

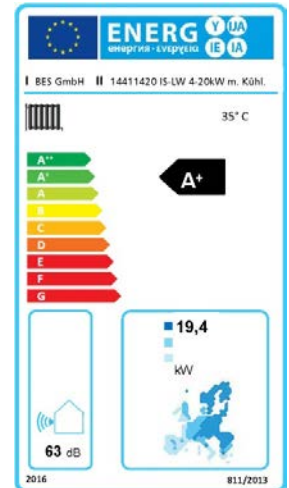
Air-Water Heat Pump 4-20 kW



IS-WP LW 4-20 kW

Range of application :

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



- ▶ Due to integrated reversible refrigeration cycle suitable as air conditioner if necessary
- ▶ External temperature based e-TALK controller with mixer and domestic hot water control
- ▶ Fully-automatic operation for heating and cooling
- ▶ Air operating temperature -25 °C to 40 °C
- ▶ Modularly expandable through cascading
- ▶ Phase sequence integrated monitoring
- ▶ Fully hermetic compressor heat pump
- ▶ Utilizes external air as energy source
- ▶ Remote monitoring via web portal
- ▶ Maintenance-friendly housing
- ▶ Extremely silent operation

Seasonal energy efficiency
in heating

144%

Clime middle

Efficiency class

A+ +

IS-WP LW 4-20 Serie 2016

Operating point	Heating capacity* (kW)	Power consumption (kW)	Current consumption (A)	Coefficient of Performance** (COP/EER)	Refrigeration capacity (kW)	Cooling capacity (kW)***
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A 12/W 35	22,5	4,2	7,7	5,4	18,3	-
A 12/W 50	20,6	5,9	9,8	3,5	14,7	-
A 7/W 35	19,4	4,2	7,6	4,6	15,2	-
A 7/W 50	17,9	5,7	9,7	3,1	12,2	-
A 2/ W 35	16,7	4,1	7,6	4,1	12,6	-
A 2/ W 50	15,6	5,6	9,5	2,8	10,0	-
A -2/ W 35	14,4	4,1	7,5	3,5	10,3	-
A -2/ W 50	13,6	5,4	9,3	2,5	8,2	-
A -7/W 35	12,3	4,0	7,4	3,1	8,3	-
A -7/W 50	11,8	5,3	9,1	2,2	6,5	-
A 30/W 18	-	5,3	9,0	4,2	-	22,2
A 30/W 12	-	5,3	9,1	3,3	-	17,2

Efficiency

Clime	η_s (%)** 35 °C		η_s (%)** 45 °C		sound pressure level in dB/A			sound power in dB/A
	average	cold	average	cold	1m	5m	10m	
	144%	104%	121%	100%	55	47	41	63

* all output specifications in accordance with DIN 14 511

** seasonal energy efficiency in heating

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4-20 kW	
Condenser (Heating secondary)	
Type	plate heat exchanger
Recommended volume flow	2,5 m³/h
Pressure loss at nominal volume	<150 mbar
Max. operating pressure	45 bar
Max. temperature	150 °C
Connections heating	2 x 1 1/2" flat sealing
Max. / min. inlet temperature (heating)	55 °C / 20 °C
Max. / min. inlet temperature (cooling)	18 °C / 7 °C
Evaporator (source primary)	
Type	Finned-tube heat exchanger
Insulation	PVC- and CFC-free
Recommended volume flow	6.000m³/h
Pressure drop	80 Pa
Max. operating pressure	45 bar
Max. temperature	80 °C
Source connections	none
Max. / min. source inlet temperature (heating)	40 °C / -15 °C
Max. / min. source inlet temperature (cooling)	40 °C / -15 °C
Expansion valve	electronical
Cooling cycle	
Insulation cooling cycle	PVC- and FCKW-free
Compressor	Scroll
Refrigerant	R 410A
Filling capacity	4,5 kg
Volume flow	1,89 l
Housing	
Dimensions (W x D x H)	916 mm x 822 mm x 1920 mm
Colour	RAL 7016 / structure for exterior location
Weight	285 kg
Material / sound insulation	steel sheet electrolytically galvanised and powder coated / insulating board 20 mm
Electrical date	
Nominal voltage (heat pump)	3 Ph/50 Hz/ 400V
Compressor startup current (with soft-start)	13 A
Compressor startup current (w/o soft-start)	75 A
Max. compressor operating current	13 A
Motor overload protection	20 A
Fuse protection slow-blow (compressor)	C 20 A 4-pol.
Fuse protection (regulation current)	B 16 A 2-pol.
Fuse protection (control AP housing)	B 13 A 2-pol.
Type of protecction	IP 24
Supply compressor*	5 x 4,0 mm² flexible
Supply control/fan*	3 x 2,5 mm² flexible
Supply control AP housing*	3 x 1,5 mm² flexible
Product-No.	
1441 1420	

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



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TOMORROW

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