Login

Summary of	Fx70	Reg. No.	012-036
Certificate Holder			
Name	Nibe AB		
Address	Box 14	Zip	S-28521
City	Markaryd	Country	Sweden
Certification Body	RISE CERT		
Subtype title	Fx70		
Heat Pump Type	Exhaust Air/Water		
Refrigerant	R290		
Mass of Refrigerant	0.4 kg		
Certification Date	15.06.2017		
Testing basis	HP Keymark Scheme 2017		

Model: F370 1x230

Configure model	
Model name	F370 1x230
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder 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	1.68 kW	1.68 kW
El input	0.46 kW	0.66 kW
COP	3.67	2.55

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	139 %	116 %
Prated	2.60 kW	2.60 kW
SCOP	3.55	2.97
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.70 kW	1.70 kW
COP Tj = -7°C	4.04	3.16
Pdh Tj = +2°C	1.70 kW	1.70 kW
COP Tj = +2°C	3.99	3.34
Pdh Tj = +7°C	1.70 kW	1.70 kW
COP Tj = +7°C	3.88	3.41
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	3.35	3.11
Pdh Tj = Tbiv	1.70 kW	1.70 kW
COP Tj = Tbiv	4.00	3.07

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.70 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.56
Rated airflow rate	180 m³/h	180 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W
PSB	15 W	15 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.90 kW
Annual energy consumption Qhe	1808 kWh	2162 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	131 %	110 %

Prated	2.60 kW	2.60 kW
SCOP	3.35	2.82
Tbiv	-2 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	1.70 kW	1.70 kW
COP Tj = -7°C	3.78	2.72
Pdh Tj = +2°C	1.70 kW	1.70 kW
COP Tj = +2°C	3.98	3.22
Pdh Tj = +7°C	1.70 kW	1.70 kW
COP Tj = +7°C	1.96	3.37
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	3.65	3.28
Pdh Tj = Tbiv	1.70 kW	1.70 kW
COP Tj = Tbiv	3.91	3.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.70 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.56
Rated airflow rate	180 m^3/h	180 m^3/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W

PSB	15 W	15 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.90 kW
Annual energy consumption Qhe	1598 kWh	1898 kWh

Domestic Hot Water (DHW)

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	75 %
COP	1.90
Heating up time	07:16 h:min
Standby power input	85.0 W
Reference hot water temperature	50.2 °C
Mixed water at 40°C	217 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	75 %
COP	1.90
Heating up time	07:16 h:min
Standby power input	85.0 W
Reference hot water temperature	50.2 °C
Mixed water at 40°C	217 l

Model: F370 3x400

Configure model	
Model name	F370 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	1.68 kW	1.68 kW
El input	0.46 kW	0.66 kW
COP	3.67	2.55

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	139 %	116 %
Prated	2.60 kW	2.60 kW
SCOP	3.55	2.97
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.70 kW	1.70 kW
COP Tj = -7°C	4.04	3.16
Pdh Tj = +2°C	1.70 kW	1.70 kW
COP Tj = +2°C	3.99	3.34
Pdh Tj = +7°C	1.70 kW	1.70 kW
COP Tj = +7°C	3.88	3.41
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	3.35	3.11
Pdh Tj = Tbiv	1.70 kW	1.70 kW
COP Tj = Tbiv	4.00	3.07

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.70 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.56
Rated airflow rate	180 m³/h	180 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W
PSB	15 W	15 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.90 kW
Annual energy consumption Qhe	1808 kWh	2162 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	47 dB(A)	47 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	131 %	110 %

Prated	2.60 kW	2.60 kW
SCOP	3.35	2.82
Tbiv	-2 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	1.70 kW	1.70 kW
COP Tj = -7°C	3.78	2.72
Pdh Tj = +2°C	1.70 kW	1.70 kW
COP Tj = +2°C	3.98	3.22
Pdh Tj = +7°C	1.70 kW	1.70 kW
COP Tj = +7°C	1.96	3.37
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	3.65	3.28
Pdh Tj = Tbiv	1.70 kW	1.70 kW
COP Tj = Tbiv	3.91	3.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.70 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.56
Rated airflow rate	180 m^3/h	180 m^3/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W

PSB	15 W	15 W
PCK	24 W	24 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.90 kW
Annual energy consumption Qhe	1598 kWh	1898 kWh

Domestic Hot Water (DHW)

