

Data sheet CAHS D-FÖHN



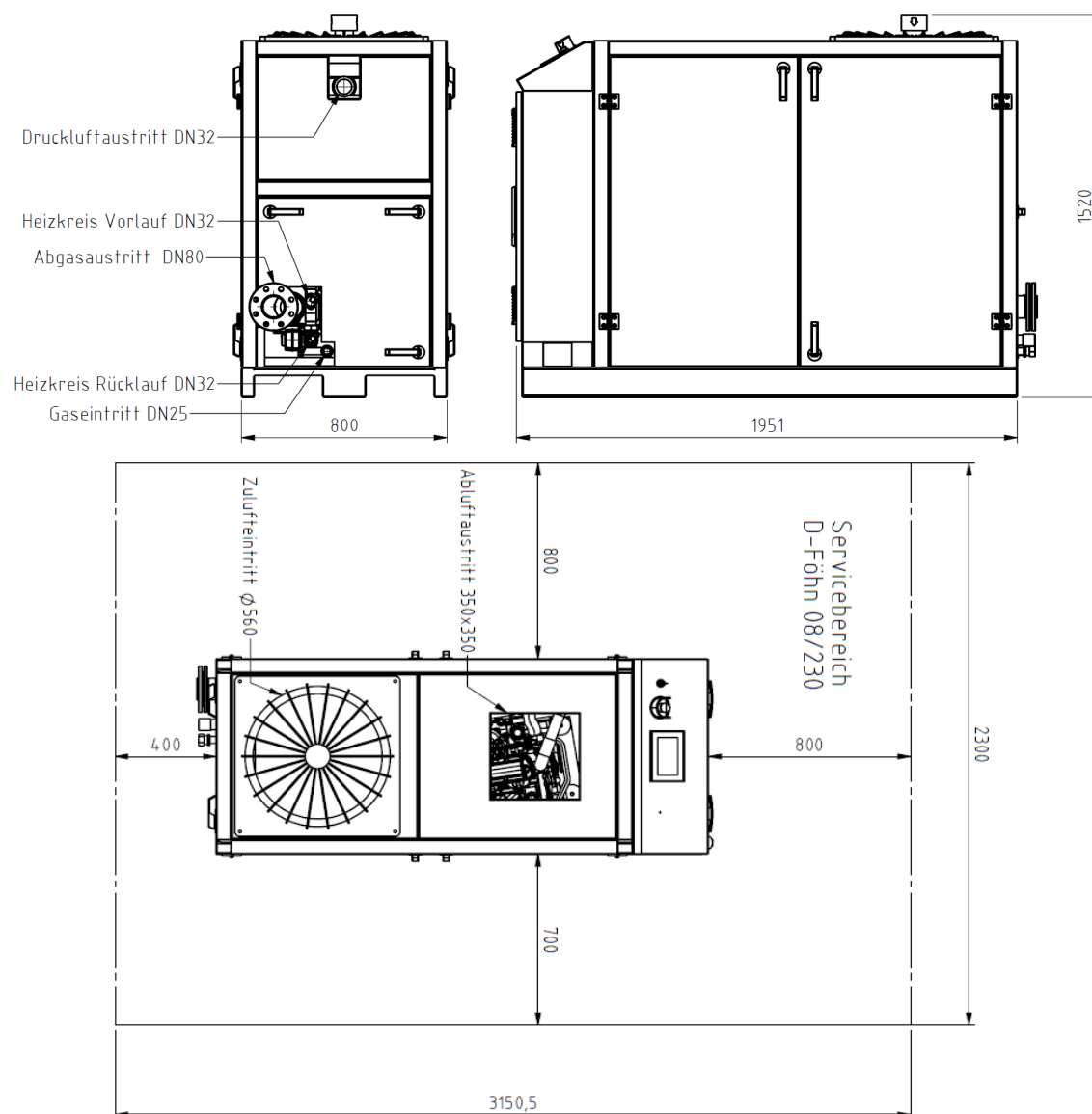
General Data \ model	08/245	10/190
Recoverable thermal output ¹	71 kW	
Fuel cosumption (Hu=10,0 kW/Nm³)	8 Nm³/h	
Power requirement (kW)	0,8 kW	
BUS-System	Modbus TCP	
Remote maintenanceTCP/IP	Yes	
Engine		
Type	R4	
Engine displacement	2,3 L	
Engine Type	Naturally aspirated	
Brennstoffeinsatz ²	80 kW	
RPM, min ⁻¹	1800	
ISO standard power (mech.) ²	26 kW	
Engine cooling water heat quantity	28 kW	
Exhaust gas heat capacity 110 °C	19 kW	
Efficiency Thermal ²	58,8 %	
Efficiency Combined (el. + th.) ²	91,3 %	
Engine oil	semi-synthetic	
Lubrication oil consumption	4 g/h	
Filling capacity lubricant (max.)	12 + 35 L	
Compressor		
Manufacturer	Mattei	
Heat recovery compressor	24 kW	
RPM, min ⁻¹	1800	
outlet pressure, barg ³	8	10
Free air delivery (FAD), m³/min ³	4,1	3,2
Modulation / power control	60 - 100 %	
compressed air connection	DN 32 PN 16	

Gas supply	
Gas train	nach DIN
Interface Gas	DN 20 (3/4")
Gas flow pressure	22 - 50 mbarg
Air supply	
Combustion air mass flow	90 kg/h
Air temperature	25 °C
Exhaust	
Interface Exhaust	DN 50
TA-Luft	yes
Exhaust temperature	600 °C
Condensate mass flow	13 kg/h
Max. permissible back pressure	< 15 mbar
flow rate, dry	93,6 Nm ³ /h
mass flow, wet	118 kg/h
Hydraulic integration	
Interface inlet/outlet	DN 32 (1,25")
Norm in-/outlet temperatur	70 / 90 °C
Standard flow rate	3 m ³ /h
heating water pressure	2,5 bar (ü)
Dimensions / Weight	
Dimensions (lxwxh), mm	1952x800x1520
Weight Module (w/o operating fluids)	1300 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	
NO _x	≤ 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	standard
Additional silencer	yes
Emergency cooler	yes
Gas warning system	yes
Knock control	yes
Gross calorific value	yes
additional lubrication oil tank	standard
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, commissioning	yes



Subject to technical changes