

Flexi 260

NG | 50Hz

OPEN MODULE | SOUND ENCLOSURE | CONTAINER

Basic technical data

Electrical output	260 kW	Voltage	400 V
Heat output nominal/max. ¹⁾	370/392 kW	Frequency	50 Hz
electrical efficiency	38,0 %	Service weight	
heat efficiency nominal/max. ¹⁾	54,0/57,2 %	- open module (OM)	7 t
total efficiency nominal/max. ¹⁾	92,0/95,2 %	- sound enclosure (SE)	8 t
fuel input	685 kW	- container (C)	11,5 t
secondary circuit temperature inlet/outlet	70/90 °C		

1) Heat output is formed of secondary circuit heat output. Max. heat output (max. efficiency) of CHPU using NG or LPG is valid if the economiser is used and return water temperature is 35°C. For biogas fuels the usage of an economiser is not permitted.

Emission		stoichiometric mixture	
NOx emission at 5% O2 in exhaust gas standard/option		95/50	mg/Nm ³
CO emission at 5% O2 in exhaust gas standard/option		250/-	mg/Nm ³
HCHO emission at 5% O2 in exhaust gas standard/option		60/20	mg/Nm ³
Noise parameters		standard	silent ¹⁾
OM	- CHPU at 1m	92	
	- exhaust gas outlet at 1m from silencer flange ²⁾	65	
SE	- CHPU at 1m	76	65
	- ventilation inlet/outlet at 1m	92	65
C	- exhaust gas outlet at 1m from silencer flange ²⁾	65	65
	- CHPU at 10m	58	

1) Option.

2) Noise parameters can be further optimized according to the specific requests (option).

Notes

The Basic Technical Data are applicable for the standard conditions pursuant to the "Technical instructions" document. The minimum permanent electrical output must not drop below 50 % of the nominal output. Gas consumption is expressed under the invoicing conditions (15°C, 101.325 kPa) and gas LHV 34 MJ/m³. Gas consumption tolerance, or fuel input tolerance, at 100% load is +5%. Tolerances of other parameters are mentioned in "Technical Instructions-Validity of Technical Data" document.

Flexi 260

NG | 50Hz

OPEN MODULE | SOUND ENCLOSURE | CONTAINER

Extended technical data

Standard design	100%	75%	50%		Optional designs	ECO ²⁾	ECO-C ³⁾	
electrical output	260	195	130	kW	electrical output	260	260	kW
heat output ¹⁾	370	299	238	kW	max. heat output	380	392	kW
gas consumption	73	57	42	m ³ /h	fuel input	685	685	kW
fuel input	685	536	401	kW	electrical efficiency	38,0	38,0	%
electrical efficiency	38,0	36,4	32,4	%	heat efficiency	55,5	57,2	%
heat efficiency	54,0	55,8	59,4	%	total efficiency	93,5	95,2	%
total efficiency	92,0	92,2	91,8	%				

1) Heat output is formed of a secondary circuit heat output with exhaust gas cooled to 120°C.

2) Design with economiser (ECO) with return water temperature 70°C.

3) Design with economiser (ECO-C) with return water temperature 35°C.

Electrical parameters

voltage	400 V	operational current at cos φ=0,9	417 A
frequency	50 Hz	short circuit resistance of the switchboard	25 kA
nominal current	469 A	contribution of the actual source to the short-circuit current	< 5 kA
nominal power factor (GCB settings)	0,8	cos φ regulation range (underexcited/overexcited) ¹⁾	0,9±1±0,9

1) Operation of generator with power factor lower than 0,98 decreases generator efficiency, what can cause reduction of the CHPU active power.

Engine / Generator

Engine	E3262 E302	Generator	LSA 46.3 L11
producer	MAN	producer	LEROY SOMER
oil consumption normal/max.	0,26/0,33 g/kWh		
quantity of oil in the engine	90 dm ³		
volume of oil tank for refilling	220 dm ³		

Flexi 260

NG | 50Hz

OPEN MODULE | SOUND ENCLOSURE | CONTAINER

Heat system

Secondary circuit		Primary circuit	
heat carrier: water		heat carrier: antifreeze	
heat output	370 kW	ethylene glycol concentration	40 %
inlet/outlet temperature	70/90 °C	heat output	370 kW
min./max. inlet temperature	50/70 °C	max. allowed pressure in circuit	350 kPa
nominal flow	4,4 kg/s	volume	315 dm ³
max. allowed pressure in circuit	1600 kPa		
volume	56 dm ³		
pressure drop at nominal flow	15 kPa		

Exhaust gas

amount	892 kg/h	temperature at the CHPU outlet nominal/max.	120/150 °C
temperature at the engine outlet	570 °C	max. allowed back-pressure	1 kPa

Fuel

natural gas		pressure (OM, SE)	3-10 kPa
low heat value	34 MJ/m ³	pressure (C)	5-10 kPa
min. methane number	80	max. temperature	35 °C

Combustion and ventilation air

Combustion air		Ventilation		
ambient temperature min./max. (OM, SE)	10/35 °C	OM	SE	C
ambient temperature min./max. (C)	-20/35 °C			
amount	839 kg/h			
unused heat removed by the ventilation		25	25	25 kW
max. amount of ventilation air at the outlet flange			6500	m ³ /h
max. air temperature at the outlet flange			50	°C
max. back-pressure at the ventilation air inlet flange			50	Pa
max. back-pressure at the ventilation air outlet flange			50	Pa

Flexi 260

NG | 50Hz

OPEN MODULE | SOUND ENCLOSURE | CONTAINER

Related documents

dimensional drawing OM	R2266
dimensional drawing SE	R2310
dimensional drawing C	R2270