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	75 %
COP	1.90
Heating up time	07:16 h:min
Standby power input	85.0 W
Reference hot water temperature	50.2 °C
Mixed water at 40°C	217 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	75 %
COP	1.90
Heating up time	07:16 h:min
Standby power input	85.0 W
Reference hot water temperature	50.2 °C
Mixed water at 40°C	217 l

Model: F470 1x230

Configure model	
Model name	F470 1x230
Application	Heating + DHW + low temp
Units	Indoor
Climate Zone	Colder 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	1.68 kW	1.68 kW
El input	0.46 kW	0.66 kW
COP	3.67	2.55

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	145 %	120 %
Prated	2.60 kW	2.60 kW
SCOP	3.70	3.07
Tbiv	-10 °C	-10 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	1.70 kW	1.70 kW
COP Tj = -7°C	4.04	3.16
Pdh Tj = +2°C	1.70 kW	1.70 kW
COP Tj = +2°C	3.99	3.34
Pdh Tj = +7°C	1.70 kW	1.70 kW
COP Tj = +7°C	3.88	3.41
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	3.35	3.11
Pdh Tj = Tbiv	1.70 kW	1.70 kW
COP Tj = Tbiv	4.00	3.07

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.70 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.56
Rated airflow rate	180 m³/h	180 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W
PSB	15 W	15 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	1737 kWh	2091 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	140 %	116 %

Prated	2.60 kW	2.60 kW
SCOP	3.57	2.97
Tbiv	-2 °C	-2 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	1.70 kW	1.70 kW
COP Tj = -7°C	3.78	2.72
Pdh Tj = +2°C	1.70 kW	1.70 kW
COP Tj = +2°C	3.98	3.22
Pdh Tj = +7°C	1.70 kW	1.70 kW
COP Tj = +7°C	1.96	3.37
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	3.65	3.28
Pdh Tj = Tbiv	1.70 kW	1.70 kW
COP Tj = Tbiv	3.91	3.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.70 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.56
Rated airflow rate	180 m^3/h	180 m^3/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W

PSB	15 W	15 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	1505 kWh	1806 kWh

Domestic Hot Water (DHW)

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	79 %
COP	2.00
Heating up time	07:16 h:min
Standby power input	65.0 W
Reference hot water temperature	50.2 °C
Mixed water at 40°C	217 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	79 %
COP	2.00
Heating up time	07:16 h:min
Standby power input	65.0 W
Reference hot water temperature	50.2 °C
Mixed water at 40°C	217 l

Model: F470 3x400

Configure model	
Model name	F470 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	1.68 kW	1.68 kW
El input	0.46 kW	0.66 kW
COP	3.67	2.55

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	145 %	120 %
Prated	2.60 kW	2.60 kW
SCOP	3.70	3.07
Tbiv	-10 °C	-10 °C
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Pdh Tj = -7°C	1.70 kW	1.70 kW
COP Tj = -7°C	4.04	3.16
Pdh Tj = +2°C	1.70 kW	1.70 kW
COP Tj = +2°C	3.99	3.34
Pdh Tj = +7°C	1.70 kW	1.70 kW
COP Tj = +7°C	3.88	3.41
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	3.35	3.11
Pdh Tj = Tbiv	1.70 kW	1.70 kW
COP Tj = Tbiv	4.00	3.07

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.70 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.56
Rated airflow rate	180 m³/h	180 m³/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W
PSB	15 W	15 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	1737 kWh	2091 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	52 dB(A)	52 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	140 %	116 %

Prated	2.60 kW	2.60 kW
SCOP	3.57	2.97
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Pdh Tj = +2°C	1.70 kW	1.70 kW
COP Tj = +2°C	3.98	3.22
Pdh Tj = +7°C	1.70 kW	1.70 kW
COP Tj = +7°C	1.96	3.37
Pdh Tj = 12°C	1.70 kW	1.70 kW
COP Tj = 12°C	3.65	3.28
Pdh Tj = Tbiv	1.70 kW	1.70 kW
COP Tj = Tbiv	3.91	3.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.70 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.71	2.56
Rated airflow rate	180 m^3/h	180 m^3/h
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.95	0.96
WTOL	65 °C	65 °C
Poff	2 W	2 W
PTO	20 W	20 W

PSB	15 W	15 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	1505 kWh	1806 kWh

Domestic Hot Water (DHW)

Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	79 %
COP	2.00
Heating up time	07:16 h:min
Standby power input	65.0 W
Reference hot water temperature	50.2 °C
Mixed water at 40°C	217 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	79 %
COP	2.00
Heating up time	07:16 h:min
Standby power input	65.0 W
Reference hot water temperature	50.2 °C
Mixed water at 40°C	217 l