

# KONTREC® KON-S Oil-water-separator

for the treatment of compressor condensate from  
compressed air and gases



Rev 01\_0125



## Simple and ingenious

The physical properties of most compressor condensates allow for highly economical cleaning. These condensates usually occur as an oil-water mixture, and **KONTREC®** quickly and reliably separates the oil content of the condensate from the water content. The water portion (approx. 99%) can be safely discharged into the sewerage system after processing by the KSI oil-water separator. In addition to mineral oils, **KONTREC®** also reliably separates synthetic oils. The special **KONTREC®** design, in combination with the use of optimised components, enables universal use for all types of condensate.

## Tested type approval

The oil-water separators in the **KONTREC®** series have also scored highly in the latest, even more stringent tests by the German Institute for Building Technology (DIBt) and have been awarded the seal of approval without restriction.

## THE KONTREC® Plus effects +++

- + Guaranteed, legally compliant condensate separation
- + No use of activated carbon
  - Easy handling due to weight reduction
- + Simple installation, easy maintenance
  - time savings during service
- + Space-saving, compact design
- + Series with four different models up to 56 m<sup>3</sup>/min compressor capacity
- + For time-controlled and level-controlled condensate drains

This continues to ensure that all compressor condensates - even stable emulsions - are separated by devices from the **KONTREC®** series in accordance with legal requirements. In addition, the new approval proves that there will be no reduction in capacity in the future and therefore no need to reinstall a larger oil-water separator.

# KONTREC® Oil-water-separator



## The functional principle

The condensate (often together with some compressed air, depending on the type of condensate drain used) is discharged at the top of the appliance. A generous cavity is provided to depressurise the compressed air so that it can safely and quietly escape from the appliance through coalescing filters that remove oil mist from the exhaust air stream. From this point, the untreated condensate is channelled into the first filter stage of the process. In the following first cleaning stage, a shredded polypropylene filling in the primary filter ensures effective adsorption & coalescence effects. Free oil and emulsified oil components are separated very quickly by this direct separation. Solids are ultimately bound in the lower area of the primary filter to ensure a high level of safety for the flow through the **KONTREC®** secondary filter in the second cleaning stage. This secondary protective filter made of granulated polypropylene removes the last oil particles and guarantees the discharge capability of the water.

## Pressure relief

In the **KONTREC® S2** the incoming condensate is channelled directly via the cover into the upper filter insert of the replaceable cartridge. It passes through three layers of a foam disc, which completely separates the condensate from the air. The condensate flows smoothly over the surface of the filter material, while the air slowly escapes at the top of the appliance through large ventilation openings.

In the **KONTREC® S5** and all larger models, the first filter (primary bag) performs the function of separating condensate and incoming air. This filter is encapsulated in a permeable felt material that retains solid particles that could otherwise impair the subsequent process steps. Partial depressurisation of the air takes place inside the felt bag. The remaining space in the moulded part provides additional room for expansion so that the exhaust air is cleaned, depressurised and calmed before it escapes through the large ventilation openings on the upper sides of the device.

► **KONTREC®** is the ideal complementary solution to the **KONDRAIN® N** KSI condensate drain. For economical and ecological condensate management.

## Invest less, achieve more

**KONTREC®** helps in many ways:

- + Discharge condensate in accordance with the law
- + Avoid energy costs
- + Save space thanks to its compact design
- + Minimise operating costs and effort

## Series

KONTREC® KON-S

## Technical features

- + Easy to service thanks to simple element replacement
- + Test drain for easy checking of the condensate status
- + Four condensate inlets (KONTREC® S5-28)
- + In two versions:
  - **Standard:** for mineral lubricants
  - **K-Typ:** for synthetic lubricants and stable emulsions
- + with **general building authority approval**

