

## Application

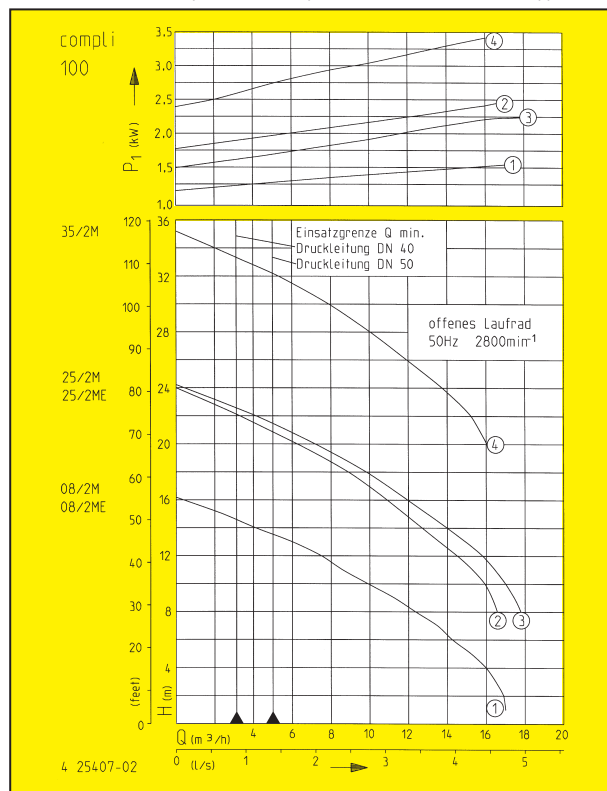
This packaged sewage disposal unit incorporating MultiCut cutting system is ideal for use when handling waste water from holiday homes, houseboats, temporary toilets etc.

The MultiCut cutting system enables waste water to be pumped over long distances through narrow pressure pipes to the nearest gravity drain. The pressure pipes are able to follow the undulations of the land. In many cases it can be shown that waste water transportation is more cost-effective by small bore pressure pipe than using standard gravity fed mains. The outboard cutter system incorporated in the MultiCut units ensure efficient operation and negates the possibility of blockages. The combination of compli 100 with the various motors available allows the best possible selection to specific site requirements. This means that even large distances can be covered without difficulty.

Control panels must be mounted in a dry atmosphere above flood levels.



The minimum flow velocity in the pressure piping must be 0,7 m/s according to EN 12056. This data is represented in the performance curve as a limit of application.



▶ Ready for connection

▶ Flood-proof

▶ Compact

▶ PE-tank

▶ Cutting system



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances.

## Packaged sewage disposal unit

Type	Tank capacity	Inlet height	Max. Size solids	Sleeve inlet	Discharge branch	Connection pipe outside diameter	Ventilation	Weight	Code No.
compli 108/2 M	35 l	250 mm	7 mm	DN 100	DN 50	63 mm	DN 70	34,5 kg	<b>9346</b>
compli 108/2 ME	35 l	250 mm	7 mm	DN 100	DN 50	63 mm	DN 70	40,0 kg	<b>9347</b>
compli 125/2 M	35 l	250 mm	7 mm	DN 100	DN 50	63 mm	DN 70	45,5 kg	<b>9877</b>
compli 125/2 ME	35 l	250 mm	7 mm	DN 100	DN 50	63 mm	DN 70	51,0 kg	<b>9270</b>
compli 135/2 M	35 l	250 mm	7 mm	DN 100	DN 50	63 mm	DN 70	51,0 kg	<b>9878</b>

