

Model: NRB0900°H°°°°°DD

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Code	NRB
Size	0900
Working fields	° - Mechanical thermostatic valve (outlet water temperature from +4 °C)
Model	H - Heat pump (shell and tube heat exchanger)
Heat recovery	° - Without heat recovery
Version	° - Standard efficiency
Coils	° - Copper pipes and aluminium fins
Fans	° - Standard (on/off)
Power supply	° - 400V/3/50Hz with circuit breakers
Hydronic kit	DD - Pump D + standby pump

Certifications



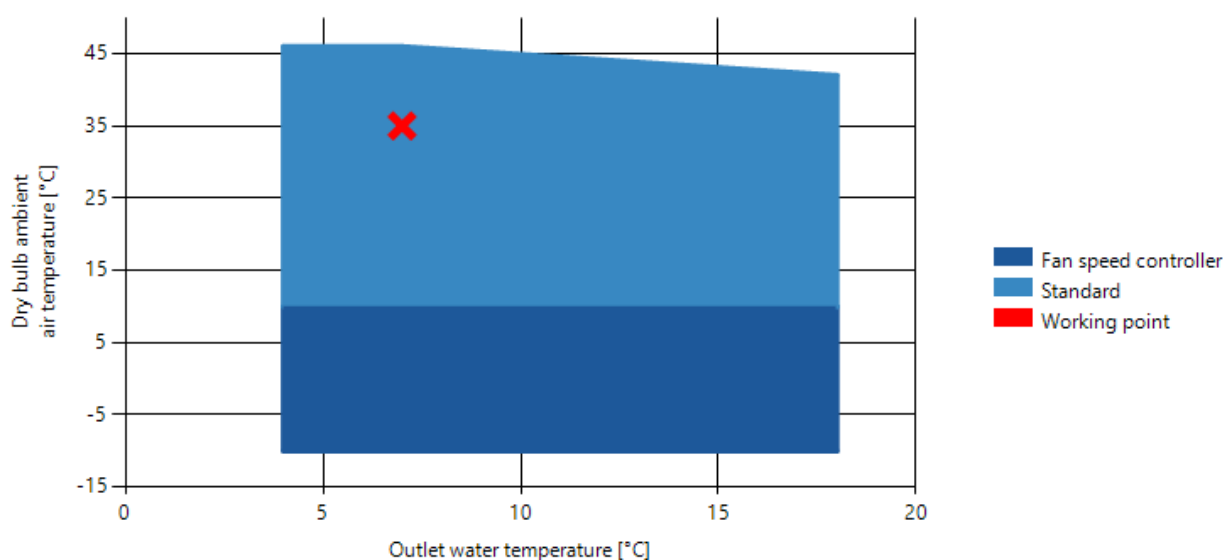
Aermec participates in the Eurovent Certification Programme. The certified data of certified models are listed in the Eurovent Directory.

Notes

The data shown are not Eurovent certified.
Data shown is calculated without soft-starter and/or power factor correction devices.

Cooling

Capacity	kW	218,3
Input power	kW	90,0
Input current	A	158
EER	W/W	2,43
Dry bulb air inlet temperature	°C	35,0
Inlet water temperature	°C	12,0
Outlet water temperature	°C	7,0
Temperature difference	°C	5,0
Ethylene glycol	%	0
Water flow rate	l/h	37.515
Available pressure	kPa	159
Fouling factor	(m ² K)/W	0



