



Mobile air-to-air heat pumps MWK40, MW40 and MW80

100% Fossil-free | 100% Electric | 100% Mobile | 100% Automatic

For heating and cooling

www.kroll.de





Mobile air-to-air heat pumps for heating and cooling

For the application and flexibility of temporary and mobile temperature control.

The transformation in heat supply from fossil energy sources to regenerative concepts faces challenges, specifically regarding temporary solutions, as the resulting complexity often cannot be combined with the necessary flexibility.

With unstable price developments of fossil fuels and increasing CO₂

taxation, heat pumps offer an uncomplicated as well as sustainable and yet cost-effective heating solution. Depending on the version, our durable and easily transportable air-to-air heat pumps provide heating, as well as heating and cooling, completely without fossil fuels. Heating oil and gas are no longer required – an electricity

connection is all that is needed. Our **MWK40** allows year-round temperature control with just one unit including mobile heating down to -10°C and cooling up to +40°C. Our **MW40** and **MW80** are designed for facing extreme temperature ranges down to -20°C but without the cooling function. Thanks to the air-to-air functionality, costly room



Environmentally friendly



Economical



Fossil-free



Mobile



Compact

Award

Plus X Award quality seal for our MWK40.

The Plus X Award is **one of the world's biggest innovation prizes for technology, sports and lifestyle**, with independent expert jurors from over 80 industries and more than 700 participating international brands.

The expert jury, consisting of editors, designers and industry experts, awards various quality seals to products that stand out for their genuine quality and innovative edge. **Our MWK40 earned the quality seal in five of a total of seven categories.**



installations are usually completely unnecessary. Any further installations of boilers or cooling units, radiators, and their pipe distributions with pumps, fittings and control technology become unnecessary.

Outside-installed heat pumps temper the room air directly to the desired target temperature via a circulating airflow. Mobile air-to-air heat pumps have been designed for quick

installation and commissioning. The temperature control solution is ready for operation within a very short time.

No tank systems, no fuel storage, and much lower maintenance – thanks to the air-to-air operation, you also don't have to worry about water chillers compared to air-to-water heat pumps. Inlet and outlet nozzles are recessed in the housing. There are no protruding components.

Safe loading is ensured by openings for forklift trucks. The high external pressure allows long hose connections.

Air-to-air heat pumps can also be used for stationary applications with a permanently installed air duct system. With the help of a web application and a mobile internet connection, all devices can be managed, monitored and billed.



MKW40



Areas of application:

- (Large) construction sites
- Warehouses and production halls
- (Large) events
- (Festival) tents
- Agriculture
- Commercial, municipal, and private requirements such as temporary heating, replacement heating in case of failure of stationary heating systems or temperature control/air conditioning.

Application examples



Even under extreme conditions of up to -10°C or -20°C outside temperature, our mobile heat pumps provides enough heat for your properties, completely fossil-free – for 100 percent comfortable indoor climate.



Symbol photo



Also in summer, you can keep a cool head at all times: Our mobile heating/cooling combination MKW40 handles outside temperatures up to $+40^{\circ}\text{C}$ and cools your objects without any problems.