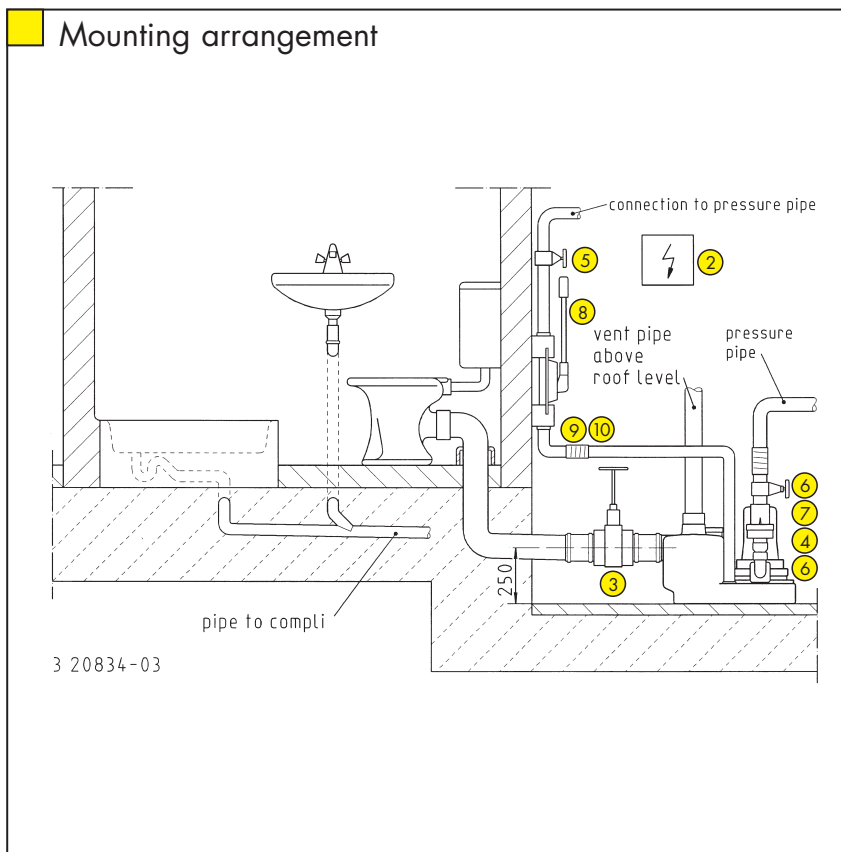
## Performance

Type	Delivery head H [m]	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
compli 108/2 M	Flow rate [m <sup>3</sup> /h]	17	16	14	13	10	8	4										
compli 108/2 ME		17	16	14	12	10	7	4										
compli 125/2 M					18	17	16	14	12	10	7	4						
compli 125/2 ME					17	16	15	13	11	9	6	3						
compli 135/2 M											16	15	14	12	10	8	6	2

## Electrical data

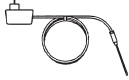
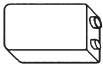
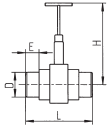

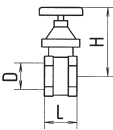
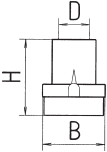
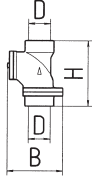
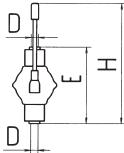
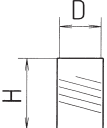

Type	Type of current	Voltage Volt	Motor rating kW		F.L.C. Amp.	RPM min <sup>-1</sup>	Cable (4m) tank-control unit	Cable (1,5m) control unit-plug	Plug
			P <sub>1</sub>	P <sub>2</sub>					
compli 108/2 M	3-phase	3N~400	1,65	1,24	2,8	2694	H07RN-F-5G1,5	H05VVF-5G1,5	CEE
compli 108/2 ME	1-phase	1N~230	1,70	1,14	7,5	2584	H07RN-F-5G1,5	H05VVF-3G1,5	Schuko
compli 125/2 M	3-phase	3N~400	2,60	2,10	4,4	2800	H07RN-F-6G1,5	H05VVF-5G1,5	CEE
compli 125/2 ME	1-phase	1N~230	2,70	2,04	12,0	2776	H07RN-F-6G1,5	H05VVF-3G1,5	Schuko
compli 135/2 M	3-phase	3N~400	3,70	3,10	6,6	2896	H07RN-F-6G1,5	H05VVF-5G1,5	CEE

## Mounting arrangement



## Accessories

Code No.

	<b>1 Seal leak control DKG</b>	<b>252</b>									
	<b>2 Rechargeable battery</b> for off the line operation of the alarm system	<b>7562</b>									
	<b>3 PVC sluice valve</b> (two pipe sockets) for inlet 4" (DN 100), PN 2,5	<b>28297</b>									
	<table border="1"> <thead> <tr> <th>H</th> <th>L</th> <th>E</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>360</td> <td>295</td> <td>60</td> <td>110</td> </tr> </tbody> </table>	H	L	E	D	360	295	60	110		
H	L	E	D								
360	295	60	110								
	<b>4 Reducing socket</b> 1 1/4"– 2"	<b>14274</b>									
	<b>5 Stop valve</b> 1 1/2" (DN 40), PN 16	<b>11837</b>									
	<b>6 Stop valve</b> for delivery site, 2" (DN 50), PN 16	<b>11838</b>									
	<table border="1"> <thead> <tr> <th>H</th> <th>L</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>125</td> <td>max.60</td> <td>1 1/2"</td> </tr> <tr> <td>160</td> <td>max.67</td> <td>2" for delivery site</td> </tr> </tbody> </table>	H	L	D	125	max.60	1 1/2"	160	max.67	2" for delivery site	
H	L	D									
125	max.60	1 1/2"									
160	max.67	2" for delivery site									
	<b>7 Swing-type check valve R 50, 2" (DN 50), PN 4, EN 12050-4</b>	<b>326</b>									
	<table border="1"> <thead> <tr> <th>H</th> <th>B</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>150</td> <td>120</td> <td>2"</td> </tr> </tbody> </table>	H	B	D	150	120	2"				
H	B	D									
150	120	2"									
	<b>Ball check valve K 50, 2" (DN 50), PN 6, EN 12050-4</b>	<b>9857</b>									
	<table border="1"> <thead> <tr> <th>H</th> <th>B</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>185</td> <td>150</td> <td>2"</td> </tr> </tbody> </table>	H	B	D	185	150	2"				
H	B	D									
185	150	2"									
	<b>8 Hand diaphragm pump</b> (up to a geodetic height of 15 m)	<b>255</b>									
	<table border="1"> <thead> <tr> <th>H</th> <th>E</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>approx. 640</td> <td>430</td> <td>1 1/2"</td> </tr> </tbody> </table>	H	E	D	approx. 640	430	1 1/2"				
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approx. 640	430	1 1/2"									
	<b>9 Elastic connection</b> 1 1/2" (DN 40), PN 4	<b>20368</b>									
	<table border="1"> <thead> <tr> <th>H</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>120</td> <td>50</td> </tr> </tbody> </table>	H	D	120	50						
H	D										
120	50										
	<b>10 Hose band clamp</b> 1 1/2"	<b>3571</b>									

