1 – NS 30 <input type="checkbox"/> Round NS 2 – NS 20 ■ LipuJet-S <ul style="list-style-type: none"> <input type="checkbox"/> Oval NS 1 – NS 10 <input type="checkbox"/> Round NS 2 – NS 20 ■ LipuSmart-P <ul style="list-style-type: none"> <input type="checkbox"/> Oval NS 1 – 10 | 2.7 | | 3300.12.50 |
| <p>Remote control</p> <ul style="list-style-type: none"> ■ For internal fitting or fitting in connection boxes ■ Control line without protective conductor on-site <ul style="list-style-type: none"> <input type="checkbox"/> Up to 50 m: 7 x 1.0 mm² <input type="checkbox"/> 50 – 200 m 7 x 1.5 mm² | | | | |
|  | <p>Grease separator;</p> <ul style="list-style-type: none"> <input type="checkbox"/> LipuJet-P OA/OAP/RA/RAP <input type="checkbox"/> LipuJet-S OA/OAP/RA/RAP <input type="checkbox"/> LipuMax-P-DA <input type="checkbox"/> LipuSmart-P-OA/OAP <p>; Starch separator Fapujet</p> | 1.0 | | 0150.59.89 |
|  | <ul style="list-style-type: none"> ■ Grease separators (incl. external makes) | 36.2 | | 7980.80.00 |
| <p>Smell neutralisation</p> <ul style="list-style-type: none"> ■ Lockable control cabinet <ul style="list-style-type: none"> <input type="checkbox"/> From stainless steel, material grade 304 <input type="checkbox"/> Ground surface <input type="checkbox"/> With side ventilation slots ■ Integrated timer ■ Incl. odour neutralisers: 9 l ■ With dosing pump for reliable discharge ■ Chemical resistant dosing hose ■ Signal column for status monitoring ■ PG gland for on-site connection ■ Control cabinet dimensions: 380 x 600 x 210 mm (W x H x D) ■ System ready to plug in <ul style="list-style-type: none"> <input type="checkbox"/> Incl. cable: 1.5 m ■ 230 V socket to be produced on-site | | | | |

| Description | Used with | Weight | PU | Item number |
|---|---|--------|---------|-------------|
| | | [kg] | [piece] | |
|  <p>Message system with GSM module</p> <ul style="list-style-type: none"> Parameter via app (Android & iOS) Mains-independent alarm via 12V lead-gel battery Optical and acoustic alarm message Freely configurable inputs <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 |
|  <p>Connection cable antenna GSM</p> <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> GSM - Modul | | | 0150.83.86 |
|  <p>Signalling unit</p> <ul style="list-style-type: none"> 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 | | | | |
| | <p>Faecal matter backflow automatic stop Quatrix-K type 3F; All Muli wastewater lifting plants; Upstream tank plant mono/duo; Muli-Max; Sinkamat –K/-KD; Sinkamat-Z; Sinkamat-Z (underfloor);</p> <ul style="list-style-type: none"> Duo <p>; LipuLift-P</p> | 1.4 | 1 | 0150.26.73 |
|  <p>Signal horn</p> <ul style="list-style-type: none"> 230V AC Power consumption: 30mA Ø62x85 mm (L/B x T) Protection: IP66 95 dB(A) | <ul style="list-style-type: none"> Signalling unit with voltage-free fault reporting LipuSmart-P Muli-Max with signalling unit LipuLift-P | 0.3 | 1 | 0178.61.94 |

