

Climaveneta Technical Documentation
i-NX-Q-Y_0152P_0552P_201907_EN

REGULATION (EU) N. 813/2013

Ecodesign requirements for space heaters

MULTIFUNCTION UNITS AIR SOURCE

i-NX-Q-Y 0152P - 0552P

Heating Capacity Range 48,4 - 168 [kW] - (EN14511 VALUE)
Nominal Heating Capacity at TdesignH Range 33,0 - 123 [kW]

EN



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1. REGULATION (EU) N. 813/2013

1.1 Scope of the document

This document is compliant with the Commission Regulation (EU) N. 813/2013 regarding "REQUIREMENTS FOR PRODUCT INFORMATION" (Annex II, Point 5) and it is made by the required information set out of the Table 2, Annex II of the Regulation called "Information requirements for heat pump space heaters and heat pump combination heaters".

1.2 REGULATION (EU) N. 813/2013 description

The COMMISSION REGULATION (EU) N. 813/2013 of 2 August 2013, implementing Directive 2009/125/EC of the European Parliament and of the Council, establishes ecodesign requirements for the placing on the market and/or putting into service of space heaters and combination heaters with a rated heat output ≤ 400 kW, including those integrated in packages of space heater, temperature control and solar device or packages of combination heater, temperature control and solar device as defined in Article 2 of Commission Delegated Regulation (EU) N. 811/2013.

1.3 Description of the data declared by Mitsubishi Electric Hydronics & IT Cooling Systems

- Heat pump combination heater: heat pump space heater that is designed to also provide heat to deliver hot drinking.
- Low-temperature application: application where the heat pump space heater delivers its declared capacity for heating at an indoor heat exchanger outlet temperature of 35 °C.
- Medium-temperature application: application where the heat pump space heater or heat pump combination heater delivers its declared capacity for heating at an indoor heat exchanger outlet temperature of 55 °C.
- TdesignH: temperature at reference design conditions.
- PdesignH , Design load for heating: the rated heat output of a heat pump space heater or heat pump combination heater at the reference design temperature, whereby the design load for heating is equal to the part load for heating with outdoor temperature equal to reference design temperature, expressed in kW.
- Seasonal space heating energy efficiency (η_s): ratio between the space heating demand for a designated heating season, supplied by a heater and the annual energy consumption required to meet this demand, expressed in %.
- Seasonal space heating energy efficiency class: efficiency class determined on the basis of its seasonal space heating energy efficiency with a difference distribution between heaters and low temperature heat pumps.
- Low-temperature heat pump: heat pump space heater that is specifically designed for low-temperature application, and that cannot deliver heating water with an outlet temperature of 52 °C at an inlet dry (wet) bulb temperature of - 7 °C (- 8 °C) in the reference design conditions for average climate.
- Bivalent temperature: the outdoor temperature declared by the manufacturer for heating at which the declared capacity for heating equals the part load for heating and below which the declared capacity for heating requires supplementary capacity for heating to meet the part load for heating.
- Operation limit temperature: the outdoor temperature declared by the manufacturer for heating, below which the air-to-water heat pump space heater or air-to-water heat pump combination heater will not be able to deliver any heating capacity and the declared capacity for heating is equal to zero.
- Degradation coefficient: measure of efficiency loss due to cycling of heat pump space heaters or heat pump combination heaters.
- Off mode: a condition in which the heat pump space heater or heat pump combination heater is connected to the mains power source and is not providing any function.
- Thermostat-off mode: condition corresponding to the hours with no heating load and activated heating function, whereby the heating function is switched on but the heat pump space heater or heat pump combination heater is not operational.
- Standby mode: condition where the heater is connected to the mains power source, depends on energy input from the mains power source to work as intended and provides only the following functions, which may persist for an indefinite time: reactivation function, or reactivation function and only an indication of enabled reactivation function, and/or information or status display.
- Crankcase heater mode: condition in which a heating device is activated to avoid the refrigerant migrating to the compressor so as to limit the refrigerant concentration in oil when the compressor is started.
- Seasonal coefficient of performance (SCOP): the overall coefficient of performance of a heat pump heater representative of the designated heating season, calculated as the reference annual heating demand divided by the annual energy consumption.
- Supplementary capacity for heating: rated heat output of a supplementary heater that supplements the declared capacity for heating to meet the part

load for heating, if the declared capacity for heating is less than the part load for heating.

- Capacity control: ability of a heat pump space heater or heat pump combination heater to change its capacity by changing the volumetric flow rate of at least one of the fluids needed to operate the refrigeration cycle.
- Annual energy consumption: means the energy consumption required to meet the reference annual heating demand for a designated heating season.
- Sound power level (LWA): the A-weighted sound power level, indoors and/or outdoors, expressed in dB.

