

Summary of	F1x55-6	Reg. No.	012-047	
Certificate Holder	-	-	-	
Name	Nibe AB	Nibe AB		
Address	Box 14	Zip	S-28521	
City	Markaryd	Country	Sweden	
Certification Body	RISE CERT			
Name of testing laboratory	AIT			
Subtype title	F1x55-6			
Heat Pump Type	Brine/Water and Water/Water			
Refrigerant	R407c			
Mass Of Refrigerant	1.16 kg			



## Model: F1155-6 1x230

General Data	
Power supply	1x230V 50Hz

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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
СОР	4.72	2.99
Indoor water flow rate	0.95 m³/h	0.59 m³/h



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

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	200 %	150 %	
Prated	5.50 kW	5.50 kW	
SCOP	5.20	3.95	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	5.00 kW	5.00 kW	
COP Tj = -7°C	4.37	3.06	
Pdh Tj = +2°C	3.10 kW	3.00 kW	
COP Tj = +2°C	5.24	3.97	
Pdh Tj = +7°C	2.00 kW	2.00 kW	
COP Tj = +7°C	5.92	4.63	
Pdh Tj = 12°C	1.30 kW	1.20 kW	
COP Tj = 12°C	5.95	4.86	
Pdh Tj = Tbiv	5.40 kW	5.40 kW	
COP Tj = Tbiv	4.15	2.84	





Pdh Tj = TOL	5.40 kW	5.40 kW
COP Tj = TOL	4.15	2.84
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2188 kWh	2875 kWh

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	211 %	157 %
Prated	5.50 kW	6.00 kW





This information was generated by the HP KEYMARK database on 17 Dec 2020				
SCOP	5.48	4.13		
Tbiv	-22 °C	-22 °C		
TOL	-22 °C	-22 °C		
Pdh Tj = -7°C	3.40 kW	3.40 kW		
COP Tj = -7°C	5.17	3.77		
Pdh Tj = +2°C	2.10 kW	2.10 kW		
COP Tj = +2°C	5.91	4.51		
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW		
$COPTj = +7^{\circ}C$	6.36	5.12		
Pdh Tj = 12°C	1.30 kW	1.20 kW		
COP Tj = 12°C	4.15	4.81		
Pdh Tj = Tbiv	5.40 kW	5.50 kW		
COP Tj = Tbiv	4.15	2.84		
Pdh Tj = TOL	5.40 kW	5.50 kW		
COP Tj = TOL	4.15	2.84		
Cdh	0.97	0.98		
WTOL	65 °C	65 °C		
Poff	2 W	2 W		
РТО	10 W	7 W		
PSB	7 W	7 W		
PCK	9 W	9 W		





Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2481 kWh	3287 kWh

Water/Water Heat Pump

#### Heating

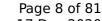
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
СОР	6.00	3.83
Indoor water flow rate	1.21 m³/h	0.75 m³/h



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	270 %	214 %
Prated	7.00 kW	7.00 kW
SCOP	6.95	5.55
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.30 kW
COP Tj = -7°C	6.07	4.52
Pdh Tj = +2°C	3.90 kW	3.90 kW
COP Tj = +2°C	7.09	5.62
Pdh Tj = +7°C	2.50 kW	2.50 kW
COP Tj = +7°C	7.84	6.34
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.97	6.57
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21

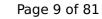




Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.96	0.97
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2078 kWh	2611 kWh

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	282 %	222 %
Prated	7.00 kW	7.00 kW





This information was ge	Therated by the HP KETM	ARK database on 17 Dec 2020
SCOP	7.25	5.75
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.30 kW	4.30 kW
COP Tj = -7°C	7.00	5.39
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	7.83	6.21
Pdh Tj = $+7^{\circ}$ C	1.80 kW	1.80 kW
$COPTj = +7^{\circ}C$	8.14	6.85
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.70	6.64
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21
Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W



# $$\operatorname{\textit{Page}}\ 10$$ of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2378 kWh	3005 kWh



## Model: F1155-6 PC 1x230

General Data	
Power supply	1x230V 50Hz

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	

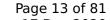
EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
СОР	4.72	2.99
Indoor water flow rate	0.95 m³/h	0.59 m³/h



 $$\operatorname{\textit{Page}}\ 12$$  of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Low temperature  200 %  5.50 kW  5.20  -10 °C	Medium temperature  150 %  5.50 kW  3.95  -10 °C
5.50 kW 5.20 -10 °C	5.50 kW 3.95 -10 °C
5.20 -10 °C	3.95 -10 °C
-10 °C	-10 °C
-10 °C	-10 °C
	-10 C
5.00 kW	5.00 kW
4.37	3.06
3.10 kW	3.00 kW
5.24	3.97
2.00 kW	2.00 kW
5.92	4.63
1.30 kW	1.20 kW
5.95	4.86
5.40 kW	5.40 kW
4.15	2.84
	4.37  3.10 kW  5.24  2.00 kW  5.92  1.30 kW  5.95  5.40 kW