| | Description | Used with | Weight [kg] | PU [piece] | Item number |
|---|---|--|----------------|---------------|----------------|
|  | Heating rod <ul style="list-style-type: none"> ■ To liquefy grease layer ■ Incl. control ■ Electrical connector <ul style="list-style-type: none"> <input type="checkbox"/> 400 V/50 Hz/6.0 kW | <ul style="list-style-type: none"> ■ Grease separators | 15.0 | | 7300.01.00 |
|  | Connection box <ul style="list-style-type: none"> ■ For evacuation connection and remote control ■ Made from stainless steel, material grade 304 ■ Fixing: "On wall" ■ Dimensions (width x height x depth): 500 x 500 x 160 mm | <ul style="list-style-type: none"> ■ Grease separators ■ Starch separators ■ LipuLift-P-D/-DA/-DAP | 11.6 | | 7601.80.20 |
|  | In-wall frame <ul style="list-style-type: none"> ■ Dimensions (width x height x depth): 565 x 565 x 15 mm | <ul style="list-style-type: none"> ■ Connection box <ul style="list-style-type: none"> <input type="checkbox"/> 7601.80.20 ■ LipuLift-P-D/-DA/-DAP | 1.2 | | 7601.80.21 |
|  | Storz coupling for swinging gas lines <ul style="list-style-type: none"> ■ Storz coupling 75B ■ For connection of the disposal vehicle pendulum gas line ■ For pipe connection Rp 2 1/2" (female thread) | <ul style="list-style-type: none"> ■ For installation in connection box art. no. 7601.80.22 | 1.8 | | 0155.32.09 |
|  | Connection box <ul style="list-style-type: none"> ■ For evacuation connection DN 80 ■ Made from stainless steel, material grade 304 ■ "On wall" version ■ Door stop <ul style="list-style-type: none"> <input type="checkbox"/> Choice of left or right <input type="checkbox"/> Lockable door ■ Dimensions (width x height x depth): 370 x 330 x 250 mm | <ul style="list-style-type: none"> ■ Grease separators <ul style="list-style-type: none"> <input type="checkbox"/> LipuMax-P-D/DM/DA <input type="checkbox"/> LipuJet-P-OD/RD/SD/OM/OMP/RM/RMP <input type="checkbox"/> LipuJet-S-OD/RD/SD/OM/OMP/RM/RMP ■ Stach seperators FapuMax-P-DA ■ Oil separators Coalisator-P ■ LipuLift-P-D/-DA/-DAP | 10.4 | | 7601.80.22 |
|  | In-wall frame <ul style="list-style-type: none"> ■ Stainless steel, material grade 304 ■ Dimensions (width x height x depth): 421 x 381 x 25 mm | <ul style="list-style-type: none"> ■ Connection box <ul style="list-style-type: none"> <input type="checkbox"/> 7601.80.22 ■ LipuLift-P-D/-DA/-DAP | 1.0 | | 7601.80.23 |
|  | Connection box <ul style="list-style-type: none"> ■ For disposal connection, pendulum gas line (if necessary) and remote control ■ From stainless steel, material grade 304 ■ "Surface mounted" version ■ Glass beaded front ■ Lockable door, left limit stop ■ Dimensions W x H x D: 300 x 725 x 160 mm | <ul style="list-style-type: none"> ■ Grease separator ■ Starch separators ■ LipuLift-P-D/-DA/-DAP | 10.0 | | 7601.80.24 |

| | Description | Used with | Weight | PU | Item number |
|---|--|--|--------|---------|-------------|
| | | | [kg] | [piece] | |
|  | <p>In-wall frame</p> <ul style="list-style-type: none"> ■ From stainless steel, material grade 304 ■ "In-wall" version ■ Glass beaded front ■ Dimension W x H x D: <ul style="list-style-type: none"> □ 405 x 830 x 30 mm | <ul style="list-style-type: none"> ■ Connection box <ul style="list-style-type: none"> □ 7601.80.24 ■ LipuLift-P-D/-DA/-DAP | 2.1 | | 7601.80.25 |
|  | <p>Coarse trap DN 100</p> <ul style="list-style-type: none"> ■ For installation in vertical pipes DN 100 going to grease separator ■ Round shape with <ul style="list-style-type: none"> □ Coupling socket seal (material SBR) on inlet and spigot on outflow □ Basket made from stainless steel, material grade 316 to retain coarse substances □ Odour-proof maintenance opening DN 450 | <ul style="list-style-type: none"> ■ Grease separator LipuJet-P/LipuSmart-P <ul style="list-style-type: none"> □ NS 1 – 4 ■ Starch separator Fapujet-P-OAP <ul style="list-style-type: none"> □ NS 0.5 – 1 | 9.7 | | 3667.00.04 |
|  | <p>Coarse trap DN 150</p> <ul style="list-style-type: none"> ■ For installation in vertical pipes DN 150 going to grease separator ■ Round shape with <ul style="list-style-type: none"> □ Coupling socket seal (material SBR) on inlet and spigot on outflow □ Basket made from stainless steel, material grade 316 to retain coarse substances □ Odour-proof maintenance opening DN 450 | <ul style="list-style-type: none"> ■ Grease separator LipuJet-P/LipuSmart-P <ul style="list-style-type: none"> □ NS 5.5 – 10 ■ Starch separator Fapujet-P-OAP <ul style="list-style-type: none"> □ NS 2 | 12.6 | | 3667.00.05 |
|  | <p>Hand membrane pump 1 1/2"</p> <ul style="list-style-type: none"> ■ For fixing to wall ■ Incl. hose <ul style="list-style-type: none"> □ Clear width: 48 x 80 mm ■ Incl. hose clamp <ul style="list-style-type: none"> □ Clear width: 50 x 70 mm □ Width: 12 mm □ 2 pcses required | <ul style="list-style-type: none"> ■ Wastewater lifting plant | 14.4 | 1 | 0175.23.73 |
|  | <p>Connection ports ventilation</p> <ul style="list-style-type: none"> ■ Made of PE-HD ■ DN70 (OD 75mm) | <ul style="list-style-type: none"> ■ LipuSmart-P | | | 0155.34.16 |
|  | <p>Inlet socket DN 50</p> <ul style="list-style-type: none"> ■ Made of plastic ■ For lateral input option ■ For fitting on-site | <ul style="list-style-type: none"> ■ Junior basement gully with backflow stop ■ Basement gully DN 100 ■ Sinkamat-K (free-standing) ■ LipuSmart-P ■ Multi-Mini | 0.1 | 2 | 2410.00.04 |

