Type series	Product data sheet - Version 05.2021
AE-350-A	**Vacuum leak detector, electronic type Eurovac HV in protective housing with heater/horn**

EQUIPMENT

Krampitz®

CUBIC GOOD

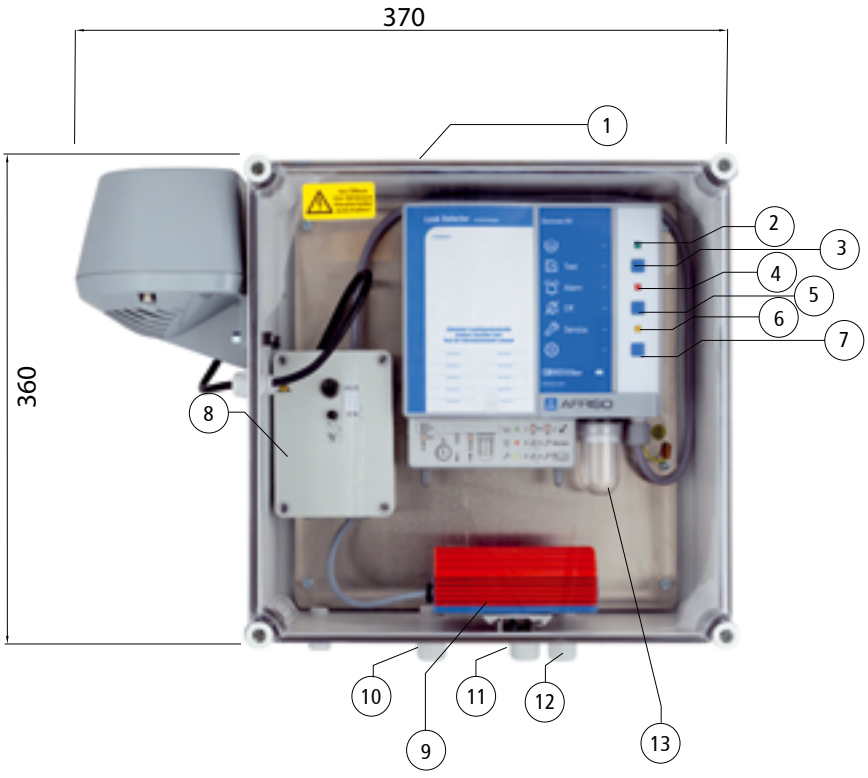
The Eurovac HV vacuum leak detector in protective casing (IP 55) with heater and horn is a leak detector for negative pressure according to EN 13160-1 class I. Thanks to the protective housing and heater, the leak detector is usable until -25 °C and is thus recommended for outdoor tank installation. The Eurovac HV leak detector is exclusively suitable for the indication of leaks on containers that are operated without pressure, i. e. under atmospheric conditions, for the storage of liquids.

Areas of use for the Eurovac HV vacuum leak detector:

- double walled containers made of steel according to EN 12285-1/-2, DIN 6618-2/-4, DIN 6619-2, DIN 6623-2, DIN 6624-2, DIN 6608, DIN 6616, DIN 6625 with suction line led to the lowest point
- containers, single or double walled with leak protection lining or leak protection jacket , made of steel or plastic with suitable interstitial space according to EN 13160-7.
- liquids hazardous to water with a flash point > +55 °C, which do not become viscous and do not excrete solids
- AdBlue® (urea solution 32,5 %) according to DIN 70070
- monitoring of other media (e. g. lubrication and hydraulic oils, grinding coolants, brake fluid, etc.)

The Eurovac HV leak detector **must not be used in the following cases** in particular:

- explosive environments - in potentially explosive areas, sparking can lead to deflagration, fire or explosions
- use of aggressive liquids that attack the materials used in the vacuum leak detector
- in conjunction with devices that directly or indirectly serve human, health or life-safety purposes or whose operation may cause danger to people or animals
- electrical connection with switches or plugs - if the leak detector is accidentally disconnected from its power supply it no longer performs a monitoring function



1	protective housing IP 55
2	green LED „Operation"
3	button „Test"
4	red LED „Alarm"
5	button „Acknowledge"
6	yellow LED „Service"
7	button „Set"
8	acknowledgement switch for horn
9	heater with thermostat
10	measuring line
11	exhaust line
12	suction line
13	condensate vessel with dirt filter

The Eurovac HV vacuum leak detector creates a constant negative pressure in the surveilled area of the tank and gives off an alarm signal if the negative pressure drops. The Eurovac HV with display and control elements, a vacuum pump, a pressure switch, a filter and three hose connections for the pneumatic connection with the interstitial space of the tank, is encased in a protective housing (IP 55) with heater and thermostat. This ensures the leak detector's functionality up to -25° C.

