



Mobile heating and cooling of fresh air MWK-40

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

Heating and cooling with only one air handling unit

www.kroll.de





Mobile heating and cooling of fresh air

Heating and cooling with only one air handling unit.

Relying on the right equipment pays off in all areas, including choosing the right **heating/cooling solution**. In the past, you had to spend a long time sourcing and replenishing fuel oil, constantly readjusting the unit and the handling of chillers for a long time. These circumstances and the **increasing demand for CO₂-neutral, sustainable and yet cost-effective and uncomplicated solutions** led us to develop the mobile heating/cooling combination MWK-40.

An automatically switching, mobile air-to-air heat pump that can heat and cool your properties in a **completely CO₂-neutral way** thanks to the **absence of fossil fuels and purely electric operation** – and at a fraction of your previous maintenance costs. Thanks to a variable operating range between **-12°C and +60°C outside temperature**, nothing stands in the way of an all-season usage.



Environmentally friendly



Economical



Fossil-free



Mobile



Compact

Award

Plus X Award quality seal for our MWK-40.

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 MWK-40 earned the quality seal in five of a total of seven categories.**



PLUS X AWARD

2021/2022 | Achieved for:

Innovation

High Quality

Ease of Use

Functionality

Ecology

www.plusaward.com

Apart from setting the target temperature using the web browser, no further effort is required of you. The MWK-40 measures the drawn in interior temperature and automatically regulates it to your predefined desired temperature – even under **extreme conditions**.

By omitting with additional resistance heaters, there will be no bad surprise on your final electricity bill.

Thanks to its **compact design**, nothing stands in the way of rapid deployment. Our unit is already operational with cold/hot air hoses and electricity, leaving you full **flexibility** in the choice of the

installation site. The distribution of the conditioned air in the object can be done by one or more hoses at the same time. The high external pressure of 300 Pa also allows long hose connections.

**MWK-40:
Fossil-free, highly efficient,
environmentally and
budget friendly.**

No tank systems, no fuel storage and a much lower maintenance requirement.

Thanks to air-to-air operation, you also do not have to worry about chillers, as with 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.



It is especially suitable for

- (Large) construction sites
- Warehouses and production halls
- Small and large-scale events
- (Festival) tents

- Commercial, municipal and private requirements as temporary heating, replacement heating in case of failure of stationary heating systems or for temperature control/air conditioning.

Application examples

»
Even under extreme conditions of up to -12°C outside temperature, our mobile MWK-40 provides enough heat for your objects, completely fossil-free – for 100 percent comfortable indoor climate.



Symbolic photo



Symbolic photo

«
Also in summer, you can keep a cool head at all times: Our mobile MWK-40 handles outside temperatures of up to +60°C without any problems.

Technical Data

Model		MWK-40-HT
Application ambient temperature	°C	-12 to +60
Heat capacity (A7/L35)	kW	40,5
Cooling capacity (A30/L12)	kW	32,5
COP _h without utilizable medium		3,1
SCOP _h without utilizable medium		2,8
COP _c without utilizable medium		2,5
Volume	m ³ /h	8.000
External pressure	Pa	300
Electrical connection	V/Ph/Hz	400/3/50
Connector plug		32A CEE
Max. nominal current	A	32
Connection Ø air current	mm	450 (4x)
Length	mm	2.430
Width	mm	1.600
Height	mm	2.180
Weight	kg	950
Sound pressure level	dB(A)	60
Refrigerant		R513A
Compressor		Reciprocating piston
Condensate quantity max.	liter/h	10
Nozzle condensate drain		✓
Hot gas defrosting		✓
Continuously adjustable compressor		✓

✓ Included

- Remote control via laptop/smartphone
- Remote maintenance on German workdays Monday to Friday from 8 a.m. to 4 p.m
- Powder coating with standard RAL colors (special colors available on request)



Options for the MWK-40

Remote query (extra charge)



Our heat pumps are equipped with a router by default. This provides you with a WLAN connection and control on site with a range of approximately 5 meters.

As an option, 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 provide access with additional options such as live locations or retrieval of historical data.

Hot gas defrosting (integrated)



In heating mode, the heat pump evaporator starts to ice up at outdoor temperatures below 5°C. The integrated hot gas defrosting of the MWK-40 does the necessary ice melting for you completely automatically.

Contrary to the frequently used defrosting by circuit reversal, the MWK-40 does not produce any unpleasant cold air during the actual heating operation.

Remote maintenance (extra charge)



Upon request, we can provide 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 8:00 and 16:00 is guaranteed.

Compressor and ventilator continuously controlled (integrated)



The continuously adjustable compressor enables an all-season operation and precise temperature control without constantly switching the MWK-40 on and off.

Thanks to the likewise continuously adjustable air ventilator, you can regulate the air volume flow with pinpoint accuracy.

**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**: Our production has been certified according to ISO 9001 since 1995 and manufactures **100 percent "Made in Germany"**.

We guarantee the quality of our products and offer our customers **12 months of manufacturer's warranty** for our MWK-40.

Energy
competence
in a class
of its own

Kroll Energy GmbH

Eduard-Breuninger-Strasse 67
71522 Backnang, Germany
Phone +49 7191 9070-200
Fax +49 7191 9070-201
vertrieb@kroll.de

Technical Service

Phone +49 7191 9070-222
Fax +49 7191 9070-201
service@kroll.de

www.kroll.de

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