 Deutsches  
Institut  
für  
Bautechnik

DIBt



## Oil-water separator

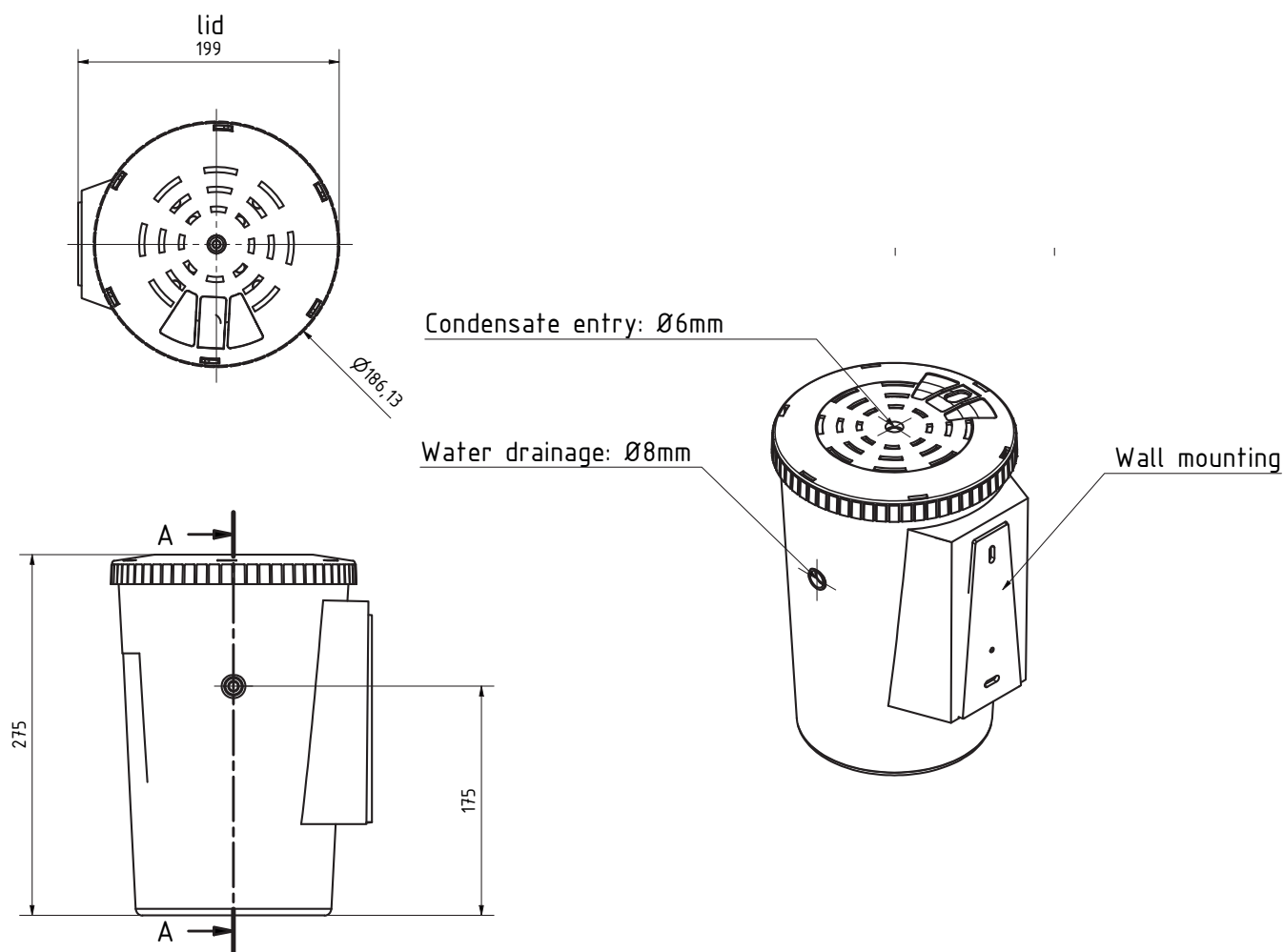
Type	Capacity*		Connection	Connection	Connection	Filter sets	max. oil adsorption
	m³/min	cfm	Inlet	Outlet	Sample collection	Quantity	kg
KON-S2	2,1	75	6 mm hose connection	8 mm hose connection	-	1x KON-Kit2	1,5
KON-S5	4,2	150	4 x 1/2"	1/2"	1/4"	1x KON-Kit5	3,1
KON-S13	12,7	450	4 x 1/2"	3/4"	1/4"	1x KON-Kit13	9,2
KON-S28	28,3	1000	4 x 1/2"	3/4"	1/4"	1x KON-Kit28	20,4
KON-S56*	56,6	2000	2x (4 x 1/2")	2x 3/4"	1/4"	2x KON-Kit28	40,8
KON-S2-K	2,1	75	6 mm hose connection	8 mm hose connection	-	1x KON-Kit2-K	1,5
KON-S5-K	4,2	150	4 x 1/2"	1/2"	1/4"	1x KON-Kit5-K	3,1
KON-S13-K	12,7	450	4 x 1/2"	3/4"	1/4"	1x KON-Kit13-K	9,2
KON-S28-K	28,3	1000	4 x 1/2"	3/4"	1/4"	1x KON-Kit28-K	20,4
KON-S56-K*	56,6	2000	2x (4 x 1/2")	2x 3/4"	1/4"	2x KON-Kit28-K	40,8

