A Spray Painter's Assurance for a Flawless Finish

Has an attempt to achieve a flawless finish ever turned out to be a peeling disaster? An HDF Series compressed air drying system can eliminate that damaging water, dirt, and oil which can ruin your refinish work.

Modern HVLP Spray Gun

State of the art refinish materials and moisture-sensitive pneumatic tools require compressed air treatment. Modern spray guns, particularly HVLP, require greater volumes of air to atomize today's high-solids coatings. Greater volumes of air carry greater volumes of water, oil, and dirt which must be removed.

Increase Body Shop Through-Put

Removing water, oil, and dirt from compressed air can increase the through-put of your body shop by eliminating costly painting rework. The benefits of increased through-put are:

- Increased shop capacity to process more cars
- Helps get on the "preferred" lists for referrals from insurance companies
- Fewer labor hours and materials per paint job
- Better bottom-line for the company

Investing in Compressed Air Treatment Pays Back Quickly

Paint rejects create significant costs to body shops in labor, materials, and through-put delays. These costs can be eliminated by a $400 investment in an HDF Series air treatment system. The savings in the purchase of extra unthinned color-coat paints, thinners, and hardeners will rapidly repay the investment. Some unthinned color-coat paints cost up to $150 per gallon!

Table 1
Calculate the Cost of Paint Rejects

Cost of Labor Materials & Through-Put Delays		Paint Rejects Per Week		Number of Weeks		Cost of Paint Rejects Per Year
$150	x	1	x	52	=	$ 7,800
150	x	2	x	52	=	15,600
200	x	1	x	52	=	10,400
200	x	2	x	52	=	20,800

HDF Series Desiccant Dryer Features

- Produce pressure dew points as low as -40°F (-40°C)
- Rugged powder-painted, corrosion-resistant aluminum housing which can be installed in-line
- Charge of silica gel desiccant adsorbs moisture from the compressed air
- Desiccant change-out indicator offers convenient monitoring of desiccant condition
- Desiccant change-out indicator turns color from blue to white
- Integrated 15 micron cleanable dust filter

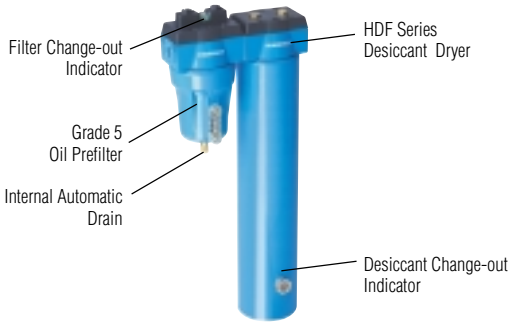
HANKISON

HDF SERIES DESICCANT COMPRESSED AIR DRYING SYSTEM

HDF-F Optional Oil Pre-filtration Package

In many instances where there is a steady compressed air demand, oil prefiltration is highly recommended to increase the life of the dryer's desiccant bed. An HDF-F option is available with all the following pre-assembled features:

- Hankison HDF Series desiccant compressed air dryer
- Hankison HF Series Grade 5 oil filter to 0.01 ppm (0.01 mg/m³) remaining oil content
- Filter element change-out slide indicator based on differential pressure
- Wall-mounting bracket pre-assembled to the dryer
- Modular connection kit provides a space saving connection between the prefilter and the dryer
- Reliable internal automatic drain discharges liquid
- Liquid level indicator on filter



HDF3-F Dryer with Oil Prefiltration Package

Operation

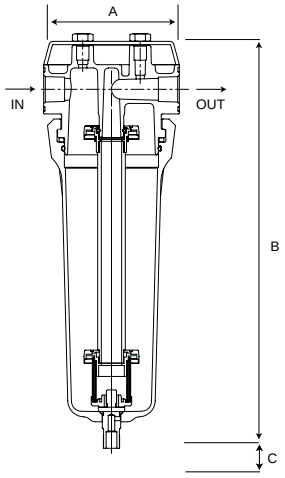
Contaminated compressed air enters the oil prefilter housing and flows from the inside of the element to the outside of the element. The filter element should be changed when the filter element change-out indicator changes from the color green to the color red during usage. Water and oil condensate fall to the bottom of the housing where it is discharged by the automatic drain. The filtered compressed air exits the filter outlet port.

The compressed air enters the desiccant dryer housing and flows downward through a bed of silica gel desiccant. As the desiccant bed gets saturated, the color of the desiccant change-out indicator changes from blue to white. At the bottom of the housing, the compressed air flows upwards through an integrated dust filter and into an outlet air stem which takes it to the outlet port of the dryer housing.

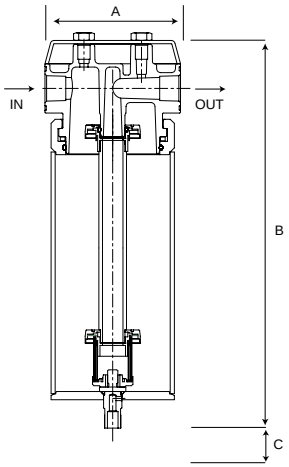
Table 3
Silica Gel Desiccant Charges

Dryer Model	Silica Gel lbs (kg)	Kit Model*	Replacement Silica Gel Kit
HDF1	1 (0.45)	HSG1	Two x 1 lb (0.45 kg) bags
HDF2	2 (0.9)	HSG2	Two x 2 lb (0.9 kg) bags
HDF3	4 (1.8)	HSG3	Four x 2 lb (0.9 kg) bags
HDF4	6 (2.7)	HSG4	Six x 2 lb (0.9 kg) bags

* Each Silica Gel kit is made for two complete recharges of desiccant



MODEL HDF1



MODELS HDF2, HDF3, HDF4

Table 2
Specifications

Model	Flow Capacity scfm (m³/hr) @ pressure shown 80 psig (6 bar)	100 psig (7 bar)	150 psig (10 bar)	Inlet/Outlet Connections	Housing Dimensions in (mm) A	B	C*	Weight lb (kg)	Optional Oil Prefiltration Package
HDF1	4.1 (7.0)	5.0 (8.5)	7.2 (12.2)	1/4"	4.12 (105)	12.62 (321)	3.0 (76)	13.0 (5.9)	HDF1-F
HDF2	8.3 (14.0)	10.0 (17.0)	14.4 (24.4)	1/4"	4.12 (105)	12.03 (305)	3.0 (76)	15.0 (6.8)	HDF2-F
HDF3	16.5 (28.1)	20.0 (34.0)	28.7 (48.8)	1/2"	4.12 (105)	20.25 (514)	3.0 (76)	19.5 (8.9)	HDF3-F
HDF4	24.8 (42.1)	30.0 (51.0)	43.1 (73.2)	1/2"	4.12 (105)	28.08 (711)	3.0 (76)	22.5 (10.2)	HDF4-F

*Minimum bowl removal clearance
-Maximum Operating Pressure 200 psig (14 bar), Maximum Operating Temperature 125°F (52°C)
-Models HDF1-F, HDF2-F, HDF3-F use filter Model HF5-12-4DPL.
-Model HDF4-F uses filter Model HF5-16-4DPL.
-Mounting bracket part no. 23.4331-01 and modular connecting kit part no. 23.4280.01 are used on all HDF-F models
NOTE: Dimensions and weights are for reference only. Request certified drawings for construction purposes.

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