

KAESER MOBILAIR M500-2

The portable powerhouse for air-hungry applications



The king of portable oil-free compressors

Expertly engineered for maximum versatility and fuel efficiency, the innovative M 500-2 is always ready where it's needed, when it's needed. It delivers a dependable supply of quality compressed air to provide seamless operation when maintenance or restructuring work is necessary. Additional fields of application include, for example, the automotive, food, chemical and pharmaceutical industries. The integrated SIGMA CONTROL Mobile matches maximum engine speed according to required air delivery and pressure (between 4 and 10.3 bar). The compressed air discharge temperature can be pre-selected. The machine is built on an auxiliary chassis with parking brake for moving and for safe parking.

Free air delivery / maximum pressure:

The maximum operation pressure can be set between 6.9 bar and 10.3 bar. Depending on the pressure, the FAD ranges proportionally between 38.0 m³/min at 10.3 bar, 43.3 m³/min at 9.3 bar up to 45.8 m³/min at 6.9 bar.

Engine:

Caterpillar C18 with 429 kW, exhaust emission stage IIIA

Fuel consumption / fuel tank volume:

With a full load consumption of 81 l/h the fuel tank volume of 1150 l is sufficient for two-shift operation.

Dimensions / weight:

6006 x 2270 x 2772 mm (L x W x H without towbar)
approx. 11.200 kg operational weight

Compressed air connections:

1x DN80 + 1x G1

On the flange connection the compressed air temperature can be adjusted. Thus hot compressed air is also available.

Features:

- ✓ Simple operation with SIGMA CONTROL Mobile
- ✓ compressed air aftercooler (10K) with cyclone separator
- ✓ spark arrestor and engine closing valve
- ✓ closed floor pan
- ✓ switchable from internal to external fuel supply
- ✓ GPS/GSM-modem for MOBILAIR fleet management
- ✓ with crane and rigging eyes, plus fork lift pockets for safe transport

OILFREE.AIR



Standard features M 500-2

SIGMA CONTROL Mobile

- Pressure adjustment with engine speed regulation
- Setting of compressed air discharge temperature (10-50 K above AT; max. 65°C)
- Remote start via radio remote controller
- Automatic start-stop mode
- GPS/GSM-modem

Transport:

- Auxiliary chassis with parking brake
- Crane lifting eye (double-strap lifting)
- Walk-on roof with service ladder
- Fork lift pockets
- Rigging eyes

Maintenance:

- Central draining points for oil and cooling agent of engine and compressor
- LED-illuminated machine interior
- Service covers on the roof
- Walk-on roof with service ladder
- MOBILAIR fleet management

Operation:

- Compressed air aftercooler
- Connection to external fuel tank
- Additional 40 l engine oil tank
- Hot air connection available
- Spark arrestor and engine closing valve
- Closed floor pan

Electrics:

- Battery charger (230V external)
- Heaters for engine cooling agent, compressor gear oil, hydraulic oil (230V external)
- Heater for condensate drain and fuel filter (24V on-board voltage)

Technical specifications

MOBILAIR 500-2



FAD at nominal pressure	engine	
6.9 bar (100 PSI): 45.8 m³/min (4.0 - 6.9 bar)	manufacturer: Caterpillar, C 18	fuel tank capacity: 1150 l
8.6 bar (125 PSI): 44.0 m³/min	nominal power: 429 kW	fuel consumption at full load: 81 l/h
9.3 bar (135 PSI): 43.3 m³/min	full load speed: 1900 rpm	theoretical operation time: 14.2 h
9.5 bar: 42.5 m³/min	idling speed: 1250 rpm	dimensions w/out towbar (L x W x H): 6006 x 2270 x 2772 mm
10.3 bar (150 PSI): 38.0 m³/min	exhaust emission stage: IIIA	operational weight: 11.200 kg

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