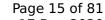
This information was	generated by the HP	KEYMARK database on 17 Dec	
Pdh Tj = TOL	5.40 kW	5.40 kW	
COP Tj = TOL	4.15	2.84	
Cdh	0.98	0.99	
WTOL	65 °C	65 °C	
Poff	2 W	2 W	
PTO	10 W	7 W	
PSB	7 W	7 W	
PCK	9 W	9 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	0.00 kW	0.00 kW	
Annual energy consumption Qhe	2188 kWh	2875 kWh	

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	211 %	157 %
Prated	5.50 kW	6.00 kW



inis information was gei	herated by the HP KETM	ARK database on 17 Dec 2020
SCOP	5.48	4.13
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.40 kW	3.40 kW
COP Tj = -7°C	5.17	3.77
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW
$COPTj = +7^{\circ}C$	6.36	5.12
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	4.15	4.81
Pdh Tj = Tbiv	5.40 kW	5.50 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL	5.40 kW	5.50 kW
COP Tj = TOL	4.15	2.84
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W





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

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2481 kWh	3287 kWh

Water/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	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
СОР	6.00	3.83
Indoor water flow rate	1.21 m³/h	0.75 m³/h



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	270 %	214 %
Prated	7.00 kW	7.00 kW
SCOP	6.95	5.55
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.30 kW
COP Tj = -7°C	6.07	4.52
Pdh Tj = +2°C	3.90 kW	3.90 kW
COP Tj = +2°C	7.09	5.62
Pdh Tj = +7°C	2.50 kW	2.50 kW
COP Tj = +7°C	7.84	6.34
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.97	6.57
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21





This information was	generated by the fil	RETHANK database on 17 Dec 2	202
Pdh Tj = TOL	7.00 kW	7.00 kW	
COP Tj = TOL	5.79	4.21	
Cdh	0.96	0.97	
WTOL	65 °C	65 °C	
Poff	2 W	2 W	
РТО	18 W	15 W	
PSB	10 W	7 W	
PCK	9 W	9 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	0.00 kW	0.00 kW	
Annual energy consumption Qhe	2078 kWh	2611 kWh	

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

EN 14825	
Low temperature	Medium temperature
282 %	222 %
7.00 kW	7.00 kW
	Low temperature 282 %



Page 18 of 81
This information was generated by the HP KEYMARK database on 17 Dec 2020

I his information was gei	nerated by the HP KEYM	ARK database on 17 Dec 2020
SCOP	7.25	5.75
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = $-7^{\circ}$ C	4.30 kW	4.30 kW
COP Tj = -7°C	7.00	5.39
Pdh Tj = $+2$ °C	2.70 kW	2.70 kW
COP Tj = +2°C	7.83	6.21
Pdh Tj = $+7^{\circ}$ C	1.80 kW	1.80 kW
$COP Tj = +7^{\circ}C$	8.14	6.85
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.70	6.64
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21
Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W



# $$\operatorname{\textit{Page}}\ 19$ of 81$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2378 kWh	3005 kWh



## Model: F1155-6 3x400

Genera	al Data
Power supply	3x400V 50Hz

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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
СОР	4.72	2.99
Indoor water flow rate	0.95 m³/h	0.59 m³/h



 $$\operatorname{\textit{Page}}\xspace$  21 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

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

Low temperature  200 %  5.50 kW  5.20  -10 °C	Medium temperature  150 %  5.50 kW  3.95  -10 °C
5.50 kW 5.20 -10 °C	5.50 kW 3.95 -10 °C
5.20 -10 °C	3.95 -10 °C
-10 °C	-10 °C
-10 °C	-10 °C
	-10 C
5.00 kW	5.00 kW
4.37	3.06
3.10 kW	3.00 kW
5.24	3.97
2.00 kW	2.00 kW
5.92	4.63
1.30 kW	1.20 kW
5.95	4.86
5.40 kW	5.40 kW
4.15	2.84
	4.37  3.10 kW  5.24  2.00 kW  5.92  1.30 kW  5.95  5.40 kW





