

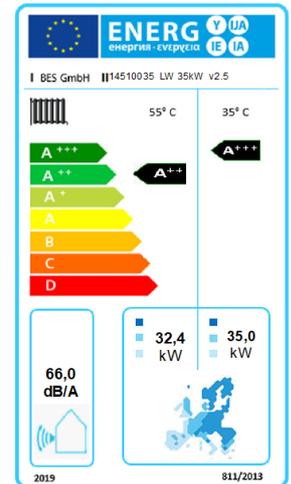
# Air-Water Heat Pump 35 kW with refrigerant R32



## LW 35 kW v2.5

Range of application :

- ▶ external air as energy source
- ▶ for heating and cooling
- ▶ new construction and refurbishment



- ▶ External temperature based e-TALK controller with mixer and domestic hot water control
- ▶ Remote monitoring (optional in EMM electrical cabinet)
- ▶ Fully-automatic operation for heating and cooling
- ▶ Fully hermetic inverter compressor heat pump
- ▶ Air operating temperature -30 °C to 43 °C
- ▶ Modularly expandable through cascading
- ▶ Phase sequence integrated monitoring
- ▶ Utilizes external air as energy source
- ▶ With refrigerant R32
- ▶ Extremely silent operation
- ▶ GWP value of 675

Seasonal energy efficiency  
in heating

**180%**

Clime middle

**Efficiency class**

**A+++**

**LW 35 v2.5**

Operating point **	Heating capacity* (kW)		Power consumption (kW)		Current consumption (A)		Coefficient of Performance (COP/EER)		Refrigeration capacity (kW)		Cooling capacity (kW)	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
	30 Hz	90 Hz	30 Hz	90 Hz	30 Hz	90 Hz	30 Hz	90 Hz	30 Hz	90 Hz	30 Hz	90 Hz
A 7/W 35***	12,8	35,0	2,7	8,2	5,0	13,7	4,7	4,3	10,1	26,8	-	-
A 7/W 55****	11,8	32,4	3,6	10,8	6,7	17,5	3,3	3,0	8,2	21,6	-	-
A -7/W 35***	9,2	24,8	2,8	8,3	5,2	13,9	3,4	3,0	6,4	16,5	-	-
A -7/W 55****	8,5	23,0	3,6	11,0	6,7	17,9	2,4	2,1	4,9	22,0	-	-
A -15/W 35***	8,5	21,7	2,8	8,4	5,2	14,1	3,1	2,6	5,7	13,3	-	-
A -15/W 55****	7,9	20,1	3,7	11,1	6,8	18,0	2,1	1,8	4,2	9,0	-	-
A 35/W 7	-	-	2,5	9,0	4,3	14,8	3,2	2,8	-	-	8,1	24,6

Energetic clasification - ErP-Guideline\*\*

Clime zone: average

$\eta_s$ (%)* 35°C	Energy class at 35°C	SCOP 35	$\eta_s$ (%)* 55°C	Energy class at 55°C	SCOP 55
180,3%	A+++	4,6	135,7%	A++	3,5

Noise emissions \*\*

sound power	sound pressure level (1m)
66 dBA	48 dBA

\* Seasonal energy efficiency of space heating.

\*\* Test according to EN 14825:2018, EN 14511-3:2018, (EU) Nr. 813/2013

\*\*\* Water temperature inlet/outlet 30°C / 35°C

\*\*\*\* Water temperature inlet/outlet 50°C / 55°C

**LW 35 v2.5**

<b>35 kW</b>	
<b>Condenser (Heating secondary)</b>	
Type	plate heat exchanger
Recommended volume flow (min./max.)	3,5 m <sup>3</sup> /h   6,0 m <sup>3</sup> /h
Max. operating pressure	32 bar
Max. temperature	150°C
Connections heating	2x DN32
Max./min. inlet temperature (heating)	55°C / 15°C
Max./min. inlet temperature (cooling)	18°C / 7°C
<b>Charging pump</b>	
HBGF - 32-110	
<b>Evaporator (source primary)</b>	
Type	Finned-tube heat exchanger
Insulation	PVC- and CFC-free
Recommended volume flow (min./max.)	4.000 m <sup>3</sup> /h   8.000 m <sup>3</sup> /h
Amount of fans	2
Max. operating pressure	32 bar
Max. temperature	80°C
Source connections	none
Max./min. source inlet temperature (heating)	40°C / -25°C
Max./min. source inlet temperature (cooling)	40°C / -15°C
Expansion valve	electronical
<b>Cooling cycle</b>	
Insulation cooling cycle	PVC- and FCKW-free
Compressor	Scroll
Electric motor technology	DC-Inverter
Number of compressors / cooling circuits	1
Refrigerant	R 32
Filling capacity	4,0 kg
<b>Housing</b>	
Dimensions (W x D x H)	1160 mm x 500 mm x 1580 mm
Colour	RAL 7016 / structure for exterior location
Weight	240 kg
Material / sound insulation	steel sheet electrolytically galvanised and powder coated / insulating board 20 mm
<b>Electrical date</b>	
Nominal voltage (heat pump)	3 Ph/3+N/50-60 Hz/ 380-415V
Compressor startup current	16 A
Max. compressor operating current	22,8 A
Fuse protection slow-blow (compressor)	C 32 A 4-pol.
Fuse protection (control AP housing)	B 13 A 2-pol.
Type of protection	IPX4
Supply compressor*	5 x 6,0 mm <sup>2</sup> flexible
Supply control/fan*	12 x 0,75 mm <sup>2</sup> flexible
Supply control AP housing*	3 x 1,5 mm <sup>2</sup> flexible
Product-No.	1451 0035

\* The width for the supplies is to be configured depending on the laying and length

**Accessories (optional):**

Description	Product-No.
EnergyManagementMaster electrical cabinet for LW 35kW up to LW150kW	22000120



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