

Page 1 of 23

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

#### **Login**

Summary of	F1x45-10 3x400	Reg. No.	012-041	
Certificate Holder	Certificate Holder			
Name	Nibe AB			
Address	Box 14	Zip	S-28521	
City	Markaryd	Country	Sweden	
Certification Body	RISE CERT	·		
Subtype title	F1x45-10 3x400			
Heat Pump Type	Brine/Water			
Refrigerant	R407c			
Mass of Refrigerant	2.1 kg			



# Model: F1145-10 3x400

Configure model		
Model name	F1145-10 3x400	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

# 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	9.64 kW	7.82 kW
El input	2.13 kW	2.51 kW
СОР	4.53	3.12

#### Colder Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	200 %	151 %
Prated	12.00 kW	10.00 kW
SCOP	5.20	3.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.10 kW	8.60 kW
COP Tj = -7°C	5.23	3.79
Pdh Tj = +2°C	10.20 kW	9.10 kW
COP Tj = +2°C	5.38	4.19
Pdh Tj = +7°C	10.40 kW	9.40 kW
$COP Tj = +7^{\circ}C$	5.45	4.52
Pdh Tj = 12°C	10.40 kW	9.70 kW
COP Tj = 12°C	5.22	4.68
Pdh Tj = Tbiv	9.90 kW	8.20 kW
COP Tj = Tbiv	5.08	3.55

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	3.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.40 kW
Annual energy consumption Qhe	5695 kWh	6214 kWh

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	45 dB(A)	45 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	194 %	147 %
Prated	12.00 kW	10.00 kW
	1	1





SCOP       5.05       3.88         TDiv       -5 °C       -5 °C         TOL       -10 °C       -10 °C         Pdh Tj = -7°C       9.80 kW       7.90 kW         COP Tj = -7°C       4.93       3.40         Pdh Tj = +2°C       10.00 kW       8.70 kW         COP Tj = +2°C       5.18       3.91         Pdh Tj = +7°C       5.35       4.25         Pdh Tj = 12°C       10.40 kW       9.60 kW         COP Tj = 12°C       5.39       4.58         Pdh Tj = Tbiv       9.50 kW       8.20 kW         COP Tj = Tbiv       4.99       3.52         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh       9.70 kW       7.60 kW         COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh       0.99       1.00         WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       20 W       10 W         PCK       14 W       14 W		·	· · · · · · · · · · · · · · · · · · ·
TOL -10 °C -10 °	SCOP	5.05	3.88
Pdh Tj = -7°C       9.80 kW       7.90 kW         COP Tj = -7°C       4.93       3.40         Pdh Tj = +2°C       10.00 kW       8.70 kW         COP Tj = +2°C       5.18       3.91         Pdh Tj = +7°C       10.20 kW       9.20 kW         COP Tj = +7°C       5.35       4.25         Pdh Tj = 12°C       10.40 kW       9.60 kW         COP Tj = 12°C       5.39       4.58         Pdh Tj = Tbiv       9.50 kW       8.20 kW         COP Tj = Tbiv       4.99       3.52         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Tbiv	-5 °C	-5 °C
COP Tj = -7°C  4.93  3.40  Pdh Tj = +2°C  10.00 kW  8.70 kW  COP Tj = +2°C  5.18  3.91  Pdh Tj = +7°C  10.20 kW  9.20 kW  COP Tj = +7°C  5.35  4.25  Pdh Tj = 12°C  10.40 kW  9.60 kW  COP Tj = 12°C  5.39  4.58  Pdh Tj = Tbiv  9.50 kW  8.20 kW  COP Tj = Tbiv  4.99  3.52  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh  COP Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh  0.99  1.00  WTOL  65 °C  65 °C  Poff  2 W  2 W  PTO  PSB  7 W  7 W	TOL	-10 °C	-10 °C
Pdh Tj = +2°C       10.00 kW       8.70 kW         COP Tj = +2°C       5.18       3.91         Pdh Tj = +7°C       10.20 kW       9.20 kW         COP Tj = +7°C       5.35       4.25         Pdh Tj = 12°C       10.40 kW       9.60 kW         COP Tj = 12°C       5.39       4.58         Pdh Tj = Tbiv       9.50 kW       8.20 kW         COP Tj = Tbiv       4.99       3.52         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = -7°C	9.80 kW	7.90 kW
COP Tj = +2°C       5.18       3.91         Pdh Tj = +7°C       10.20 kW       9.20 kW         COP Tj = +7°C       5.35       4.25         Pdh Tj = 12°C       10.40 kW       9.60 kW         COP Tj = 12°C       5.39       4.58         Pdh Tj = Tbiv       9.50 kW       8.20 kW         COP Tj = Tbiv       4.99       3.52         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = -7°C	4.93	3.40
Pdh Tj = +7°C       10.20 kW       9.20 kW         COP Tj = +7°C       5.35       4.25         Pdh Tj = 12°C       10.40 kW       9.60 kW         COP Tj = 12°C       5.39       4.58         Pdh Tj = Tbiv       9.50 kW       8.20 kW         COP Tj = Tbiv       4.99       3.52         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = +2°C	10.00 kW	8.70 kW
COP Tj = +7°C	COP Tj = +2°C	5.18	3.91
Pdh Tj = 12°C       10.40 kW       9.60 kW         COP Tj = 12°C       5.39       4.58         Pdh Tj = Tbiv       9.50 kW       8.20 kW         COP Tj = Tbiv       4.99       3.52         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = +7°C	10.20 kW	9.20 kW
COP Tj = 12°C 5.39 4.58  Pdh Tj = Tbiv 9.50 kW 8.20 kW  COP Tj = Tbiv 4.99 3.52  Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 9.70 kW 7.60 kW  COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 4.80 3.19  Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.99 1.00  WTOL 65 °C 65 °C  Poff 2 W 2 W  PTO 20 W 10 W  7 W	$COPTj = +7^{\circ}C$	5.35	4.25
Pdh Tj = Tbiv       9.50 kW       8.20 kW         COP Tj = Tbiv       4.99       3.52         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = 12°C	10.40 kW	9.60 kW
COP Tj = Tbiv       4.99       3.52         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	COP Tj = 12°C	5.39	4.58
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	9.50 kW	8.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	4.99	3.52
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	7.60 kW
WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       20 W       10 W         PSB       7 W       7 W	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	3.19
Poff       2 W       2 W         PTO       20 W       10 W         PSB       7 W       7 W	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
PTO 20 W 10 W PSB 7 W 7 W	WTOL	65 °C	65 °C
PSB 7 W 7 W	Poff	2 W	2 W
	РТО	20 W	10 W
PCK 14 W 14 W	PSB	7 W	7 W
	РСК	14 W	14 W



