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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		
Name of testing laboratory	RISE		
Subtype title	F7x0		
Heat Pump Type	Exhaust Air/Water		
Refrigerant	R407c		
Mass Of Refrigerant	0.74 kg		



# Model: F730

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
СОР	3.47	2.33
Indoor water flow rate	0.55 m³/h	0.38 m³/h

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

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

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	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

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Pdh Tj = TOL	3.60 kW	3.60 kW
COP Tj = TOL	3.10	2.30
Rated airflow rate	180 m³/h	180 m³/h
Cdh	0.93	0.97
WTOL	65 °C	65 °C
Poff	3 W	3 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	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	
174 %	133 %	
-	Low temperature	

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Prated	4.50 kW	4.50 kW
SCOP	4.43	3.40
Tbiv	5 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = $+2^{\circ}C$	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	3.60 kW	3.60 kW
COP Tj = TOL	3.10	2.30
Rated airflow rate	180 m³/h	180 m³/h
Cdh	0.94	0.97
WTOL	60 °C	60 °C
Poff	3 W	3 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	0 W	0 W

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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 <sub>s</sub>	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	

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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	3.60 kW	3.60 kW
COP Tj = TOL	3.10	2.30
Rated airflow rate	180 m³/h	180 m³/h
Cdh	0.92	0.96
WTOL	65 °C	65 °C
Poff	3 W	3 W
РТО	20 W	20 W
PSB	20 W	20 W
РСК	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



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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			

### Warmer 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		

# Colder Climate



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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

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	
СОР	3.47	2.33	
Indoor water flow rate	0.55 m³/h	0.38 m³/h	

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

#### Average Climate

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Pdh Tj = +7°C	1.60 kW	1.70 kW		
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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		

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Low temperature	Medium temperature	
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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	3.60 kW	3.60 kW
COP Tj = TOL	3.10	2.30
Rated airflow rate	180 m³/h	180 m³/h
Cdh	0.94	0.97
WTOL	60 °C	60 °C
Poff	3 W	3 W
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Supplementary Heater: Type of energy input	electricity	electricity	
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COP Tj = Tbiv	3.40	2.50
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## Domestic Hot Water (DHW)

Average Climate



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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	

### Warmer 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	

# Colder Climate



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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

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