



## **MMD SERIES MODULAR DESICCANT COMPRESSED AIR DRYER**

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The lightweight modular design desiccant dryer series brings a new concept in compressed air technology, offering total installation flexibility to meet specific needs. Mikropor's Modular Desiccant Dryers are less than half the weight and size of a traditional twin tower design, allowing even the largest models to be easily moved through a standard doorway. Mikropor's innovative Modular Air Dryers make it easier and more affordable than ever to deliver high-quality compressed air for virtually wherever it's needed.

Mikropor Modular Desiccant Dryers have cosmetic beauty and can be located in clean, pleasant environments eyesore. Offered in sizes from 3 scfm to 1060 scfm with dew point of -40° F to -100° F (optional) these dryers are equipped with everything you need, requiring only air inlet/outlet connections. Using a highly engineered inlet and purge manifold design, Mikropor proudly offers one of the lowest pressures drop desiccant dryer in the industry.

- Small footprint, lightweight, advanced compact design
- Corrosion protected aluminium construction
- Hassle-free, reliable electronic controls
- Can be floor, bench or wall mounted
- Quiet enough to be placed in any work environment
- Easy installation, easy maintenance



### PLC Monitor

The mini-PLC is user friendly and shows the working action simultaneously. It is possible to get an alarm signal or remote control thanks to an easy access plug below the dryer. Dew point control and monitoring is possible with a dew point sensor.

The new Modular Desiccant Dryers combine proven traditional dryer principles with the latest technology to provide unsurpassed efficiency, flexibility and world-renowned Mikropor reliability for your critical dry air applications.

### Various Application Options

Modular Desiccant Air Dryers can be mounted to the wall with easy-to-use mounting brackets to free up additional space and can also be secured to the ground very easily.



