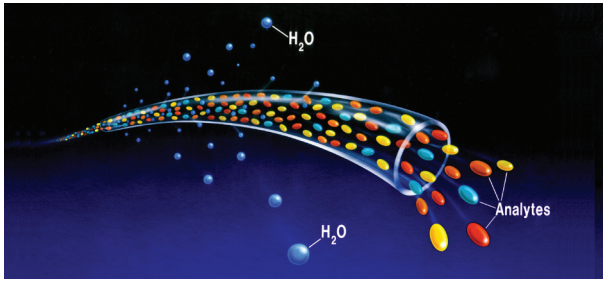
PRINCIPLE OF OPERATION



DM™-Series gas dryers combine selectivity of Nafion® gas dryers with the simplicity of desiccant canister dryers. Gas sample flowing through the dryer contacts only Nafion tubing, which very selectively absorbs water vapor from the gas while quantitatively retaining the remaining sample components in the gas stream. Water passing through the tubing wall is absorbed by the molecular sieve desiccant packed around the tubing. Scattered crystals of indicating desiccant can be observed through the clear window to monitor the condition of the desiccant.

DOC # SE-MAN-009 REV 00

DM™- Series Gas Dryer

User Manual

PERMA PURE

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DM GAS DRYER SPECIFICATIONS

Model Number	DM-050-24	DM-110-24
O.D.	0.063”	0.108”
I.D.	0.052”	0.086”
Flow Rate	Up to 500mL/min	Up to 1L/min
Housing	4.2”x2.4”x1.0”	5.0”x2.75”x1.5”
Desiccant	2.5 oz	5.5 oz
Drying/Charge	72L	150L

INSTALLATION

Luer Fittings
DM-060-24 include two sets of barb fittings:
1/16” and 1/8”
DM-110-24 include one set of 1/8” barb fittings

Units ship with plugs on the bulkhead fittings. Before use, take plugs off and replace with barb fittings.

Stainless Steel Compression Fittings
Compression fittings take 1/8” tubing

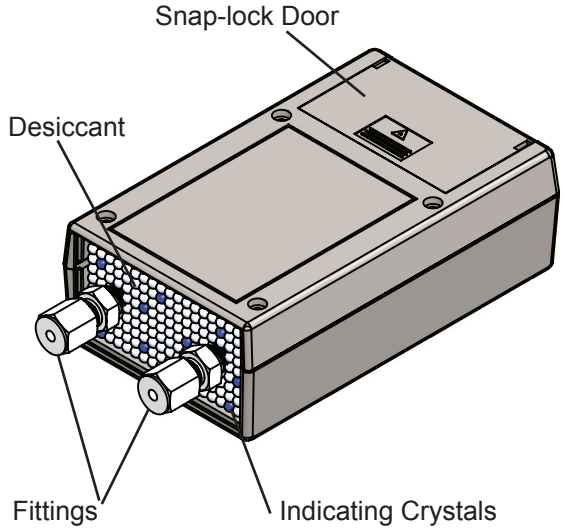

Figure 1

REPLACING DESICCANT

When blue indicating crystals turn pink, desiccant needs to be replaced. Follow steps below to replace desiccant (Refer to Figure 1).

1. *Take off fittings/tubing*
2. *Remove snap-lock door on canister*
3. *Empty spent desiccant*
4. *Refill with new desiccant*
5. *Replace snap-lock door*

PART NUMBERS FOR REPLACEMENT

Part Number	Description
DM-AR	1 Liter (provides 10 refills)
ME-060-24BB	Replacement dryer for DM-060-24
ME-110-24BB	Replacement dryer for DM-110-24

PERFORMANCE

DM-Series dryers continuously dry sample gases down to -30°C dew point depending on flow rate.