

# HPC

# KAESER COMPRESSORS®



## MOBILAIR® M 59 and M 65

### Portable Compressors

With the world-renowned SIGMA PROFILE<sup>®</sup>

Flow rate 3.8 to 6.6 m<sup>3</sup>/min (135 – 230 cfm)

[www.kaeser.com](http://www.kaeser.com)

# MOBILAIR® M 59 and M 65

Rugged and dependable, the powerful combination of a highly efficient KAESER rotary screw airend featuring the energy-saving SIGMA PROFILE and an environmentally friendly engine – certified in accordance with EU Stage V – delivers exceptional performance and fuel economy with lowest possible emissions.

Furthermore, versions equipped with the rotomoulded polyethylene enclosure option show their true strength in adverse operating conditions thanks to their impressive impact resistance. Using aluminium components, the lightweight version of the M 59 is no less robust, yet weighs in at less than 750 kg, making it especially versatile when it comes to transportation. Both versions, however, share a core characteristic – absolute operational flexibility thanks to efficient *pV* Control (pressure-volume control).

## Versatile and adaptable

These versatile portable compressors can be perfectly tailored to meet the specific needs of the individual application, thanks to a wide range of optional treatment components that always deliver the required compressed air quality. The unbraked, lightweight version of the M 59 constructed from aluminium is particularly versatile: since it weighs less than 750 kg, no special trailer licence is required. A choice of various overrun-braked chassis is available for the PE version of the M 59 and M 65. They can also be specified as stationary versions equipped with skids or machine feet, making them the perfect choice for any operational location.

## Safe and simple

An electronically controlled motor starting function, coupled with the ability to switch over manually from unloaded start to full load operation, ensures a reliable start-up when operating in cold conditions. Furthermore, the monitoring system can automatically shut down the compressor if needed.

## Durable and robust

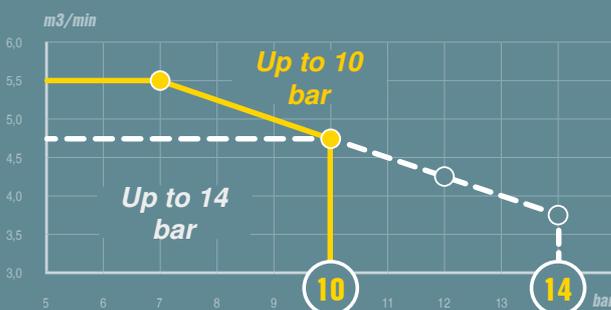
The MOBILAIR M 59 and M 65 are well equipped for demanding, long-term construction site use under the harshest of operating conditions. Even standard versions are capable of operating in ambient temperatures ranging from -10 °C to +45 °C. The optional low-temperature version features engine coolant preheating, whilst synthetic cooling fluid is used in the airend.

## Made in Germany

The various MOBILAIR portable compressor ranges are all manufactured at KAESER's headquarters in Coburg, Northern Bavaria. Equipped with the very latest technology, the recently modernised portable compressor plant boasts state-of-the-art equipment, including a TÜV-certified sound testing area for free-field sound level measurement, a premium powder-coating facility and efficient manufacturing logistics.

## Choice of 2 pressure variants

Example: M 59



## *pV* Control

Thanks to *pV* Control, maximum pressure (*p*) – adjustable in steps of 0.1 bar between 6 and 14 bar – directly influences the maximum possible flow rate (*V*), thereby providing even greater flexibility in terms of both pressure and flow rate. This adjustment option is particularly useful when using long hose lines.

# Take flight with flexible compressed air performance





# Clean, efficient operation



## Low emissions

The M 59 and M 65 are both certified in accordance with EU Directive 2016/1628, Stage V, to ensure clean-air operation wherever they are used – not just in Low Emission Zones. Furthermore, with a diesel particulate filter fitted as standard, these environmentally friendly powerhouses meet the stringent requirements of the Swiss Clean Air Act.



## SIGMA CONTROL SMART

Using state-of-the-art electronic engine management, this advanced compressor controller ensures optimised compressed air availability, fuel efficiency and exhaust air management. Functions include an operating mode display and an intuitive user interface, as well as system monitoring and diagnostics.



## Spin-on cartridges for low oil carry-over

For faster maintenance, the M 59 and M 65 are fitted with a new spin-on cartridge for the oil separator tank. This makes replacement quick and easy for seamless, cost-effective servicing.



## Service-friendly with excellent access

No matter whether the lightweight aluminium version, or with PE wing doors, all maintenance points are easily accessible. Service work can therefore be carried out quickly and efficiently; optional customised service contracts are also available.



# Design is in the details



## Anti-Frost Control

Specially developed by KAESER for portable compressors, the Anti-Frost Control automatically adjusts operating temperature in relation to ambient. In combination with the optional tool lubricator, this feature prevents air tools from freezing up and therefore significantly extends service life.



