



FA SERIES

ZERO AIR LOSS AUTO DRAINS.



FA Series Zero Loss Auto Drain's Feature

Economical:

The intelligent control avoids unnecessary loss of compressed air, thus permitting considerable energy savings.

Reliable functions:

The non - wearing capacitive sensor registers every type of condensate - including pure oil. Condensate discharge is no problem even with heavily contaminated condensate.

Safe:

Constant self - monitoring secures reliability. an LED display always indicates the current operating state. A functional test can be carried out at any time by pressing the TEST button. A potential-free contact makes it possible to relay fault signals to a control center. All the operator's elements and the electronic control are splash-proof and comply with IP65 protection rating(IP54 for FA11~FA13).

User-friendly:

The electronic system consists of an integrated power unit and a control with accessible 24 V direct current. After pulling the plug in connector to separate the device from the power unit, maintenance work on the device can be performed without danger. This means a qualified electrician is no longer necessary after the initial electrical installation.

Easy installation:

The connection to the compressed air system is quite simple, because the inlet and outlet of the FA11 ~ FA13 unit are in alignment.

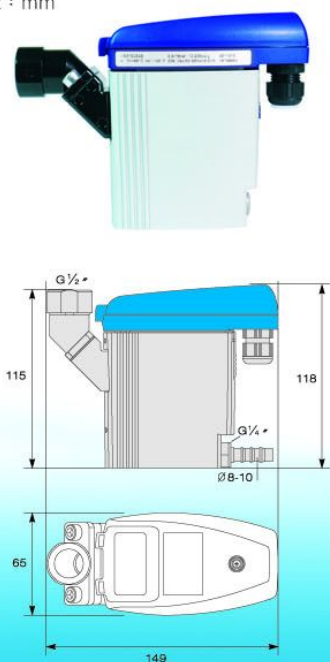
Discharge can be arranged either through a hose or piping.(refer pic1)

(pic1)



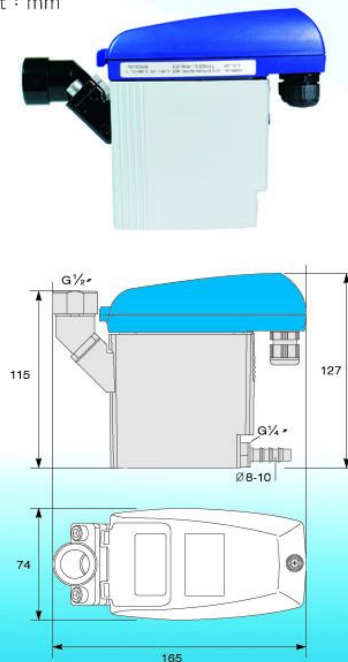
FA11

Unit : mm



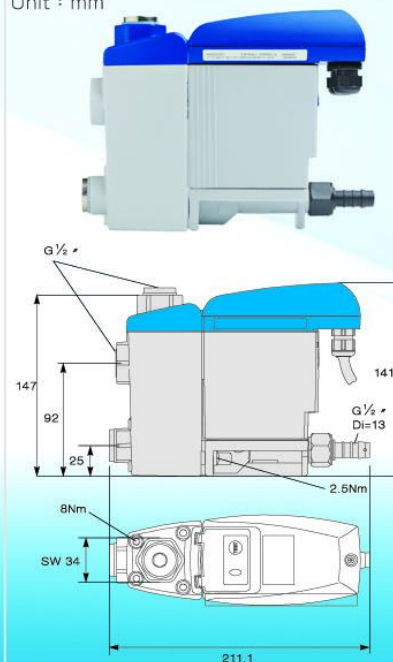
FA12

Unit : mm



FA13 . FA13H

Unit : mm



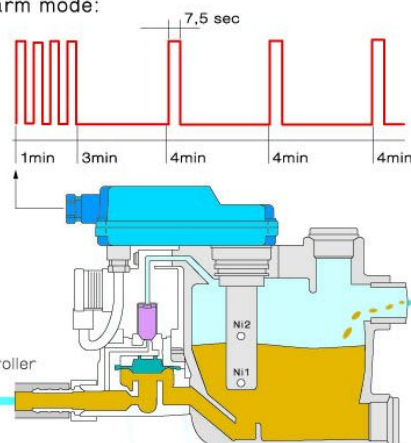
the FA alarm function(FA21 above)

When the condensate cannot go out the FA will automatically change to the alarm mode:

If the FA stays in the alarm mode (malfunction not cleared automatically or by maintenance) the solenoid valve will be actuated every 4 minutes and opens for 7.5 seconds → closes again → opens after 4 minutes for 7.5 seconds → closes again → opens after 4 minutes...until switch to normal mode.

