

# AL Twin/Max AIR SOURCE HEAT PUMP



© Hotel Hohe Salve  
heated with an IDM heat pump

QUALITY **19** SINCE  
**77**

## iNTELLiGENT HEAT PUMPS FROM AUSTRIA

[idm-energie.com](http://idm-energie.com)

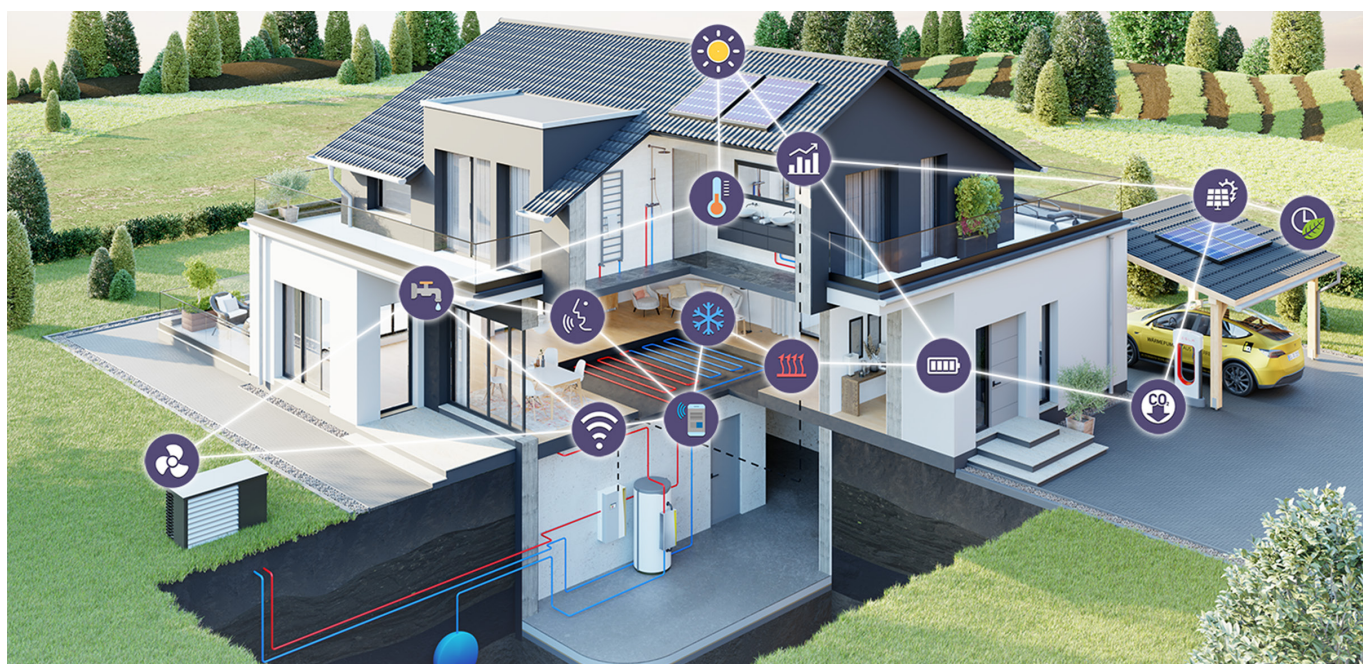
# AIR HEAT PUMPS FOR HIGH PERFORMANCE NEEDS

The iDM air source heat pump AL 50 Max is designed for a high power requirement of large buildings and works very efficiently. With a heat output of 50 kW per machine - or up to 500 kW in cascades - this heat pump meets the requirements for the heat supply of hotels, residential or commercial properties or even industrial buildings. AL Max - these are actually two machines in one housing: At the heart of the powerful system are two scroll capsule compressors with generously dimensioned, copper-brazed and insulated heat plate exchangers as condenser. In the air heat pump even the evaporators are separated and each have its own, particularly quiet fan with owl inspired wing design.

- ◉ **High COP of 4.82 (AL 32 Twin) for low energy consumption**
- ◉ **Sound Reduction System SRS for silent operation**
- ◉ **Two compressors for output adaptations and a low energy consumption**
- ◉ **NAVIGATOR control system to optimise energy consumption and convenience**
- ◉ **Voice control of the most important functions**

