

# MWP SERIES

CANISTER STYLE  
DESICCANT DRYERS

15-800 SCFM



# MWP SERIES COMPACT, ENERGY EFFICIENT CANISTER DESICCANT AIR DRYERS

Innovative approach to superior air drying performance  
WITHOUT the huge draw on your air compressor station.



## SMALL DRYER PACKAGE WITH BIG PERFORMANCE

MWP series air dryers are heatless regenerative desiccant air dryer systems like no other offering superior pressure dew points with low purge rates (typically less than 8%) for desiccant regeneration.

SmartValv Bluetooth LE technology equipped dryers offer synchronous compressor/dryer control which significantly reduces unnecessary purge loss & air consumption.

MWP series desiccant dryers are ideal for providing clean, dry air. Each model allows you to size it from 3 levels of moisture removal to suit the needs of your application. -40°F is ideal where air lines are subject to icing from freezing temperatures. +4°F (3% R.H.) is ideal for waterborne paint systems. +30°F is ideal to replace a refrigerated dryer and ideal for use in dirty places.

## THE POINT-OF-USE SOLUTION

- Compact design is easily installed wherever needed
- Effective drying and compressed air treatment at the most critical locations
- No desiccant bed lifting which results in downstream dust contamination
- 3-micron filter built inside dryer package
- Low pressure drop across dryer reduces compressor burden
- SmartValv Bluetooth LE technology option allows you to wire the dryer to the compressor, in order to automatically synchronize the purge air function to purge when the compressor is “loaded” and cease purging when the compressor “unloads” to gain additional energy savings.

## RUGGED / ROBUST DRYER DESIGN

The MWP canister desiccant dryer can handle even the harshest of ambient conditions.

- Originally designed to hang on the frame of a truck as an air brake dryer, the MWP series can take a beating.
- NEMA 4 sealed tight electricals are protected from rain, snow, and/or dust & particulate.
- Optional thermostatically-controlled heaters prevent dryer freeze-ups in sub-zero outdoor temperatures.

GET DRIER AIR. GET A MATTEI.

## MWP SMARTVALV BLUETOOTH (LE) TECHNOLOGY OPTION

### Smart cycling to maintain the lowest pressure dew points

- Synchronous compressor-dryer control reduces air consumption & increases savings
- Chronotrack service intervals automatically sends requirement alert via email
- Keep electronic record of dryer service notes and logging/tracking preferences
- App provides service part numbers & required quantities for each specific dryer model

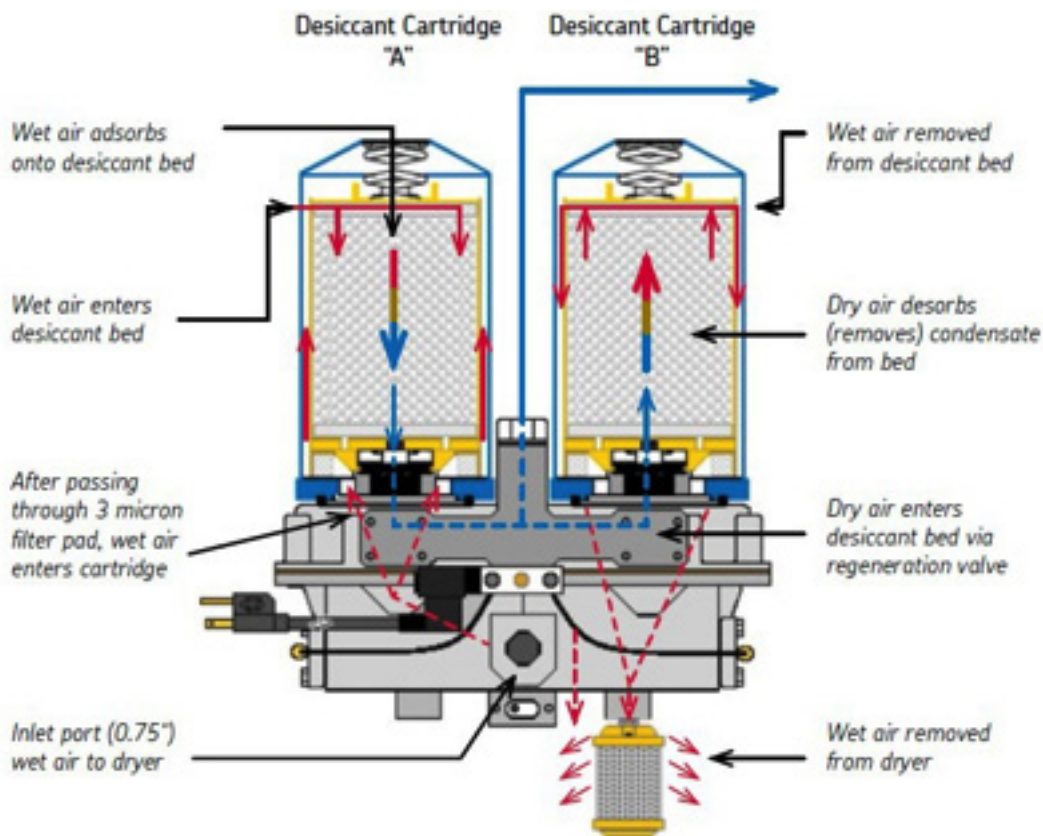
## MWP SERIES CANISTER DESICCANT AIR DRYER (CONTROL TYPES)