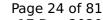
	-	
Pdh Tj = TOL	5.40 kW	5.40 kW
COP Tj = TOL	4.15	2.84
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2188 kWh	2875 kWh

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

EN 14825	
Low temperature	Medium temperature
211 %	157 %
5.50 kW	6.00 kW
	211 %



This information was ger	nerated by the HP KEYM	ARK database on 17 Dec 2020
SCOP	5.48	4.13
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.40 kW	3.40 kW
COP Tj = -7°C	5.17	3.77
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW
COP Tj = +7°C	6.36	5.12
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	4.15	4.81
Pdh Tj = Tbiv	5.40 kW	5.50 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL	5.40 kW	5.50 kW
COP Tj = TOL	4.15	2.84
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W





Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2481 kWh	3287 kWh

Water/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	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
СОР	6.00	3.83
Indoor water flow rate	1.21 m³/h	0.75 m³/h



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	270 %	214 %
Prated	7.00 kW	7.00 kW
SCOP	6.95	5.55
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.30 kW
COP Tj = -7°C	6.07	4.52
Pdh Tj = +2°C	3.90 kW	3.90 kW
COP Tj = +2°C	7.09	5.62
Pdh Tj = +7°C	2.50 kW	2.50 kW
COP Tj = +7°C	7.84	6.34
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.97	6.57
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21

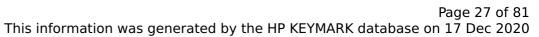




Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.96	0.97
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2078 kWh	2611 kWh

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	282 %	222 %
Prated	7.00 kW	7.00 kW





I nis int	ormation was generated by the HP I	RETMARK database on 17 Dec 202
SCOP	7.25	5.75
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.30 kW	4.30 kW
COP Tj = -7°C	7.00	5.39
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	7.83	6.21
Pdh Tj = $+7^{\circ}$ C	1.80 kW	1.80 kW
$COP Tj = +7^{\circ}C$	8.14	6.85
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.70	6.64
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21
Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
РСК	9 W	9 W



# $$\operatorname{\textit{Page}}\xspace$ 28 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2378 kWh	3005 kWh



## Model: F1155-6 PC3x400

General Data	
Power supply	3x400V 50Hz

Brine/Water Heat Pump

#### Heating

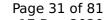
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
СОР	4.72	2.99
Indoor water flow rate	0.95 m³/h	0.59 m³/h



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	200 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.20	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.95	4.86
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84





Pdh Tj = TOL	5.40 kW	5.40 kW
COP Tj = TOL	4.15	2.84
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2188 kWh	2875 kWh

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

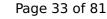
EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	211 %	157 %
Prated	5.50 kW	6.00 kW



Page 32 of 81

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

		KLTMARK database on 17 Dec 202
SCOP	5.48	4.13
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.40 kW	3.40 kW
COP Tj = -7°C	5.17	3.77
Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Pdh Tj = +7°C	1.40 kW	1.40 kW
COP Tj = +7°C	6.36	5.12
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	4.15	4.81
Pdh Tj = Tbiv	5.40 kW	5.50 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL	5.40 kW	5.50 kW
COP Tj = TOL	4.15	2.84
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W





Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2481 kWh	3287 kWh

Water/Water Heat Pump

#### Heating

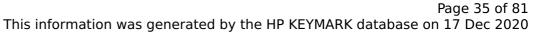
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
СОР	6.00	3.83
Indoor water flow rate	1.21 m³/h	0.75 m³/h



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	270 %	214 %
Prated	7.00 kW	7.00 kW
SCOP	6.95	5.55
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.30 kW
COP Tj = -7°C	6.07	4.52
Pdh Tj = +2°C	3.90 kW	3.90 kW
COP Tj = +2°C	7.09	5.62
Pdh Tj = +7°C	2.50 kW	2.50 kW
COP Tj = +7°C	7.84	6.34
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.97	6.57
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21





	<b>-</b>	
Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.96	0.97
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity

0.00 kW

2078 kWh

0.00 kW

2611 kWh

#### Colder Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	282 %	222 %
Prated	7.00 kW	7.00 kW
riateu	7.00 KW	7.00 KW



	Page 30 01 81
This information was generated by	the HP KEYMARK database on 17 Dec 2020

