

## Data sheet CAHS D-TAIFUN (OF)

| General Data \ model                         | 07/1585             | 8,5/1470   | 10/1325    |
|----------------------------------------------|---------------------|------------|------------|
| Thermal output 70/103 °C                     | 325 kW              | 335 kW     | 335 kW     |
| Thermal output 30/60 °C                      | 56 kW               | 53 kW      | 48 kW      |
| Recoverable thermal output <sup>1</sup>      | 381 kW              | 388 kW     | 383 kW     |
| Fuel cosumption (Hu=10,0 kW/Nm³)             | 43,4 Nm³/h          | 44,2 Nm³/h | 43,6 Nm³/h |
| Power requirement (kW)                       | 5,6 kW              |            |            |
| BUS-System                                   | Modbus TCP          |            |            |
| Remote maintenanceTCP/IP                     | Yes                 |            |            |
| Engine                                       |                     |            |            |
| Type                                         | R6                  |            |            |
| Engine displacement                          | 12,82 L             |            |            |
| Engine Type                                  | Naturally aspirated |            |            |
| Brennstoffeinsatz <sup>2</sup>               | 449 kW              |            |            |
| RPM, min <sup>-1</sup>                       | 1800                |            |            |
| ISO standard power (mech.) <sup>2</sup>      | 170 kW              |            |            |
| Engine cooling water heat quantity           | 145 kW              |            |            |
| Exhaust gas heat capacity 110 °C             | 98 kW               |            |            |
| Efficiency Thermal <sup>2</sup>              | 54,1 %              |            |            |
| Efficiency Combined (el. + th.) <sup>2</sup> | 92,0 %              |            |            |
| Engine oil                                   | semi-synthetic      |            |            |
| Lubrication oil consumption                  | 125 g/Bh            |            |            |
| Filling capacity lubricant (max.)            | 70 + 150 L          |            |            |
| Compressor                                   |                     |            |            |
| Manufacturer                                 | Atlas Copco         |            |            |
| Heat recovery compressor                     | 132 kW              | 135 kW     | 133 kW     |
| outlet pressure, barg <sup>3</sup>           | 7                   | 8,5        | 10         |
| Free air delivery (FAD), m³/min <sup>3</sup> | 26,4                | 24,5       | 22         |
| Modulation / power control                   | 60 - 100 %          |            |            |
| compressed air connection                    | DN 100 PN 16        |            |            |

| Gas supply                           |                |                          |
|--------------------------------------|----------------|--------------------------|
| Gas train                            | nach DIN       |                          |
| Interface Gas                        | DN 50 (2")     |                          |
| Gas flow pressure                    | 30 - 80 mbar   |                          |
| Air supply                           |                |                          |
| Combustion air mass flow             | 595 kg/h       |                          |
| Air temperature                      | 25 °C          |                          |
| Exhaust                              |                |                          |
| Interface Exhaust                    | DN 150         |                          |
| TA-Luft                              | yes            |                          |
| Exhaust temperature                  | 620 °C         |                          |
| Condensate mass flow                 | 108 kg/h       |                          |
| Max. permissible back pressure       | < 15 mbar      |                          |
| flow rate, dry                       | 466 Nm³/h      |                          |
| mass flow, wet                       | 576 kg/h       |                          |
| Hydraulic integration                | 30/60          | 70/103 <sup>4</sup>      |
| Interface inlet/outlet               | DN 65          | DN 65                    |
| Norm in-/outlet temperatur           | 30 / 60 °C     | 70 / 101 °C <sup>4</sup> |
| Standard flow rate                   | 3,3 m³/h       | 10,2 m³/h                |
| heating water pressure               | 2,5 bar (ü)    | 4 bar (ü)                |
| Dimensions / Weight                  |                |                          |
| Dimensions (l×w×h), mm               | 4550x1800x2200 |                          |
| Weight Module (w/o operating fluids) | 4900 kg        |                          |
| Dimensions housing (L×B×H), mm       | 4800x2000x2300 |                          |
| Weight housing                       | 800 kg         |                          |
| Dimensions cabinet (L×B×H), mm       | 1200x1200x400  |                          |
| Weight cabinet                       | 130 kg         |                          |
| Recommended concrete strength        | C20/25         |                          |
| Payload, qk                          | 3,5 kN/m²      |                          |

<sup>1</sup> with a tolerance of ±7%; <sup>2</sup> acc. to ISO 3046-1; <sup>3</sup> acc. to ISO 1217, Anh. D.

<sup>4</sup> max. possible temperature up to 108 °C

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| Noise emissions (incl. standard silencer) |                          |
|-------------------------------------------|--------------------------|
| - Unit 1 m / 10 m                         | 75 / 65 dB(A)            |
| - Exhaust gas stack 10 m                  | 67 dB(A)                 |
| Exh. emissions with catalytic converter   |                          |
| NOx                                       | ≤ 250 mg/Nm <sup>3</sup> |
| CO                                        | ≤ 250 mg/Nm <sup>3</sup> |
| HCHO                                      | ≤ 5 mg/Nm <sup>3</sup>   |
| Protection class                          |                          |
| - Unit                                    | IP 23                    |
| - Unit with housing                       | IP 53                    |
| - Control cabinet                         | IP 55                    |
| Options                                   |                          |
| Housing                                   | yes                      |
| Additional silencer                       | yes                      |
| Emergency cooler                          | yes                      |
| Gas warning system                        | yes                      |
| Knock control                             | yes                      |
| Gross calorific value                     | yes                      |
| additional lubrication oil tank           | yes                      |
| LTE / UMTS-modul                          | yes                      |
| BUS-converter                             | yes                      |
| heat meter (calibrated)                   | yes                      |
| Neutralisation plant                      | yes                      |
| Compressed air flow meter                 | yes                      |
| Containerised solution                    | yes                      |
| Remote control                            | yes                      |
| Directly heated adsorption dryers         | yes                      |
| Master Control readynes                   | yes                      |
| Contribution, installation, commissioning | yes                      |

Subject to technical changes