

KAESER MOBILAIR 500-2

The portable powerhouse for large projects



The flagship of oil-free portable compressors:

Sophisticated compressed air expertise for a multitude of applications. Economical, innovative and environmentally-friendly, the M 500-2 is the perfect choice to provide a continuous supply of quality compressed air, even when maintenance or conversion work is taking place. This compressed air powerhouse is also at home in power stations, in the automotive, food, petrochemical and pharmaceuticals industries, as well as in refineries. The integrated SIGMA CONTROL MOBIL controller adjusts engine speed to deliver the exact volume of air needed for the specific task at hand at pressures between 3.0 and 10.3 bar. Furthermore, the compressed air discharge temperature can be preselected.

Delivery volume / Maximum pressure

Maximum working pressure is adjustable between 3.0 bar and 10.3 bar. The delivery volume remains proportional, between 38.0 m³/min at 10.3 bar, 43.3 m³ at 9.3 bar and 45.8 m³/min at 3.0 to 6.9 bar.

Engine

Caterpillar C18 with 429 kW or 447.5 kW, Emissions Stage IIIA, V or Tier 4 final as required.

Fuel consumption / Capacity

With a full-load consumption of \varnothing 81 l/h, the fuel tank volume is sufficient to last for two operating shifts.

Dimensions / Weight

Mobile version: 6006 x 2270 x 2772 mm
(LxWxH without tow bar)

Version with skids: 6467 x 2438 x 2730 mm
c. 11,800 kg operating weight

Compressed air connection

1x DN80 + 1x G1

Hot air connection with discharge temperatures up to 240 °C

Equipment

- ✓ SIGMA CONTROL MOBIL
- ✓ Compressed air aftercooler (10K with centrifugal separator)
- ✓ Spark arrester and engine closing valve
- ✓ Closed floor pan
- ✓ Fuel supply can be switched from internal to external
- ✓ GPS/UMTS modem for MOBILAIR fleet management
- ✓ With lifting and lashing eyes and forklift pockets for secure transportation

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Option: Version with skids

M 500-2 standard equipment

SIGMA CONTROL MOBIL

- Pressure adjustment with engine speed regulation
- Adjustable compressed air discharge temperature (10-50 K over ambient; max. +65 °C)
- Remote start via radio remote control
- Can be switched from partial load control to DUAL control
- Automatic start/stop (adjustable)
- GPS/UMTS modem

Transportation:

- Auxiliary chassis with parking brake
- Lifting eyes (double-strand hoisting)
- Fully accessible roof with service ladder
- Forklift pockets
- Lashing eyes

Operation:

- Compressed air aftercooler
- Connection to external fuel supply
- Additional 40 l engine oil tank
- Spark arrester and engine shut-off valve
- Closed floor pan

Maintenance:

- Central drainage points for oil and coolant from engine and compressor
- LED interior lighting
- Service doors on each side offer optimum access to all components
- Service openings to roof
- MOBILAIR fleet management

Electrical equipment:

- Heaters for engine coolant, compressor gear oil, hydraulic oil
- Heaters for condensate separator and fuel filter

Technical specifications

Exhaust emissions stage	Manufacturer	Model	Delivery volume		Rated power kW	Full-load speed rpm	Idle speed rpm	Fuel tank capacity		Consumption		Theor. operating time h
			bar	m ³ /min				Diesel l	DEF l	Full load l/h	Idle l/h	
Stage IIIA	Caterpillar	C18	3,0 – 6,9	45,8	429	1900	1250	1150	–	81	9	14,2
Stage V / Tier 4 final	Caterpillar	C18	9,3 10,3	43,3 38,0	447,5	1900	1250	940	45	81	9	11,6