

end customer  
alira LWDV/LWD



# COMPLETELY NATURALLY

air/water heat pump  
outdoor installation  
alira **LWDV/LWD**

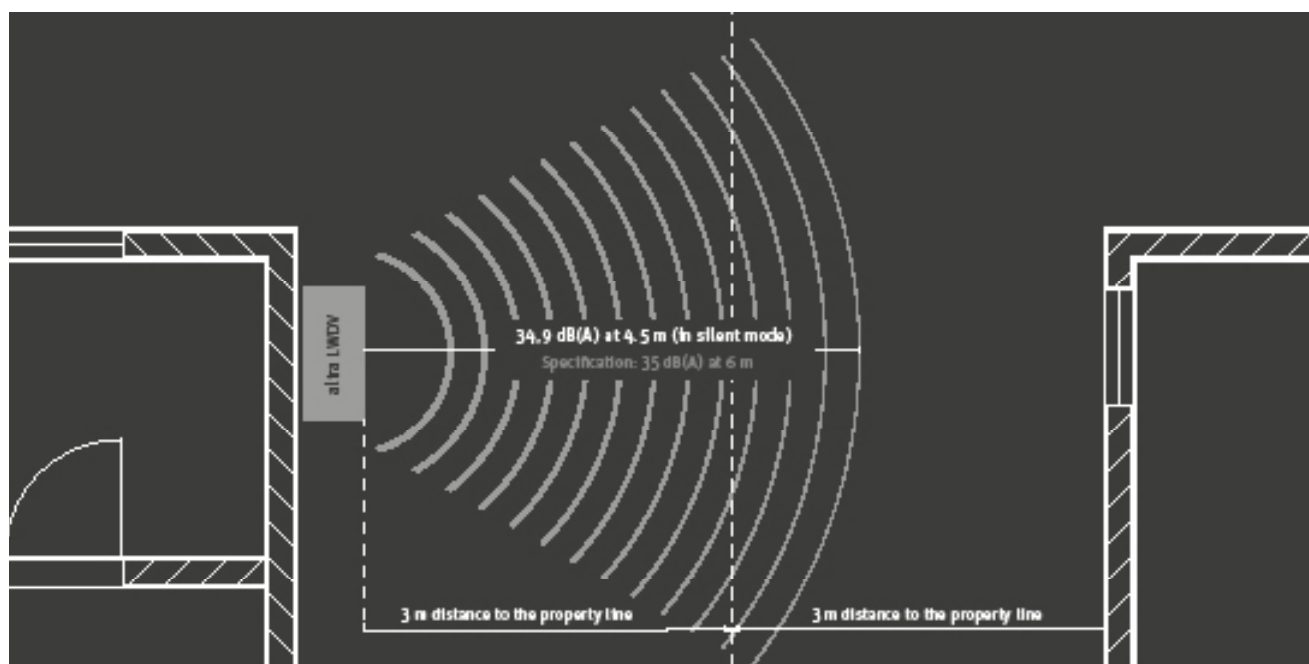
*the better way to heat*

### all advantages at one sight

- + CO<sub>2</sub>-neutral through natural refrigerant
- + Flexible in use with numerous possible combinations
- + Heating and cooling with one device
- + Installation without refrigeration certificate
- + Noise-optimised processing
- + Wide range of services from 3 to 18 kW heating capacity
- + Quick and safe installation through EnEV-compliant accessories



## POWERFULLY QUIET



Thanks to a particularly high-quality, sound-optimised processing, the alira LWDV achieves extremely low sound emission values. A newly developed silent mode additionally ensures particularly quiet night operation. The alira LWDV can even be used on small plots of land with a small distance to the neighbour without any problems: because it falls below the specified sound insulation values while maintaining the minimum distances.

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· **Good for the future** – The use of a natural refrigerant ensures future-proof, environmentally friendly and innovative heating. Thanks to its corrosion-free aluminium façade, the alira LWD/LWDV series additionally convinces with its durability and weather resistance.

· **Quick and safe installation**  
 Integrated hydraulic components and the pre-assembled, EnEV-compliant connection system make installation child's play. The monoblock design also allows installation without a refrigeration certificate.

· **Ideal for new construction and renovation** High flow temperatures and an enormous selection of components and accessories make the LWDV the ideal choice for new buildings and renovation.