**M:** NEMA 4 Micro Logic Timer alternates between towers every two minute interval

**SV:** NEMA 4 SmartValv Technology offers selectable extra cycling of canisters in order to maintain superior dew points, optional synchronous compressor-dryer control reduces unnecessary purge loss, and SmartValv also can provide dryer service alerts via email

**PLC:** Programmable logic control box utilized on all larger-sized dryers (>120 cfm) whereby one canister per row of dryers regenerates every 45 seconds in a linear sequence

**PNU:** NEMA 7 pneumatic-controlled (explosion-proof rating) dryer requires absolutely NO electrical supply.



-Each dryer includes coalescing prefilter and dust afterfilter as standard. (Shipped loose for field installation)

-Heaters are available in 12, 24 and 110 Volt. Consult factory.

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# MWP SERIES

## CANISTER DESICCANT DRYER (15 - 800 SCFM)

### COMPACT HEATLESS - Canister Design

| Nominal Capacity (scfm) -40°F* | Nominal Capacity (scfm) +4°F* | Nominal Capacity (scfm) +30F* | Model                 | Air Connection (NPT-F inch) | Dimensions (inch) per bank |       |         | Weight per bank |
|--------------------------------|-------------------------------|-------------------------------|-----------------------|-----------------------------|----------------------------|-------|---------|-----------------|
|                                |                               |                               |                       |                             | L                          | W     | H       |                 |
| 7                              | 10                            | 15                            | 640378M-MF24-21       | 3/4"                        | 13.5"                      | 10.5" | 24"     | 46              |
| 7                              | 10                            | 15                            | 650378SV-MF24-21      | 3/4"                        | 13.5"                      | 10.5" | 24"     | 46              |
| 13                             | 17                            | 27                            | 640239M-MF24-32       | 3/4"                        | 13.5"                      | 10.5" | 24"     | 50              |
| 13                             | 17                            | 27                            | 650239SV-MF24-32      | 3/4"                        | 13.5"                      | 10.5" | 24"     | 50              |
| 20                             | 25                            | 40                            | 640346M-MF24-42       | 3/4"                        | 13.5"                      | 10.5" | 24"     | 50              |
| 20                             | 25                            | 40                            | 650346SV-MF24-42      | 3/4"                        | 13.5"                      | 10.5" | 24"     | 50              |
| 20                             | 25                            | 40                            | 640383PNU-MF24-42 (3) | 3/4"                        | 13.5"                      | 10.5" | 24"     | 50              |
| 35                             | 50                            | 70                            | 640442M-MF24-64       | 3/4"                        | 13.5"                      | 10.5" | 34"     | 70              |
| 35                             | 50                            | 70                            | 650442SV-MF24-64      | 3/4"                        | 13.5"                      | 10.5" | 34"     | 70              |
| 60                             | 75                            | 120                           | 640806PLC-MF24-127    | 1-1/2"                      | 36.0"                      | 10.5" | 24"     | 120             |
| 70                             | 90                            | 140                           | 640606M-MF24-127      | 1-1/2"                      | 36.0"                      | 10.5" | 34"     | 140             |
| 70                             | 90                            | 140                           | 650606SV-MF24-127     | 1-1/2"                      | 36.0"                      | 10.5" | 34"     | 140             |
| 100                            | 130                           | 200                           | 640816PLC-MF24-233    | 1-1/2"                      | 54.0"                      | 10.5" | 24"     | 170             |
| 120                            | 155                           | 240                           | 640826PLC-MF24-233    | 1-1/2"                      | 36"                        | 10.5" | 24" x 2 | 120 x 2         |
| 200                            | 260                           | 400                           | 640834PLC-MF24-466    | 1-1/2"                      | 54"                        | 10.5" | 24" x 2 | 170 x 2         |
| 300                            | 390                           | 600                           | 640843PLC-MF24-699    | 1-1/2"                      | 54"                        | 10.5" | 24" x 3 | 170 x 3         |
| 400                            | 520                           | 800                           | 640857PLC-MF24-911    | 1-1/2"                      | 54"                        | 10.5" | 24" x 4 | 170 x 4         |

Nominal Capacity based on: Ambient temperature +100°F, Inlet temperature +110°F, Inlet pressure 100 psig. Refer to sizing chart of brochure for other conditions.



COMPANY  
WITH QUALITY MANAGEMENT  
SYSTEM CERTIFIED BY DNV

= ISO 9001 : 2001 =

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