| | Description | Used with | Weight | PU | Item number |
|---|---|---|--------|---------|-------------|
| | | | [kg] | [piece] | |
|  | Stop valve 1 1/2" ■ For hand membrane pump | ■ Wastewater lifting plant | 1.0 | 1 | 0159.10.12 |
|  | Three way valve 1 1/2" ■ For hand membrane pump | ■ Wastewater lifting plant | 3.3 | 1 | 0159.10.14 |
|  | Stop valve ■ Made of cast iron ■ Slide plate, spindle made of stainless steel, material grade 304 ■ DN 100 ■ Length (L): 50 mm ■ Spindle path (H1 – H2): 365 – 465 mm ■ Hand wheel diameter: 200 mm ■ Incl. seals and fixing material | ■ LipuSmart-P inlet pump unit | 15.0 | | 0155.34.18 |
|  | 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 |
|  | Stop valve ■ Made of cast iron ■ Penstock plate, spindle made from stainless steel, material grade 304 | | | | |
| | DN 100; Length (L): 50 mm; Spindle travel (H1 – H2): 365 – 465 mm; Manual wheel diameter: 200 mm | Grease separators for free-standing installation; Starch separator for free-standing installation | 15.0 | | 7602.00.12 |
| | DN 150; Length (L): 60 mm; Spindle travel (H1 – H2): 478 – 639 mm; Manual wheel diameter: 200 mm | Grease separators for free-standing installation; Starch separator for free-standing installation | 29.4 | | 7604.00.12 |
|  | Flange connection part ■ Stainless steel, material grade 304 ■ Seal: NBR | | | | |
| | DN 100; Length (L): 75 mm | | 6.5 | | 7602.00.13 |
| | DN 150; Length (L): 75 mm | | 10.0 | | 7604.00.13 |

| | Description | Used with | Weight | PU | Item number |
|---|---|---|--------|---------|-------------|
| | | | [kg] | [piece] | |
|  | <p>Inlet valve DN 100</p> <ul style="list-style-type: none"> ■ Made of PVC ■ 110 mm push socket on both sides with rim sealing ring ■ Overall dimensions: 176 x 330 mm (L x H) | <ul style="list-style-type: none"> ■ Wastewater lifting plant ■ Polyethylene grease separator ■ Polyethylene starch separator ■ Upstream tank plant <ul style="list-style-type: none"> <input type="checkbox"/> Typ 2 and 4 ■ LipuMobil-P – Type 0.5 | 3.1 | 1 | 0175.13.84 |
|  | <p>Inlet valve DN 150</p> <ul style="list-style-type: none"> ■ Made of PVC ■ 160 mm push socket on both sides with rim sealing ring ■ Overall dimensions: 226 x 510 mm (L x H) | <ul style="list-style-type: none"> ■ Wastewater lifting plant ■ Polyethylene grease separator ■ Polyethylene starch separator ■ Upstream tank plant <ul style="list-style-type: none"> <input type="checkbox"/> Type 7 – Type 10 | 7.0 | 1 | 0175.13.85 |
|  | <p>Sealing ring</p> <ul style="list-style-type: none"> ■ As additional component for pressure line DN 80 ■ Clamping range: 88 - 93 mm | <ul style="list-style-type: none"> ■ LipuSmart-P ■ Powerlift installation kit DN 100 ■ Fäkablock II ■ All Muli wastewater lifting plants | 0.3 | 1 | 0150.83.71 |
|  | <p>Operating Logbook</p> <ul style="list-style-type: none"> ■ Contents: Check-list and standard forms to document in-house monitoring, maintenance and disposal relating to the plant as required by DIN 4040-100 ■ Format: A4 with double filing rings ■ Size: 60 pages ■ Laid out to cover 5 years | <ul style="list-style-type: none"> ■ Grease separator <ul style="list-style-type: none"> <input type="checkbox"/> For underground installation <input type="checkbox"/> For free-standing installation | 0.3 | | 0150.45.23 |
|  | <p>LipuSmart App</p> <ul style="list-style-type: none"> ■ Benefits for maintenance, monitoring and operation ■ Checklists for setting up the grease separators and lifting system unit ■ Grease separator protocol system ■ Assurance of control settings ■ Connection via Bluetooth interface ■ Operating systems <ul style="list-style-type: none"> <input type="checkbox"/> Android <input type="checkbox"/> IOS ■ Download: <ul style="list-style-type: none"> <input type="checkbox"/> Http://aco.me/lipusmartapp <input type="checkbox"/> QR-code in the data sheet | <ul style="list-style-type: none"> ■ Control system for general system <ul style="list-style-type: none"> <input type="checkbox"/> LipuSmart-P-OA <input type="checkbox"/> LipuSmart-P-OAP | | | Software |

You can find further accessories under → <https://www.buildingdrainage.aco/search/?q=3553.76.42>