## VARIETY AT ONE SIGHT Simply choose the right one!

	Inverter controlled	Silent-mode	Cooling	Cascadability	Swimming pool-heating
<b>LWD</b>	—	—	—	✓	✓
<b>LWD/RX</b>	—	—	✓	✓	✓
<b>LWDV</b>	✓	✓	—	—	—

# TECHNICAL DATA

## alira LWD/LWDV – basic units

type	performance data				device						
	heating performance		COP full load operation A2/W35	sound power level max./night	hermetically sealed.	refrigerant			silent mode	max. Preliminary-temperature	Maße W x D x H Pure housing - dimensions
	A-7/W35 min./max.	A2/W35 min./max.				filling quantity	type	naturally			
outdoor basic unit	[kW]	[kW]	[dB(A)]	[kg]				[°C]	[mm]		
LWD 50	– / 4,6	– / 5,6	3,80	57 / 57	✓	0,95	R290	✓	–	70	1320 x 505 x 930
LWD 70	– / 6,3	– / 7,7	3,80	57 / 57	✓	1,10	R290	✓	–	70	1320 x 505 x 930
LWD 90	– / 7,5	– / 9,0	3,60	62 / 62	✓	1,17	R290	✓	–	70	1320 x 505 x 930
LWD 50 RX	– / 4,4	– / 5,4	3,69	57 / 57	✓	2,10	R290	✓	–	70	1320 x 505 x 930
LWD 70 RX	– / 6,0	– / 7,3	3,68	57 / 57	✓	2,20	R290	✓	–	70	1320 x 505 x 930
LWDV 91-1/3	3,06 / 8,11	2,33 / 8,20	4,61 <sup>1)</sup>	59 / 53	✓	1,05	R290	✓	✓	70	1320 x 505 x 930



## alira LWD/LWDV – possible combinations

type	item number	device							energy efficiency class	
		Inverter-regulated	hot water integrated	Buffer-memory	cooling integrated	hydraulic integrated	Swimming pool preparation	Heater in co-operation with controller (A+++ bis G)	Water heating (A+ bis F)	
outdoor base unit with hydraulic components			[Liter]	[Liter]						
LWD 50A-HMD	100601HMD02	–	–	–	–	–	✓	✓	A++	–
LWD 70A-HMD	100602HMD02	–	–	–	–	–	✓	✓	A++	–
LWD 90A-HMD	100609HMD02	–	–	–	–	–	✓	✓	A++	–
LWD 50A-HTD	100601HTD02	–	✓	180	✓	62	–	✓	A++ <sup>2)</sup>	A
LWD 70A-HTD	100602HTD02	–	✓	180	✓	62	–	✓	A++ <sup>2)</sup>	A
LWD 90A-HTD	100609HTD02	–	✓	180	✓	62	–	✓	A++ <sup>2)</sup>	A
LWD 50A/RX-HMD	100605HMD02	–	–	–	–	–	✓	✓	A++	–
LWD 70A/RX-HMD	100606HMD02	–	–	–	–	–	✓	✓	A++	–
LWDV 91-1/3 – HDV 9-1/3	100699HDV901	✓	–	–	–	–	–	✓	A+++ <sup>2)</sup>	–
LWDV 91-1/3 – HDV 12-3	100699HDV1241	✓	–	–	–	–	–	✓	A+++ <sup>2)</sup>	–
LWDV 91-1/3 – HSDV 9M-1/3	100699HSDV901	✓	✓	180	✓	62	–	✓	A+++ <sup>2)</sup>	A
LWDV 91-1/3 – HSDV 12.1M3	100699HSDV12101	✓	✓	280	✓	82	–	✓	A+++ <sup>2)</sup>	A



<sup>1)</sup> COP specification in partial load operation | <sup>2)</sup> Combi heater | All specifications for heating capacity and COP according to EN 14511 | All data on noise at full load operation according to EN 12102



V-line  
This label immediately identifies the inverter-controlled heat pumps

# APPLICATION POSSIBILITIES OF THE LWDV/LWD

Solutions for almost all requirements



Extremely fast installation with hydraulic module [HMD LWD/HDV LWDV]


Involvement of Solar thermal with SWWS storage




Complete space-saving domestic hot water system with hydraulic station HSDV (LWDV) and hydraulic tower HTD (LWD)




Flexible custom-hot water prepared with Hot water storage

Several LWD devices cascaded with hydraulic module (HMD)



Prepared for the use in intelligent Power networks (SG ready)



Cooling function with LWD A/ RX Hydraulic module (HMD) up to +7 °C possible

**In combination with multi-function storage tank domestic hot water preparation with ...**

- ... Photovoltaics ▼
- ... Solar thermal ▼
- ... water-fired stoves ▶





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