

COMPRESSED AIR FILTER/DRYER

MODELS: SF-B25-¼ SF-E625-1½
 SF-A38-½ SF-D832-2
 SF-C418-1

READ OPERATING INSTRUCTION AND PRODUCT BULLETIN BEFORE STARTING INSTALLATION.

SAFETY

1. Filter/dryer has a maximum pressure rating, which depends upon basic model and high pressure option. The drains have a separate and distinct maximum pressure rating. Refer to drain operation for maximum pressure ratings. The lower rating of the filter/dryer or the drain will determine the maximum pressure to which the assembly can be exposed.
2. When installing or servicing replacement element the air compressor should be off and air lines relieved of all pressure.
3. Unit should be installed in pipe line of same size or smaller than inlet/outlet connection. Also, maximum flow capacity, SCFM or CFM should not be exceeded. Refer to Table 'A'.

FILTER / DRYER MODEL	SCFM @ 150 PSI	MAX PSI	PRESS. DIFF. @ 150 PSI & MAX. SCFM	CONN NPT
SF-B25-¼	7	250	3.5 PSI	¼"
SF-A38-½	30	250	4.0 PSI	½"
SF-C418-1	70	250	3.5 PSI	1"
SF-E625-1½	150	200	3.5 PSI	1½"
SF-D832-2	550	150	11.0 PSI	2"

TABLE 'A'

INSTALLATION

1. Unit should be installed at maximum distance from compressor and close to point of air usage. This allows the benefit of ambient cooling of the air so the condensate can be removed at the first stage centrifuge.
2. Install in a cool environment rather than a warm one. Pressure gauge on inlet is recommended.
3. If subject to freezing temperature the heated automatic drain is required or wrap with heating cable and insulate.
4. Install in vertical position with inlet at bottom. Model B25-¼ has outlet in cover and should be installed with a union at the outlet to facilitate servicing.
5. Unit pipe size, for inlet and outlet, is last number in Model Number. Also refer to Table 'A'.
6. Install line size ball valve on inlet and outlet to facilitate servicing.
7. Tighten and check inlet and outlet connections. Be sure all are pressure tight.
8. Install drain. Refer to Table 'B' for specific model.
9. Check that cover clamp is tight.
10. Start compressor and turn on air supply and verify that maximum air pressure is within safe limits.
11. Locate Filter/Dryer to serve an area or department of air uses. Refer to Page 3, for suggested installation schematics.

DRAINS

Drain Models: MM, MAD for Filter/Dryer B25-¼

Thread nipple into adapter plate then thread into bottom of filter/dryer. Slip lock ring over drain assembly and tighten ring to adapter plate. Slip lock ring over drain assembly and tighten ring to bottom of filter/dryer.

Drain Models: MM, MAD for all other Filter/Dryer Models

Slip lock ring over drain bowl and thread onto bottom of filter/dryer. Make connection pressure tight.

Drain Models: AD-HDM for all Filter/Dryer Models

Fittings provided to connect drain inlet to bottom of dryer.

Drain Models: ADE & ADEH for all filter/Dryer Models

Refer to Page 3

DRAIN MODEL	DESCRIPTION	
MM	Metal Manual:	Metal bowl with sight bubble & petcock. Push button drain. 250 PSI
MAD	Metal Automatic:	Metal bowl. Float operated drain. 175 PSI
AD-HDM	Heavy Duty Automatic:	Metal housing. Float operated drain. 250 PSI
ADE	Electric Automatic:	90 sec nonadjustable timer, 115V/1/60 175 PSI
ADEH	Heated Electric Automatic:	Same as ADE except with 115V/1/60 heater. 175 PSI

TABLE 'B'

- A. MODEL MM
Press bottom pin upwards to cause drain bowl to discharge liquids.
- B. MODEL MAD
Float activated pin will cause drain bowl to discharge liquid automatically. Push drain sideways for manual override.
- C. MODEL AD-HDM
Thread nipple into drain elbow and underside filter/dryer. Drain will automatically discharge collected liquid via internal float. Manual operation is accomplished by depressing red button in bottom brass assembly.
- D. MODEL ADE
Thread drain into underside of filter/dryer. Remove 1/8" plug from filter/dryer body and install hose adapter. (for B-25-¼ models install adapter in tee on filter/dryer discharge pipe). Connect pilot hose between two adapters. Connect line cord to 115V outlet. Drain will discharge collected liquid for ½ second duration each 10 minute cycle. Manual drain valve at underside of assembly allows checkout to assure proper operation.
- E. MODEL ADEH
Installation is same as above except connect heater line cord to 115V outlet. Heater is thermostatically controlled to be on at 38°F and off at 43°F.