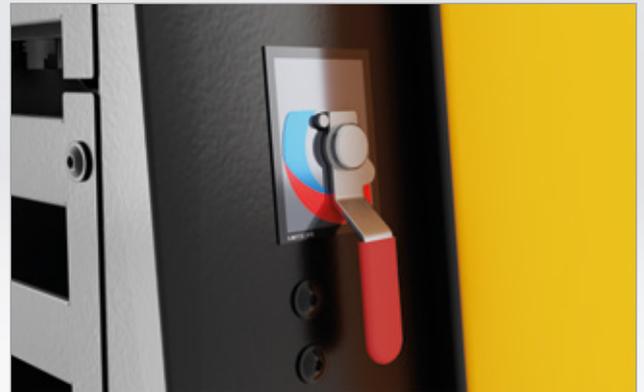
## Cool and condensate-free

The compressed air is cooled to 7 °C above ambient temperature. Thanks to its angled installation, the compressed air aftercooler is protected from potential frost damage, as accumulating condensate is reliably drained off and evaporated in an environmentally friendly manner.



## Oil-lubricating or oil-free?

Depending on the application, the M 59 and M 65 can be equipped with an optional tool lubricator for lubricating compressed air tools, or with a microfilter combination for blasting work requiring technically oil-free compressed air (see image on page 7).



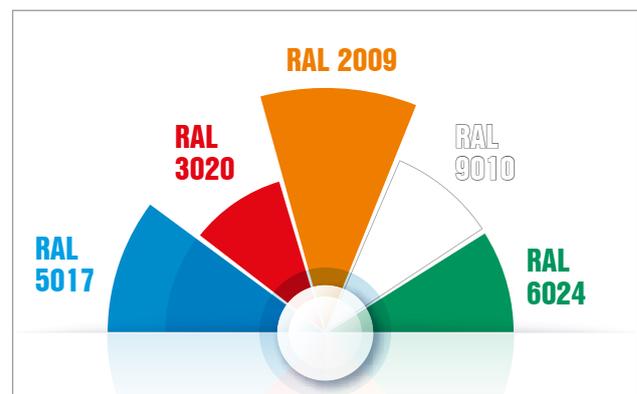
## Dry compressed air

The plate-type heat exchanger reheats the cooled compressed air using heat from the compressor cooling fluid. This prevents condensation from forming outside the unit when the compressed air cools. The compressed air temperature can be easily adjusted as required from the exterior of the machine.



### Safe & easy to transport

Regardless of the destination, safety is KAESER's key priority when it comes to transporting the M 59 PE / M 65 PE. These mobile all-rounders are equipped with lifting eyes as standard, whilst the optional forklift pockets make transportation even more convenient.



### Special PE colours

The PE enclosure is readily available in the following special colours: blue – equivalent to RAL 5017, red – equivalent to RAL 3020, orange – equivalent to RAL 2009, white – equivalent to RAL 9010 and green – equivalent to RAL 6024. Other enclosure colours, as well as customised colours for metal components, are available upon request.



### Suitable for refinery use

The M 59 PE is available with a certified spark arrester for refinery applications. The engine shut-off valve automatically shuts the machine down upon intake of combustible gases to ensure maximum safety.



### Perfect generator control

The M 59 PE is available with the option of either an 8.5 or a 13 kVA generator. Ensuring perfect interplay with the engine management system, the SIGMA CONTROL SMART compressor controller delivers maximum compressed air availability relative to power demand.

# Available equipment

## Closed floor pan

The closed floor pan immediately catches any liquids to prevent potential contamination of the floor or ground. All drainage openings are sealed with screw plugs.

## Pressure variants

Depending on the intended application, models are available in two pressure versions – 10 and 14 bar. Pressure can be easily reduced in 0.1 bar steps, down as far as 7 bar, via the SIGMA CONTROL SMART controller. The pressure adjustment feature can also be electronically disabled to prevent tampering.

## Industrie 4.0 @ MOBILAIR

With the TELEMATICS 24 option, Industrie 4.0 comes to the construction site. Optionally available for various countries and following approval of the data usage contract, KAESER can equip compressors ex works – at no extra cost – with a modem and connect them to the Telematics portal.

The best part: KAESER pays the portal fees for 24 months. You can therefore view operating data, current messages and system location online. Through anonymous evaluation of the machine data by KAESER, you help to make system operation and usage even more efficient and reliable.

