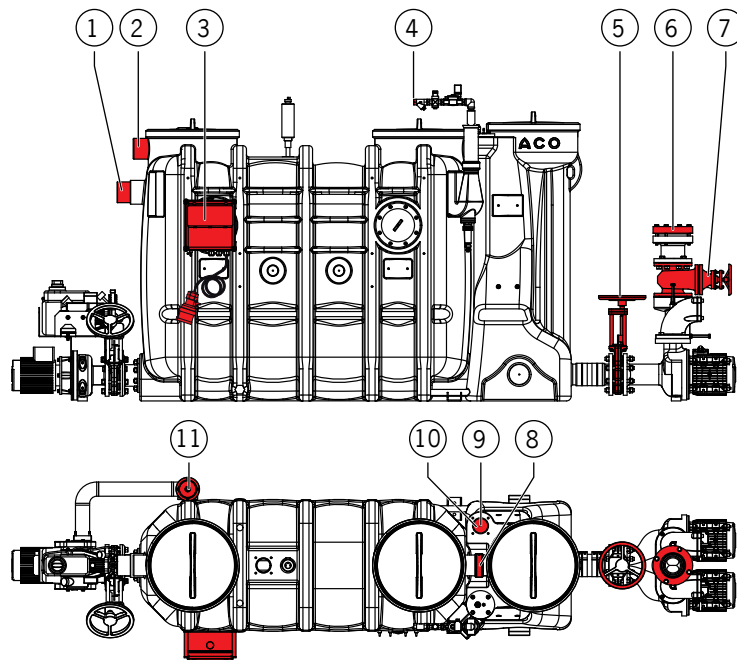
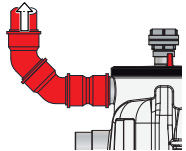
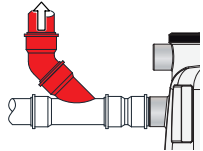






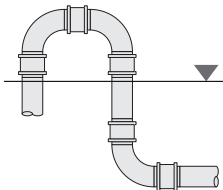

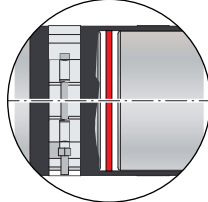


LipuSmart-P-OAP

Connection work



Pos.	Subject	Requirements
1	<p>Inlet connection DN/OD according to Nominal Size of grease separator.</p> <p>→ Connect on-site inlet piping.</p>	<ul style="list-style-type: none"> Wastewater has to be discharged into the system with a free gradient of at least 1.5 - 2%. If this is not possible, the use of ACO upstream tank systems with spiral pumps is recommended. The transition from downpipes to horizontal pipes must be made with two 45° pipe bends and an intermediate piece at least 250 mm long (equivalent pipe bends with a correspondingly large radius). A calming section is then to be installed in the direction of flow, the length of which corresponds to at least 10 times the nominal width in mm of the inlet pipe of the separator. Install inflow pipes of fatty acid-resistant materials (e.g. PP, PE).
2	<p>Connection piece DN 100/OD 110 mm.</p> <p>→ Connect on-site ventilation line.</p> <p>Possibility 1: </p> <p>Possibility 2: </p>	<ul style="list-style-type: none"> Run the ventilation line over the roof. Instead of an additional connection in the supply line near the system, the connection piece on the grease separator can be used, "Option 1" on the left. Ventilation valves are in areas at risk of backwater and for Ventilation of the system not permitted. Make ventilation lines from fatty acid-resistant materials (e.g. PP, PE).

