Subtype S735-7	
Certificate Holder	Nibe AB
Address	Box 14
ZIP	S-28521
City	Markaryd
Country	SE
Certification Body	RISE CERT
Subtype title	S735-7
Registration number	012-C700131
Heat Pump Type	Exhaust Air/Water
Refrigerant	R290
Mass of Refrigerant	0.42 kg
Certification Date	20.10.2022
Testing basis	EN 14511:2018, EN 16147:2017, EN 14825:2018, EN 12102:2017.
Testing laboratory	RISE Research Institutes of Sweden

Model S735-7 Cu	
Model name	S735-7 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	114 %
COP	2.70
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	dB(A)	44 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	177 %	144 %
Prated	5.60 kW	5.60 kW
SCOP	4.50	3.67

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.91 kW	4.91 kW
COP Tj = -7°C	3.09	2.52
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	3.01 kW	2.99 kW
COP Tj = +2°C	4.84	3.77
Cdh Tj = +2 °C	0.920	0.950
Pdh Tj = +7°C	2.00 kW	1.98 kW
COP Tj = +7°C	5.52	4.53
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	1.59 kW	1.54 kW
COP Tj = 12°C	5.87	5.20
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.91 kW	5.47 kW
COP Tj = Tbiv	3.09	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
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	Electricity
Supplementary Heater: PSUP	0.60 kW	0.00 kW
Annual energy consumption Qhe	2571 kWh	3156 kWh

Model S735-7 E	
Model name	S735-7 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	2.76
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	215 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	dB(A)	44 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	177 %	144 %
Prated	5.60 kW	5.60 kW
SCOP	4.50	3.67

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.91 kW	4.91 kW
COP Tj = -7°C	3.09	2.52
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	3.01 kW	2.99 kW
COP Tj = +2°C	4.84	3.77
Cdh Tj = +2 °C	0.920	0.950
Pdh Tj = +7°C	2.00 kW	1.98 kW
COP Tj = +7°C	5.52	4.53
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	1.59 kW	1.54 kW
COP Tj = 12°C	5.87	5.20
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.91 kW	5.47 kW
COP Tj = Tbiv	3.09	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
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	Electricity
Supplementary Heater: PSUP	0.60 kW	0.00 kW
Annual energy consumption Qhe	2571 kWh	3156 kWh

Model S735-7 R	
Model name	S735-7 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	2.76
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	215 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	dB(A)	44 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	177 %	144 %
Prated	5.60 kW	5.60 kW
SCOP	4.50	3.67

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.91 kW	4.91 kW
COP Tj = -7°C	3.09	2.52
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	3.01 kW	2.99 kW
COP Tj = +2°C	4.84	3.77
Cdh Tj = +2 °C	0.920	0.950
Pdh Tj = +7°C	2.00 kW	1.98 kW
COP Tj = +7°C	5.52	4.53
Cdh Tj = +7 °C	0.900	0.910
Pdh Tj = 12°C	1.59 kW	1.54 kW
COP Tj = 12°C	5.87	5.20
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.91 kW	5.47 kW
COP Tj = Tbiv	3.09	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
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	Electricity
Supplementary Heater: PSUP	0.60 kW	0.00 kW
Annual energy consumption Qhe	2571 kWh	3156 kWh

Model S735-7 R 1x230 V	
Model name	S735-7 R 1x230 V
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	2.76
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	215 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	dB(A)	44 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	177 %	144 %
Prated	5.60 kW	5.60 kW
SCOP	4.50	3.67

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.91 kW	4.91 kW
COP Tj = -7°C	3.09	2.52
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	3.01 kW	2.99 kW
COP Tj = +2°C	4.84	3.77
Cdh Tj = +2 °C	0.920	0.950
Pdh Tj = +7°C	2.00 kW	1.98 kW
COP Tj = +7°C	5.52	4.53
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Pdh Tj = 12°C	1.59 kW	1.54 kW
COP Tj = 12°C	5.87	5.20
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.91 kW	5.47 kW
COP Tj = Tbiv	3.09	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.97	2.33
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.980
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	Electricity
Supplementary Heater: PSUP	0.60 kW	0.00 kW
Annual energy consumption Qhe	2571 kWh	3156 kWh

Model S735-7 R 3x230V	
Model name	S735-7 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	2.76
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	215 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	dB(A)	44 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	177 %	144 %
Prated	5.60 kW	5.60 kW
SCOP	4.50	3.67

Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.91 kW	4.91 kW
COP Tj = -7°C	3.09	2.52
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	3.01 kW	2.99 kW
COP Tj = +2°C	4.84	3.77
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Pdh Tj = +7°C	2.00 kW	1.98 kW
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Pdh Tj = Tbiv	4.91 kW	5.47 kW
COP Tj = Tbiv	3.09	2.33
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.47 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	Electricity
Supplementary Heater: PSUP	0.60 kW	0.00 kW
Annual energy consumption Qhe	2571 kWh	3156 kWh