# **REGULATION (EU) N. 813/2013**

## **Ecodesign requirements for space heaters**

Water to water reversible heat pumps optimized for heating

## WWR MTD2 0011ms - 0121ts

Heating Capacity Range 7,68 - 45,9 [kW] - (EN14511 VALUE) Nominal Heating Capacity at Tdesighn Range 9,00 - 52,0 [kW]

















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## 1. REGULATION (EU) N. 813/2013

#### 1.1 Scope of the document

This documenti is compliant with the Commission Regulation (EU) N. 813/2013 reguarding "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 (UE) 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 Climaveneta's declared data description

- 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
- 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 (ns ): 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 numns
- 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 than load less the part

- 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
- 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

Water to water reversible heat pumps optimized for heating

#### WWR MTD2 0011ms - 0121ts

Heating Capacity Range 7,68 - 45,9 [kW]

Nominal Heating Capacity at Tdesighn Range 9,00 - 52,0 [kW]

Units	Version		Size				
WWR MTD2	В	0011ms	0025ms	0025t	0025ts	0031ms	5
		0031t	0031ts	0041ms	0041t	0041ts	
		0061t	0061ts	0071t	0071ts	0091t	
		0091ts	0101t	0101ts	0121t	0121ts	

Water charge treat pump:   yes / no	WWR MTD2 /0011i	ns		
Bitne to water heat pump:	Air-to-water heat pump:	yes / no		no
Low-temperature heat pump:   yes / no	Water-to-water heat pump:	yes / no		yes
With supplementary heater:   yes / no	Brine-to-water heat pump:	yes / no		no
Mode of with theat pump:	Low-temperature heat pump:	yes / no		yes
Temperature application (1)   (low 35°C medium 55°C)   (low 35°C)   (low 35°C medium 55°C)   (low 35°C)   (lo	With supplementary heater:	yes / no		no
Mater flow rate	Mixed unit with heat pump:	yes / no		no
Duel temperature	Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Parameters are declared for average/warmer/colder climate conditions (1)   average / warmer / colder   average   Rated hat output at Tdesignh   Prated = Pdesignh   [kW]   9   180	Water flow rate	fixed / variable		fixed
Prated = Pdesignh   Rew   9   Seasonal space heating energy efficiency   180	Outlet temperature	fixed / variable		variable
Seasonal space heating energy efficiency         ns         [%]         180           Seasonal space heating energy efficiency class         -         A++           Declared capacity for heating with outdoor temperature 1 = -7 °C         Pdh         [kW]         7.73           Declared capacity for heating with outdoor temperature 1 = +7 °C         Pdh         [kW]         7.75           Declared capacity for heating with outdoor temperature 1 = +7 °C         Pdh         [kW]         7.75           Declared capacity for heating with outdoor temperature 1 = +12 °C         Pdh         [kW]         7.75           Declared capacity for heating with outdoor temperature 1 = Bivalent temperature         Pdh         [kW]         7.73           Declared capacity for heating with outdoor temperature 1 = Operation limit temperature         Pdh         [kW]         7.73           Declared capacity for heating with outdoor temperature 1 = Operation limit temperature         Pdh         [kW]         7.73           Declared capacity for heating with outdoor temperature 1 = Operation limit temperature         Pdh         [kW]         7.65           Declared capacity of pread the preadure 1 = Operation limit temperature 2 operation of performance with outdoor temperature 1 = -7 °C         CoPd         CoPd         -         4.92	Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
A++   Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj	Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	9
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T	Seasonal space heating energy efficiency	ης	[%]	180
Declared capacity for heating with outdoor temperature Tj = −7 °C	Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating with outdoor temperature Tj = +2 °C	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	ture Tj		
Declared capacity for heating with outdoor temperature Tj = +7 °C	Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	7,73
Declared capacity for heating with outdoor temperature     = +12 °C   Pdh	Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	7,50
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh   [kW]   7,73	Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	7,57
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh   RWJ   7,68	Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	7,65
Post	Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	7,73
Bivalent temperature	Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	7,68
Degradation coefficient   Cdh   - 0,90	For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
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 - 4,92  Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 5,14  Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 5,56  Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 6,02  Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 6,02  Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 4,92  Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 4,83  For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C) COPd 4,83  For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C) COPd	Bivalent temperature	Tbiv	[°C]	-7
