

## Adsorption dryer ATON 15

Rev 01\_1224

### 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  | 150         |
| Volume flow outlet                                             | m³/h  | 129         |
| Average regeneration air                                       | m³/h  | 21          |
| Compressed air inlet temperature                               | °C    | 35          |
| Working pressure                                               | bar g | 7           |
| Pressure dew point                                             | °C    | -40         |
| Residual oil content                                           | mg/m³ | < 0,003     |

| 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                 |       | II          |
| Module                   | Type  | A2          |
| Fluid group              |       | 2           |
| Testing pressure         | bar g | 24          |
| Sound insulation level   |       | ISO 85      |

| Scope of supply                   | Unit | Design data                         |
|-----------------------------------|------|-------------------------------------|
| Ready-to-operate adsorption dryer | Type | ATON 15                             |
| Controls                          | Type | ECOMATIC                            |
| Preliminary filter                | Type | APF103SMA                           |
| Afterfilter                       | Type | APF103DMF                           |
| Filling                           |      | Alumina / Activated carbon dedusted |

| Options                  | Unit                                               |
|--------------------------|----------------------------------------------------|
| Controls                 | Dew point device ET-C4.0                           |
|                          | Dew point device ET-P4.0 (incl. inlet air control) |
|                          | ECOMATIC24 (24 V DC version)                       |
|                          | PNC (pneumatic control)                            |
| Minimum pressure devices | AV G1“, AV G1 1/2“, AV G2“                         |

| 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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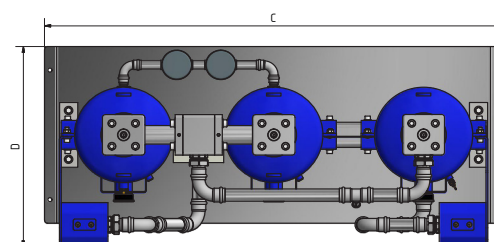
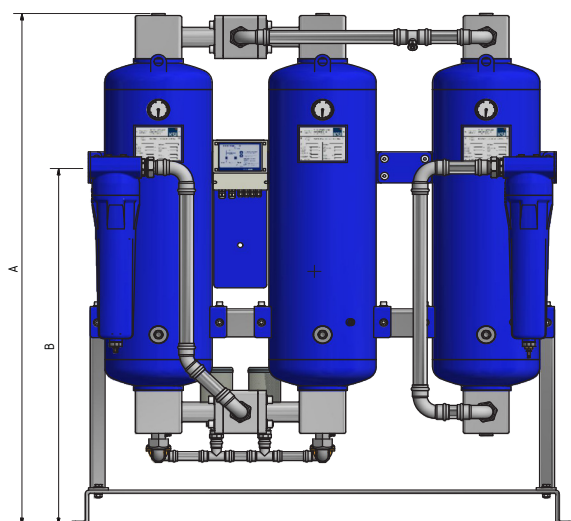
### Technical data sheet

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| Dimensions and weights           | Unit  | Design data |
|----------------------------------|-------|-------------|
| A                                | mm    | 1184        |
| B                                | mm    | 731         |
| C                                | mm    | 1200        |
| D                                | mm    | 575         |
| Nominal size inside the adsorber | Inch  | 1"          |
| Connection input                 | Inch  | 1"          |
| Output connection                | Inch  | 1"          |
| Total weight                     | Kg    | 219         |
| Vessel volume                    | Liter | 21          |

| 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 | 14  | 14,5 | 15   | 15,5 | 16   |
|-------|-----|-----|------|------|------|------|---|------|------|------|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|------|
| F(p)  | 0,6 | 0,7 | 0,74 | 0,82 | 0,89 | 0,97 | 1 | 1,08 | 1,11 | 1,16 | 1,22 | 1,29 | 1,36 | 1,42 | 1,5 | 1,57 | 1,63 | 1,69 | 1,75 | 1,83 | 1,9 | 1,96 | 2,03 | 2,1  | 2,14 |

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