Please note: In case of outdoor tank installation, this leak detector with protective housing and heater is strongly recommended. Installation, maintenance, repair and cleaning may only be carried out by specialist companies in accordance with the WHG.

Materials		Documentation	Page
PVC, silicone, ABS, NBR PA6, EPP, EPDM		operating instructions 1x English	1 of 2

Technical details subject to change!

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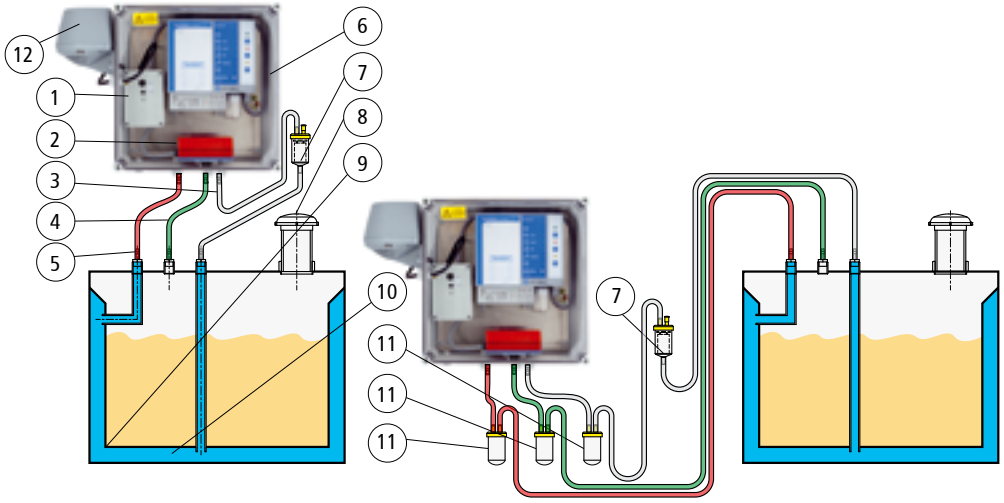
Functionality

Via the suction line, the vacuum pump installed in the leak detector generates a negative pressure in the vacuum range in the supervised area of the tank. The pressure switch measures the negative pressure in the interstitial space via the measuring line and keeps it constant in interaction with the vacuum pump. If a leak occurs in the tank wall or in the leak protection lining (in the inner or outer shell of the tank) above or below the level of stored goods or groundwater that is larger than the suction capacity of the vacuum pump, the negative pressure drops. When the alarm switching point is reached, the red „Alarm" LED and the acoustic alarm activate and the output relay pulls in. The acoustic alarm can be switched off by pressing the „Acknowledge" button.

Examples of application



Pos.	Description
1	electrical connection
2	heater with thermostat
3	clear: suction line
4	green: exhaust pipe
5	red: measuring line
6	housing
7	liquid stop valve
8	tank ventilation
9	tank shell
10	interstitial space
11	condensate vessel
12	horn

Technical data	
weight	1,3 kg
emissions	min. 70 dB(A), A-weighted sound level of the acoustic alarm at a distance of one metr
output relay	1 switch
switching capacity output relay	max. 250 V, 2 A, ohmic load
relay safety	T 2 A
operating pressure inside of the interstitial space	appr. -400 mbar
switching point alarm on	-340 ± 10 mbar
switching point alarm off	-380 ± 10 mbar
switching point pump on	-380 ± 10 mbar
switching point pump off	-420 ± 10 mbar
connecting tube	PVC tube 6 x 2 mm
Operating temperature range	
surrounding area	-25 °C bis +60 °C
storage	-25 °C bis +60 °C
Power supply	
nominal voltage	AC 100-240 V ± 10 %
rated power	< 10 VA
Electrical safety	
protection class	II EN 60730-1
protection type	IP 55 EN 60529

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PVC, silicone, ABS, NBR PA6, EPP, EPDM		operating instructions 1x English	2 of 2

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