This is an absolute important feature beneath draining on demand, no air loss, reliability:

The customer can be sure that in case of whatever malfunction in this position the FA will recognize it and you can pick off and use the alarm signal via potential-free contact to put on a central alarm / safety device system.



(P1) LED ● red : Alarm ● yellow : Test ● green : Power

(P2) Microcontroller

South East Asian coastal regions, Amazon and Congo regions
Central and Southern Europe , Central America
Northern Europe , Canada, Northern USA, Central Asia

H: coating & Max Pressure to 16bars
H2: coating & Max Pressure to 25bars
H4: coating & Max Pressure to 40bars
H6: coating & Max Pressure to 63bars

Model	FA11	FA12	FA13	FA13H	FA21	FA21H	FA21H6	FA31	FA31H	FA31H2	FA31H4	FA51	FA51H	FA51H2	FA81H
operating pressure min.	0.8														
operating pressure max.	16	16	16	16	16	16	63	16	16	25	40	16	16	25	16
application	OIL / OILFREE	OIL / OILFREE	OIL / OILFREE	OIL / OILFREE	OIL	OIL / OILFREE	OIL / OILFREE	OIL	OIL / OILFREE	OIL / OILFREE	OIL / OILFREE	OIL	OIL / OILFREE	OIL / OILFREE	OIL / OILFREE
Weight(kg)	0.8	1	1.65	1.65	0.8	0.8	0.9			2			2.9		5.9
Peak compressor performance m³/min	1.5	3.5	7	7	4	4	4	20	20	20	20	90	90	90	1000
peak refrigerant dryer performance (only with pre-separation) m³/min	3	7	12	12	8	8	8	35	35	35	35	150	150	150	1700
peak filter performance (behind dryer) m³/min	15	35	70	70	40	40	40	200	200	200	200	900	900	900	
	25	56	100	100	65	65	65	300	300	300	300	1300	1300	1300	
	30	70	120	120	80	80	80	350	350	350	350	1500	1500	1500	

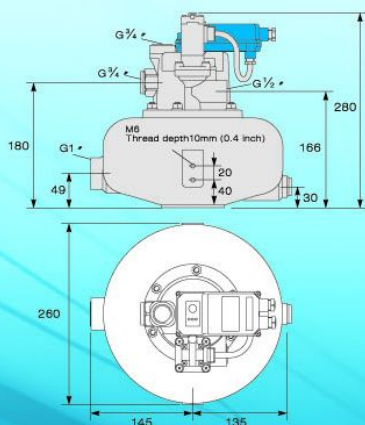
*use on receiver tank's capacity equal to compressor's capacity

*Specifications and descriptions herein may change without notice

FA81H

Option:

Unit : mm



FA condensate drains are designed for different compressed air applications and operating pressure. Condensate drain FA 21 to 81H are available as aluminium units for oil-contaminated condensates and may also be provided with additional hard coating for "oil free" and aggressive condensates.

Special FA models available for:

- extremely aggressive condensates
- areas with potentially explosive atmospheres
- low pressure and vacuum conditions
- discharge during no-load operation with multi-stage compressors

Aluminum
Hard-Coated



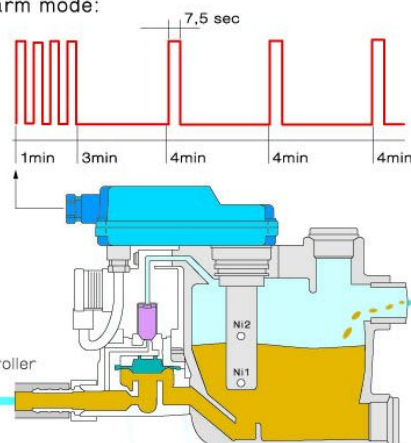
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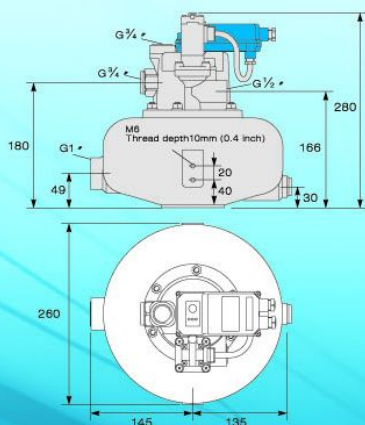
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