

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	F1x55-16	Reg. No.	012-049
Certificate Holder			
Name	Nibe AB		
Address	Box 14	Zip	S-28521
City	Markaryd	Country	Sweden
Certification Body	RISE CERT		
Name of testing laboratory	AIT		
Subtype title	F1x55-16		
Heat Pump Type	Brine/Water and Water/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.2 kg		

## Model: F1155-16

### General Data

Power supply	3x400V 50Hz
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Brine/Water Heat Pump

## Heating

### EN 14511-4

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

### EN 14511-2

	Low temperature	Medium temperature
Heat output	8.89 kW	8.54 kW
El input	1.83 kW	2.72 kW
COP	4.85	3.14
Indoor water flow rate	2.76 m <sup>3</sup> /h	1.72 m <sup>3</sup> /h

## Average Climate

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<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	42 dB(A)	42 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	199 %	154 %
Prated	16.00 kW	16.00 kW
SCOP	5.18	4.05
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.20 kW
COP Tj = -7°C	4.19	3.00
Pdh Tj = +2°C	8.70 kW	8.70 kW
COP Tj = +2°C	5.26	4.10
Pdh Tj = +7°C	5.70 kW	5.60 kW
COP Tj = +7°C	6.06	4.90
Pdh Tj = 12°C	5.80 kW	5.50 kW
COP Tj = 12°C	5.85	5.00
Pdh Tj = Tbiv	15.90 kW	16.00 kW
COP Tj = Tbiv	3.90	2.80

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Pdh Tj = TOL	15.90 kW	16.00 kW
COP Tj = TOL	3.90	2.80
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	30 W	30 W
PSB	7 W	7 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.10 kW	0.00 kW
Annual energy consumption Qhe	6373 kWh	8167 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	42 dB(A)	42 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	211 %	159 %
Prated	16.00 kW	16.00 kW

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SCOP	5.48	4.18
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.80 kW	9.80 kW
COP Tj = -7°C	5.10	3.80
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	6.10	4.70
Pdh Tj = +7°C	5.70 kW	5.60 kW
COP Tj = +7°C	6.10	5.00
Pdh Tj = 12°C	5.70 kW	5.60 kW
COP Tj = 12°C	5.60	5.00
Pdh Tj = Tbiv	15.90 kW	16.00 kW
COP Tj = Tbiv	3.90	2.80
Pdh Tj = TOL	15.90 kW	16.00 kW
COP Tj = TOL	3.90	2.80
Cdh	0.99	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	30 W	30 W
PSB	7 W	7 W
PCK	30 W	30 W

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.10 kW	0.00 kW
Annual energy consumption Qhe	7218 kWh	9434 kWh

Water/Water Heat Pump

## Heating

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

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	11.20 kW	10.90 kW
El input	1.84 kW	2.79 kW
COP	6.11	3.91
Indoor water flow rate	3.27 m <sup>3</sup> /h	2.05 m <sup>3</sup> /h

## Average Climate

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	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	42 dB(A)	42 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	265 %	202 %
Prated	19.00 kW	19.00 kW
SCOP	6.47	5.00
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.90 kW	16.90 kW
COP Tj = -7°C	5.34	3.82
Pdh Tj = +2°C	10.30 kW	10.30 kW
COP Tj = +2°C	6.61	5.08
Pdh Tj = +7°C	7.20 kW	7.00 kW
COP Tj = +7°C	7.50	5.93
Pdh Tj = 12°C	7.30 kW	7.10 kW
COP Tj = 12°C	7.61	6.28
Pdh Tj = Tbiv	19.00 kW	19.00 kW
COP Tj = Tbiv	5.01	3.51

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Pdh Tj = TOL	19.00 kW	19.00 kW
COP Tj = TOL	5.01	3.51
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	45 W	35 W
PSB	10 W	7 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6070 kWh	7834 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	42 dB(A)	42 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	265 %	202 %
Prated	19.00 kW	19.00 kW

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SCOP	6.82	5.25
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	11.60 kW	11.60 kW
COP Tj = -7°C	6.51	4.82
Pdh Tj = +2°C	7.30 kW	7.10 kW
COP Tj = +2°C	7.56	5.87
Pdh Tj = +7°C	7.30 kW	7.00 kW
COP Tj = +7°C	7.62	6.24
Pdh Tj = 12°C	7.30 kW	7.00 kW
COP Tj = 12°C	7.46	6.47
Pdh Tj = Tbiv	19.00 kW	19.00 kW
COP Tj = Tbiv	5.01	3.51
Pdh Tj = TOL	19.00 kW	19.00 kW
COP Tj = TOL	5.01	3.51
Cdh	0.96	0.98
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	45 W	35 W
PSB	10 W	7 W
PCK	30 W	30 W

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6861 kWh	8907 kWh

## Model: F1255-16

### General Data

Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water Heat Pump

## Heating

### EN 14511-4

Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.10 kW	0.00 kW
Annual energy consumption Qhe	6373 kWh	8167 kWh

## Colder Climate

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Pdh Tj = 12°C	5.70 kW	5.60 kW
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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.10 kW	0.00 kW
Annual energy consumption Q <sub>he</sub>	7218 kWh	9434 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	98 %
COP	2.45
Heating up time	01:04 h:min
Standby power input	50.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	240 l

### Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	98 %
COP	2.45
Heating up time	01:04 h:min
Standby power input	50.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	240 l

Water/Water Heat Pump

## Heating

<b>EN 14511-4</b>	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
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	<b>Low temperature</b>	<b>Medium temperature</b>
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Prated	19.00 kW	19.00 kW
SCOP	6.47	5.00
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.90 kW	16.90 kW
COP Tj = -7°C	5.34	3.82

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Pdh Tj = +2°C	10.30 kW	10.30 kW
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COP Tj = Tbiv	5.01	3.51
Pdh Tj = TOL	19.00 kW	19.00 kW
COP Tj = TOL	5.01	3.51
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	45 W	35 W
PSB	10 W	7 W
PCK	30 W	30 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6070 kWh	7834 kWh

## Colder Climate

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	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	265 %	202 %
Prated	19.00 kW	19.00 kW
SCOP	6.82	5.25
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	11.60 kW	11.60 kW
COP Tj = -7°C	6.51	4.82
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WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	45 W	35 W
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PCK	30 W	30 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6861 kWh	8907 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	113 %
COP	2.82
Heating up time	00:58 h:min
Standby power input	45.0 W
Reference hot water temperature	45.0 °C
Mixed water at 40°C	235 l

## Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	113 %
COP	2.82
Heating up time	00:58 h:min
Standby power input	45.0 W
Reference hot water temperature	45.0 °C
Mixed water at 40°C	235 l