Declared coefficient of performance with outdoor temperature Tj = -7 °C   COPd   - 4,92	Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance with outdoor temperature Tj = +2 °C	Declared coefficient of performance or primary energy ratio for part load at indoor temperat	ure 20 °C and outdoor temperatur	re Tj	
Declared coefficient of performance with outdoor temperature Tj = +7 °C   COPd   -   5,56	Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	4,92
Declared coefficient of performance with outdoor temperature Tj = +12 °C   COPd   - 6,02	Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	5,14
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,56
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd	Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd		6,02
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	4,92
For air-to-water HP : Operation limit temperature    TOL	Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	4,83
Heating water operating limit temperature   WTOL   1°C   55     Power consumption in modes other than active mode   POFF   [kW]   0,000     Thermostat-off mode   PTO   [kW]   0,191     Standby mode   PSB   [kW]   0,090     Crankcase heater mode   PCK   [kW]   0,090     Crankcase heater mode   PCK   [kW]   0,090     Supplementary heater   Psup   [kW]   1,06     Other items	For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Power consumption in modes other than active mode	For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Off mode         POFF         [kW]         0,000           Thermostat-off mode         PTO         [kW]         0,191           Standby mode         PSB         [kW]         0,090           Crankcase heater mode         PCK         [kW]         0,090           Supplementary heater           Nominal heating capacity         Psup         [kW]         1,06           Other items           Capacity control         fixed / variable         fixed           Sound power level, indoors         LWA         [dB(A)]         52           Sound power level, outdoors         LWA         [dB(A)]         -           Annual electricity consumption for heating         QHE         [kW/h]         3850           Outdoor heat exchanger           For air-to-water HP: Rated air flow rate, outdoors         Qairsource         [m³/h]         -	Heating water operating limit temperature	WTOL	[°C]	55
PTO   [kW]   0,191	Power consumption in modes other than active mode			
PSB   [kW]   0,090	Off mode	POFF	[kW]	0,000
Crankcase heater mode         PCK         [kW]         0,090           Supplementary heater         Nominal heating capacity         Psup         [kW]         1,06           Other items         Capacity control         fixed / variable         fixed           Sound power level, indoors         LWA         [dB(A)]         52           Sound power level, outdoors         LWA         [dB(A)]         -           Annual electricity consumption for heating         QHE         [kW/h]         3850           Outdoor heat exchanger           For air-to-water HP: Rated air flow rate, outdoors         Qairsource         [m³/h]         -	Thermostat-off mode	PTO	[kW]	0,191
Supplementary heater         Psup         [kW]         1,06           Other items         Use of the position	Standby mode	PSB	[kW]	0,090
Nominal heating capacity   Psup   [kW]   1,06	Crankcase heater mode	PCK	[kW]	0,090
Other items       Capacity control     fixed / variable     fixed       Sound power level, indoors     LWA     [dB(A)]     52       Sound power level, outdoors     LWA     [dB(A)]     -       Annual electricity consumption for heating     QHE     [kW/h]     3850       Outdoor heat exchanger       For air-to-water HP: Rated air flow rate, outdoors     Qairsource     [m³/h]     -	Supplementary heater			
Capacity control         fixed / variable         fixed           Sound power level, indoors         LWA         [dB(A)]         52           Sound power level, outdoors         LWA         [dB(A)]         -           Annual electricity consumption for heating         QHE         [kW/h]         3850           Outdoor heat exchanger           For air-to-water HP: Rated air flow rate, outdoors         Qairsource         [m³/h]         -	Nominal heating capacity	Psup	[kW]	1,06
Sound power level, indoors         LWA         [dB(A)]         52           Sound power level, outdoors         LWA         [dB(A)]         -           Annual electricity consumption for heating         QHE         [kW/h]         3850           Outdoor heat exchanger           For air-to-water HP: Rated air flow rate, outdoors         Qairsource         [m³/h]         -	Other items	·		
Sound power level, outdoors  LWA  [dB(A)]  - Annual electricity consumption for heating  QHE  [kW/h]  3850  Outdoor heat exchanger  For air-to-water HP: Rated air flow rate, outdoors  Qairsource  [m³/h]  -	Capacity control	fixed / variable		fixed
Annual electricity consumption for heating QHE [kW/h] 3850  Outdoor heat exchanger  For air-to-water HP: Rated air flow rate, outdoors Qairsource [m³/h] -	Sound power level, indoors			52
Outdoor heat exchanger       For air-to-water HP: Rated air flow rate, outdoors     Qairsource     [m³/h]     -	Sound power level, outdoors		[dB(A)]	-
For air-to-water HP: Rated air flow rate, outdoors  Qairsource  [m³/h] -	Annual electricity consumption for heating	QHE	[kW/h]	3850
,	Outdoor heat exchanger			
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Qwater/brine source [m³/h] 2	For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	2

