Login

Summary of	F7x0	Reg. No.	012-025
Certificate Holder			
Name	Nibe AB		
Address	Box 14	Zip	S-28521
City	Markaryd	Country	Sweden
Certification Body	RISE CERT		
Subtype title	F7x0		
Heat Pump Type	Exhaust Air/Water		
Refrigerant	R407c		
Mass of Refrigerant	0.74 kg		

Model: F730

Configure model	
Model name	F730
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz
Off-peak product	No

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	3.19 kW	3.52 kW
El input	0.92 kW	1.51 kW
COP	3.47	2.33

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	172 %	132 %
Prated	4.50 kW	4.50 kW
SCOP	4.38	3.38
Tbiv	-5 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.50 kW	4.00 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.60 kW	2.80 kW
COP Tj = +2°C	4.50	3.30
Pdh Tj = +7°C	1.60 kW	1.70 kW
COP Tj = +7°C	5.80	4.30
Pdh Tj = 12°C	1.50 kW	1.70 kW
COP Tj = 12°C	5.50	4.20
Pdh Tj = Tbiv	3.60 kW	4.00 kW
COP Tj = Tbiv	3.20	2.30

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.60 kW	3.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.30
Rated airflow rate	180 m³/h	180 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.93	0.97
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.90 kW
Annual energy consumption Qhe	2758 kWh	2756 kWh

Warmer Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	174 %	133 %

Prated	4.50 kW	4.50 kW
SCOP	4.43	3.40
Tbiv	5 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	3.60 kW	3.60 kW
COP Tj = +2°C	3.10	2.30
Pdh Tj = +7°C	2.90 kW	2.90 kW
COP Tj = +7°C	3.90	3.00
Pdh Tj = 12°C	1.50 kW	1.70 kW
COP Tj = 12°C	5.90	4.30
Pdh Tj = Tbiv	3.60 kW	3.90 kW
COP Tj = Tbiv	3.30	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.60 kW	3.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.30
Rated airflow rate	180 m^3/h	180 m^3/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.94	0.97
WTOL	60 °C	60 °C
Poff	3 W	3 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.90 kW
Annual energy consumption Qhe	1359 kWh	1766 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	44 dB(A)	44 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	140 %
Prated	4.50 kW	4.50 kW
SCOP	4.65	3.58
Tbiv	-12 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	2.80 kW	2.80 kW
COP Tj = -7°C	4.30	3.10
Pdh Tj = +2°C	1.70 kW	1.70 kW
COP Tj = +2°C	5.40	4.20
Pdh Tj = +7°C	1.50 kW	1.70 kW

COP Tj = +7°C	5.90	4.30
Pdh Tj = 12°C	1.50 kW	1.70 kW
COP Tj = 12°C	4.90	4.00
Pdh Tj = Tbiv	3.30 kW	3.80 kW
COP Tj = Tbiv	3.40	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.60 kW	3.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.30
Rated airflow rate	180 m³/h	180 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.92	0.96
WTOL	65 °C	65 °C
Poff	3 W	3 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.90 kW
Annual energy consumption Qhe	2389 kWh	3105 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	91 %
COP	2.28
Heating up time	04:30 h:min
Standby power input	50.0 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	210 l

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	91 %
COP	2.28
Heating up time	04:30 h:min
Standby power input	50.0 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	210 l

Colder Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	91 %
COP	2.28
Heating up time	04:30 h:min
Standby power input	50.0 W
Reference hot water temperature	51.0 °C
Mixed water at 40°C	210 l

Model: F750

Configure model	
Model name	F750
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate + Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz
Off-peak product	No

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	3.19 kW	3.52 kW
El input	0.92 kW	1.51 kW
COP	3.47	2.33

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Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
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Pdh Tj = +7°C	1.60 kW	1.70 kW
COP Tj = +7°C	5.80	4.30
Pdh Tj = 12°C	1.50 kW	1.70 kW
COP Tj = 12°C	5.50	4.20
Pdh Tj = Tbiv	3.60 kW	4.00 kW
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Pdh Tj = 12°C	1.50 kW	1.70 kW
COP Tj = 12°C	4.90	4.00
Pdh Tj = Tbiv	3.30 kW	3.80 kW
COP Tj = Tbiv	3.40	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.60 kW	3.60 kW
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