THIS IIIIOIIIIC	The state of the first	LIMARK database on 17 Dec 202
SCOP	7.25	5.75
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.30 kW	4.30 kW
COP Tj = -7°C	7.00	5.39
Pdh Tj = $+2^{\circ}$ C	2.70 kW	2.70 kW
COP Tj = +2°C	7.83	6.21
Pdh Tj = $+7^{\circ}$ C	1.80 kW	1.80 kW
COP Tj = +7°C	8.14	6.85
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.70	6.64
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21
Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
РСК	9 W	9 W



# $$\operatorname{\textit{Page}}\xspace$ 37 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2378 kWh	3005 kWh



# Model: F1255-6 1x230

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

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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
СОР	4.72	2.99
Indoor water flow rate	0.95 m³/h	0.59 m³/h

### Average Climate



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	200 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.20	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.95	4.86
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84





Pdh Tj = TOL	5.40 kW	5.40 kW
COP Tj = TOL	4.15	2.84
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2188 kWh	2875 kWh

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	211 %	157 %
Prated	5.50 kW	6.00 kW
	I	



Page 41 of 81

This information was generated by the HP KEYMARK database on 17 Dec 2020			
SCOP	5.48	4.13	
Tbiv	-22 °C	-22 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7°C	3.40 kW	3.40 kW	
COP Tj = -7°C	5.17	3.77	
Pdh Tj = +2°C	2.10 kW	2.10 kW	
COP Tj = +2°C	5.91	4.51	
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW	
$COPTj = +7^{\circ}C$	6.36	5.12	
Pdh Tj = 12°C	1.30 kW	1.20 kW	
COP Tj = 12°C	4.15	4.81	
Pdh Tj = Tbiv	5.40 kW	5.50 kW	
COP Tj = Tbiv	4.15	2.84	
Pdh Tj = TOL	5.40 kW	5.50 kW	
COP Tj = TOL	4.15	2.84	
Cdh	0.97	0.98	
WTOL	65 °C	65 °C	
Poff	2 W	2 W	
РТО	10 W	7 W	
PSB	7 W	7 W	
PCK	9 W	9 W	



Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2481 kWh	3287 kWh

### Domestic Hot Water (DHW)

### Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	102 %	
СОР	2.55	
Heating up time	02:23 h:min	
Standby power input	50.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	245 I	



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	102 %	
СОР	2.55	
Heating up time	02:23 h:min	
Standby power input	50.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	245 I	

Water/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

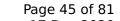


EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
СОР	6.00	3.83
Indoor water flow rate	1.21 m³/h	0.75 m³/h

### Average Climate

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

	Low temperature	Medium temperature
η <sub>s</sub>	270 %	214 %
Prated	7.00 kW	7.00 kW
SCOP	6.95	5.55
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.30 kW
COP Tj = -7°C	6.07	4.52





This informa	ation was generated by the HP KE	EYMARK database on 17 Dec 2020
Pdh Tj = +2°C	3.90 kW	3.90 kW
COP Tj = +2°C	7.09	5.62
Pdh Tj = +7°C	2.50 kW	2.50 kW
COP Tj = +7°C	7.84	6.34
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.97	6.57
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21
Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.96	0.97
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W

#### Colder Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

Supplementary Heater: Type of energy input

**PCK** 

9 W

electricity

0.00 kW

2078 kWh

9 W

electricity

0.00 kW

2611 kWh



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

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	282 %	222 %
Prated	7.00 kW	7.00 kW
SCOP	7.25	5.75
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.30 kW	4.30 kW
COP Tj = -7°C	7.00	5.39
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	7.83	6.21
Pdh Tj = +7°C	1.80 kW	1.80 kW
COP Tj = +7°C	8.14	6.85
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.70	6.64
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21



7.00 kW	7.00 kW
5.79	4.21
0.95	0.96
65 °C	65 °C
2 W	2 W
18 W	15 W
10 W	7 W
9 W	9 W
electricity	electricity
0.00 kW	0.00 kW
2378 kWh	3005 kWh
	5.79  0.95  65 °C  2 W  18 W  10 W  9 W  electricity  0.00 kW

Domestic Hot Water (DHW)

Average Climate



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	117 %	
СОР	2.93	
Heating up time	02:09 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.0 °C	
Mixed water at 40°C	240	

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	117 %	
СОР	2.93	
Heating up time	02:09 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.0 °C	
Mixed water at 40°C	240 I	



# Model: F1255-6 PC 1x230

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

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

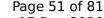
EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
СОР	4.72	2.99
Indoor water flow rate	0.95 m³/h	0.59 m³/h