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## Technical Specifications

| Model    | Capacity             |        | Inlet - Outlet Connection Size | Length (inch) | Width (inch) | Height (inch) | Standard Voltage           | Filter Models  |
|----------|----------------------|--------|--------------------------------|---------------|--------------|---------------|----------------------------|----------------|
|          | (Nm <sup>3</sup> /h) | (scfm) |                                |               |              |               |                            |                |
| MMD3     | 5                    | 3      | 1/2" NPT                       | 10,9          | 12,6         | 22,0          | 110-230V / 1 Ph / 50-60 Hz | GON-US-20      |
| MMD5     | 10                   | 5      | 1/2" NPT                       | 10,9          | 12,6         | 24,9          | 110-230V / 1 Ph / 50-60 Hz | GON-US-20      |
| MMD10    | 20                   | 10     | 1/2" NPT                       | 10,9          | 12,6         | 35,8          | 110-230V / 1 Ph / 50-60 Hz | GON-US-20      |
| MMD15    | 25                   | 15     | 1/2" NPT                       | 11,5          | 14,6         | 32,0          | 110-230V / 1 Ph / 50-60 Hz | GON-US-20      |
| MMD20    | 35                   | 20     | 1/2" NPT                       | 11,6          | 14,6         | 43,7          | 110-230V / 1 Ph / 50-60 Hz | GON-US-32      |
| MMD25    | 45                   | 25     | 1/2" NPT                       | 11,5          | 14,6         | 49,4          | 110-230V / 1 Ph / 50-60 Hz | GON-US-32      |
| MMD30    | 50                   | 30     | 1/2" NPT                       | 11,6          | 14,6         | 59,2          | 110-230V / 1 Ph / 50-60 Hz | GON-US-32      |
| MMD40    | 70                   | 40     | 1/2" NPT                       | 15,3          | 16,1         | 49,2          | 110-230V / 1 Ph / 50-60 Hz | GON-US-60      |
| MMD50    | 85                   | 50     | 1/2" NPT                       | 19,4          | 16,1         | 55,1          | 110-230V / 1 Ph / 50-60 Hz | GON-US-60      |
| MMD60    | 100                  | 60     | 1/2" NPT                       | 15,3          | 16,1         | 68,9          | 110-230V / 1 Ph / 50-60 Hz | GON-US-60      |
| MMD75    | 130                  | 75     | 1" NPT                         | 20,4          | 16,2         | 51,2          | 110-230V / 1 Ph / 50-60 Hz | GON-US-90      |
| MMD100   | 170                  | 100    | 1" NPT                         | 20,4          | 16,2         | 57,1          | 110-230V / 1 Ph / 50-60 Hz | GON-US-130     |
| MMD120   | 200                  | 120    | 1" NPT                         | 20,4          | 16,2         | 68,9          | 110-230V / 1 Ph / 50-60 Hz | GON-US-130     |
| MMD180   | 300                  | 180    | 1 1/2" NPT                     | 25,6          | 16,2         | 59,1          | 110-230V / 1 Ph / 50-60 Hz | GON-US-235     |
| MMD240   | 400                  | 240    | 1 1/2" NPT                     | 30,9          | 16,2         | 59,1          | 110-230V / 1 Ph / 50-60 Hz | GON-US-295     |
| MMD-340  | 575                  | 340    | 2" NPT                         | 39,16         | 15,7         | 65,11         | 115-240 V / 1Ph / 50-60 Hz | GON-US-350     |
| MMD-400  | 680                  | 400    | 2" NPT                         | 52,55         | 15,7         | 61,19         | 115-240 V / 1Ph / 50-60 Hz | GON-US-470     |
| MMD-500  | 850                  | 500    | 2" NPT                         | 59,2          | 15,7         | 65,1          | 115-240 V / 1Ph / 50-60 Hz | GON-US-590     |
| MMD-590  | 1000                 | 590    | 2" NPT                         | 65,9          | 15,7         | 69,1          | 115-240 V / 1Ph / 50-60 Hz | GON-US-590     |
| MMD-735  | 1250                 | 735    | 3" NPT                         | 65,9          | 15,7         | 80,8          | 115-240 V / 1Ph / 50-60 Hz | GON-HC-US-910  |
| MMD-890  | 1500                 | 890    | 3" NPT                         | 72,63         | 15,7         | 80,8          | 115-240 V / 1Ph / 50-60 Hz | GON-HC-US-910  |
| MMD-1060 | 1800                 | 1060   | 3" NPT                         | 79,32         | 15,7         | 80,87         | 115-240 V / 1Ph / 50-60 Hz | GON-HC-US-1175 |

| Pressure Dew Point     | Nominal Inlet Temp. | Max. Working Pressure | Max. Inlet Temp. | Max. Working Pressure | Max. Ambient Temp. |
|------------------------|---------------------|-----------------------|------------------|-----------------------|--------------------|
| -40 °F / -100 °F (opt) | 95 F                | 100 psig              | 122 °F           | 230 psig              | 122 °F             |

\*Given flows are at 100 psig pressure with reference to 68°F and 14 psi atmospheric air suction as per ISO7183.

## Correction Factor for MMD Series

| Inlet Temp. (°F) | F1   | Pressure (psig) | F2   |
|------------------|------|-----------------|------|
| 70               | 1,12 | 50              | 0,56 |
| 80               | 1,09 | 60              | 0,65 |
| 90               | 1,06 | 70              | 0,74 |
| 100              | 1,00 | 80              | 0,83 |
| 105              | 0,93 | 90              | 0,91 |
| 110              | 0,86 | 100             | 1    |
| 115              | 0,80 | 110             | 1,06 |
| 120              | 0,75 | 120             | 1,08 |
| -                | -    | 130             | 1,12 |
| -                | -    | 140             | 1,16 |
| -                | -    | 150             | 1,20 |
| -                | -    | 175             | 1,29 |
| -                | -    | 200             | 1,37 |
| -                | -    | 225             | 1,45 |
| -                | -    | 230             | 1,52 |



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