

Data sheet CAHS D-TAIFUN



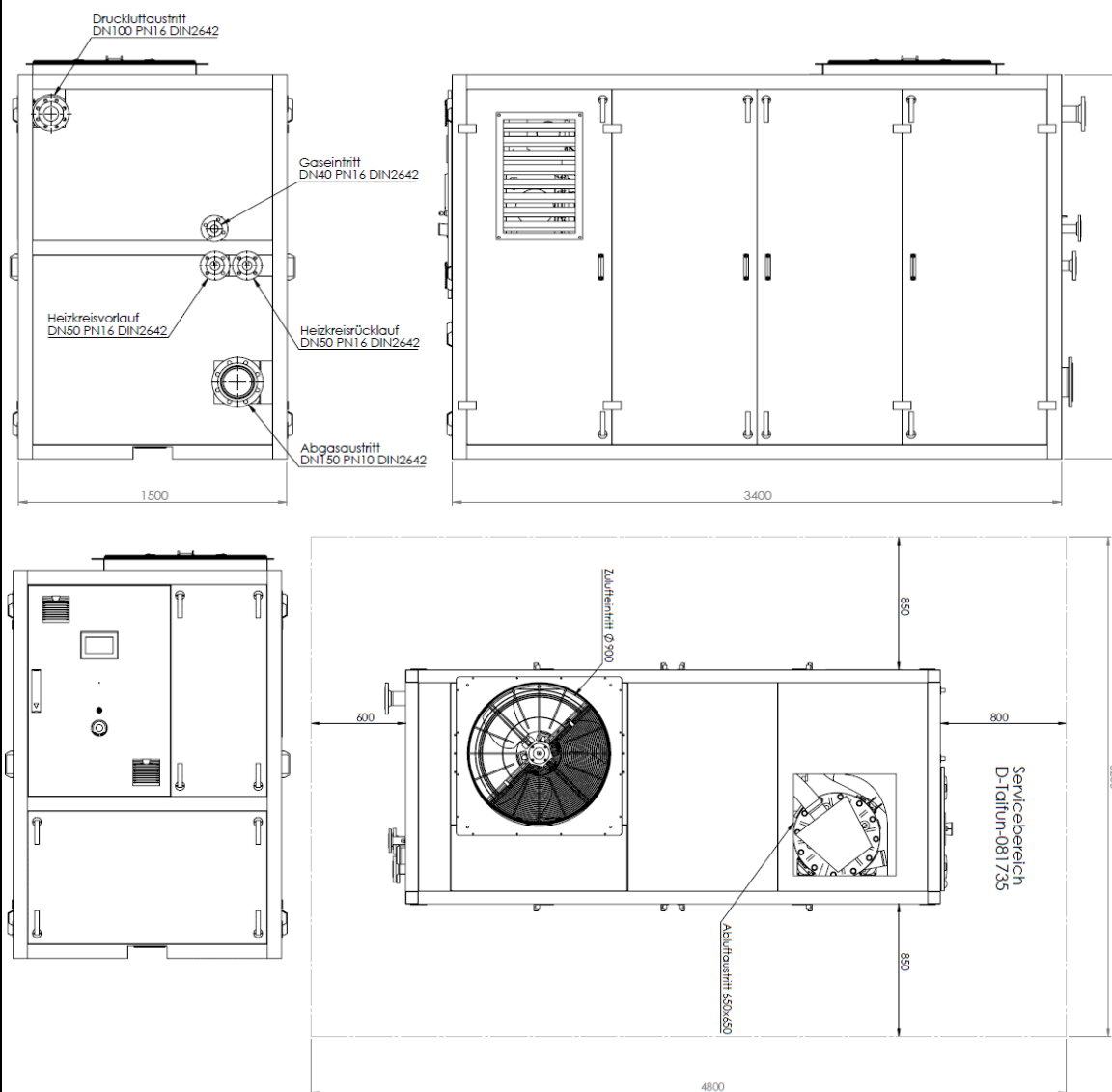
General Data \ model	07/1860	08/1735	10/1630	13/1320
Recoverable thermal output ¹	301 - 459 kW			
Fuel cosumption (Hu=10,0 kW/Nm³)	44,9 Nm³/h			
Power requirement (kW)	5,0 kW			
BUS-System	Modbus TCP			
Remote maintenanceTCP/IP	Yes			
Engine				
Type	R6			
Engine displacement	12,82 L			
Engine Type	Naturally aspirated			
Brennstoffeinsatz ²	449 kW			
RPM, min ⁻¹	1800			
ISO standard power (mech.) ²	170 kW			
Engine cooling water heat quantity	145 kW			
Exhaust gas heat capacity 110 °C	102 kW			
Efficiency Thermal ²	55,0 %			
Efficiency Combined (el. + th.) ²	92,9 %			
Engine oil	semi-synthetic			
Lubrication oil consumption	125 g/Bh			
Filling capacity lubricant (max.)	45 + 120 L			
Compressor				
Manufacturer	Atlas Copco			
Heat recovery compressor	152 kW			
RPM, min ⁻¹	2820	2680	2525	2120
outlet pressure, barg ³	7	8,5	10	13
Free air delivery (FAD), m³/min ³	31	28,9	27,2	22,1
Modulation / power control	60 - 100 %			
compressed air connection	DN 100 PN 16			

Gas supply	
Gas train	nach DIN
Interface Gas	DN 40 (1,5")
Gas flow pressure	22 - 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	62 kg/h
Max. permissible back pressure	< 15 mbar
flow rate, dry	466 Nm ³ /h
mass flow, wet	576 kg/h
Hydraulic integration	
Interface inlet/outlet	DN 50 (2")
Norm in-/outlet temperatur	70 / 90 °C
Standard flow rate	17 m ³ /h
heating water pressure	2,5 bar (ü)
Dimensions / Weight	
Dimensions (l x w x h), mm	3290 x 1336 x 1795
Weight Module (w/o operating fluids)	3400 kg
Dimensions housing (L x B x H), mm	3400 x 1500 x 2300
Weight housing	720 kg
Dimensions cabinet (L x B x H), mm	800 x 300 x 1200
Weight cabinet	120 kg
Recommended concrete strength	C20/25
Payload, qk	3,5 kN/m ²

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

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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 ³
CO	≤ 250 mg/Nm ³
HCHO	≤ 5 mg/Nm ³
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
Catalyst technology for oil-free air	yes
Directly heated adsorption dryers	yes
Master Control readynes	yes
Contribution, installation, commisioning	yes



Subject to technical changes