KAESER COMPRESSORS®

MOBILAIR® M 52/M 70

Portable Compressors

With the world-renowned SIGMA PROFILE

Flow rate 5.2 to 7.0 m³/min (185 – 250 cfm)

www.kaeser.com

MOBILAIR® M 52/M 70

The perfect energy-saving combination: Kubota engine and KAESER airend

The powerful combination of an energy-saving Kubota engine and the highly efficient KAESER SIGMA PROFILE rotary screw airend delivers outstanding performance with significantly reduced fuel consumption. The MOBILAIR M 52/M 70 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 and Kubota global service networks to ensure maximum machine availability.

Durable and versatile

The M 52 and M 70 are in a class of their own when it comes to versatility, as they can be precisely tailored to meet the needs of the relevant application. Options include compressed air treatment components, a three-phase generator, 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.

Tool storage compartment

The storage compartment available with standard models is replaced by the tool storage compartment shown in the image for units equipped with a generator.

Ambient temperature

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

Made in Germany

MOBILAIR portable compressors are manufactured at KAESER's headquarters located 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 (German Technical Inspection Agency) certified sound testing area for free-field sound level measurement, a complete powder-coating facility and efficient manufacturing logistics.

Compressed air and power

The M 52's three-phase brushless generator (IP54) reliably delivers impressive power of 8.5 kVA – and is maintenance-free. It's also versatile: to best suit the given situation, a switch allows the user to choose between continuous operation and energy-saving automatic-start mode.

Exceptional power and versatility

Image: M 52

MADE IN GERMANY

Extreme conditions? No problem!

Easy to operate

The user-friendly control and instrument panel – which can be equipped with a cover flap if required – enables all information to be viewed at a glance. Features also include automatic monitoring and shutdown in the event of a fault. Reliable, gentle starts are guaranteed, even in cold temperatures, thanks to manual switch-over from pressure-free start-up to load operation, and a start switch that features a pre-warming function.

Large capacity, transparent fuel tank

When fully filled, the fuel tank carries sufficient fuel for an entire work shift without the need for refuelling. Diesel line deaeration is made simple via the fuel feed pump (Start switch).

Separate intake filters for engine and compressor

The separate intake filters for the compressor and engine are optimally dimensioned for enhanced performance and can be changed quickly and easily on-site.

Patented Anti-Frost Control

For M 52/M 70 models not equipped with compressed air treatment or with compressed air return heating, KAESER's patented Anti-Frost Control automatically regulates operating temperature in relation to ambient. Together with the optional tool lubricator, this not only prevents tools from freezing, but also extends air tool service life and availability.

Equipment variants

Hose reel

The pre-installed hose reel holds 20 m of lightweight hose which does not have to be fully reeled out for operation. Because the hose is installed within the compressor unit, hose service life and availability are enhanced. The hose is also therefore protected from damage (kinking, stretching, being run over) and soiling.

Suitable for refinery use

The M 52 and M 70 are available with a certified spark arrestor for units intended for use in refineries. For added protection, the M 70's engine shut-off valve automatically switches the machine off upon intake of combustible gases.

Cool, clean compressed air

The compressed air is cooled to 7 °C above ambient temperature. Accumulated condensate is able to drain away easily, since the compressed air cooler is installed at an angle; the hot exhaust gases from the engine are also used to aid condensate evaporation. This design consequently ensures reliable frost prevention during the winter months.
Additional air treatment components need to be installed downstream from the aftercooler and centrifugal separator (e.g. filter combinations for concrete cleaning as per ZTV-ING) in order to achieve compressed air of a specified quality class (see below). The differential pressure indicator enables filter status to be monitored quickly and easily.

Compressed air treatment system variants

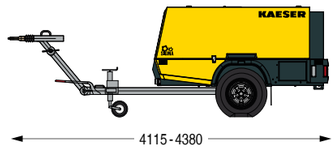
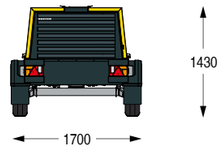
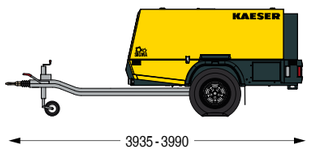
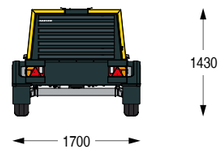
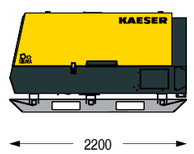
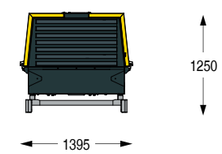
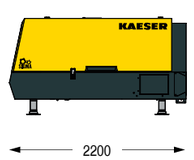
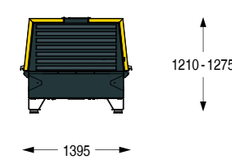
System A - Cool - Condensate-free	Aftercooler → Centrifugal separator	Cool, condensate-free compressed air (100 % saturated), **for compressed air tools and temporarily replacing stationary compressors**
System F - Cool - Condensate-free - Filtered	Aftercooler → Centrifugal separator → Filter	Cool, condensate-free compressed air (100 % saturated), **free from contaminant particles and technically oil-free in accordance with applicable regulations**
System B - Warmed - Dried	Anti-Frost Control (ANTI FROST) → Aftercooler → Centrifugal separator → Return heating	Dried compressed air, warmed to at least 20 °C, **for working at sub-zero temperatures and with longer air lines**
System G - Warmed - Dried - Filtered	Anti-Frost Control (ANTI FROST) → Aftercooler → Centrifugal separator → Filter → Return heating	Dried compressed air, warmed to at least 20 °C, **free from contaminant particles and technically oil-free in accordance with applicable regulations**
Fresh air As partial flow	Activated charcoal filter → Does not provide protection against carbon monoxide (CO) or other noxious gases	Odour-free fresh air connected via a **separate** quick-release coupling (Only in combination with F or G systems)

Technical specifications

Model	Compressor				4-cylinder diesel engine (water-cooled)				Complete system				
	Flow rate		Operating pressure		Make	Type	Engine rated power	Speed at full load	Fuel tank capacity	Operational weight [2]	Sound power level [3]	Sound pressure level [4]	Compressed air outlet
	m^3/min	cfm	bar	PSI			kW	rpm	l	kg	dB(A)	dB(A)	
M52	5.2	185	7	100	Kubota	V2203	35.4	2850	105	1225	≤98	69	2 x G¾ 1 x G1
M52 With 8.5 kVA generator	5.2	185	7	100	Kubota	V2203	35.4	2850	105	1295	≤98	69	2 x G¾ 1 x G1
M70 [1]	7.0 5.4	250 190	7 10	100 145	Kubota	V2003T	43.3	2950	105	1230	Export	Export	2 x G¾ 1 x G1

1) Only for export outside the EU
2) Weight specifications for base machine without compressed air treatment, with run-on brake equipped chassis and height-adjustable tow bar
3) Guaranteed sound power level as per Directive 2000/14/EC
4) Surface sound pressure level as per ISO3744 (r=10m)

Dimensions

Version: Height adjustable		
Version: Fixed		
Version: Skid-mounted		
Version: Stationary		

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.

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