

# M POU 2 - 16 - Point-of-use membrane dryers

## Features and Benefits

- ▶ No power source needed
- ▶ Simple yet eco-friendly technology
  - No desiccants or refrigerants used for drying
  - No condensate drains
- ▶ Guaranteed performance
  - High water vapor selectivity thanks to non-porous membrane
  - No penetration of gases other than moisture
- ▶ Maintenance free
  - No wear and tear of any mechanical or electrical part
  - No need of replacement of any component
- ▶ Easy to transport and install
  - Built-in purging circuits
  - Easy and simple dew point adjustments thanks to the purge low control

## General Specifications

- ▶ Dew points achievable: up to  $-40^{\circ}\text{C}/-40^{\circ}\text{F}$ 
  - Note: only energy-efficient up to pressure dew point reductions of  $30^{\circ}\text{C}/86^{\circ}\text{F}$
- ▶ Operating pressure range:  
0 - 8.5 barg/0-120 psig
- ▶ Operating temperature range:  
 $-20^{\circ} - 55^{\circ}\text{C} / -4^{\circ} - 131^{\circ}\text{F}$
- ▶ Ambient temperature range:  
 $-20^{\circ} - 55^{\circ}\text{C} / -4^{\circ} - 131^{\circ}\text{F}$



## Applications



Dehumidified sampling gases for gas analysers



Laser machining tool



Paper industry



EDM tools



Food and beverages



Gas generators

Pneumatech offers an easy-to-use and simple drying solution for small compressed air needs. Pneumatech's point-of-use membrane dryer does not require any power source, is compact and easy to install. This makes the dryer suitable for various smaller compressed air applications where a higher degree of dehumidification is required, such as laser machining tools, precision measuring equipment, gas analyzers and small gas generators.

can go down to -40°C/-40°F. This is achieved by a hollow-fiber membrane, where moisture can diffuse through the fine pores of the fiber bundles. When differences in moisture concentration arise between the inside and outside of a fiber membrane, moisture is transferred through the membrane surface to equalize the moisture concentration on both sides of the membrane. Part of the dry air is used as purge air in order to remove the moisture from the incoming wet air.

The pressure dew point achieved by membrane dryers is dependent on the inlet temperature of the compressed air; but

Technical specifications for M POU 2-16							
Product → Specification ↓	Unit		M POU 2	M POU 3	M POU 5	M POU 11	M POU 16
Nominal volume flow at dryer inlet <sup>(1)</sup>	l/s		0,83	1,33	2,50	5,00	7,50
	m <sup>3</sup> /hr		3	4,8	9	18	27
Supply Gas Inlet and outlet connections	Inlet (G/NPT)		1/8"	1/8"	1/4"	3/8"	3/8"
	Outlet (G/NPT)		1/4"	1/4"	1/4"	1/4"	1/4"
Weight	kg		0,27	0,27	0,34	0,68	0,72
	lbs		0,59	0,6	0,76	1,5	1,59
Dimensions	Width	mm	61	61	70	100	100
		inch	2,4	2,4	2,8	3,9	3,9
	Height	mm	112	112	153	200	200
		inch	4,4	4,4	6,0	7,9	7,9
	Length	mm	31	31	40	50	50
		inch	1,2	1,2	1,6	2,0	2,0

1. Flow is measured at Reference Conditions: 1 bara and 20°C at operating pressure of 7 barg, inlet temperature 35°C & 30°C dew point reduction on inlet temperature..