



Condensate technology | BEKOSPLIT® 11 | 12 | 13 | 14 | 14S | 15 | 16

For complex jobs: BEKOSPLIT® splits emulsions and treats condensates that are difficult to process

Where condensate cannot be separated physically by gravity only, it must be split chemically, using an emulsion splitting plant.

The BEKOSPLIT® reaction splitting plant is a reliable on-site processing solution for companies that need to treat emulsified condensate. This might occur as a result of unfavourable operating conditions or in connection with certain lubricant-compressor combinations. The process uses a special splitting agent to encapsulate organic compounds such as oil and solids that are not soluble in water in order to remove them the condensate. The discharge water can be safely disposed of through the foul drain. The BEKOSPLIT® has been type-approved by Deutsches Institut für Bautechnik (DIBt).

By law, condensate must be disposed of safely. The BEKOSPLIT® emulsion splitting plants combine economy and ecology, as they enable you to process condensate at the point at which it occurs in a safe and cost-effective manner.

› Automated unit

- › Display indicating operating state
- › Sensor-controlled filling level monitoring
- › Dosing unit for splitting agent
- › Signal contact for error messages and maintenance alerts

› Environmentally-friendly processing

- › Highly effective splitting agent
- › No need for aggressive detergents
- › Huge reduction in waste volume to below 0.5%

› Low-cost investment, operation and maintenance

- › 2-year warranty
- › Excellent discharge water quality

› Compact design

- › Suitable for installation in confined spaces

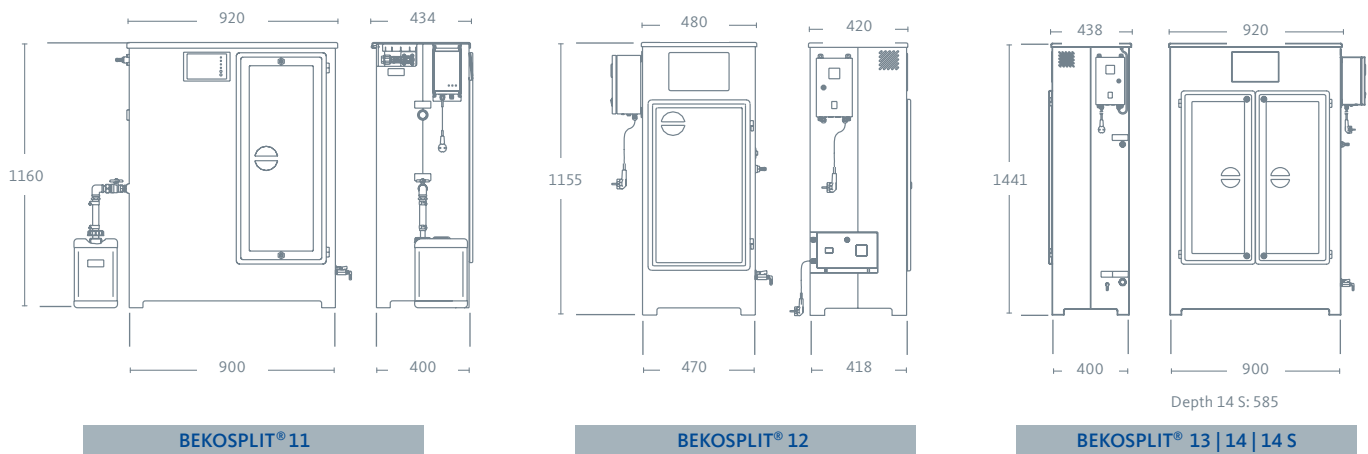
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 Симферополь (3652)67-13-56
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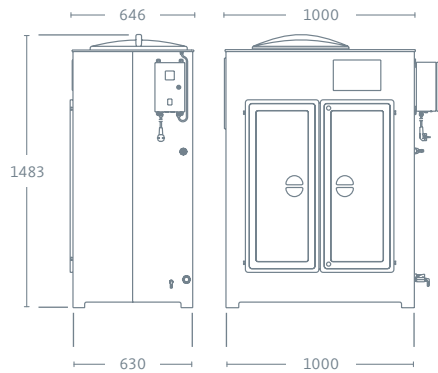
Сургут (3462)77-98-35
 Тверь (4822)63-31-35
 Томск (3822)98-41-53
 Тула (4872)74-02-29
 Тюмень (3452)66-21-18
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 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Ярославль (4852)69-52-93



