Subtype NIBE S735-4

Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	NIBE S735-4
Registration number	012-C700185
Heat Pump Type	Exhaust Air/Water
Refrigerant	R290
Mass of Refrigerant	0.3 kg
Certification Date	21.06.2023
Testing basis	EN 14511:2022, EN 16147:2017+A1:2022, EN 14825:2022, EN 12102:2022.
Testing laboratory	Danish Technological Institute (DTI), DK

Model NIBE S735-4 Cu

Model name	NIBE S735-4 Cu
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
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 ηDHW	117 %
COP	2.80
Heating up time	4:15 h:min
Standby power input	64.4 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	230 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	2.30 kW	2.50 kW
El input	0.58 kW	1.10 kW
COP	4.00	2.30

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	187 %	143 %
Prated	3.50 kW	3.50 kW
SCOP	4.75	3.65

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.13 kW	3.06 kW
COP Tj = -7°C	3.09	2.56
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	1.89 kW	1.86 kW
COP Tj = +2°C	5.20	3.78
Cdh Tj = +2 °C	0.950	0.970
Pdh Tj = +7°C	1.24 kW	1.21 kW
COP Tj = +7°C	6.38	4.70
Cdh Tj = +7 °C	0.910	0.940
Pdh Tj = 12°C	1.19 kW	1.14 kW
COP Tj = 12°C	6.87	5.58
Cdh Tj = +12 °C	0.900	0.920
Pdh Tj = Tbiv	3.13 kW	3.51 kW
COP Tj = Tbiv	3.09	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.05 kW	3.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	17 W	16 W
PSB	18 W	18 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.45 kW	0.00 kW
Annual energy consumption Qhe	1523 kWh	1982 kWh

Model NIBE S735-4 E	
Model name	NIBE S735-4 E
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
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 ηDHW	117 %
COP	2.80
Heating up time	4:15 h:min
Standby power input	64.4 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	230 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	2.30 kW	2.50 kW
El input	0.58 kW	1.10 kW
COP	4.00	2.30

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	187 %	143 %
Prated	3.50 kW	3.50 kW
SCOP	4.75	3.65

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.13 kW	3.06 kW
COP Tj = -7°C	3.09	2.56
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	1.89 kW	1.86 kW
COP Tj = +2°C	5.20	3.78
Cdh Tj = +2 °C	0.950	0.970
Pdh Tj = +7°C	1.24 kW	1.21 kW
COP Tj = +7°C	6.38	4.70
Cdh Tj = +7 °C	0.910	0.940
Pdh Tj = 12°C	1.19 kW	1.14 kW
COP Tj = 12°C	6.87	5.58
Cdh Tj = +12 °C	0.900	0.920
Pdh Tj = Tbiv	3.13 kW	3.51 kW
COP Tj = Tbiv	3.09	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.05 kW	3.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	17 W	16 W
PSB	18 W	18 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.45 kW	0.00 kW
Annual energy consumption Qhe	1523 kWh	1982 kWh

Model NIBE S735-4 R	
Model name	NIBE S735-4 R
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
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 ηDHW	117 %
COP	2.80
Heating up time	4:15 h:min
Standby power input	64.4 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	230 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	2.30 kW	2.50 kW
El input	0.58 kW	1.10 kW
COP	4.00	2.30

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	187 %	143 %
Prated	3.50 kW	3.50 kW
SCOP	4.75	3.65

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.13 kW	3.06 kW
COP Tj = -7°C	3.09	2.56
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	1.89 kW	1.86 kW
COP Tj = +2°C	5.20	3.78
Cdh Tj = +2 °C	0.950	0.970
Pdh Tj = +7°C	1.24 kW	1.21 kW
COP Tj = +7°C	6.38	4.70
Cdh Tj = +7 °C	0.910	0.940
Pdh Tj = 12°C	1.19 kW	1.14 kW
COP Tj = 12°C	6.87	5.58
Cdh Tj = +12 °C	0.900	0.920
Pdh Tj = Tbiv	3.13 kW	3.51 kW
COP Tj = Tbiv	3.09	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.05 kW	3.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	17 W	16 W
PSB	18 W	18 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.45 kW	0.00 kW
Annual energy consumption Qhe	1523 kWh	1982 kWh

Model NIBE S735-4 R 1x230V	
Model name	NIBE S735-4 R 1x230V
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
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 ηDHW	117 %
COP	2.80
Heating up time	4:15 h:min
Standby power input	64.4 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	230 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	2.30 kW	2.50 kW
El input	0.58 kW	1.10 kW
COP	4.00	2.30

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	187 %	143 %
Prated	3.50 kW	3.50 kW
SCOP	4.75	3.65

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.13 kW	3.06 kW
COP Tj = -7°C	3.09	2.56
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	1.89 kW	1.86 kW
COP Tj = +2°C	5.20	3.78
Cdh Tj = +2 °C	0.950	0.970
Pdh Tj = +7°C	1.24 kW	1.21 kW
COP Tj = +7°C	6.38	4.70
Cdh Tj = +7 °C	0.910	0.940
Pdh Tj = 12°C	1.19 kW	1.14 kW
COP Tj = 12°C	6.87	5.58
Cdh Tj = +12 °C	0.900	0.920
Pdh Tj = Tbiv	3.13 kW	3.51 kW
COP Tj = Tbiv	3.09	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.05 kW	3.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	17 W	16 W
PSB	18 W	18 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.45 kW	0.00 kW
Annual energy consumption Qhe	1523 kWh	1982 kWh

Model NIBE S735-4 R 3x230V

Model name	NIBE S735-4 R 3x230V
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	n/a
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 ηDHW	117 %
COP	2.80
Heating up time	4:15 h:min
Standby power input	64.4 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	230 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	2.30 kW	2.50 kW
El input	0.58 kW	1.10 kW
COP	4.00	2.30

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	187 %	143 %
Prated	3.50 kW	3.50 kW
SCOP	4.75	3.65

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.13 kW	3.06 kW
COP Tj = -7°C	3.09	2.56
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	1.89 kW	1.86 kW
COP Tj = +2°C	5.20	3.78
Cdh Tj = +2 °C	0.950	0.970
Pdh Tj = +7°C	1.24 kW	1.21 kW
COP Tj = +7°C	6.38	4.70
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Pdh Tj = 12°C	1.19 kW	1.14 kW
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Pdh Tj = Tbiv	3.13 kW	3.51 kW
COP Tj = Tbiv	3.09	2.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.05 kW	3.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.23
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	65 °C	65 °C
Poff	8 W	8 W
PTO	17 W	16 W
PSB	18 W	18 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.45 kW	0.00 kW
Annual energy consumption Qhe	1523 kWh	1982 kWh