### Average Climate



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	200 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.20	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.95	4.86
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84





 $$\operatorname{\textit{Page}}\xspace$  51 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	5.40 kW	5.40 kW
COP Tj = TOL	4.15	2.84
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2188 kWh	2875 kWh

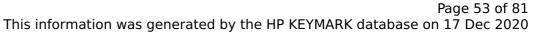
	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	211 %	157 %
Prated	5.50 kW	6.00 kW



# $$\operatorname{\textit{Page}}\xspace$ 52 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

TOL -22 °C ~21 °C ~22 °C -22 °C -22 °C ~22 °C -22 °C -22 °C -22 °C ~22 °C -22 °C -22 °C -22 °C ~22 °C -22 °C ~22 °C -22 °C ~22 °C -22 °C ~22 °C ~23 °	SCOP	5.48	4.13
Pdh Tj = -7°C       3.40 kW       3.40 kW         COP Tj = -7°C       5.17       3.77         Pdh Tj = +2°C       2.10 kW       2.10 kW         COP Tj = +2°C       5.91       4.51         Pdh Tj = +7°C       1.40 kW       1.40 kW         COP Tj = +7°C       6.36       5.12         Pdh Tj = 12°C       1.30 kW       1.20 kW         COP Tj = 12°C       4.15       4.81         Pdh Tj = Tbiv       5.40 kW       5.50 kW         COP Tj = Tbiv       4.15       2.84         Pdh Tj = TOL       5.40 kW       5.50 kW         COP Tj = TOL       4.15       2.84         COh       0.97       0.98         WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       10 W       7 W	Tbiv	-22 °C	-22 °C
COP Tj = -7°C  5.17  3.77  Pdh Tj = +2°C  2.10 kW  2.10 kW  COP Tj = +2°C  5.91  4.51  Pdh Tj = +7°C  1.40 kW  1.40 kW  COP Tj = +7°C  6.36  5.12  Pdh Tj = 12°C  1.30 kW  1.20 kW  COP Tj = 12°C  4.15  4.81  Pdh Tj = Tbiv  5.40 kW  5.50 kW  COP Tj = Tbiv  4.15  2.84  Pdh Tj = TOL  5.40 kW  5.50 kW  COP Tj = TOL  65 °C  65 °C  Poff  2 W  PTO  10 W  7 W  PSB	TOL	-22 °C	-22 °C
Pdh Tj = +2°C       2.10 kW       2.10 kW         COP Tj = +2°C       5.91       4.51         Pdh Tj = +7°C       1.40 kW       1.40 kW         COP Tj = +7°C       6.36       5.12         Pdh Tj = 12°C       1.30 kW       1.20 kW         COP Tj = 12°C       4.15       4.81         Pdh Tj = Tbiv       5.40 kW       5.50 kW         COP Tj = Tbiv       4.15       2.84         Pdh Tj = TOL       5.40 kW       5.50 kW         COP Tj = TOL       4.15       2.84         Cdh       0.97       0.98         WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       10 W       7 W         PSB       7 W       7 W	Pdh Tj = -7°C	3.40 kW	3.40 kW
COP Tj = +2°C       5.91       4.51         Pdh Tj = +7°C       1.40 kW       1.40 kW         COP Tj = +7°C       6.36       5.12         Pdh Tj = 12°C       1.30 kW       1.20 kW         COP Tj = 12°C       4.15       4.81         Pdh Tj = Tbiv       5.40 kW       5.50 kW         COP Tj = Tbiv       4.15       2.84         Pdh Tj = TOL       5.40 kW       5.50 kW         COP Tj = TOL       4.15       2.84         Cdh       0.97       0.98         WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       10 W       7 W         PSB       7 W       7 W	COP Tj = -7°C	5.17	3.77
Pdh Tj = +7°C  1.40 kW  1.40 kW  COP Tj = +7°C  6.36  5.12  Pdh Tj = 12°C  1.30 kW  1.20 kW  COP Tj = 12°C  4.15  4.81  Pdh Tj = Tbiv  5.40 kW  5.50 kW  COP Tj = ToL  5.40 kW  5.50 kW  COP Tj = TOL  6.36  5.12  Pdh Tj = ToL  6.36  6.36  5.12  Pdh Tj = 12°C  4.15  4.81  COP Tj = Tbiv  6.40 kW  6.50 kW  6.50 kW  7 kW  Pdh Tj = TOL  6.5°C  6.5°C  6.5°C  Poff  10 W  7 W  PSB	Pdh Tj = +2°C	2.10 kW	2.10 kW
COP Tj = +7°C 6.36 5.12  Pdh Tj = 12°C 1.30 kW 1.20 kW  COP Tj = 12°C 4.15 4.81  Pdh Tj = Tbiv 5.40 kW 5.50 kW  COP Tj = Tbiv 4.15 2.84  Pdh Tj = TOL 5.40 kW 5.50 kW  COP Tj = TOL 5.40 kW 5.50 kW  COP Tj = TOL 4.15 2.84  Cdh 0.97 0.98  WTOL 65 °C 65 °C  Poff 2 W 2 W  PTO 10 W 7 W  PSB 7 W 7 W	COP Tj = +2°C	5.91	4.51
Pdh Tj = 12°C       1.30 kW       1.20 kW         COP Tj = 12°C       4.15       4.81         Pdh Tj = Tbiv       5.40 kW       5.50 kW         COP Tj = Tbiv       4.15       2.84         Pdh Tj = TOL       5.40 kW       5.50 kW         COP Tj = TOL       4.15       2.84         Cdh       0.97       0.98         WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       10 W       7 W         PSB       7 W       7 W	Pdh Tj = +7°C	1.40 kW	1.40 kW
COP Tj = 12°C	COP Tj = +7°C	6.36	5.12
Pdh Tj = Tbiv       5.40 kW       5.50 kW         COP Tj = Tbiv       4.15       2.84         Pdh Tj = TOL       5.40 kW       5.50 kW         COP Tj = TOL       4.15       2.84         Cdh       0.97       0.98         WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       10 W       7 W         PSB       7 W       7 W	Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = Tbiv  4.15  2.84  Pdh Tj = TOL  5.40 kW  5.50 kW  COP Tj = TOL  4.15  2.84  Cdh  0.97  0.98  WTOL  65 °C  65 °C  Poff  2 W  2 W  PTO  10 W  7 W  PSB  7 W  7 W	COP Tj = 12°C	4.15	4.81
Pdh Tj = TOL       5.40 kW       5.50 kW         COP Tj = TOL       4.15       2.84         Cdh       0.97       0.98         WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       10 W       7 W         PSB       7 W       7 W	Pdh Tj = Tbiv	5.40 kW	5.50 kW
COP Tj = TOL 4.15 2.84  Cdh 0.97 0.98  WTOL 65 °C 65 °C  Poff 2 W 2 W  PTO 10 W 7 W  PSB 7 W 7 W	COP Tj = Tbiv	4.15	2.84
Cdh       0.97       0.98         WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       10 W       7 W         PSB       7 W       7 W	Pdh Tj = TOL	5.40 kW	5.50 kW
WTOL       65 °C       65 °C         Poff       2 W       2 W         PTO       10 W       7 W         PSB       7 W       7 W	COP Tj = TOL	4.15	2.84
Poff       2 W       2 W         PTO       10 W       7 W         PSB       7 W       7 W	Cdh	0.97	0.98
PTO 10 W 7 W 7 W 7 W	WTOL	65 °C	65 °C
PSB 7 W 7 W	Poff	2 W	2 W
	РТО	10 W	7 W
PCK 9 W 9 W	PSB	7 W	7 W
	PCK	9 W	9 W





Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2481 kWh	3287 kWh

# Domestic Hot Water (DHW)

### Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	102 %
СОР	2.55
Heating up time	02:23 h:min
Standby power input	50.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	245 I



 $$\operatorname{\textit{Page}}\xspace$  54 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency ηDHW	102 %
СОР	2.55
Heating up time	02:23 h:min
Standby power input	50.0 W
Reference hot water temperature	50.0 °C
Mixed water at 40°C	245 I

Water/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

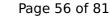


EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
СОР	6.00	3.83
Indoor water flow rate	1.21 m³/h	0.75 m³/h

# **Average Climate**

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

	Low temperature	Medium temperature
η <sub>s</sub>	270 %	214 %
Prated	7.00 kW	7.00 kW
SCOP	6.95	5.55
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.30 kW
COP Tj = -7°C	6.07	4.52





Pdh Tj = +2°C	3.90 kW	3.90 kW
COP Tj = +2°C	7.09	5.62
Pdh Tj = +7°C	2.50 kW	2.50 kW
COP Tj = +7°C	7.84	6.34
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.97	6.57
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21
Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.96	0.97
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2078 kWh	2611 kWh



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	282 %	222 %
Prated	7.00 kW	7.00 kW
SCOP	7.25	5.75
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.30 kW	4.30 kW
COP Tj = -7°C	7.00	5.39
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	7.83	6.21
Pdh Tj = +7°C	1.80 kW	1.80 kW
COP Tj = +7°C	8.14	6.85
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.70	6.64
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21



Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2378 kWh	3005 kWh

Domestic Hot Water (DHW)

Average Climate



 $$\operatorname{\textit{Page}}\xspace$  59 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency ηDHW	117 %
СОР	2.93
Heating up time	02:09 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	240 I

EN 16147	
Declared load profile	XL
Efficiency ηDHW	117 %
СОР	2.93
Heating up time	02:09 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	240 I



# Model: F1255-6 3x400

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

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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
СОР	4.72	2.99
Indoor water flow rate	0.95 m³/h	0.59 m³/h

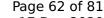
### Average Climate



 $$\operatorname{\textit{Page}}\xspace$  61 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	200 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.20	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.95	4.86
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84





 $$\operatorname{\textit{Page}}\xspace$  62 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = TOL	5.40 kW	5.40 kW
COP Tj = TOL	4.15	2.84
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2188 kWh	2875 kWh

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	211 %	157 %
Prated	5.50 kW	6.00 kW
	I	



 $$\operatorname{\textit{Page}}\xspace$  63 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

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SCOP	5.48	4.13
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.40 kW	3.40 kW
COP Tj = -7°C	5.17	3.77
Pdh Tj = $+2$ °C	2.10 kW	2.10 kW
COP Tj = +2°C	5.91	4.51
Pdh Tj = $+7^{\circ}$ C	1.40 kW	1.40 kW
$COPTj = +7^{\circ}C$	6.36	5.12
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	4.15	4.81
Pdh Tj = Tbiv	5.40 kW	5.50 kW
COP Tj = Tbiv	4.15	2.84
Pdh Tj = TOL	5.40 kW	5.50 kW
COP Tj = TOL	4.15	2.84
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
РСК	9 W	9 W
	•	



Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2481 kWh	3287 kWh

# Domestic Hot Water (DHW)

### Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	102 %	
СОР	2.55	
Heating up time	02:23 h:min	
Standby power input	50.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	245 I	



 $$\operatorname{\textit{Page}}\xspace$  65 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	102 %	
СОР	2.55	
Heating up time	02:23 h:min	
Standby power input	50.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	245 I	

Water/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

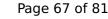


EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.30 kW	3.82 kW	
El input	0.66 kW	1.00 kW	
СОР	6.00	3.83	
Indoor water flow rate	1.21 m³/h	0.75 m³/h	

### Average Climate

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

	Low temperature	Medium temperature
η <sub>s</sub>	270 %	214 %
Prated	7.00 kW	7.00 kW
SCOP	6.95	5.55
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.30 kW
COP Tj = -7°C	6.07	4.52





 $$\operatorname{\textit{Page}}\xspace$  67 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

	<u> </u>	
Pdh Tj = $+2$ °C	3.90 kW	3.90 kW
$COP Tj = +2^{\circ}C$	7.09	5.62
Pdh Tj = $+7^{\circ}$ C	2.50 kW	2.50 kW
$COP Tj = +7^{\circ}C$	7.84	6.34
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.97	6.57
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21
Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.96	0.97
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2078 kWh	2611 kWh



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	282 %	222 %
Prated	7.00 kW	7.00 kW
SCOP	7.25	5.75
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.30 kW	4.30 kW
COP Tj = -7°C	7.00	5.39
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	7.83	6.21
Pdh Tj = +7°C	1.80 kW	1.80 kW
COP Tj = +7°C	8.14	6.85
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.70	6.64
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21





Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2378 kWh	3005 kWh

Domestic Hot Water (DHW)

Average Climate



 $$\operatorname{\textit{Page}}\xspace$  70 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	XL
Efficiency ηDHW	117 %
СОР	2.93
Heating up time	02:09 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	240

EN 16147	
Declared load profile	XL
Efficiency ηDHW	117 %
COP	2.93
Heating up time	02:09 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	240 I



# Model: F1255-6 PC 3x400

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

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	3.15 kW	2.78 kW
El input	0.67 kW	0.93 kW
СОР	4.72	2.99
Indoor water flow rate	0.95 m³/h	0.59 m³/h