2. CLIMAVENETA CONTENTS UNIT

2.1 Table index

MULTIFUNCTION UNITS AIR SOURCE

i-NX-Q-Y 0152P - 0552P

Heating Capacity Range 48,4 - 168 [kW]

Nominal Heating Capacity at TdesignH Range 33,0 - 123 [kW]

Units	Version	Size					Pag.
i-NX-Q-Y		0152P	0182P	0202P	0252P	0262P	5
		0302P	0352P	0402P	0502P	0552P	
i-NX-Q-Y	SL	0152P	0182P	0202P	0252P	0262P	15
		0302P	0352P	0402P	0502P	0552P	

i-NX-Q-Y /0152P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	33
Seasonal space heating energy efficiency	ηs	[%]	151
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	28,8
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	17,5
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	11,3
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	12,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	28,8
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	26,0
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,54
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,83
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,90
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,07
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,54
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,24
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,051
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,080
Supplementary heater			
Nominal heating capacity	Psup	[kW]	6,54
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	84
Annual electricity consumption for heating	QHE	[kWh]	17441
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	19008,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /0182P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	40
Seasonal space heating energy efficiency	ηs	[%]	156
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	35,2
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	21,4
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	13,8
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	12,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	35,2
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	32,7
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,66
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,91
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,06
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,96
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,66
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,40
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,065
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,080
Supplementary heater			
Nominal heating capacity	Psup	[kW]	7,10
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	85
Annual electricity consumption for heating	QHE	[kWh]	20717
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	18540,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /0202P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	47
Seasonal space heating energy efficiency	ηs	[%]	152
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	41,6
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	25,3
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	16,3
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	15,1
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	41,6
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	38,5
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,74
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,70
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,93
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,21
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,74
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,51
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,059
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,080
Supplementary heater			
Nominal heating capacity	Psup	[kW]	8,52
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	87
Annual electricity consumption for heating	QHE	[kWh]	25099
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	28620,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /0252P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	53
Seasonal space heating energy efficiency	ηs	[%]	156
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	46,7
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	28,4
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	18,3
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	15,1
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	46,7
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	43,3
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,69
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,86
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,05
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,18
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,69
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,47
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,073
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,080
Supplementary heater			
Nominal heating capacity	Psup	[kW]	9,49
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	87
Annual electricity consumption for heating	QHE	[kWh]	27481
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	28620,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /0262P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	64
Seasonal space heating energy efficiency	ηs	[%]	155
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	57,0
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	34,7
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	22,3
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	19,6
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	57,0
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	54,5
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,91
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,78
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,90
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,82
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,91
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,74
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,074
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,160
Supplementary heater			
Nominal heating capacity	Psup	[kW]	9,95
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	87
Annual electricity consumption for heating	QHE	[kWh]	33818
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	27936,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /0302P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	71
Seasonal space heating energy efficiency	ηs	[%]	155
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	63,1
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	38,4
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	24,7
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	19,7
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	63,1
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	60,3
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,81
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,78
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,05
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,07
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,81
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,65
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,096
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,160
Supplementary heater			
Nominal heating capacity	Psup	[kW]	11,0
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	88
Annual electricity consumption for heating	QHE	[kWh]	37265
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	27936,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /0352P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	81
Seasonal space heating energy efficiency	ηs	[%]	160
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	71,8
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	43,7
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	28,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	28,1
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	71,8
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	68,5
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	3,01
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,91
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,09
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,15
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	3,01
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,84
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,080
Standby mode	PSB	[kW]	0,100
Crankcase heater mode	PCK	[kW]	0,112
Supplementary heater			
Nominal heating capacity	Psup	[kW]	12,6
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	88
Annual electricity consumption for heating	QHE	[kWh]	41122
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	37080,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /0402P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	91
Seasonal space heating energy efficiency	ηs	[%]	162
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	80,8
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	49,2
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	31,6
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	28,1
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	80,8
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	76,9
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,91
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	4,00
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,15
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,12
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,91
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,73
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,110
Standby mode	PSB	[kW]	0,100
Crankcase heater mode	PCK	[kW]	0,112
Supplementary heater			
Nominal heating capacity	Psup	[kW]	14,4
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	89
Annual electricity consumption for heating	QHE	[kWh]	45851
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	37080,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /0502P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	107
Seasonal space heating energy efficiency	ηs	[%]	162
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	94,9
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	57,7
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	37,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	29,1
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	94,9
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	90,7
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,89
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	4,00
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,19
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,11
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,89
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,73
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,127
Standby mode	PSB	[kW]	0,100
Crankcase heater mode	PCK	[kW]	0,112
Supplementary heater			
Nominal heating capacity	Psup	[kW]	16,6
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	91
Annual electricity consumption for heating	QHE	[kWh]	53707
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	46368,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /0552P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	123
Seasonal space heating energy efficiency	ηs	[%]	163
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	109
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	66,2
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	42,5
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	30,0
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	109
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	104
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,93
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	4,04
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,20
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,05
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,93
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,75
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,141
Standby mode	PSB	[kW]	0,100
Crankcase heater mode	PCK	[kW]	0,112
Supplementary heater			
Nominal heating capacity	Psup	[kW]	19,4
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	93
Annual electricity consumption for heating	QHE	[kWh]	61086
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	55872,02
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0152P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	37
Seasonal space heating energy efficiency	ηs	[%]	154
