

Condensate Treatment AQUAMAT Series

For compressor flow rates up to 100 m³/min



AQUAMAT series

Condensate treatment pays off

systems from KAESER KOMPRESSOREN help make a real difference. cumbersome and expensive. This alone is reason enough for compressed air systems operators to treat accumulated condensate in accordance with applicable regulations. This is where AQUAMAT condensate treatment Increasingly strict environmental regulations make disposal of untreated condensate from compressor stations

Why treat condensate?

sion. It is a chemically aggressive fluid that mainly in regulation limits (e.g. 10 or max. 20 mg/litre for KAESER KOMPRESSOREN do precisely that: they AQUAMAT condensate treatment systems from prescribed safety levels regarding purity. that contaminated water must be treated to achieve in its raw state. Water resource legislation stipulates quently cause serious environmental harm if released ticles. This combination of substances can conseconsists of water, but also contains oil and dirt par-Condensate is an unavoidable result of air compres ensure that contaminant levels are kept well with-

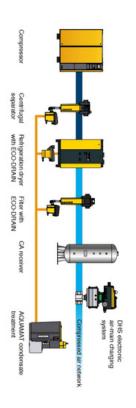
Cost-saving treatment

cost of hazardous waste treatment and disposal in-house and thereby greatly reduce the overall sor operators to treat compressed air condensate The AQUAMAT treatment system allows compres-

> Condensate treatment with the KAESER AQUAMAT highly effective treatment systems is therefore quickly dispose of all of the condensate. Investment in these that would be required for a specialist company to system saves up to 90 percent of the disposal costs returned through the resultant savings.

treatment Tested and certified condensate

state-of-the-art condensate treatment. This not only and Technology, the AQUAMAT system provides but also provides considerable benefits for the enviwith significantly reduced waste treatment costs, assures outstanding system performance coupled Tested and certified by the Berlin Institute for Design



All collection points must be fitted with a reliable means of draining condensate Best results are achieved with an electronically controlled condensate drain.

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Minimises costs!





AQUAMAT series

Tested and certified condensate treatment



High performance filter material

All pre- and main-filter cartridges feature high performance filter material (not activated charcoal). Furthermore, the upstream separation reservoir with gravitational pre-separation enables maintenance intervals to be significantly extended and enhances



Clean filter change

Removal of the main filter cartridge is made simple via the convenient lifting handle. The filter can then be easily fixed to the AQUAMAT casing to drain. Filter changes are therefore quick and clean. Pre-scaking of the new filter is not necessary.



Clearly visible alarm indicator

A raised float indicates "Alarm", which means that the filter should be replaced as soon as possible. Users can check operation of the AQUAMAT by referring to the cloudiness test containers and can consequently schedule maintenance as necessary (Recommendation. Check operation 1x per week).



Multiple inlets

Up to four condensate lines can be connected as standard (from the AQUAMAT CF 9 upwards). Plugs for blocking off unused connections are included within the scope of delivery.

Technical specifications

System design

- Pressure relief chamber
- Pre-separation tank Removable particle catcher
- Oil collection container
- Main filter cartridge Prefilter
- Water outlet
- Drain for reference condensate cloudiness test

chamber (1). There, the pressure is released without creating turbulence in the downstream pre-separation tank (2), Larger contaminant particles are hald back by the emorable particle cather (3). As a result of granishoral setting in the separator tank, oil accumulates at the lop, from where it thins into the Under pressure, the oil containing condensate enters the pressure relief overflow-sate oil collection container (4). The partially cleaned condensate

than flows through to the filter step. The profiler (§) then brods the remaining of particles within Sa madeal Condenses from though their from the reside contracts in order to achieve optimum expectation results. Any remaining oil is cuplured by the main filter carridge (6). What remains is waster that can be desired of to the westerwise system. The sexual condenses is desired from the ordered or to the westerwise system. The sexual condenses is desired from the AGUAMAT via the water outlet (7).