\*please order 2x KON-S28 / KON-S28-K

## Filter sets

Type	consisting of		
	Primary filter	Secondary filter	Tertiary filter
KON-Kit2	1 piece	1 piece	-
KON-Kit5	1 piece	1 piece	-
KON-Kit13	1 piece	1 piece	-
KON-Kit28	1 piece	1 piece	1 piece
KON-Kit2-K	1 piece	1 piece	-
KON-Kit5-K	1 piece	1 piece	-
KON-Kit13-K	1 piece	1 piece	-
KON-Kit28-K	1 piece	1 piece	1 piece

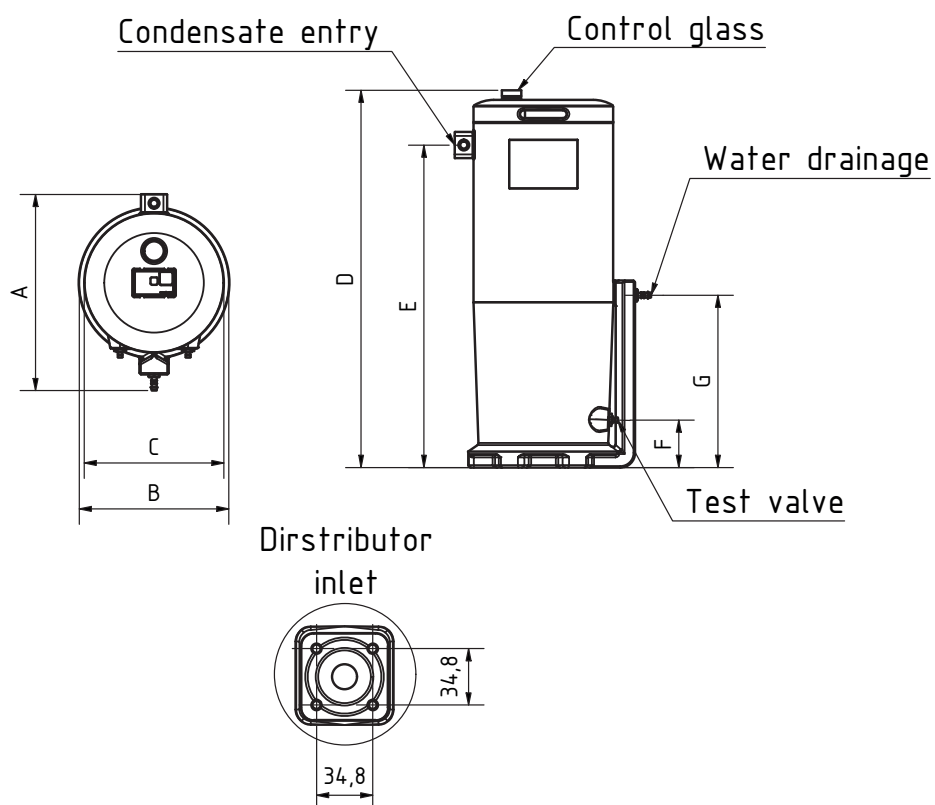
## KONTREC® S2



## Specifications

Residual oil content	<10 mg/l
Mineral lubricants	Standard type
Synthetic lubricants	K-type
Stable emulsions	K-type
Housing material	ABS, completely recyclable
Type approval	Yes (No. Z-83.5-94)
Weight incl. filter set (dry) in kg	1,4

## KONTREC® S5-28



	KON-S5	KON-S13	KON-S28
A in mm	319	404	494
B in mm	220	308	400
C in mm	203	288	377
D in mm	577	777	997
E in mm	465	665	885
F in mm	92	98	98
G in mm	245	355	436
Weight incl. filter set (dry) in kg	3	6	11,5

Specifications	
Residual oil content	<10 mg/l
Mineral lubricants	Standard type
Synthetic lubricants	K-type
Stable emulsions	K-type
Housing material	PE, completely recyclable
Type approval	Yes (No. Z-83.5-94)

# KONTREC®

## Oil-water-separator



### Options

#### Collection tray for oil-water-separators



KON-AW60



KON-AW120

#### Control glass



KON-KG\*

\* included in the scope of delivery of KON-S5[-K], KON-S13[-K] & KON-S28[-K]