

Belaria® eco

The heat pump for what's important.

Functional
Economical
Simple

Data sheet

COP bar kw m³
bar kw m³/h 25.5 mm mm
COP bar kw m³ 25.5 mm mm °C



Hoval

Belaria® eco / eco compact

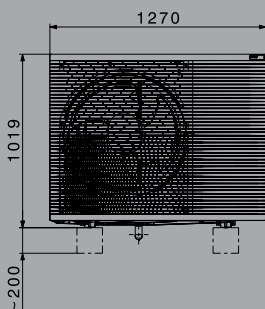
Belaria® eco Belaria® eco compact		(14) (14/230)	(16) (16/230)	(18) (18/230)
Label				
Package label incl. controller	35 °C/55 °C	A+++/A++	A+++/A++	A+++/A++
Energy efficiency class load profile XL (Belaria® eco compact)	Domestic hot water	107	107	107
Seasonal coefficient of performance moderate climate 35 °C/55 °C	SCOP	4.8 / 3.6	4.8 / 3.6	4.8 / 3.6
ETA ηS moderate climate 35/55 °C	%	190 / 142	190 / 142	190 / 142
Performance data heating in acc. with EN 14511				
A2/W35				
Heat output	kW	3.8-8.6	4.0-9.2	4.5-10.2
Power consumption	kW	1.0-2.6	1.1-2.8	1.2-3.1
Coefficient of performance at nominal output	COP	4.1	4.1	4.1
A7/W35				
Heat output	kW	3.7-9.8	4.0-10.4	4.4-11.6
Power consumption	kW	0.8-2.2	0.9-2.3	1.0-2.6
Coefficient of performance at nominal output	COP	4.8	5.0	5.0
A-7/W35				
Heat output	kW	2.9-10.7	3.2-11.8	3.5-12.7
Power consumption	kW	1.1-3.5	1.2-3.9	1.3-4.2
Coefficient of performance at nominal output	COP	3.2	3.1	3.1
Performance data cooling in acc. with EN 14511				
A35/W18				
Cooling capacity	kW	4.6-10.6	4.6-11.5	4.6-12.7
Power consumption	kW	1.0-12.6	1.0-2.8	1.0-3.1
Coefficient of performance at nominal output	EER	4.1	4.1	4.1
A35/W7				
Cooling capacity	kW	3.7-6.9	3.7-7.9	3.7-8.9
Power consumption	kW	1.4-2.6	1.4-2.9	1.4-3.3
Coefficient of performance at nominal output	EER	2.7	2.7	2.7
Sound data				
Sound power level EN 12102 outdoor unit ³⁾⁴⁾	dB(A)	54	54	54
Sound pressure level 5 m ²⁾³⁾	dB(A)	35	35	35
Sound pressure level 10 m ²⁾³⁾	dB(A)	29	29	29
Hydraulic data				
Max. flow temperature	°C	70	70	70
Residual overpressure of heating pump	kPa	111	97	97
Max. operating pressure on the heating side	bar	3	3	3

Belaria® eco / eco compact (14,16,18)

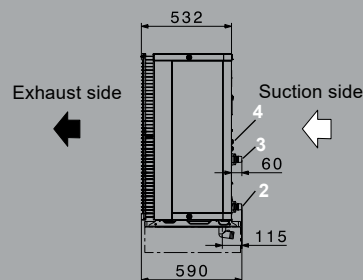
Outdoor unit

(Dimensions in mm)

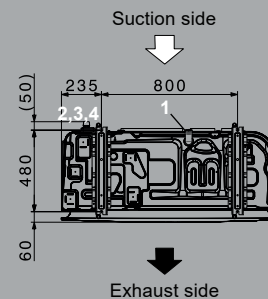
Front view



View from right



View from below



- 1 Condensate drain Ø 42 mm
- 2 Connection hydraulic connection line return 1" ext. thread
- 3 Connection hydraulic connection line flow 1" ext. thread
- 4 Electrical connection

Belaria® eco Belaria® eco compact		(14) (14/230)	(16) (16/230)	(18) (18/230)
Max. operating pressure process water side	bar	10	10	10
Max. air volume outdoor unit heating	m³/h	5460	5460	5460
Cooling technical data				
Refrigerant		R32	R32	R32
Compressor		modulating	modulating	modulating
Refrigerant filling quantity	kg	4.2	4.2	4.2
Max. line length (simple)/max. total length	m	25 / 50	25 / 50	25 / 50
Electrical data				
Electrical connection compressor	V / Hz	3~400 / 50	3~400 / 50	3~400 / 50
Electrical connection electric heating element	V / Hz	3~400 / 50	3~400 / 50	3~400 / 50
Control electrical connection	V / Hz	1~230 / 50	1~230 / 50	1~230 / 50
Max. heat pump operating current	A	16	16	16
Max. electric heating element operating current	A	13	13	13
Output factor		0.98	0.98	0.98
Main current fuse	A	C 16	C 16	C 16
Dimensions / weight				
Outdoor unit				
Weight	kg	151	151	151
Belaria® eco indoor unit				
Weight	kg	38	38	38
Belaria® eco compact indoor unit				
Weight	kg	118	118	118
Tilting measure	mm	2050	2050	2050
Belaria® pro compact hot water storage tank				
Storage capacity	l	230	230	230
Max. storage tank temperature with electric heating element	°C	75	75	75
Output capacity at 46 °C draw-off temperature - heat pump ¹⁾	l	300	300	300
Output capacity at 40 °C draw-off temperature - heat pump ¹⁾	l	350	350	350

¹⁾ 12 °C cold water temperature/58 °C storage tank temperature

²⁾ The sound pressure levels indicated apply if the outdoor unit is placed at a building façade. These values are reduced by 3 dB if the outdoor unit is free-standing. With installation in a corner, the sound pressure level increases by 3 dB.

