Parker Pneumatic

- Removes water vapour & lowers the PDP
- Compact design
- No electrical connections necessary
- Suitable for hazardous environments
- No moving parts
- Maintenance & wear free
- No change in air consumption
- Low pressure drop less than 0.1 bar
- Minimal purge air consumption
- Modular design compatible with the P3X air prep series



Operating information

Operating pressure range: 5 to 16 bar

Temperature range: 2 °C to 60 °C

Pressure drop: 0.1 bar

Purge air (at 20K PDP reduction): 10%

Max Flow at inlet (size 50): 2800 l/m

Note

For optimum system performance and maintenance free conditions, Parker recommend the dryer is preceded with a 5 micron and 0.01 coalescer filter from the P3X series.

Membrane dryer

| Port size | Size | Description | Order Code |
|-----------|------|---|-------------|
| G1/2 | 10 | Membrane dryer with return tube - size 10 | P3XJA14CA1N |
| G1/2 | 15 | Membrane dryer with return tube - size 15 | P3XJA14CB1N |
| G1/2 | 20 | Membrane dryer with return tube - size 20 | P3XJA14CC1N |
| G1/2 | 25 | Membrane dryer with return tube - size 25 | P3XJA14CD1N |
| G1/2 | 35 | Membrane dryer serial type - size 35 | P3XJA14CE1N |
| G1/2 | 50 | Membrane dryer serial type - size 50 | P3XJA14CF1N |





Note: For NPT threaded connections replace the 6th digit from a 1 to 9 ie: P3XJA94CA1N

Wall mounting bracket kit

| Order Code | |
|------------|--|
| P3XKA00MWD | |

Note:

For optimum system performance and maintenance free conditions, Parker recommend the dryer is proceeded with a 5 micron and 0.01 coalecer filter from the P3X series.

Complete Filter / Dryer System combinations available on request







F + Fc + MD + R + Fa







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Selection Criteria

To correctly slect the dryer best suited for your application, the following information is required to ensure optimum performance and trouble free operation.

- Maximum inlet pressure dew point (°C)
- Outlet PDP (°C)
- Working pressure (bar)
- Maximum inlet flow rate (m³/h)

Conversion factor for calculation of corrected flow rate

| Operating pressure range p (bar) | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------------------------|------|------|-----|------|------|------|------|------|------|------|------|------|
| Conversion factor f_p | 0.57 | 0.78 | 1.0 | 1.21 | 1.42 | 1.64 | 1.85 | 2.06 | 2.28 | 2.49 | 2.70 | 2.92 |

Working Example:

Selecting a dryer with an inlet pressure dew point of 35° C, a PDP reduction of 35K with a working / operating pressure of 6 bar and an inlet flow of 11 m³/h.

Step 1

From the correction factor table select the required pressure (6 bar) and read below the corrected factor value (0.78)

Step 2

To adjust the flow for your application, divide the required flow by the 0.78 correction factor

Sizing capacity = $\frac{\text{Actual flow}}{\text{Correction factor}}$ = $\frac{11 \text{ m}^3/\text{h}}{0.78}$ = $\frac{14.1 \text{ m}^3/\text{h}}{0.78}$

Step 3

Plot the values on the selection graph (below). Where the dew point reduction value of 35K intersects with the corrected flow value of 14.1 m³/h, select the dryer flow curve which is equal or above the intersection point. For example: the optimum dryer would be size 25 (P3XJA14CD1N)