PERFORMANCE

To determine performance, refer to Technical Bulletin TK-100. For given inlet temperature and pressure conditions the unit will provide atmospheric (zero PSI) or pressure dew point as given on the table. These dew point temperatures are the condition at which moisture will condense in the air discharge line. If your filter/dryer is not performing satisfactorily, verify actual operating conditions, such as pressure, temperature, point of installation, air flow rate, etc, and then consult factory. If inlet air temperature is excessively high, an after cooler may be required. Consult factory for details.

ELEMENT SETS

DEHYDRATED CLAY

Element set includes desiccant media packaged in polypropylene bag, one micron filter pads, 'O'-ring seal and instructions. A dehydrated clay desiccant which draws out water and oil vapors hydrophilically thereby lowering the dew point. Pressure dew point is lowered approximately 25°F below the entering air temperatures. Replace at 3-6 month intervals or when near totally saturated.

MOLECULAR SEIVE

A special high performance media where exceptionally dry air is required. Pressure dewpoint is lowered approximately 80°F below the entering air temperature. For use with oilless compressors only. Replace at 3-6 month intervals or when near totally saturated.

DEHYDRATED CLAY/CARBON

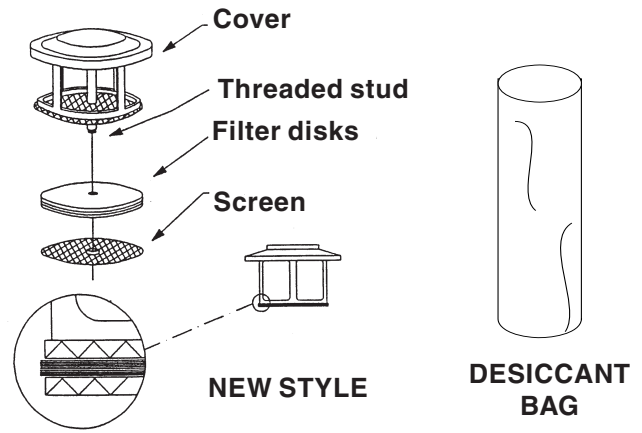
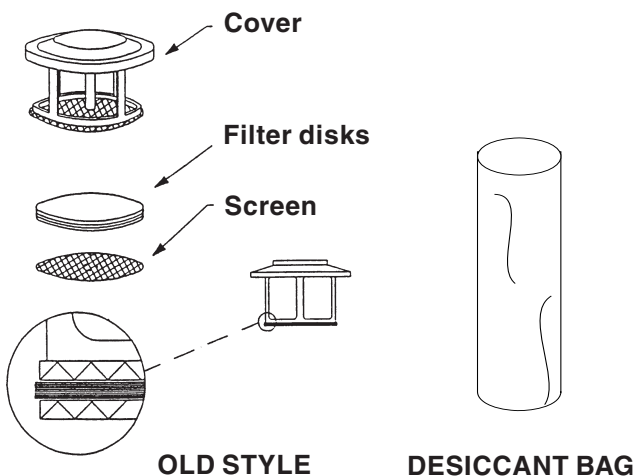
Combination media bag removes rough materials, water, oil aerosols & other solvents

REPLACEMENT OF ELEMENT SET

(Units purchased prior to June 1993.)

Refer to Table 'C' for proper replacement element set. The dryer element, one micron filter pads and "O"-ring constitute the element set. Initial inspection of the element bag should be made after the first two months of service.

Condition of bag and saturation level will disclose if additional service life is possible, or if the bag should be replaced. Always replace filter pads and 'O'-ring when replacing element bag.



1. Shut off air supply.
2. Relieve pressure from system and drain.
3. Remove cover clamp and cover.
4. Remove spacer, screen assembly and old element set.
5. Wipe inside of housing.
6. Tip contents of new bag toward top, insert battery and slide into housing.
7. Install screen, filter pads, screen and spacer.
8. Install new 'O'-ring.
9. Replace cover and tighten cover clamp.
10. Reconnect air supply.

FOR MODEL	REPLACEMENT ELEMENT SET		
	DEHYDRATED CLAY	MOLECULAR SIEVE	DEHYDRATED CLAY/CARBON
	PRICE CODE NUMBER		
SF-B25-¼	79-0071A	79-0021A	79-0006A
SF-A38-½	79-0003A	79-0022A	79-0005A
SF-C418-1	79-0035A	79-0023A	79-0037A
SF-E625-1½	79-0051A	79-0024A	-
SF-D832-2	79-0073A	79-0025A	-

TABLE 'C'

Element sets include desiccant media packaged in polypropylene, one micron filter pads, "O"-ring seal and instructions.

For Kompressed-Air-Konditioners purchased prior to June 1993 drop the 'A' from the Price Code Number of the replacement element.

