

Subtype NIBE S735C-7

Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	NIBE S735C-7
Registration number	012-C700271
Heat Pump Type	Exhaust Air/Water
Refrigerant	R290
Mass of Refrigerant	0.42 kg
Certification Date	10.07.2024
Testing basis	EN 14511:2022, EN 14825:2022, EN 16147:2017+A1:2022, EN 12102:2022
Testing laboratory	RISE Research Institutes of Sweden

Model NIBE S735C-7 R

Model name	NIBE S735C-7 R
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Exhaust Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	117 %
COP	2.76
Heating up time	2:43 h:min
Standby power input	77.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	223 l

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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.44 kW	4.38 kW
El input	0.92 kW	1.60 kW
COP	3.72	2.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	189 %	150 %
Prated	5.60 kW	5.60 kW

SCOP	4.80	3.84
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.84 kW	4.88 kW
COP Tj = -7°C	3.09	2.48
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.98 kW	2.80 kW
COP Tj = +2°C	5.05	3.85
Cdh Tj = +2 °C	0.920	0.950
Pdh Tj = +7°C	2.04 kW	2.03 kW
COP Tj = +7°C	5.81	4.82
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	1.61 kW	1.56 kW
COP Tj = 12°C	6.71	5.57
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.84 kW	5.33 kW
COP Tj = Tbiv	3.09	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	5.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.99	2.29
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	50 W	38 W
PSB	34 W	34 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	n/a
Supplementary Heater: PSUP	0.70 kW	kW
Annual energy consumption Qhe	2409 kWh	3015 kWh

Model NIBE S735C-7 E

Model name	NIBE S735C-7 E
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Exhaust Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	117 %
COP	2.76
Heating up time	2:43 h:min
Standby power input	77.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	223 l

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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.44 kW	4.38 kW
El input	0.92 kW	1.60 kW
COP	3.72	2.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	189 %	150 %
Prated	5.60 kW	5.60 kW

SCOP	4.80	3.84
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.84 kW	4.88 kW
COP Tj = -7°C	3.09	2.48
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.98 kW	2.80 kW
COP Tj = +2°C	5.05	3.85
Cdh Tj = +2 °C	0.920	0.950
Pdh Tj = +7°C	2.04 kW	2.03 kW
COP Tj = +7°C	5.81	4.82
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	1.61 kW	1.56 kW
COP Tj = 12°C	6.71	5.57
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.84 kW	5.33 kW
COP Tj = Tbiv	3.09	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	5.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.99	2.29
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	50 W	38 W
PSB	34 W	34 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	n/a
Supplementary Heater: PSUP	0.70 kW	kW
Annual energy consumption Qhe	2409 kWh	3015 kWh

Model NIBE S735C-7 R 3X230V

Model name	NIBE S735C-7 R 3X230V
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x230V 50Hz
Off-peak product	No

Exhaust Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	117 %
COP	2.76
Heating up time	2:43 h:min
Standby power input	77.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	223 l

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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.44 kW	4.38 kW
El input	0.92 kW	1.60 kW
COP	3.72	2.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	189 %	150 %
Prated	5.60 kW	5.60 kW

SCOP	4.80	3.84
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.84 kW	4.88 kW
COP Tj = -7°C	3.09	2.48
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.98 kW	2.80 kW
COP Tj = +2°C	5.05	3.85
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Pdh Tj = +7°C	2.04 kW	2.03 kW
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Pdh Tj = 12°C	1.61 kW	1.56 kW
COP Tj = 12°C	6.71	5.57
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.84 kW	5.33 kW
COP Tj = Tbiv	3.09	2.29
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	5.33 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.99	2.29
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	50 W	38 W
PSB	34 W	34 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	n/a
Supplementary Heater: PSUP	0.70 kW	kW
Annual energy consumption Qhe	2409 kWh	3015 kWh

Model NIBE S735C-7 R 1X230V

Model name	NIBE S735C-7 R 1X230V
Application	Heating + DHW + low temp
Units	Indoor
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	No

Exhaust Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	117 %
COP	2.76
Heating up time	2:43 h:min
Standby power input	77.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	223 l

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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.44 kW	4.38 kW
El input	0.92 kW	1.60 kW
COP	3.72	2.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	189 %	150 %
Prated	5.60 kW	5.60 kW

SCOP	4.80	3.84
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.84 kW	4.88 kW
COP Tj = -7°C	3.09	2.48
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.98 kW	2.80 kW
COP Tj = +2°C	5.05	3.85
Cdh Tj = +2 °C	0.920	0.950
Pdh Tj = +7°C	2.04 kW	2.03 kW
COP Tj = +7°C	5.81	4.82
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WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	50 W	38 W
PSB	34 W	34 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	n/a
Supplementary Heater: PSUP	0.70 kW	kW
Annual energy consumption Qhe	2409 kWh	3015 kWh

Model NIBE S735C-7 CU 3x400V

Model name	NIBE S735C-7 CU 3x400V
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	n/a
Off-peak product	n/a

Exhaust Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	117 %
COP	2.76
Heating up time	2:43 h:min
Standby power input	77.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	223 l

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Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	3.44 kW	4.38 kW
El input	0.92 kW	1.60 kW
COP	3.72	2.74

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

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Prated	5.60 kW	5.60 kW

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Pdh Tj = -7°C	4.84 kW	4.88 kW
COP Tj = -7°C	3.09	2.48
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Pdh Tj = +2°C	2.98 kW	2.80 kW
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Pdh Tj = +7°C	2.04 kW	2.03 kW
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WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	50 W	38 W
PSB	34 W	34 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	n/a
Supplementary Heater: PSUP	0.70 kW	kW
Annual energy consumption Qhe	2409 kWh	3015 kWh