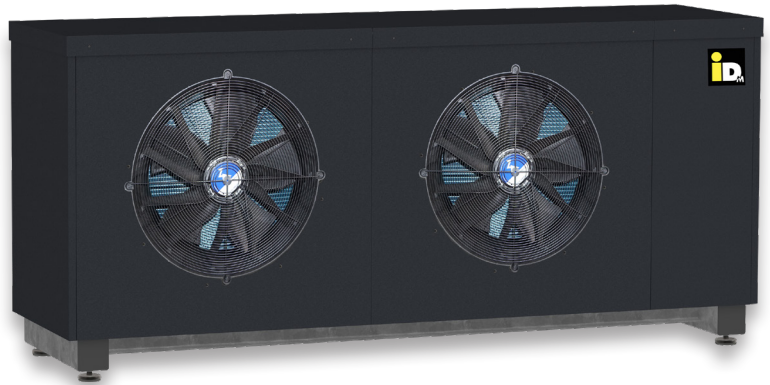


## THE iNTELLIGENT HEAT PUMP



# AIR HEAT PUMP AL 32 Twin

# AIR HEAT PUMP AL 50 Max

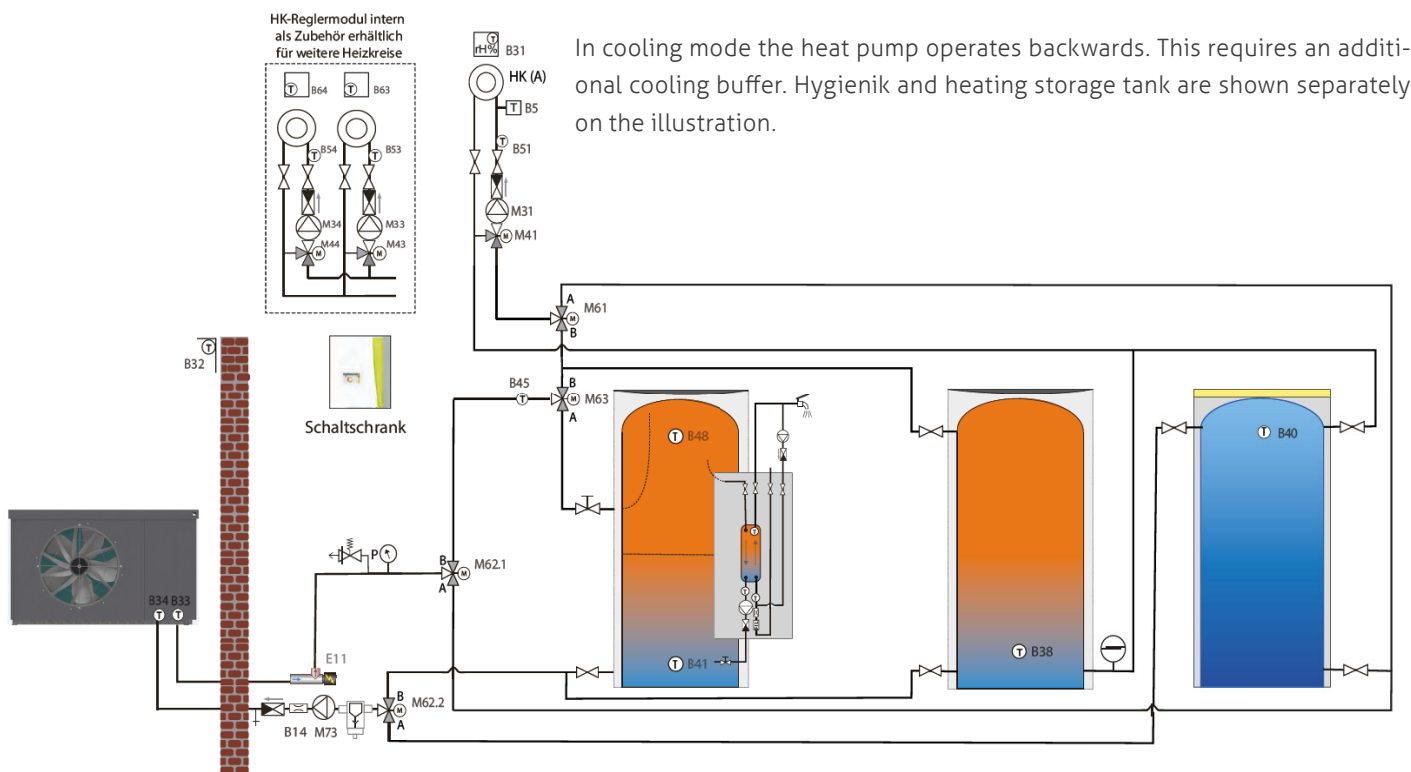


- 32 kW (certified COP 4.82 in partial operation)
- 2-stage design
- Demand-based output adaptation with 2 compressors
- Allows cooling
- Low design height
- Integrated heat pump management NAVIGATOR
- Control system for protection against the elements
- Pure outdoor installation

- 50 kW
- 2-stage design
- Demand-based output adaptation with two compressors
- Allows cooling
- Two separate cooling circuits in one housing - this means double power and double safety with enhanced flexibility and a longer service life



## COOLING



TERRA AL Twin P

Hygienik 3.0

TERMO Heating buffer

Cooling buffer

# TECHNICAL DATA

## AL Twin/Max for outdoor installation

Technical data in compliance with EN 14511	UNIT	AL 32 Twin	AL 50 Max
Energy efficiency class package label (heat pump + temperature control) <sup>1)</sup>		A++/A++	A+/A+
Compressors/cooling circuits		2/1	2/2
Heat output at A2/W35	[kW]	31,56	50,30
Heat output at A7/W35	[kW]	38,51	69,40
Refrigerant <sup>2)</sup>		R410A	
Power consumption at A2/W35	[kW]	7,87	13,80
Power consumption at A7/W35	[kW]	7,99	15,60
COP at A2/W35		4,01	3,64
COP at A7/W35		4,82	4,45
Heating output at A2/W35 (1 stage)	[kW]	18,55	25,10
Power consumption at A2/W35 (1 stage)	[kW]	4,07	6,90
COP at A2/W35 (1 stage)		4,56	3,64
Cooling capacity at A35/W18	[kW]	45,00	70,5
EER at A35/W18		3,81	3,31
Sound power level at a distance of 10 m <sup>3)</sup>	dB(A)	48	45
Dimensions HxWxD	mm	1400x1970x943	1500x3270x920
Weight outdoor unit	kg	490	880
Weight indoor unit	kg	30	30

<sup>1)</sup> Energy efficiency class according to EU regulation No. 811/2013 heating, at a flow temperature: 35 °C / 55 °C.

<sup>2)</sup> The heat pump contains the F-Gas R410A and is subject to the provisions of F-Gas regulation EU/517/2014.

<sup>3)</sup> Free installation at a distance of 10 m.

