



# MOBILAIR M 135/M 170

## Portable Compressors

With the world-renowned SIGMA PROFILE

Flow rate 10.5 to 17.0 m<sup>3</sup>/min (370 – 600 cfm)

# MOBILAIR M 135/M 170

## The perfect energy-saving combination: Deutz engines and KAESER airends

The powerful partnership of an energy-saving Deutz engine and the highly efficient KAESER SIGMA Profile rotary screw airend combines outstanding performance with considerably reduced fuel consumption. The MOBILAIR M 135/M 170 can operate at full power for a whole work shift without refuelling.

Furthermore, users not only benefit from the quality of two world-class products, but can also rely on the comprehensive KAESER KOMPRESSOREN and Deutz global service networks to ensure maximum machine availability.

## Exceptional versatility

The MOBILAIR M 135/M 170 is in a class of its own when it comes to versatility, as it can be specifically tailored to meet the needs of the relevant application.

Options include compressed air treatment components, a choice of a fully galvanised chassis with overrun brake and a fixed or height adjustable tow bar, or stationary versions either installed on skids or machine mounts.

## Ambient temperature

Standard units are rated for ambient temperatures between -10 and +50° C. A version for lower ambient temperatures is also available.

## Simple to operate

The ability to switch over manually from idling to full load operation ensures a reliable, gentle start when operating the unit in cold ambient conditions.

The SIGMA CONTROL MOBILE and intuitive operation mean that only 3 buttons are required to operate the M 135/M 170. Features also include automatic monitoring and shutdown and a metal cover flap to protect the control panel.

## Excellent accessibility

The M 135/M 170's user-friendly design not only ensures simple operation and outstanding manoeuvrability: the unit's large enclosure doors also provide excellent component accessibility for unrivalled ease of service. Stationary systems are equipped as standard with maintenance connections for draining of engine oil and compressor fluid.

## Generator

The optionally available synchronous 3-phase generator (IP54) for the M 135 delivers 23 kVA. The brushless unit is maintenance-free and delivers frequency and voltage data to the compressor control system. This consequently ensures maximum reliability and best possible compressed air delivery volumes even at times of high energy demand.



## Compact and efficient powerhouses



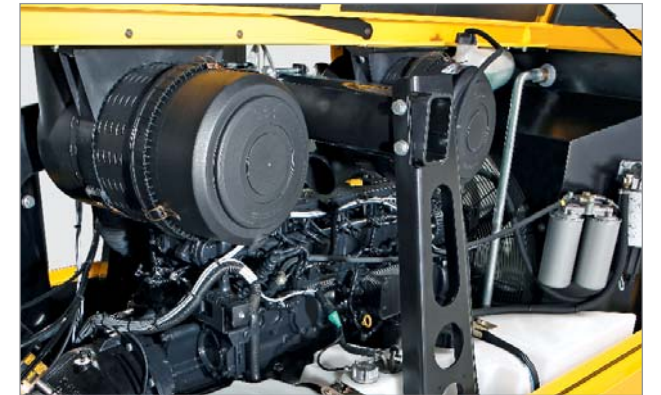


## Perfect performance even in extreme conditions



### Simple and convenient pressure adjustment

Using the arrow keys, system pressure can be precisely adjusted in 0.1 bar increments on the SIGMA CONTROL MOBILE's display. This not only increases flexibility but, in combination with the electronic inlet valve control, also achieves significant energy savings – especially when operating in partial load.



### Dedicated intake filter for engine and compressor

Optimised design and separate air filters considerably enhance reliability and service life. The filters can be changed on-site quickly and easily as required.



### Oil temperature control

The automatically controlled thermostatic valve ensures that optimal operating temperature is reached quickly and reliably. It therefore protects the compressor's fluid circulation loop from excessive condensate accumulation. This in turn significantly extends cooling fluid and separator cartridge service life and also augments the unit's long-term durability.



### Large capacity, transparent fuel tank

When fully filled, the tank carries sufficient fuel for an entire work shift without the need for refuelling. For ease of operation, the fuel level can be seen at a glance via the analogue fuel gauge; an automatic shut-down feature is activated when the fuel level becomes too low. A pre-warning from the SIGMA CONTROL MOBILE provides additional peace of mind.

# Available equipment

## Sealed floor pan

The sealed floor pan immediately catches all liquids and therefore prevents potential soil contamination in environmentally sensitive zones. All drainage holes are sealed with screw plugs.

## Pressure variants

Models are available in various pressure versions ranging from 8.6 to 14 bar. Pressure can easily be adjusted in steps of 0.5 bar from 5 bar to 0.5 bar above nominal pressure using the SIGMA CONTROL MOBILE's arrow keys. The pressure adjustment feature can also be electronically disabled to prevent tampering.

## Suitable for refinery use

A certified spark arrestor is available for refinery applications. The engine shut-off valve automatically shuts the unit down upon intake of combustible gases.