# $$\operatorname{\textit{Page}}\xspace$ 6 of 23 This information was generated by the HP KEYMARK database on 7 Jul 2022

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.40 kW
Annual energy consumption Qhe	4906 kWh	5345 kWh



# Model: F1145-10 PC 3x400

Configure model		
Model name	F1145-10 PC 3x400	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data	
Power supply 3x400V 50Hz	

# 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	9.64 kW	7.82 kW
El input	2.13 kW	2.51 kW
СОР	4.53	3.12

#### Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	200 %	151 %
Prated	12.00 kW	10.00 kW
SCOP	5.20	3.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.10 kW	8.60 kW
COP Tj = -7°C	5.23	3.79
Pdh Tj = +2°C	10.20 kW	9.10 kW
COP Tj = +2°C	5.38	4.19
Pdh Tj = +7°C	10.40 kW	9.40 kW
COP Tj = +7°C	5.45	4.52
Pdh Tj = 12°C	10.40 kW	9.70 kW
COP Tj = 12°C	5.22	4.68
Pdh Tj = Tbiv	9.90 kW	8.20 kW
COP Tj = Tbiv	5.08	3.55

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	3.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.40 kW
Annual energy consumption Qhe	5695 kWh	6214 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	194 %	147 %
Prated	12.00 kW	10.00 kW
	1	1





<b>3</b>	,	•
SCOP	5.05	3.88
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.80 kW	7.90 kW
$COP Tj = -7^{\circ}C$	4.93	3.40
Pdh Tj = +2°C	10.00 kW	8.70 kW
$COPTj = +2^{\circ}C$	5.18	3.91
Pdh Tj = $+7^{\circ}$ C	10.20 kW	9.20 kW
$COPTj = +7^{\circ}C$	5.35	4.25
Pdh Tj = 12°C	10.40 kW	9.60 kW
COP Tj = 12°C	5.39	4.58
Pdh Tj = Tbiv	9.50 kW	8.20 kW
COP Tj = Tbiv	4.99	3.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	3.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	20 W	10 W
PSB	7 W	7 W
РСК	14 W	14 W



#### Page 11 of 23

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.40 kW
Annual energy consumption Qhe	4906 kWh	5345 kWh



# Model: F1245-10 3x400

Configure model	
Model name	F1245-10 3x400
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

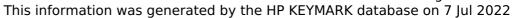
General Data	
Power supply	3x400V 50Hz
Off-peak product	No

