Kroll Energy Mobile Air-to-Air Heat Pumps MWK40, MW40 and MW80

Long product text:

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 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 airfl ow. 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 airto-air operation, you also don't have to worry about water chillers compared to airto-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.

Short product text:

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Features:

- Heating and cooling with only one device
- Remote query (extra charge)
- Remote maintenance (extra charge)
- Flexible and fast use
- Environmentally friendly and fossil-free

Application area:

- (Large) construction sites
- Warehouses and production halls
- (Large) 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.

Technical data:

	MWK40	MW40	MW80
Function	Heating and cooling	Heating	Heating
Application ambient temperature (°C)	-10 to +40	-20 to +25	-20 to +25
Heating capacity (A7/L35) (kW)	42,9	42,4	100,4
Cooling capacity (A30/ L12) (kW)	35,5	-	-
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
SCOPh without utilizable medium	2,88	2,72	2,73
COPh (A-7/L35) with utilizable medium	1,95	1,96	2,04
COPh (A2/L35) with utilizable medium	2,50	2,42	2,46
COPh (A7/L35) with utilizable medium	2,88	2,69	2,71
SCOP _h with utilizable medium	2,45	2,34	2,38
Air volume flow (m³/h)	8.000	8.000	16.000
External pressure (Pa)	200	200	250
Electrical supply (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
Condensate quantity max. (liters/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** – coeffcient of performance (h – heating/c – cooling) | **SCOP** – annual performance