The buildup of acid in a compressed air system is considerable. Refer to Bulletin K-101 for detailed explanation of this phenomenon. For this reason, the maximum replacement period for an element is 3-6 months. A label, replica below is included with each element set, and should be affixed to the front of the unit with the scheduled replacement date shown.

**THREE MONTH
MAXIMUM CHANGE PERIOD**

Element #418-6-7
Gasket #A418-3

Last change date _____

WATER SEPARATORS

By centrifugal force spins out scale and large particles along with free oil and water. No moving parts or maintenance is required. Installation with an automatic drain is recommended. Bottom drain connection is 1/2" NPT.

AIR PILOT LINE
DRAIN

AIR PILOT LINE
DRAIN

COMPRESSOR TANK DRAIN

Install on compressor drain connection. Automatically drains up to 15 gallons of water and oil per day. Connect air triggered pilot valve to tee connectors in gauge port. Wire timer to 115/1/60.

RELATIVE HUMIDITY INDICATOR

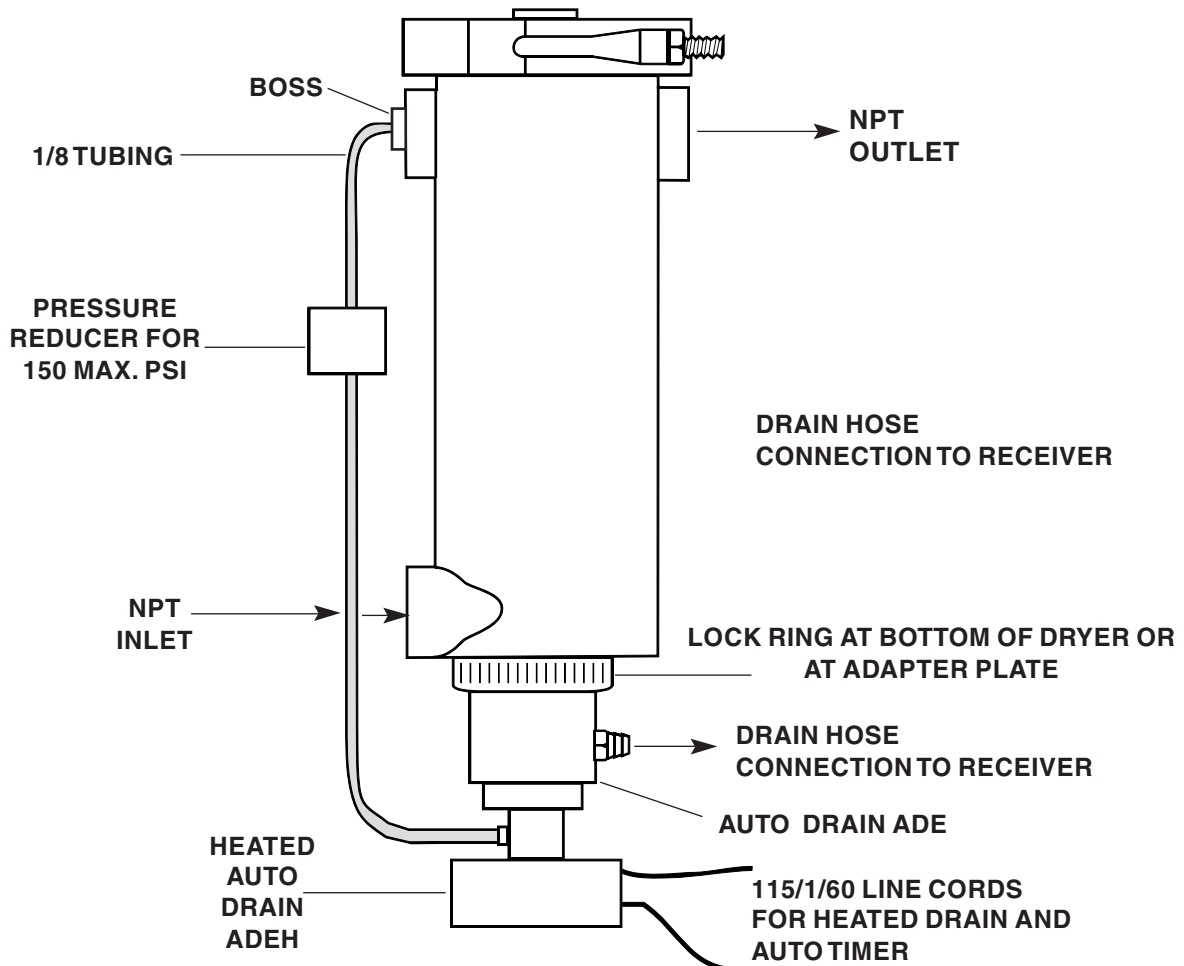
Monitors the relative humidity on the outlet side of the filter/dryer.