# Compressed air treatment variants

<p><b>System A</b></p> <ul style="list-style-type: none"> <li>- Cool</li> <li>- Condensate-free</li> </ul>		<p>Cool, condensate-free compressed air (100% saturated), <b>for compressed air tools and temporary replacement of stationary compressors</b></p>
<p><b>System F</b></p> <ul style="list-style-type: none"> <li>- Cool</li> <li>- Condensate-free</li> <li>- Filtered</li> </ul>		<p>Cool, condensate-free compressed air (100% saturated), <b>free from contaminants and technically oil-free as per applicable regulations (ZTV-ING)</b></p>
<p><b>System B</b></p> <ul style="list-style-type: none"> <li>- Warmed</li> <li>- Dried</li> </ul>		<p>Dried compressed air, reheated to a min. of 20°C, <b>for working at sub-zero temperatures and with longer compressed air lines</b></p>
<p><b>System G</b></p> <ul style="list-style-type: none"> <li>- Warmed</li> <li>- Dried</li> <li>- Filtered</li> </ul>		<p>Dried compressed air, reheated to a min. of 20°C, <b>free from contaminants and technically oil-free as per applicable regulations (ZTV-ING)</b></p>

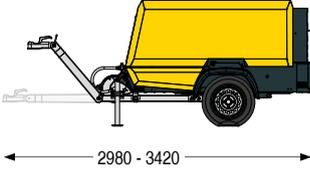
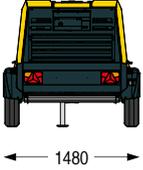
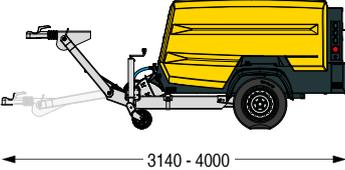
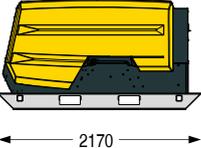
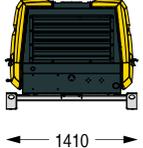
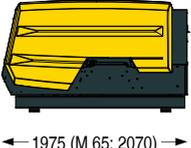
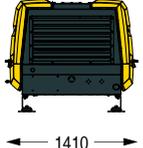
# Technical specifications

Model	Pressure variant	Compressor				Diesel engine (water-cooled)			Complete system				Options						
		pV Control range Flow rate per pressure setting				Make / model	Rated engine power kW	Speed at full load rpm	Fuel tank capacity l	Operating weight kg <sup>1)</sup>	Sound emissions dB(A) <sup>2)</sup>	Compressed air outlet	Compressed air treatment	Generator					
		@ 7 bar (100 psi)	@ 10 bar (145 psi)	@ 12 bar (175 psi)	@ 14 bar (200 psi)														
M 59	10 bar (145 psi)	5.5 m <sup>3</sup> /min (195 cfm)	4.7 m <sup>3</sup> /min (165 cfm)	-	-	Hatz 3H50TICD	43.5	2300 – 2700	60	740	69	2 x G ¾ 1 x G 1	A	-					
	14 bar (200 psi)	4.7 m <sup>3</sup> /min (165 cfm)	4.7 m <sup>3</sup> /min (165 cfm)	4.3 m <sup>3</sup> /min (150 cfm)	3.8 m <sup>3</sup> /min (135 cfm)										80	900	A / B / F / G	8.5 kVA or 13 kVA	
M 59 PE	10 bar (145 psi)	5.5 m <sup>3</sup> /min (195 cfm)	4.7 m <sup>3</sup> /min (165 cfm)	-	-				Kubota V2403CR-T	47.9			2700	80					900
	14 bar (200 psi)	4.7 m <sup>3</sup> /min (165 cfm)	4.7 m <sup>3</sup> /min (165 cfm)	4.3 m <sup>3</sup> /min (150 cfm)	3.8 m <sup>3</sup> /min (135 cfm)										90	970	-		
M 65 PE	10 bar (145 psi)	6.6 m <sup>3</sup> /min (230 cfm)	5.6 m <sup>3</sup> /min (195 cfm)	-	-	Kubota V2403CR-T	47.9	2700			90	970		68				A / B / F / G	-
	14 bar (200 psi)	5.6 m <sup>3</sup> /min (195 cfm)	5.6 m <sup>3</sup> /min (195 cfm)	5.1 m <sup>3</sup> /min (180 cfm)	4.6 m <sup>3</sup> /min (160 cfm)										90	970	-		

<sup>1)</sup> Basic unit weight incl. chassis with height-adjustable tow bar, without options (lightweight version unbraked / PE version with overrun brake)

<sup>2)</sup> Sound pressure level measured as per ISO 3744 (r = 10m); guaranteed sound power level as per 2000/14/EC = 98 dB(A)

# Dimensions

<b>Lightweight version:</b> <b>Unbraked</b> (M 59 only)	 <p>2980 - 3420</p>	 <p>1480</p> <p>1370</p>
<b>PE version:</b> <b>With overrun brake</b>	 <p>3140 - 4000</p>	 <p>1540</p> <p>1445</p>
<b>Skid-mounted version</b>	 <p>2170</p>	 <p>1410</p> <p>1210</p>
<b>Stationary version</b>	 <p>1975 (M 65: 2070)</p>	 <p>1410</p> <p>1200 - 1220</p>

# The world is our home

As one of the world's largest compressed air system providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners in over 100 countries.

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.



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Air Systems

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