

## Adsorption dryer ATM-APN 4

Rev 01\_0325

### Technical data sheet

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| Nominal capacity (based on suction conditions 1 bar (a), 20°C) | Unit  | Design data |
|----------------------------------------------------------------|-------|-------------|
| Volume flow inlet                                              | m³/h  | 42          |
| Volume flow outlet                                             | m³/h  | 36,12       |
| Average regeneration air                                       | m³/h  | 5,88        |
| Compressed air inlet temperature                               | °C    | 35          |
| Working pressure                                               | bar g | 9           |
| Pressure dew point                                             | °C    | -28         |

| General data                | Unit  | Design data |
|-----------------------------|-------|-------------|
| Maximum operating pressure  | bar g | 16          |
| Minimum operating pressure  | bar g | 4           |
| Maximum inlet temperature   | °C    | 50          |
| Ambient temperature minimum | °C    | 2           |

| Norms and key figures          | Unit  | Design data                          |
|--------------------------------|-------|--------------------------------------|
| Pressure vessel standard       |       | 2014/68/EU                           |
| Category                       |       | I                                    |
| Module                         | Type  | A                                    |
| Fluid group                    |       | 2                                    |
| Testing pressure               | bar g | 24                                   |
| Sound insulation level         |       | ISO 85                               |
| Norm for medical breathing air |       | EU Pharmacopoeia / DIN EN ISO 7396-1 |

| Scope of supply                   | Unit | Design data                  |
|-----------------------------------|------|------------------------------|
| Ready-to-operate adsorption dryer | Type | ATM-APN 4                    |
| Controls                          | Type | ECOMATIC                     |
| Preliminary filter                | Type | APF53MFO / APF53SMA          |
| Final filter                      | Type | APF53DSF                     |
| Filling 1st and 2nd chamber       | Type | Alumina / Molecular sieve    |
| Filling 3rd chamber               | Type | Activated carbon / Hobcalite |

| Options                  | Unit                                            |
|--------------------------|-------------------------------------------------|
| Controls                 | Dew point device ET-C                           |
|                          | Dew point device ET-P (incl. inlet air control) |
|                          | ECOMATIC24 (24 V DC version)                    |
|                          | APF53SE                                         |
| Minimum pressure devices | AV G 1/2", AV G 3/4"                            |

| Cycles                 | Unit | Design data |
|------------------------|------|-------------|
| Total                  | min  | 10          |
| Adsorption             | min  | 4,5         |
| Regeneration           | min  | 4,5         |
| Pressure build-up time | min  | 1           |

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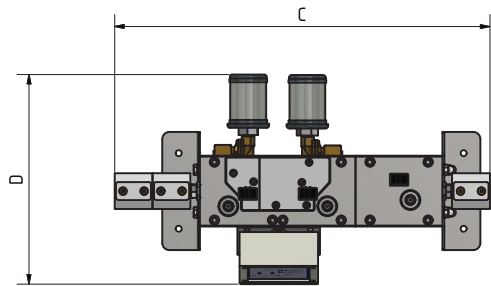
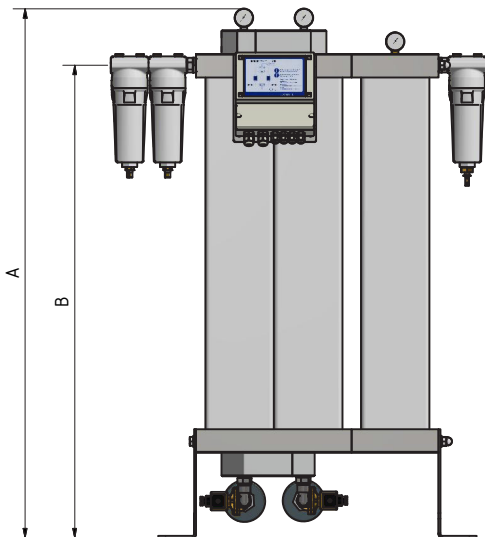
Technical data sheet

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| Dimensions and weights           | Unit  | Design data |
|----------------------------------|-------|-------------|
| A                                | mm    | 872         |
| B                                | mm    | 767         |
| C                                | mm    | 680         |
| D                                | mm    | 419         |
| Nominal size inside the adsorber | Inch  | 3/8"        |
| Connection input                 | Inch  | 3/8"        |
| Output connection                | Inch  | 3/8"        |
| Total weight                     | Kg    | 50          |
| Volume (per chamber)             | Liter |             |

| Electrical data          | Unit | Design data |
|--------------------------|------|-------------|
| Installed capacity       | W    | 32          |
| Connector                | V    | 230         |
| Control voltage          | V    | 230         |
| Rate                     | Hz   | 50 / 60     |
| Protection class housing | IP   | 54          |

Dimensional drawings



Correction factors

Inlet temperature

|      |      |     |      |    |      |      |      |      |      |
|------|------|-----|------|----|------|------|------|------|------|
| °C   | < 25 | 25  | 30   | 35 | 38   | 40   | 45   | 48   | 50   |
| F(t) | 1,2  | 1,1 | 1,09 | 1  | 0,84 | 0,78 | 0,72 | 0,65 | 0,58 |

| Correction factors working pressure |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |      |      |      |      |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|------|
| bar g                               | 4    | 4,5  | 5    | 5,5  | 6    | 6,5  | 7    | 7,5  | 8    | 8,5  | 9 | 9,5  | 10   | 10,5 | 11   | 11,5 | 12   | 12,5 | 13   | 13,5 |
| F(p)                                | 0,49 | 0,55 | 0,61 | 0,67 | 0,73 | 0,80 | 0,82 | 0,89 | 0,91 | 0,95 | 1 | 1,06 | 1,11 | 1,16 | 1,23 | 1,29 | 1,34 | 1,39 | 1,43 | 1,5  |

Please multiply the capacity with the correction factors in the above table