## Compressed air treatment

The compressed air is cooled to 7 °C above ambient temperature. The condensate is removed via a centrifugal separator and is subsequently evaporated by the hot exhaust gases from the engine. A filter combination can be installed for applications requiring technically oil-free compressed air and a plate-type heat exchanger can be installed for heat recovery purposes.

Machines with the optional compressed air aftercooler and return heating combination allow users to easily adjust the compressed air discharge temperature to meet the needs of the specific application.

## Industry 4.0 @ Mobilair

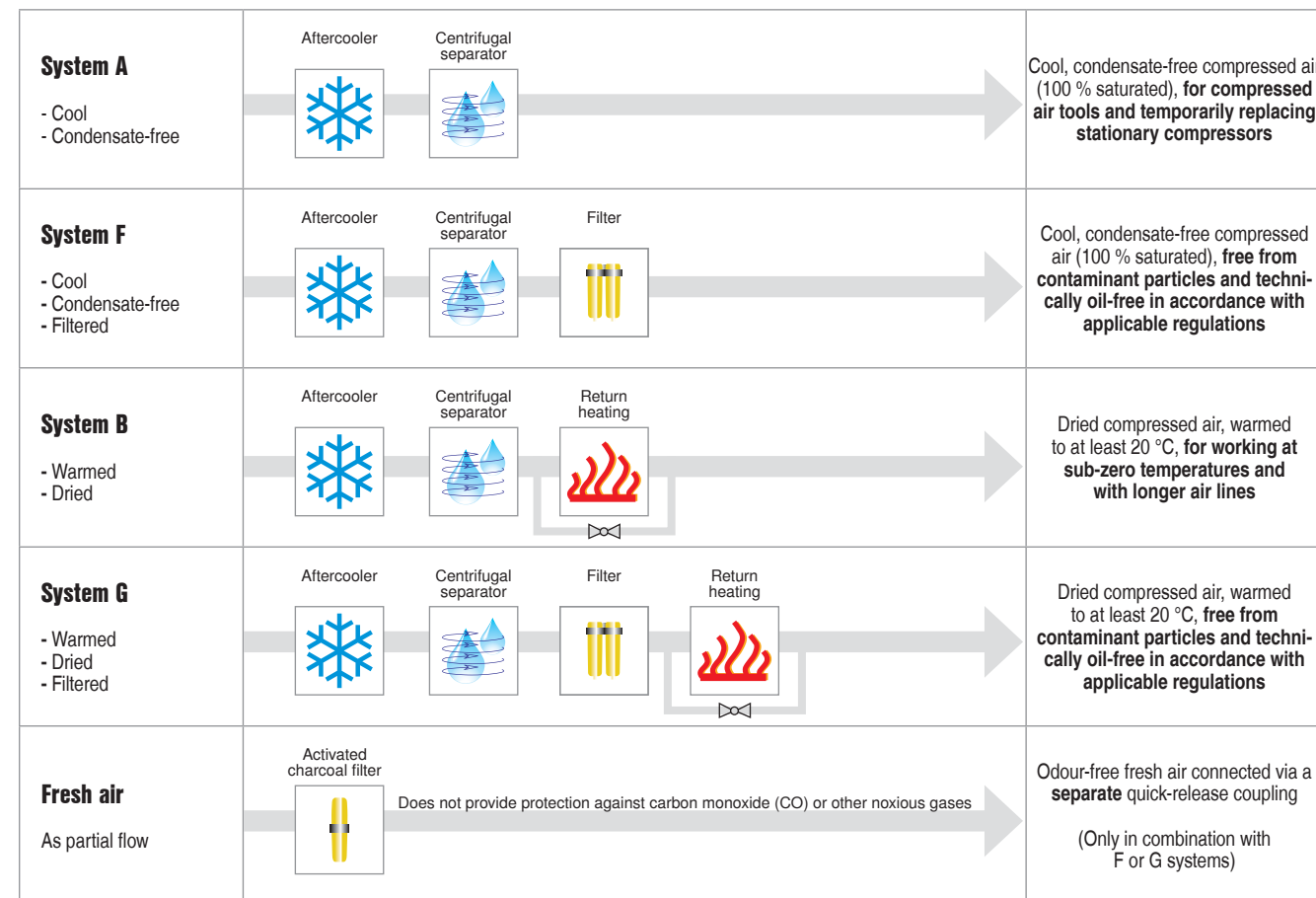
The MOBILAIR Fleet Management online tool provides operators with a range of data including working pressure, fuel level, service alerts, location and machine loading. The system optimises service processes by sending notifications regarding e.g. fault causes and upcoming scheduled maintenance measures.