## Technical data

### Pump

Vertical, single-stage, submersible, pump case with discharge DN 50, open impeller, adjustable MultiCut cutting system

### Bearings

Common shaft for pump and motor, greased ball bearings

### Seal

Silicon carbide mechanical seal with dry-running properties independent of sense of rotation, oil chamber, duplex rotary shaft seal as secondary seal, safe to run dry

### Motor

**compli 108:** Submersible, insulation class F, type of enclosure IP 68, winding thermostat protects the motor from overload, automatic activation through control unit

**compli 125:** Submersible, insulation class F, type of enclosure IP 68, winding thermostat protects the motor from overload, automatic activation through control unit.

### Materials

Polyethylene tank, pump and motor case as well as impeller in wear resisting grey cast iron (GG-25), corrosion protected shaft (no contact with pumped liquid), stainless steel hardened (57 HRC) cutting system, flexible rubber sheathed cable

### Scope of supply

Ready to connect tank system (capacity 35 l) acc. to EN 12050 with sleeve for inlet DN 100, pre-installed submerged pump, one elastic connection with hose clamps for plastic pressure pipe each, automatic float switch, control unit (enclosure IP 44) with motor protection, contactor, transformer, mains-dependent alternatively receptacle alarm and volt-free contact for collective fault signal, visual control of sense of rotation. A microprocessor control unit is also available on request.

Cable tank - control unit 4 m,

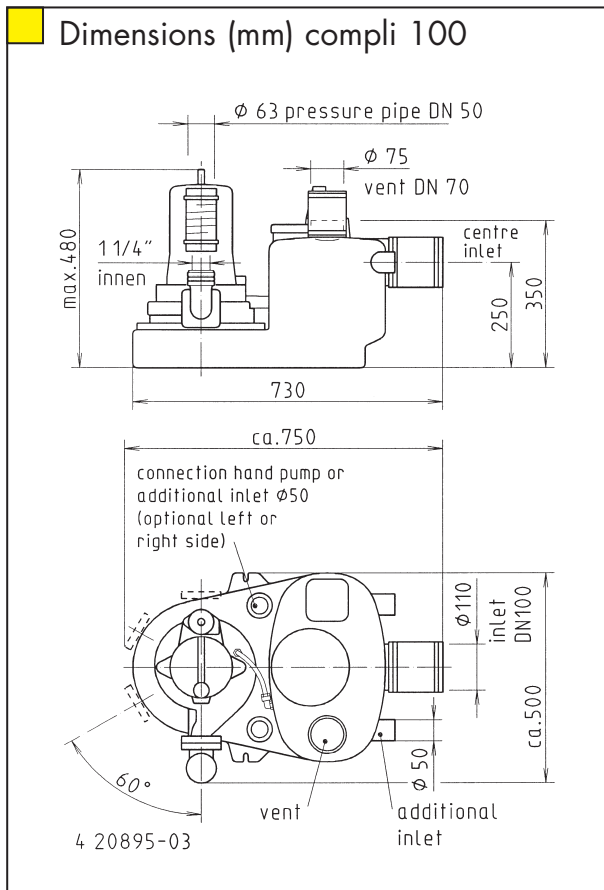
Cable control unit - plug 1,5 m.

Please order accessories according to the drawing "mounting arrangement".

### The MultiCut System

The liquid flows into the impeller through a rigid, perforated cutter plate in which apertures are tapered to improve the suction performance. The sharpened three bladed cutter, rotating in front of the inlet, shears any solids present. The impeller then passes them through a counterflow system in the wear plate, then into the volute casing and out through the pump discharge.

The cutter plate rejects any material such as stones or metal that is unable to cut. The combined cutting and pumping system gives trouble-free, low-cost sewage disposal even with difficult ground conditions.



Specified values for installation (EN 12056-4):

- working space of 60 cm above and next to all parts of the sewage disposal unit
- pump sump for room drainage
- return flow preventer on the pressure side
- waste water stop valve on the pressure side
- waste water sluice valve on the supply side
- sewage disposal units must be installed buoyancy proof

Special technical note for compli 125/2 ME:

Since the rated output of the a.c. motor exceeds 1.4 kW, the permission of the local power supply organisation must be obtained before ordering and commissioning.

Application in pressure drainage systems:

By applying a compli 100 in a pressure drainage system according to EN 1671 a reflux valve PN 6 and a sluice valve PN 16 must be installed additionally into the pressure pipe.