

Data sheet CAHS DHKW D-ORKAN (OF)

General Data \ model	07/580	8,5/530	10/460
Thermal output 70/103 °C	136 kW	137 kW	137 kW
Thermal output 30/60 °C	20 kW	19 kW	17 kW
Recoverable thermal output ¹	156 kW	156 kW	154 kW
Fuel cosumption (Hu=10,0 kW/Nm³)	16,5 Nm³/h	16,5 Nm³/h	16,5 Nm³/h
Power requirement (kW)	3,0 kW		
BUS-System	Modbus TCP		
Remote maintenanceTCP/IP	Yes		
Engine			
Type	R4		
Engine displacement	4,9 L		
Engine Type	Naturally aspirated		
Brennstoffeinsatz ²	177 kW		
RPM, min ⁻¹	1800		
ISO standard power (mech.) ²	64 kW		
Engine cooling water heat quantity	59 kW		
Exhaust gas heat capacity 110 °C	44 kW		
Efficiency Thermal ²	58,2 %		
Efficiency Combined (el. + th.) ²	94,4 %		
Engine oil	semi-synthetic		
Lubrication oil consumption	19,2 g/Bh		
Filling capacity lubricant (max.)	11,5 + 100 L		
Compressor			
Manufacturer	Atlas Copco		
Heat recovery compressor	48 kW	48 kW	46 kW
outlet pressure, barg ³	7	8,5	10
Free air delivery (FAD), m³/min ³	9,7	8,8	7,7
Modulation / power control	60 - 100 %		
compressed air connection	DN 50 PN 16		

Gas supply			
Gas train	nach DIN		
Interface Gas	DN 25 (1")		
Gas flow pressure	30 - 50 mbar		
Air supply			
Combustion air mass flow	223 kg/h		
Air temperature	25 °C		
Exhaust			
Interface Exhaust	DN 80		
TA-Luft	yes		
Exhaust temperature	650 °C		
Condensate mass flow	25 kg/h		
Max. permissible back pressure	< 15 mbar		
flow rate, dry	193 Nm³/h		
mass flow, wet	236 kg/h		
Hydraulic integration	30/60	70/103 ⁴	
Interface inlet/outlet	DN 50 (2")	DN 50 (2")	
Norm in-/outlet temperatur	30 / 60 °C	70 / 103 °C ⁴	
Standard flow rate	0,5 m³/h	4,5 m³/h	
heating water pressure	2,5 bar (ü)	4 bar (ü)	
Dimensions / Weight			
Dimensions (lxwxh), mm	2955x1400x2000		
Weight Module (w/o operating fluids)	3500 kg		
Dimensions housing (LxBxH), mm	3200x1630x2100		
Weight housing	600 kg		
Dimensions cabinet (LxBxH), mm	1200x1200x400		
Weight cabinet	130 kg		
Recommended concrete strength	C20/25		
Payload, qk	3,5 kN/m²		

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

⁴ 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	
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	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, commisioning	yes

Subject to technical changes