# 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	9.64 kW	7.82 kW	
El input	2.13 kW	2.51 kW	
СОР	4.53	3.12	

#### Colder Climate

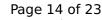




EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	200 %	151 %
Prated	12.00 kW	10.00 kW
SCOP	5.20	3.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.10 kW	8.60 kW
COP Tj = -7°C	5.23	3.79
Pdh Tj = +2°C	10.20 kW	9.10 kW
COP Tj = +2°C	5.38	4.19
Pdh Tj = +7°C	10.40 kW	9.40 kW
COP Tj = +7°C	5.45	4.52
Pdh Tj = 12°C	10.40 kW	9.70 kW
COP Tj = 12°C	5.22	4.68
Pdh Tj = Tbiv	9.90 kW	8.20 kW
COP Tj = Tbiv	5.08	3.55

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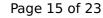


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This information was	generated by the	ne HP KEYMARK	database on 7 Jul 2022

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	3.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	20 W	20 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.40 kW
Annual energy consumption Qhe	5695 kWh	6214 kWh

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	45 dB(A)	45 dB(A)	

EN 14825		
Low temperature Medium temperatu		
$\eta_{S}$	194 %	147 %
Prated	12.00 kW	10.00 kW





SCOP	5.05	3.88
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.80 kW	7.90 kW
$COP Tj = -7^{\circ}C$	4.93	3.40
Pdh Tj = $+2$ °C	10.00 kW	8.70 kW
COP Tj = +2°C	5.18	3.91
Pdh Tj = $+7$ °C	10.20 kW	9.20 kW
$COPTj = +7^{\circ}C$	5.35	4.25
Pdh Tj = 12°C	10.40 kW	9.60 kW
COP Tj = 12°C	5.39	4.58
Pdh Tj = Tbiv	9.50 kW	8.20 kW
COP Tj = Tbiv	4.99	3.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	3.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.99	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	20 W	10 W
PSB	7 W	7 W
РСК	14 W	14 W



Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.40 kW
Annual energy consumption Qhe	4906 kWh	5345 kWh

# Domestic Hot Water (DHW)

#### Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	96 %	
СОР	2.40	
Heating up time	1:10 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	235 I	



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	96 %	
СОР	2.40	
Heating up time	1:10 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	235 I	

# Model: F1245-10 PC 3x400

Configure model		
Model name	F1245-10 PC 3x400	
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional) n/a		

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

# Heating

CEN heat pump

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	9.64 kW	7.82 kW
El input	2.13 kW	2.51 kW
СОР	4.53	3.12

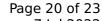
#### Colder Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	200 %	151 %
Prated	12.00 kW	10.00 kW
SCOP	5.20	3.98
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.10 kW	8.60 kW
COP Tj = -7°C	5.23	3.79
Pdh Tj = +2°C	10.20 kW	9.10 kW
COP Tj = +2°C	5.38	4.19
Pdh Tj = +7°C	10.40 kW	9.40 kW
COP Tj = +7°C	5.45	4.52
Pdh Tj = 12°C	10.40 kW	9.70 kW
COP Tj = 12°C	5.22	4.68
Pdh Tj = Tbiv	9.90 kW	8.20 kW
COP Tj = Tbiv	5.08	3.55

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	3.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	20 W	20 W
PSB	7 W	7 W
PCK	14 W	14 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.40 kW
Annual energy consumption Qhe	5695 kWh	6214 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)

EN 14825			
Low temperature Medium temperatu			
$\eta_{S}$	194 %	147 %	
Prated	12.00 kW	10.00 kW	





SCOP	5.05	3.88
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.80 kW	7.90 kW
$COP Tj = -7^{\circ}C$	4.93	3.40
Pdh Tj = $+2$ °C	10.00 kW	8.70 kW
COP Tj = +2°C	5.18	3.91
Pdh Tj = $+7$ °C	10.20 kW	9.20 kW
$COPTj = +7^{\circ}C$	5.35	4.25
Pdh Tj = 12°C	10.40 kW	9.60 kW
COP Tj = 12°C	5.39	4.58
Pdh Tj = Tbiv	9.50 kW	8.20 kW
COP Tj = Tbiv	4.99	3.52
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	7.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.80	3.19
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.99	1.00
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	20 W	10 W
PSB	7 W	7 W
РСК	14 W	14 W



Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.40 kW
Annual energy consumption Qhe	4906 kWh	5345 kWh

# Domestic Hot Water (DHW)

#### Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	96 %
СОР	2.40
Heating up time	1:10 h:min
Standby power input	55.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	235 I



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	96 %	
СОР	2.40	
Heating up time	1:10 h:min	
Standby power input	55.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	235 I	