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	33,0
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	20,1
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	12,9
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	13,3
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	33,0
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	30,8
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,94
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,81
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,81
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,75
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,94
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,68
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,051
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,080
Supplementary heater			
Nominal heating capacity	Psup	[kW]	6,47
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	79
Annual electricity consumption for heating	QHE	[kWh]	19621
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	21204,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0182P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	43
Seasonal space heating energy efficiency	ηs	[%]	156
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	38,4
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	23,4
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	15,0
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	13,3
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	38,4
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	36,2
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,87
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,87
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,89
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,71
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,87
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,66
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,066
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,080
Supplementary heater			
Nominal heating capacity	Psup	[kW]	7,16
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	79
Annual electricity consumption for heating	QHE	[kWh]	22596
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	21204,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0202P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	45
Seasonal space heating energy efficiency	ηs	[%]	156
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	40,0
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	24,4
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	15,7
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	14,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	40,0
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	37,5
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,88
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,82
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,99
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,06
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,88
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,65
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,059
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,080
Supplementary heater			
Nominal heating capacity	Psup	[kW]	7,74
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	80
Annual electricity consumption for heating	QHE	[kWh]	23525
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	21204,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0252P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	52
Seasonal space heating energy efficiency	ηs	[%]	157
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	46,3
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	28,2
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	18,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	14,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	46,3
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	43,8
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,91
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,83
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,03
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,03
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,91
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,71
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,073
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,080
Supplementary heater			
Nominal heating capacity	Psup	[kW]	8,47
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	81
Annual electricity consumption for heating	QHE	[kWh]	26979
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	21204,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0262P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	59
Seasonal space heating energy efficiency	ηs	[%]	156
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	52,2
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	31,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	20,4
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	19,6
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	52,2
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	50,0
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,98
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,83
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,89
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,82
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,98
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,81
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,074
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,160
Supplementary heater			
Nominal heating capacity	Psup	[kW]	8,96
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	81
Annual electricity consumption for heating	QHE	[kWh]	30675
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	21204,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0302P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	70
Seasonal space heating energy efficiency	ηs	[%]	159
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	61,6
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	37,5
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	24,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	20,3
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	61,6
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	58,8
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,97
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,89
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,01
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,90
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,97
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,80
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,096
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,160
Supplementary heater			
Nominal heating capacity	Psup	[kW]	10,9
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	82
Annual electricity consumption for heating	QHE	[kWh]	35620
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	27864,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0352P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	74
Seasonal space heating energy efficiency	ηs	[%]	161
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	65,4
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	39,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	25,6
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	28,1
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	65,4
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	62,9
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	3,07
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,94
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,04
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,15
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	3,07
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,91
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,080
Standby mode	PSB	[kW]	0,100
Crankcase heater mode	PCK	[kW]	0,112
Supplementary heater			
Nominal heating capacity	Psup	[kW]	11,1
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	82
Annual electricity consumption for heating	QHE	[kWh]	37323
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	27864,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0402P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	79
Seasonal space heating energy efficiency	ηs	[%]	158
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	70,0
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	42,6
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	27,4
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	29,4
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	70,0
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	64,1
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,83
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,95
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,95
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,19
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,83
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,55
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,110
Standby mode	PSB	[kW]	0,100
Crankcase heater mode	PCK	[kW]	0,112
Supplementary heater			
Nominal heating capacity	Psup	[kW]	15,1
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	83
Annual electricity consumption for heating	QHE	[kWh]	40745
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	36252,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0502P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	97
Seasonal space heating energy efficiency	ηs	[%]	161
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	86,1
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	52,4
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	33,7
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	29,1
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	86,1
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	81,8
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	3,02
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,94
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,11
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,11
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	3,02
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,84
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,127
Standby mode	PSB	[kW]	0,100
Crankcase heater mode	PCK	[kW]	0,112
Supplementary heater			
Nominal heating capacity	Psup	[kW]	15,6
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	85
Annual electricity consumption for heating	QHE	[kWh]	48968
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	34848,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.

i-NX-Q-Y /SL /0552P			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		yes
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Water flow rate	fixed / variable		variable
Outlet temperature	fixed / variable		variable
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	115
Seasonal space heating energy efficiency	ηs	[%]	162
Seasonal space heating energy efficiency class	-	-	-
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	102
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	61,9
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	39,8
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	30,0
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	102
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	97,6
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	3,04
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,97
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,11
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,05
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	3,04
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,88
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-15
Heating water operating limit temperature at TOL	WTOL	[°C]	40
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,141
Standby mode	PSB	[kW]	0,100
Crankcase heater mode	PCK	[kW]	0,112
Supplementary heater			
Nominal heating capacity	Psup	[kW]	17,3
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	87
Annual electricity consumption for heating	QHE	[kWh]	57464
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsorce	[m³/h]	42372,01
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-

(1) The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.

Unit in standard configuration/execution, without optional accessories.



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



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