

## Subtype NIBE AMS20-10

Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	NIBE AMS20-10
Registration number	012-C700143
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.84 kg
Certification Date	12.12.2022
Testing basis	EN 14511:2018, EN 14825:2018, EN 12102:2022.

## Model NIBE AMS20-10 + HBS20-10

Model name	NIBE AMS20-10 + HBS20-10
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

### EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	dB(A)	35 dB(A)
Sound power level outdoor	dB(A)	54 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	181 %	132 %
Prated	6.30 kW	6.45 kW
SCOP	4.59	3.36
Tbiv	-10 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.60 kW	5.77 kW
COP Tj = -7°C	3.01	1.98
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	3.24 kW	3.45 kW
COP Tj = +2°C	4.20	3.17
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	2.26 kW	2.26 kW
COP Tj = +7°C	6.48	4.98
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	2.57 kW	2.24 kW
COP Tj = 12°C	8.05	5.50
Cdh Tj = +12 °C	0.960	0.980
Pdh Tj = Tbiv	6.30 kW	5.77 kW

COP $T_j = T_{biv}$	2.61	1.98
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	6.30 kW	5.79 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.61	1.69
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.990	1.000
WTOL	60 °C	60 °C
P <sub>off</sub>	3 W	3 W
PTO	12 W	8 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.70 kW
Annual energy consumption Q <sub>he</sub>	2834 kWh	3961 kWh

## Model NIBE AMS 20-10 + SHB 20-12

Model name	NIBE AMS 20-10 + SHB 20-12
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	1x230V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

### EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	dB(A)	35 dB(A)
Sound power level outdoor	dB(A)	54 dB(A)

### EN 14825 | Average Climate

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