# Technical specifications

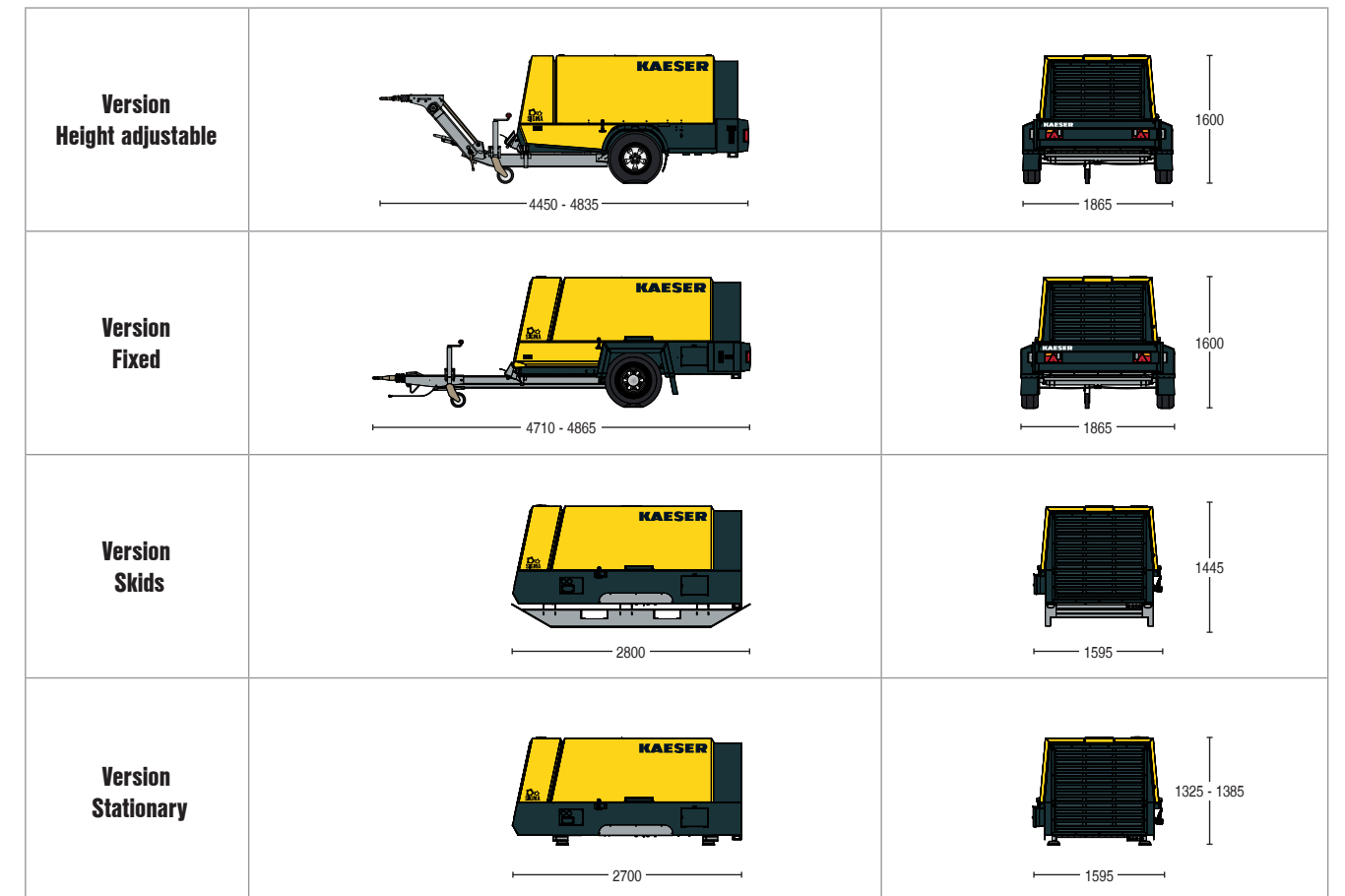
Model	Compressor				Diesel engine (Water-cooled)				Package		
	Flow rate		Operating pressure		Make	Type	Rated engine power	Speed at full load	Fuel tank capacity	Operational weight <sup>1)</sup>	Compressed air outlet
	m³/min	cfm	bar	PSI							
M 135	13.0 12.0 10.5	460 425 370	10 12 14	145 175 200	Deutz	TCD 2013 L04 4-cylinder	122	2000	200	2500	3 x G ¾ 1 x G2
M 170	17.0 15.5 13.5 11.5	600 550 475 405	8.6 10 12 14	125 145 175 200	Deutz	TCD 2012 L06 6-cylinder	128	1800	200	2600	3 x G2 1 x G2
M 135 with 23 kVA generator	10.0 – 13.0 9.5 – 12.0 8.5 – 10.5	355 – 460 335 – 425 300 – 370	10 12 14	145 175 200	Deutz	TCD 2013 L04 4-cylinder	122	2000	200	2500	3 x G ¾ 1 x G2

<sup>1)</sup> Weight specifications for basic system without compressed air treatment

# Compressed air treatment systems



# Dimensions



# The world is our home

As one of the world's largest compressed air systems providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners.

With innovative products and services, KAESER KOMPRESSOREN's experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency. Moreover, the decades of knowledge and expertise from this industry-leading system provider are made available to each and every customer via the KAESER group's global computer network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that every product operates at the peak of its performance at all times and provides maximum availability.



## KAESER KOMPRESSOREN SE

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