Technical parameters

Belaria® pro (25)

09.03.2026

Type of heat pump:	Air to water heat pump
Low-temperature heat pump: (Yes/No)	☐ Yes ☑ No
Temperature application: (35°C/55°C)	☑ 35 °C ☐ 55 °C
Equipped with supplementary heater: (Yes/No)	☐ Yes ☑ No
Heat pump combination heater: (Yes/No)	☐ Yes ☑ No
Contact details:	Hoval Aktiengesellschaft, 9490 Vaduz, Liechtenstein

		cold	average	warm	
Rated heat output	P_{rated}	21	21	24	kW

Outdoor temperature T_j	**Declared capacity for part load (indoor temperature = 20 °C)**				
T_j = – 15 °C	P_{dh}	16.7	-	-	kW
T_j = – 7 °C	P_{dh}	12.1	17.9	-	kW
T_j = +2 °C	P_{dh}	10.3	10.8	22.1	kW
T_j = +7 °C	P_{dh}	10.0	10.3	15.2	kW
T_j = +12 °C	P_{dh}	10.1	10.6	10.1	kW
T_j = Bivalenz temperature (T_{biv})	P_{dh}	16.7	21.2	22.1	kW
T_j = Operation limit temperature (TOL)	P_{dh}	14.7	21.2	22.1	kW
Bivalenz temperature (Tbiv)	T_{biv}	-15.0	-10.0	2.0	°C

Power consumption in modes other than active mode			
Thermostat-off mode	P_{TO}	0.0282	kW
Standby mode	P_{SB}	0.0280	kW
Off-mode	P_{OFF}	0.0006	kW
Crankase heater mode	P_{CK}	0.0000	kW

Other items					
Annual energy consumption	Q_{HE}	10,516	7,597	4,475	kWh
Sound power levels, indoors/outdoors	L_{WA}	- / 61			dB
Capacity control		variable			

		cold	average	warm	
Seasonal space heating efficiency	η_s	186	220	280	%
Seasonal coefficient of performance	SCOP	4.73	5.58	7.09	---

Outdoor temperature Tj	**Declared coefficient of performance for part load (indoor temperature = 20 °C)**				
T_j = – 15 °C	COP_d	2.75	-	-	---
T_j = – 7 °C	COP_d	3.97	3.34	-	---
T_j = +2 °C	COP_d	5.92	5.62	3.04	---
T_j = +7 °C	COP_d	7.38	7.10	6.25	---
T_j = +12 °C	COP_d	9.13	9.22	9.25	---
T_j = Bivalenz temperature (T_{biv})	COP_d	2.75	2.71	3.04	---
T_j = Operation limit temperature (TOL)	COP_d	2.37	2.71	3.04	---
Operation limit temperature	TOL	-20.0	-10.0	2.0	°C
Heating water operating limit temperature	WTOL	70			°C

Supplementary heater					
Rated heat output (*)	P_{sup}				kW
Type of energy input		n.a.			

For air-to-water heat pumps:			
Rated air flow rate, outdoors	---	6,600	m^3/h
For water- or brine-to-water heat pumps:			
Rated brine or water flow rate, outdoor heat exchanger	---	n.a.	m^3/h

According to Regulation (EU) 2017/1369 and corresponding Regulation (EU) No. 811/2013 (Energy Labelling), Dircetive 2009/125/EC and corresponding Regulation (EU) No. 813/2013 (Ecodesign)

Technical parameters

Belaria® pro (25)

09.03.2026

Type of heat pump:	Air to water heat pump
Low-temperature heat pump: (Yes/No)	☐ Yes ☑ No
Temperature application: (35°C/55°C)	☐ 35 °C ☑ 55 °C
Equipped with supplementary heater: (Yes/No)	☐ Yes ☑ No
Heat pump combination heater: (Yes/No)	☐ Yes ☑ No
Contact details:	Hoval Aktiengesellschaft, 9490 Vaduz, Liechtenstein

		cold	average	warm	
Rated heat output	P_{rated}	**20**	**19**	**23**	**kW**

Outdoor temperature T_j	**Declared capacity for part load (indoor temperature = 20 °C)**				
T_j = – 15 °C	P_{dh}	16.6	-	-	kW
T_j = – 7 °C	P_{dh}	12.8	17.6	-	kW
T_j = +2 °C	P_{dh}	11.6	10.2	22.4	kW
T_j = +7 °C	P_{dh}	10.4	9.9	15.2	kW
T_j = +12 °C	P_{dh}	10.4	10.7	10.7	kW
T_j = Bivalenz temperature (T_{biv})	P_{dh}	16.6	18.4	22.4	kW
T_j = Operation limit temperature (TOL)	P_{dh}	15.3	18.4	22.4	kW
Bivalenz temperature (Tbiv)	T_{biv}	-15.0	-10.0	2.0	°C

Power consumption in modes other than active mode			
Thermostat-off mode	P_{TO}	0.0282	kW
Standby mode	P_{SB}	0.0280	kW
Off-mode	P_{OFF}	0.0006	kW
Crankase heater mode	P_{CK}	0.0000	kW

Other items					
Annual energy consumption	Q_{HE}	13,604	9,381	6,003	kWh
Sound power levels, indoors/outdoors	L_{WA}	- / 61			dB
Capacity control		variable			

		cold	average	warm	
Seasonal space heating efficiency	η_s	**141**	**164**	**202**	**%**
Seasonal coefficient of performance	$SCOP$	**3.60**	**4.18**	**5.12**	**---**

Outdoor temperature Tj	**Declared coefficient of performance for part load (indoor temperature = 20 °C)**				
T_j = – 15 °C	COP_d	2.10	-	-	---
T_j = – 7 °C	COP_d	3.01	2.41	-	---
T_j = +2 °C	COP_d	4.39	4.20	2.23	---
T_j = +7 °C	COP_d	5.80	5.42	4.36	---
T_j = +12 °C	COP_d	7.51	7.15	6.89	---
T_j = Bivalenz temperature (T_{biv})	COP_d	2.10	2.08	2.23	---
T_j = Operation limit temperature (TOL)	COP_d	1.55	2.08	2.23	---
Operation limit temperature	TOL	-20.0	-10.0	2.0	°C
Heating water operating limit temperature	$WTOL$	70			°C

Supplementary heater					
Rated heat output (*)	P_{sup}				kW
Type of energy input		n.a.			

For air-to-water heat pumps:				
Rated air flow rate, outdoors	---	6,600		m^3/h
For water- or brine-to-water heat pumps:				
Rated brine or water flow rate, outdoor heat exchanger	---	n.a.		m^3/h

According to Regulation (EU) 2017/1369 and corresponding Regulation (EU) No. 811/2013 (Energy Labelling), Dircetive 2009/125/EC and corresponding Regulation (EU) No. 813/2013 (Ecodesign)