Pos.	Subject	Requirements													
3	<ul style="list-style-type: none"> → CEE socket for controlling the Install the lifting system. → Install the remote control in the vicinity of the disposal connection → Lay the on-site connection cable from the control unit to the remote control. → Set up collective fault message. The control has a potential-free contact for the transmission of a collective error message. The contact is made via a changeover contact. The electrical circuits of the devices to be connected are galvanically decoupled from each other,  Circuit diagrams, instructions for use "LlpuSmart-P" on the back fold-out page. 	<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;">  </div> <div> <p>WARNING Danger of electric shock from live parts Have the connection in the control unit carried out by an electrician.</p> </div> </div> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th colspan="2" style="text-align: center;">Technical data</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Motor power P2:</td> <td style="text-align: center;">8.2 kW (NS 2 – 4)</td> </tr> <tr> <td style="text-align: center;">10.7 kW (NS 5.5 – 10)</td> </tr> <tr> <td>Power supply (on-site):</td> <td style="text-align: center;">400 V / 50 Hz</td> </tr> <tr> <td>CEE socket (on-site):</td> <td style="text-align: center;">32 A</td> </tr> <tr> <td>Electrical protection (on-site):</td> <td style="text-align: center;">3 x 32 A (slow)</td> </tr> <tr> <td>Protection class:</td> <td style="text-align: center;">Control unit and remote control: IP 54</td> </tr> </tbody> </table> <p>Connection cable diameter:</p> <ul style="list-style-type: none"> ■ until length 50 m: 7 x 1 mm² (without protective conductor) ■ until 200 m: 7 x 1.5 mm² (without protective conductor) <p>ATTENTION When installing the cables, make sure that there is no electromagnetic interference from live components. If necessary, suitable shielding measures must be taken.</p>	Technical data		Motor power P2:	8.2 kW (NS 2 – 4)	10.7 kW (NS 5.5 – 10)	Power supply (on-site):	400 V / 50 Hz	CEE socket (on-site):	32 A	Electrical protection (on-site):	3 x 32 A (slow)	Protection class:	Control unit and remote control: IP 54
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4	<ul style="list-style-type: none"> → Connect the on-site water pipe to the filling unit. 	<p>ATTENTION Observe regional regulations for connecting the filling unit to the drinking water network.</p> <ul style="list-style-type: none"> ■ A permanent water connection line for filling the grease trap must have a free outlet in accordance with the legal requirements. ACO grease separators with filling unit meet these requirements. A drinking water connection R ¾ "is required for the filling unit. The built-in pressure reducer is set to 4 bar. ■ If possible, install a shut-off valve in the water connection pipe. 													
5	<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;">  </div> <div> <p>Gate valve DN 100 can be obtained from ACO as an option, article no. 0155.34.18</p> </div> </div> <ul style="list-style-type: none"> → Mount the gate valve between the lifting unit and the pump unit,  Instructions for use "LlpuSmart-P". 	<ul style="list-style-type: none"> ■ Establish tight flange connections. 													

Pos.	Subject	Requirements
6	<p>→ Connect on-site pressure line DN 100 / OD 108 to 114.3 mm.</p> <p>Connection of a pressure line DN 80 / OD 88 to 90 mm with optional sealing ring (article no. 0159.37.97) possible.</p> <p>→ Run backflow loop across the level "backflow level" ▼.</p>	<ul style="list-style-type: none"> ■ The lifting station must drain through a backflow loop. The Backflow loop is to be established above the backflow level. ■ Pressure line must be designed for at least 1.5 times the pump pressure. ■ Lay the pressure line steadily rising and frost-proof. ■ The flow velocity in the pressure pipe must not fall below 0.7 m / s and not exceed 2.3 m / s. ■ Never connect other lines to the pressure line. ■ Ventilation valves in the pressure line are not permitted. ■ The pressure line must not stand up in the special fastening piece. ■ A gate valve DN 80 must be installed in the pressure line. 
7	<p> Gate valve DN 80 can be obtained from ACO as an option, article no. 0154.51.93</p> <p>→ Mount the gate valve between the double backflow preventer and the special fastening piece.</p>	<ul style="list-style-type: none"> ■ A gate valve DN 80 must be installed in the pressure line.
8	<p>ATTENTION If separate ventilation of the grease separator and lifting system (for NS 3 - 10) is preferred or required, work must be carried out in accordance with the descriptions below Pos. 8 and 9 necessary:</p> <p>→ Close the connection between the grease separator and the lifting system (e.g. by inserting an on-site washer Ø 110 mm into the pipe connector).</p>	
9	<p> Connection piece DN 70 can optionally be obtained from ACO, article no. 0155.34.16</p> <p>→ Mount the connection piece on the lifting unit,  Instruction for use "LipuSmart-P".</p> <p>→ Connect on-site ventilation line to lift plant.</p>	<ul style="list-style-type: none"> ■ Run the ventilation line over the roof. ■ Ventilation valves are in areas at risk of backwater and for Ventilation of the system not permitted. ■ Use ventilation pipes from fatty acid-resistant materials (e.g. PP, PE).

Pos.	Subject	Requirements
10	<p>ATTENTION On-site ventilation with NS 2, in addition to the ventilation line on the grease separator as described under item 2, a DN 70 ventilation line must be connected to the lifting unit. The connection piece is already fitted ex works (only with NS 2).</p> <p>→ Connect on-site ventilation line to lift plant.</p>	<ul style="list-style-type: none"> ■ Run the ventilation line over the roof. ■ Ventilation valves are not permitted. ■ Make ventilation lines from fatty acid-resistant materials (e.g. PP, PE).
11	<p>→ Connect on-site disposal line (optional).</p>	<ul style="list-style-type: none"> ■ Design disposal lines as pressure or suction lines at least in pressure level PN 6. Use tensile strength connections for individual pipes and fittings. ■ Disposal lines made of corrosion-resistant materials (e.g. plastic pipes made of PE, PP). ■ Lay the disposal line from the grease separator to the transfer point (disposal vehicle) with a steadily increasing incline, change the direction of the line using 90 ° bends with the largest possible radius. In the case of particularly long horizontal disposal lines, it may be advisable to lay them on site with a slope to the disposal point (to protect against backflow of wastewater back into the grease separator after disposal). ■ Lay the disposal line with as constant a diameter as possible up to the transfer point (disposal vehicle). Suction lines with at least DN 65.