It is a visual indicator with impregnated paper that changes color from blue in the dry state, to pink in the moist state. The indicator is divided into three sections, one of which indicates 20% relative humidity, one 40% relative humidity and one 60% relative humidity.

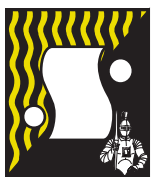
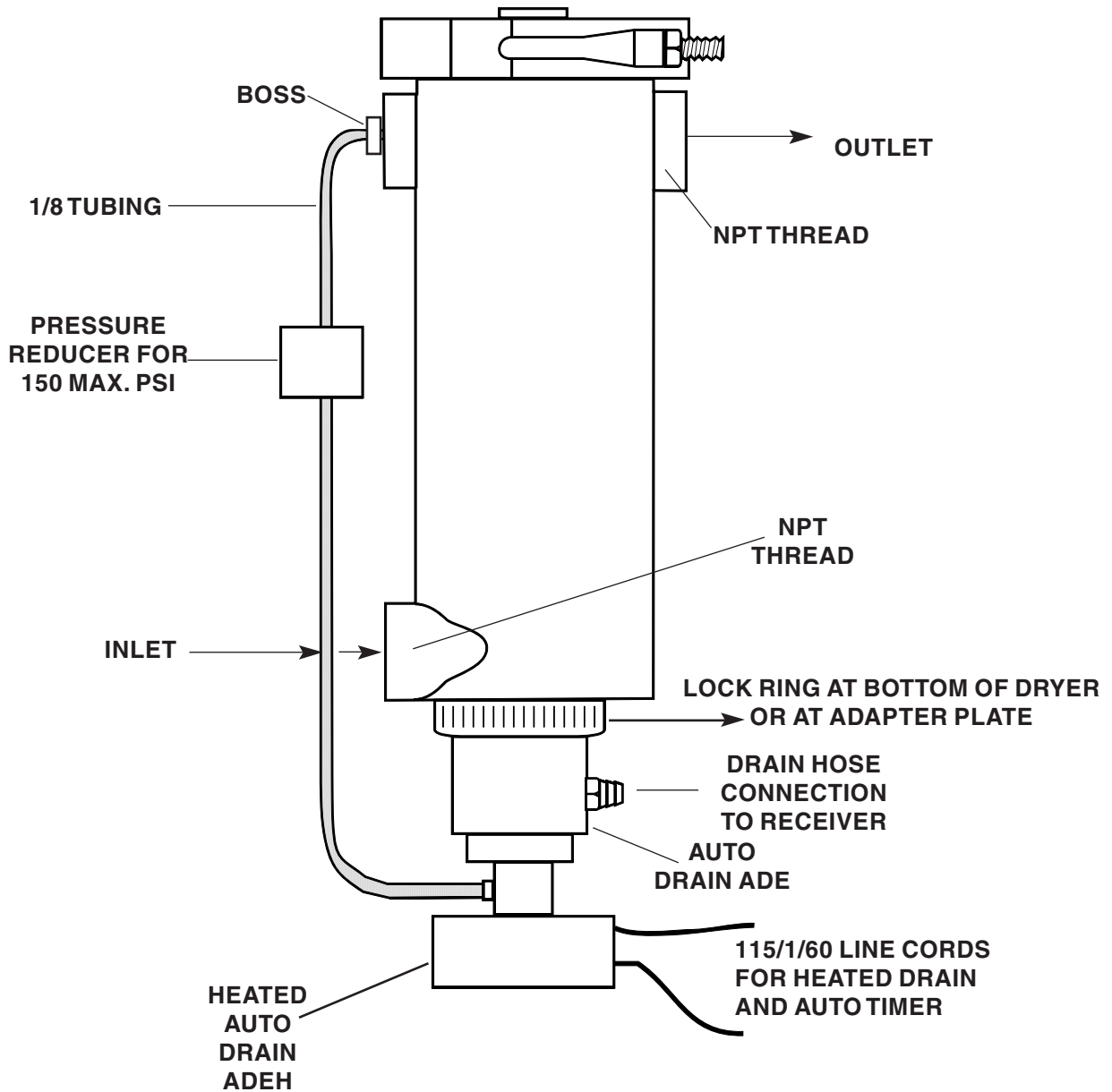
The moisture indicator allows you to monitor the life of the desiccant in the filter/dryer.

MODEL	RELATIVE HUMIDITY INDICATOR	PRICE CODE NO.
RHI-3/4	3/4" NPT	79-0026
RHI-3/8	3/8" Same as above except indicates blue at dry condition and pink at moist condition.	79-0095

FILTER/DRYER WITH HEATED AUTOMATIC DRAIN ADEH



FILTER/DRYER WITH HEATED AUTOMATIC DRAIN ADEH



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