

# AL MAX

50 kW



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The iDM air source heat pump AL 50 MAX is specially designed for the high power requirements of large buildings and operates extremely efficiently. With a heating capacity of 50 kW per machine – or up to 500 kW in cascade operation – it reliably covers the heating requirements of hotels, residential and commercial properties, as well as industrial buildings. The AL MAX

combines two machines in one housing: Two powerful scroll capsule compressors and generously dimensioned, copper-brazed and insulated plate heat exchangers as condensers form the heart of the system. The heat pump's separate evaporators are each equipped with a particularly quiet fan with owl wing technology, which ensures quiet operation.

- High SCOP 35°C: 4.04 for low energy consumption
- Two compressors to adjust power and low energy consumption
- Intelligent NAVIGATOR Energy Manager – to efficiently control heating and cooling modes, as well as for domestic hot water preparation
- Two separate cooling circuits and two compressors connected for high operational reliability
- Active cooling is integrated as standard – for pleasant temperatures on hot summer days
- Extremely quiet
- Maximum reliability and dependability – thanks to two separate cooling circuits
- Highest quality and durability thanks to the robust aluminium construction of the outdoor unit and the high-quality components used
- Cascadable up to 500 kW



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PRODUCT NAME	AL 50 MAX
Power	50 kW
SCOP 35°C (moderate climate)	4.04
Refrigerant	R410A
Sound power level – nominal	70 dB(A)
Heating capacity at A7/W35 (full load)	69.40
Heating capacity at A7/W35 (partial load)	34.60
Interior unit HxWxD	654/560/190 mm
Outdoor unit HxWxD	1500/3270/920 mm



Cascadable up to 500 kW –  
the AL 50 MAX is ready for big jobs.

With a cascade solution of up to 500 kW, the iDM AL 50 MAX reliably covers the heating requirements of hotels, residential and commercial properties, as well as industrial buildings.