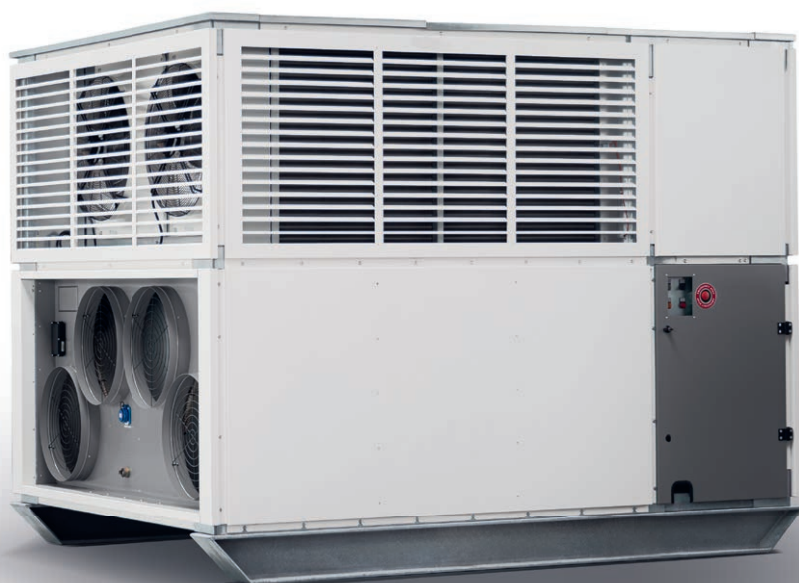


Symbol photo

Technical Data

Model			MWK40	MW40	MW80
		No.	300686	301531	301532
Function			Heating and cooling	Heating	Heating
Application ambient temperature		°C	-10 to +40	-20 to +25	-20 to +25
Heat capacity	(A7/L35)	kW	42,9	42,4	100,4
Cooling capacity	(A30/L12)	kW	33,5	-	-
COP _h	(A-7/L35) without utilizable medium		2,24	2,30	2,34
COP _h	(A2/L35) without utilizable medium		2,88	2,76	2,77
COP _h	(A7/L35) without utilizable medium		3,31	3,07	3,06
SCOP _h	without utilizable medium		2,88	2,72	2,73
COP _h	(A-7/L35) with utilizable medium		1,95	1,96	2,04
COP _h	(A2/L35) with utilizable medium		2,50	2,42	2,46
COP _h	(A7/L35) with utilizable medium		2,88	2,69	2,71
SCOP _h	with utilizable medium		2,45	2,34	2,38
Volume		m ³ /h	8.000	8.000	16.000
External pressure		Pa	200	200	250
Electrical connection		V/Ph/Hz	400/3/50	400/3/50	400/3/50
Connector plug			32A CEE	32A CEE	63A CEE
Max. nominal current		A	31	31	62
Connection Ø air current		mm	525	525	525
Length		mm	2.400	2.400	3.000
Width		mm	1.200	1.200	2.300
Height		mm	2.200	2.200	2.350
Weight		kg	1.000	1.100	2.700
Sound pressure level		dB(A)	66	66	68
Refrigerant			R410A	R454C	R454C
Compressor			Scroll	reciprocating compressor	reciprocating compressor
Condensate quantity max.		liter/h	10	10	20
Nozzle condensate drain (external)		Inch	1 1/4	1 1/4	1 1/4

A – ambient temperature (°C) | L – room air temperature (°C) | COP – coefficient of performance (h – heating/c – cooling) | SCOP – annual performance



Accessories MWK, MW

Hot air hose with fastening belt and carrying bag
7,6 m Ø 525 mm

Article-No. 005597

MW80

Remote control via web browser.
Special colors available on request.

Options for the MWK40, MW40 and MW80

Remote query (extra charge)



Our heat pumps are equipped with a router by default. This provides you with a Wi-Fi connection and control on-site with a range of approx. 5 meters.

Optionally, remote access to operating parameters can be booked throughout Europe. In addition to remote queries of the devices, operating data and the device status can also be viewed.

On request, we can add further options to the access, such as the retrieval of historical data.

Remote maintenance (extra charge)



Upon request, we can offer remote maintenance of your devices. We not only take care of the maintenance of your heat pumps but also provide you with regular diagnostic reports of the operating status.

In addition, we take care of necessary software updates. Our availability on working days between 8 am and 4 pm is guaranteed.

Heating and cooling for any circumstances



Our **MWK40** enables year-round temperature control with just one unit – mobile heating at up to -10°C and cooling at up to $+40^{\circ}\text{C}$ outside temperature.

For extreme temperature ranges down to -20°C our **MW40** and **MW80** are designed – but without the cooling function. Simply set the target temperature and the unit does everything else completely automatically.

Flexible and fast use



Whether on a construction site, for an event tent or in agriculture: our units defy all circumstances and temper any room without fossil fuels. Simply connect to power, attach warm air hoses and the machines are ready for use.

**Do you have any other requirements which are not listed here?
Please do not hesitate to contact us!**

We have both the engineering know-how and the mechanical equipment to implement your individual requirements with our usual Kroll Energy quality. Together, we can master any air-conditioning challenge and reach your desired temperatures environmentally- and budget-friendly.




About us

Kroll Energy GmbH combines first-class engineering expertise with high-performance production power to create a convincing overall package that leaves nothing to be desired. Whether heating, cooling, air purification/dehumidification, warm air generation or full condensing boiler technology: **we have a professional solution** for every requirement. What has made our continuous success possible – in addition to our engineering know-how – are our

typical Swabian virtues, which are popular all over the world: Quality, diligence and inventiveness are at home with us and form the basis for forward-looking developments with international recognition.

The Kroll company was founded in 1963 and has developed steadily since then. What has remained the same over all these years **is our high-quality standard:** We guarantee the quality of our products.

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Energy
competence
in a class
of its own

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