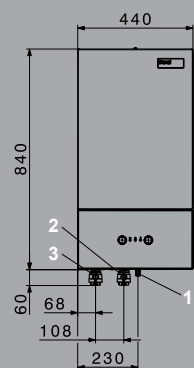
³⁾ The sound values apply with a clean evaporator. These values are temporarily exceeded before defrosting.

Using a fault-current circuit breaker RCCB type B, $I_{\Delta n} \geq 300$ mA is recommended. Country-specific regulations must be observed.

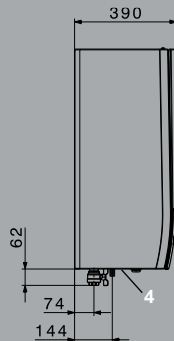
Belaria® eco (14,16,18)

Indoor unit

Front view



View from left

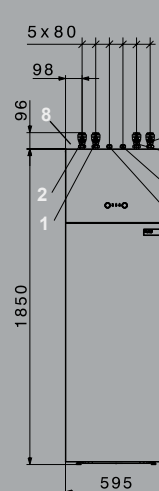


- 1 Condensate drain Ø 18 mm
- 2 Flow outdoor unit 1" int. thread (return not guided through indoor unit)
- 3 Flow heating 1" int. thread
- 4 Electrical connection

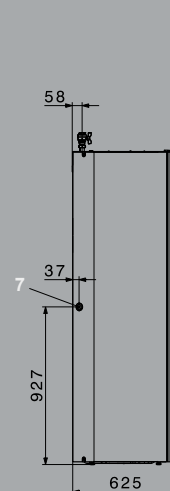
Belaria® eco compact (14,16,18/230)

Indoor unit

Front view



View from left



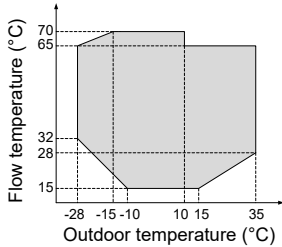
- 1 Outdoor unit flow 1" int. thread
- 2 Outdoor unit return 1" int. thread
- 3 Flow heating circuit 1" int. thread
- 4 Return heating circuit 1" int. thread
- 5 Hot water connection 3/4" int. thread
- 6 Cold water connection 3/4" int. thread
- 7 Condensate drain Ø 20 mm
- 8 Electrical connection

Belaria® eco

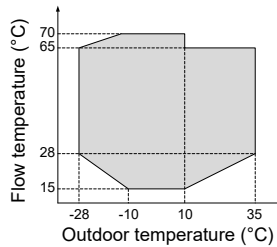
Area of application

Heating

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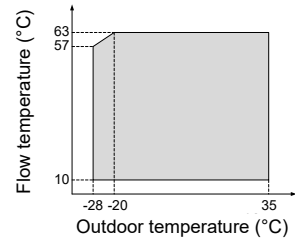
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Domestic hot water

Belaria® eco (14,16,18)

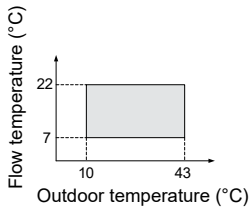
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Cooling

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Belaria® eco compact (14,16,18/230)



Short overview of space requirement

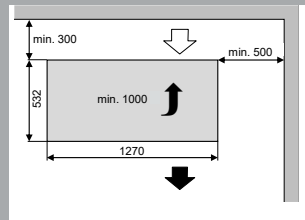
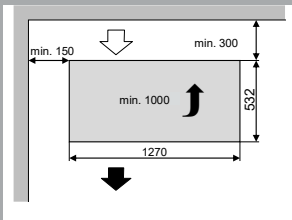
Belaria® eco / eco compact (14,16,18)

Outdoor unit

(Dimensions in mm)

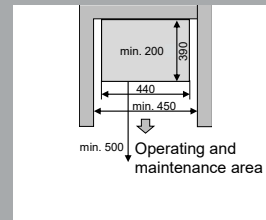
Wall corner left

Wall corner right



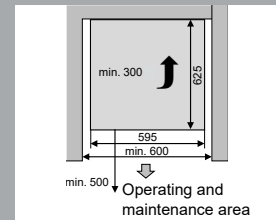
Belaria® eco (14,16,18)

Indoor unit



Belaria® eco compact (14,16,18/230)

Indoor unit



Hoval quality.
You can count on us.



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