### Average Climate



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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	200 %	150 %
Prated	5.50 kW	5.50 kW
SCOP	5.20	3.95
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	5.00 kW
COP Tj = -7°C	4.37	3.06
Pdh Tj = +2°C	3.10 kW	3.00 kW
COP Tj = +2°C	5.24	3.97
Pdh Tj = +7°C	2.00 kW	2.00 kW
COP Tj = +7°C	5.92	4.63
Pdh Tj = 12°C	1.30 kW	1.20 kW
COP Tj = 12°C	5.95	4.86
Pdh Tj = Tbiv	5.40 kW	5.40 kW
COP Tj = Tbiv	4.15	2.84





Pdh Tj = TOL	5.40 kW	5.40 kW
COP Tj = TOL	4.15	2.84
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	10 W	7 W
PSB	7 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2188 kWh	2875 kWh

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

EN 14825		
Low temperature	Medium temperature	
211 %	157 %	
5.50 kW	6.00 kW	
	211 %	



Page 74 of 8 This information was generated by the HP KEYMARK database on 17 Dec 202			
SCOP	5.48	4.13	
Tbiv	-22 °C	-22 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7°C	3.40 kW	3.40 kW	
COP Tj = -7°C	5.17	3.77	
Pdh Tj = +2°C	2.10 kW	2.10 kW	
COP Tj = +2°C	5.91	4.51	
Pdh Tj = +7°C	1.40 kW	1.40 kW	
COP Tj = +7°C	6.36	5.12	
Pdh Tj = 12°C	1.30 kW	1.20 kW	
COP Tj = 12°C	4.15	4.81	
Pdh Tj = Tbiv	5.40 kW	5.50 kW	
COP Tj = Tbiv	4.15	2.84	
Pdh Tj = TOL	5.40 kW	5.50 kW	
COP Tj = TOL	4.15	2.84	
Cdh	0.97	0.98	
WTOL	65 °C	65 °C	
Poff	2 W	2 W	

PTO 10 W 7 W 7 W PSB 7 W 9 W **PCK** 9 W



Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2481 kWh	3287 kWh

### Domestic Hot Water (DHW)

# Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	102 %	
СОР	2.55	
Heating up time	02:23 h:min	
Standby power input	50.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	245 I	



 $$\operatorname{\textit{Page}}\ 76$$  of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	102 %	
СОР	2.55	
Heating up time	02:23 h:min	
Standby power input	50.0 W	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	245 I	

Water/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	

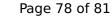


EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	3.82 kW
El input	0.66 kW	1.00 kW
СОР	6.00	3.83
Indoor water flow rate	1.21 m³/h	0.75 m³/h

# Average Climate

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	270 %	214 %
Prated	7.00 kW	7.00 kW
SCOP	6.95	5.55
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	6.30 kW
COP Tj = -7°C	6.07	4.52



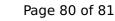


Pdh Tj = +2°C	3.90 kW	3.90 kW
COP Tj = +2°C	7.09	5.62
Pdh Tj = +7°C	2.50 kW	2.50 kW
COP Tj = +7°C	7.84	6.34
Pdh Tj = 12°C	1.80 kW	1.60 kW
COP Tj = 12°C	7.97	6.57
Pdh Tj = Tbiv	7.00 kW	7.00 kW
COP Tj = Tbiv	5.79	4.21
Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.96	0.97
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2078 kWh	2611 kWh



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

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	282 %	222 %	
Prated	7.00 kW	7.00 kW	
SCOP	7.25	5.75	
Tbiv	-22 °C	-22 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7°C	4.30 kW	4.30 kW	
COP Tj = -7°C	7.00	5.39	
Pdh Tj = +2°C	2.70 kW	2.70 kW	
COP Tj = +2°C	7.83	6.21	
Pdh Tj = +7°C	1.80 kW	1.80 kW	
COP Tj = +7°C	8.14	6.85	
Pdh Tj = 12°C	1.80 kW	1.60 kW	
COP Tj = 12°C	7.70	6.64	
Pdh Tj = Tbiv	7.00 kW	7.00 kW	
COP Tj = Tbiv	5.79	4.21	





Pdh Tj = TOL	7.00 kW	7.00 kW
COP Tj = TOL	5.79	4.21
Cdh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
РТО	18 W	15 W
PSB	10 W	7 W
PCK	9 W	9 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2378 kWh	3005 kWh

Domestic Hot Water (DHW)

Average Climate



 $$\operatorname{\textit{Page}}\xspace$  81 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	117 %	
СОР	2.93	
Heating up time	02:09 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.0 °C	
Mixed water at 40°C	240	

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	117 %	
СОР	2.93	
Heating up time	02:09 h:min	
Standby power input	45.0 W	
Reference hot water temperature	49.0 °C	
Mixed water at 40°C	240 I	