Seasonal energy performance - Cooling mode for low temperature

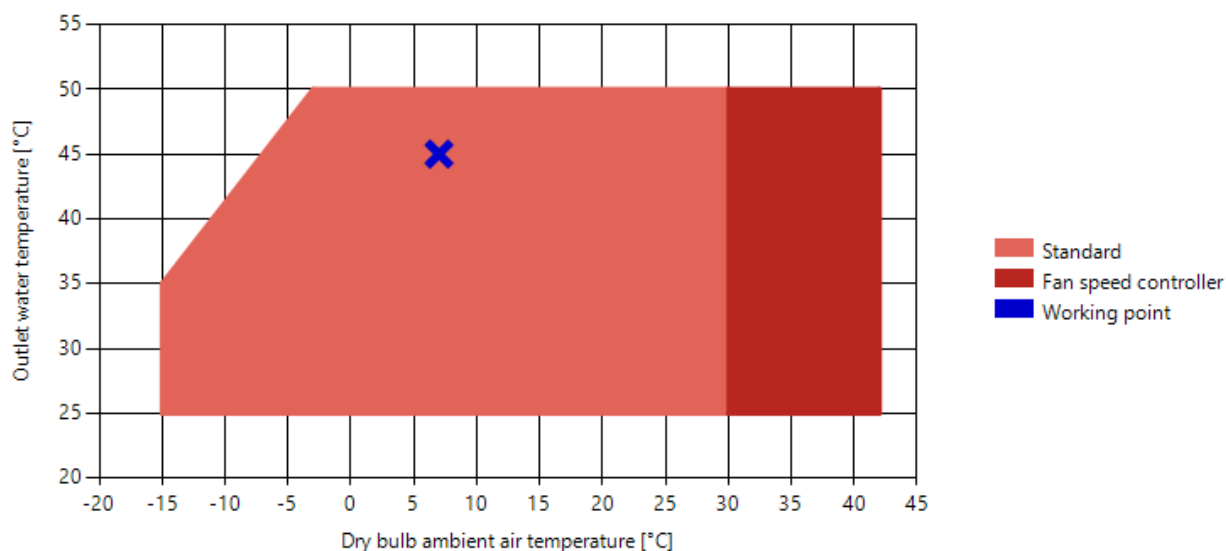
η _{sc}	%	143,50
SEER	W/W	3,66

Heating

Capacity	kW	237,1
Input power	kW	81,7
Input current	A	146
COP	W/W	2,90
Dry bulb ambient air temperature	°C	7,0
Wet bulb ambient air temperature	°C	6,0
Inlet water temperature	°C	40,0
Outlet water temperature	°C	45,0
Temperature difference	°C	5,0

The certified standard performances, conditions and the certification of the software can be verified in www.eurovent-certification.com.

Ethylene glycol	%	0
Water flow rate	l/h	41.207
Available pressure	kPa	180
Fouling factor	(m ² K)/W	0



Seasonal energy performance - Average climatic conditions

P _{designh}	35 °C	kW	219,00
η _s	35 °C	%	137,00
SCOP	35 °C	W/W	3,50

General data

Refrigerant circuit data

Refrigerant	R410A		
Driver	On-Off		
Compressor type	Scroll		
Number of compressors	n.		4
Number of cooling circuits	n.		2
Refrigerant gas charge	C1	kg	21
	C2	kg	21
Oil charge	C1	l	11,47
	C2	l	11,47

Fan group data

Driver	On-Off		
Fan type	Axial		
Number of fans	n.		4
Air flow rate	m ³ /h		80.000

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Water circuit data

Exchanger type	Shell and tube	
Number of exchangers	n.	1
Connections type	Grooved joints	

Electric data

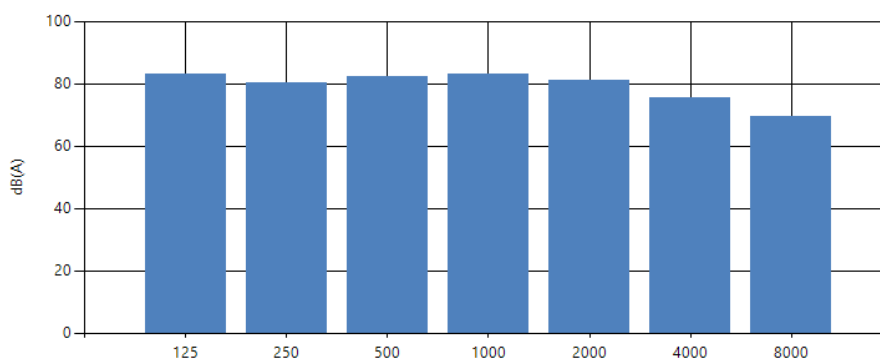
Full Load Amps (FLA)	A	195,47
Locked Rotor Amps (LRA)	A	422,86
Power supply	400V/3/50Hz with circuit breakers	

Sound data (nominal cooling data)

Sound power - Lw	dB(A)	89,5
Sound pressure at 10 m	dB(A)	57,4

Sound spectrum for octave bands (center frequency)

	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Lw - dB	99,5	89,1	85,5	83,4	80,0	74,6	70,7
Lw - dB(A)	83,4	80,5	82,3	83,4	81,2	75,6	69,6



The sound levels are given at full load, without pumps (if available) and at nominal conditions (air temperature: 35,0 °C, water temperature (in/out): 12,0/7,0 °C).

Dimensions and weights

A [m]	B [m]	C [m]	Empty weight [kg]
2,45	2,2	3,97	3.580

* = Free field

The dimensions and weight refer to the unit without packaging. For these data, consult the installation manual.

