

Page 1 of 17

This information was generated by the HP KEYMARK database on 7 Jul 2022

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 14511-4		
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	

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



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
$COP Tj = +7^{\circ}C$	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 m³/h	180 m³/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
РТО	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	
183 %	140 %	
4.50 kW	4.50 kW	
4.65	3.58	
	Low temperature 183 % 4.50 kW	





$$\operatorname{\textit{Page}}\xspace\:5\:\:\text{of}\:17\:\:$ This information was generated by the HP KEYMARK database on 7 Jul 2022

TOL Pdh Tj = -7° C COP Tj = -7° C Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C Pdh Tj = $+7^{\circ}$ C	-12 °C -22 °C 2.80 kW 4.30 1.70 kW 5.40 1.50 kW 5.90 1.50 kW	-15 °C -22 °C 2.80 kW 3.10 1.70 kW 4.20 1.70 kW 4.30 1.70 kW
Pdh Tj = -7° C 2 COP Tj = -7° C 4 Pdh Tj = $+2^{\circ}$ C 3 COP Tj = $+2^{\circ}$ C 4 Pdh Tj = $+7^{\circ}$ C 5 COP Tj = $+7^{\circ}$ C 5 COP Tj = $+7^{\circ}$ C 5	2.80 kW 4.30 1.70 kW 5.40 1.50 kW 5.90 1.50 kW	2.80 kW 3.10 1.70 kW 4.20 1.70 kW
$COP Tj = -7^{\circ}C$ $Pdh Tj = +2^{\circ}C$ $COP Tj = +2^{\circ}C$ $Pdh Tj = +7^{\circ}C$ $COP Tj = +7^{\circ}C$	4.30 1.70 kW 5.40 1.50 kW 5.90 1.50 kW	3.10 1.70 kW 4.20 1.70 kW 4.30
Pdh Tj = $+2^{\circ}$ C COP Tj = $+2^{\circ}$ C Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C	1.70 kW 5.40 1.50 kW 5.90 1.50 kW	1.70 kW 4.20 1.70 kW 4.30
$COP Tj = +2^{\circ}C$ $Pdh Tj = +7^{\circ}C$ $COP Tj = +7^{\circ}C$	5.40 1.50 kW 5.90 1.50 kW	4.20 1.70 kW 4.30
Pdh Tj = $+7^{\circ}$ C COP Tj = $+7^{\circ}$ C	1.50 kW 5.90 1.50 kW	1.70 kW 4.30
$COP Tj = +7^{\circ}C$	5.90 1.50 kW	4.30
	1.50 kW	
Pdh Tj = 12°C		1.70 kW
	4.00	
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
РТО	20 W	20 W
PSB 2	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

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

EN 14825		
	Low 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 = $+7^{\circ}$ C	1.60 kW	1.70 kW





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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
РТО	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

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	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	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	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	



$$\operatorname{Page}\ 9$ of 17$$ This information was generated by the HP KEYMARK database on 7 Jul 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	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	



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

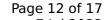
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.19 kW	3.52 kW
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	Low temperature	Medium temperature
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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



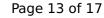


Rated airflow rate	180 m³/h	180 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.94	0.97
WTOL	60 °C	60 °C
Poff	3 W	3 W
PTO	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.90 kW
Annual energy consumption Qhe	1359 kWh	1766 kWh

Colder Climate

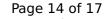
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183 %	140 %	
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4.65	3.58	
	Low temperature 183 % 4.50 kW	





		IANK database on 7 jul 2022
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 = $+7^{\circ}$ C	1.50 kW	1.70 kW
$COP Tj = +7^{\circ}C$	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
РТО	20 W	20 W
PSB	20 W	20 W
PCK	o w	o w
	1	

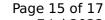




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TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.50 kW	4.00 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.60 kW	2.80 kW
COP Tj = +2°C	4.50	3.30
Pdh Tj = +7°C	1.60 kW	1.70 kW





	,	,
$COP Tj = +7^{\circ}C$	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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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.30
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.93	0.97
WTOL	65 °C	65 °C
Poff	3 W	3 W
РТО	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

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	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	

Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	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	



EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	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	