Dimensions in mm

| Technical data | BEKOSPLIT® 11 | BEKOSPLIT® 12 | BEKOSPLIT® 13 | BEKOSPLIT® 14 | BEKOSPLIT® 14 S |
|----------------------------------|--|---|---|---|---|
| Max. plant capacity | 15 l/h | 30 l/h | 60 l/h | 90 l/h | |
| Max. compressor capacity | 12.5 m³/min | 25 m³/min | 50 m³/min | 75 m³/min | |
| Reaction tank capacity | 10 l | | 22 l | | |
| Preseparator capacity | 70 l | Separate preseparation tank* | | | |
| Splitting agent tank capacity | 2 l | 8.5 l | | | 25 l |
| Oil receiver capacity | 10 l | 10 or 20 l, depending on preseparator* | | | |
| Filter bag | 1 x 25 l | | 2 x 35 l | | |
| Filter bag wet weight | approx. 25 ... 30 kg | | approx. 60 ... 65 kg | | |
| Operating voltage | 100 ... 240 VAC ± 10 % / 50 ... 60 Hz | 110, 200, 230 VAC ± 10 % / 50 ... 60 Hz | 110, 200, 230 VAC ± 10 % / 50 ... 60 Hz | 110, 200, 230 VAC ± 10 % / 50 ... 60 Hz | 110, 200, 230 VAC ± 10 % / 50 ... 60 Hz |
| Power consumption | < 100 VA | | | | |
| Power supply output voltage | 24 VDC | | | | |
| Protection class | IP 54 | | | | |
| Fuse (power supply) | 3.15 A / T (slow) | 1.0 A / T (slow - 230 VAC) 2.5 A / T (slow 110 - VAC) | | | |
| Fuse (control circuit) | Recommended circuit breaker (power supply) - min 6 A / C characteristic | 3.15 A / T (slow) | | | |
| Contact load | > 5 VDC / > 10 mA < 50 VAC/DC / < 5A / < 150 VA/W | | | | |
| Condensate inlet (hose) | 3 x G½ (di = 13 mm); 1 x G1 (screw fitting) | See preseparator | | | |
| Pump inlet (hose) | - | 1 x G½ (Ø = 13 mm) | | | |
| Water outlet (hose) | 1 x G1 (Ø = 25 mm) inside | | | | |
| Dimensions | 433 x 920 x 1160 mm | 417 x 480 x 1155 mm | 433 x 920 x 1433 | 433 x 920 x 1433 | 433 x 920 x 1433 |
| Weight (empty) | 48 kg | 33 kg | 54 kg | | 55 kg |
| Reference turbidity | 20 mg/l (standard) or 10 mg/l (optional) | | | | |
| Min./max. ambient temperature | +5 ... +50 °C (storage, transport, medium temperature) | | | | |
| Max. operating pressure at inlet | 16 bar | See preseparator | | | |

* 600 l / 1000 l, see table to the right



BEKOSPLIT® 15 | 16

Dimensions in mm

| Technical data | BEKOSPLIT® 15 | BEKOSPLIT® 16 |
|-------------------------------|--|--|
| Max. plant capacity | 120 l/h | 160 l/h |
| Max. compressor performance* | 100 m ³ /min | 135 m ³ /min |
| Reaction tank capacity | 54 l | |
| Preseparator capacity | Separate preseparation tank* | |
| Splitting agent tank capacity | 40 l | |
| Oil reservoir capacity | 10 or 20 l, depending on preseparator* | |
| Filter bag | 2 x 35 l | |
| Filter bag wet weight | approx. 60 ... 65 kg | |
| Operating voltage | 110, 200, 230 VAC ± 10 % / 50 ... 60 Hz | 100, 110, 200, 230 VAC ± 10 % / 50 ... 60 Hz |
| Power consumption | < 100 VA | |
| Power supply output voltage | 24 VDC | |
| Protection class | IP 54 | |
| Fuse (power supply) | 1.0 A / T (slow - 230 VAC) 2.5 A / T (slow 110 - VAC) | |
| Fuse (control circuit) | 3.15 A / T (slow) | |
| Contact load | > 5 VDC / > 10 mA < 50 VAC/DC / < 5A / < 150 VA/W | |
| Condensate inlet (hose) | See preseparator | |
| Pump inlet (hose) | 1 x G½ (Ø = 13 mm) | |
| Water outlet (hose) | 1 x G1 (Ø = 25 mm) inside | |
| Dimensions | 630 x 1000 x 1483 mm | 630 x 1000 x 1483 mm |
| Weight (empty) | 76 kg | |
| Reference turbidity | 20 mg/l (standard) or 10 mg/l (optional) | |
| Min./max. ambient temperature | +5 ... +50 °C (storage, transport, medium temperature) | |

| Preseparator | 600 l | 1000 l |
|---|--------------------|---------------|
| Container capacity | 600 l | 1000 l |
| Preseparator capacity | 210 l | 400 l |
| Buffer capacity | 390 l | 600 l |
| Max. operating pressure at inlet | 25 bar** | |
| Condensate inlet (hose) | 3 x G½ (Ø = 13 mm) | |
| Oil discharge | Ø = 32 mm | |
| Oil receiver | 10 l | 20 l |
| Weight (empty) | approx. 56 kg | approx. 74 kg |
| Min./max. storage, transport medium and ambient temperature | +5 ... +50 °C | |

** for higher pressures: install high pressure relief chamber

* 600 l / 1000 l, see table to the right

BEKOSPLIT® consumables

Over time, the splitting agent absorbs oil from the condensate and becomes saturated, so that it must be disposed of. We offer two standard splitting agents. For special products, please contact our technical department.



| Splitting agent | FL 02 | | FL 11 | |
|-----------------|--------------|---------|---------|---------|
| | Packing unit | 1 | 1 | 1 |
| Weight (kg) | 10 | 25 | 10 | 25 |
| Order no. | 4020598 | 4020596 | 4021427 | 4021430 |

| For BEKOSPLIT® | Replacement filter kit | | Replacement fleece filter kit | |
|----------------|------------------------|----------------------------------|-------------------------------|----------------------------------|
| | 11 12 | 3 5 13 14 14 S 15 16 | 11 12 | 3 5 13 14 14 S 15 16 |
| Packing unit | 5 | 5 | 5 | 5 |
| Weight (kg) | 1 | 1 | 1 | 1 |
| Order no. | 4012868 | 4012870 | 4012867 | 4012869 |

| | | | | |
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