Top view

Views

Ester

compressors and oil type in climate zone 3" Max. flow rate from single-idual-stage reciprocating P M

5 4 5

32 8 4

4.9

9.7

16.9

33.8

1 1 83

Prefilter

Main filter Filling volume Tark size (volume)

ondensate inlet connection

2x DN 10 DN 10

DN 10 2x DN 10

> 1x DN 25 3x DN 10

1x DN 25

3x DN 13, 1x DN 25

3x DN 13, 1x DN 25

3x DN 13, 1x DN 25

DN 30

3x DN 10

26 25 43 7 2 5

4.8

5.9 25

11.0 61.3 46.3

20.4 18.5 115.5 17.2

40.3

228.4 158.8 37.2

30 610 8

720 1 88

Ester PAO M

m³/min m³/min

28 29

4 3 43

87 83

33 34.4

5

18.6 11.7 4.7

Max. flow rate from single-idual-stage reciprocating compressors and oil type in climate zone 2"

PAO M

5 5 5

37 38

5 4 9

9.8

223

38.8

1 1 24

Max. flow rate from single-idual-stage reciprocating compressors and oil type in climate zone 1*

M

S-460, MOL, MOH, PMO, VCL

216

42

62 8

9.6

24.9

497

88

and oil types in climate zone 3"

Max. flow rate for oil-cooled screw / rotary compressors

λ

m³lmin

24 19

4 38

7.3

14.6

283

8 8

8 8

S-460, MOL, MOH, PMO, VCL and oil types in climate zone 2*

Max. flow rate for oil-cooled screw / rotary compressors

m³lmin

28

55 42

00 G

16.9

33.6

51.8

8 8

S-460, MOL, MOH, PMO, WCL

Max. flow rate for dil-cooled screw / rotary compressors and oil types in climate zone 1*

CF 3

CF6

CF9

CF 19

CF 38

CF 75

CF 168

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		¥				Left view	
-8-		Ĭ		- 8-		Top view	
	Aquamat CF 75	I S	Aquamat CF 19	A	Aquamat CF 6	Front view	
i		12		_==-		Left view	
		1 00				-	

-:-

Electrical correction Heating capacity Thermostatically controlled heating Dimensions W x D x H Oil collection container Connection, oil drain Service valve connection Water outet connection

8 ≥

0,04

0,4

_ -

= =

2 2

230V/1Ph/ 230V/1Ph/ 50-60Hz 50-60Hz

230 V / 1 Ph / 230 V / 1 Ph / 50-60 Hz 50-60 Hz

50-60 Hz

230 V / 1 Ph / 50-60 Hz

m ĕ

290 x 222 x

387 x 254 x 595

3,5

5,8

13,5

18,5

36,5 DN 40 DN 13 DN 40

8

8

2×51 DN 25 DN 13 DN 25

2×51 DN 25 DN 13 DN 25

2 x 10 l

DN 40 DN 13 DN 40

2×301

DN 30 DN 13

istans such a compessor type and oil bould be taken file consideration when selecting AGLAMAT condensate teatment appears. PLEASE NOTE: Feels of Linkowled compressors and mush stage recipionating compressors are given to emission formation. Fasses etima KAESER regarding the sectional specialisation of puro compressor(s) to obtain an individual ACLAMAMT recommendation.

**Charlet zone

Totalet zone

Genda, Northern Elsoye, Clanda, Northern USA, Central Asiaj, 2 - Temperate (Central and Southern Europe, some parts of South America, North Africa),
3 - Manied (South-East Asian coastal regions, Central America, oceanic, Amazon and Corgo regions)

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1 to 1

500

KAESER - The world is our home

As one of the world's largest compressed air systems providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners in over 100 countries.

With innovative products and services, KAESER KOMPRESSOREN's experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency. Moreover, the decades of knowledge and expertise from this industry-leading system provider are made available to each and every customer via the KAESER group's global computer network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that all products operate at the peak of their performance at all times and provide maximum availability.







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