<sup>(1)</sup> 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.

Air-Dowalter heat pump:   yes / no	WWR MTD2 /0025r	ns		
Binnet-Downter heat pump:	Air-to-water heat pump:	yes / no		no
Low-temperature heat pump:   yes / no   no   New final with supplementary heater:   yes / no   no   no   New final with heat pump:   yes / no   yes / no   no   no   New final with heat pump:   yes / no   yes / no   no   no   New final with heat pump:   yes / no   yes / no   no   yes / no   yes / no   no   yes / no   yes / no   no   yes /	Water-to-water heat pump:	yes / no		yes
With supplementary heater:   yes / no   no     no	Brine-to-water heat pump:	yes / no		no
Mixed unit with heat pump:	Low-temperature heat pump:	yes / no		yes
Temperature application (1)   (aw 35°C)   (bw 35°C)   (bw 35°C)	With supplementary heater:	yes / no		no
Water few rate	Mixed unit with heat pump:	yes / no		no
Quite temperature   Seed / variable   variable   variable   Parameters are declared for average/warmer/colder climate conditions (1)   average / warmer / colder   average / warmer / colder   variable   average / warmer / colder   variable	Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C
Parameter's are declared for average/warmer/colder climate conditions (1)   average / warmer / colder   Autority   12   2   3   3   3   3   3   3   3   3	Water flow rate	fixed / variable		fixed
Rated heat output at Tdesignh   Prated = Pdesignh   [kW]   12	Outlet temperature	fixed / variable		variable
Seasonal space heating energy efficiency class         p.         156         186           Declared capacity for heating energy efficiency class         -         A++           Declared capacity for heating with outdoor temperature 1 = -7 °C         Pdh         [kW]         10,2           Declared capacity for heating with outdoor temperature 1 = -7 °C         Pdh         [kW]         9,9           Declared capacity for heating with outdoor temperature 1 = +7 °C         Pdh         [kW]         10,2           Declared capacity for heating with outdoor temperature 1 = +7 °C         Pdh         [kW]         10,2           Declared capacity for heating with outdoor temperature 1 = +12 °C         Pdh         [kW]         10,2           Declared capacity for heating with outdoor temperature 1 = Potacian innit temperature         Pdh         [kW]         10,2           Declared capacity for heating with outdoor temperature 1 = Operation limit temperature         Pdh         [kW]         10,2           Declared capacity for heating with outdoor temperature 1 = -15 °C (iff TOL < -20 °C)         Pdh         [kW]         10,2           Declared capacity for heating with outdoor temperature 1 = -15 °C (iff TOL < -20 °C)         Pdh         [kW]         10,2           Declared capacity for heating with outdoor temperature 1 = -15 °C (iff TOL < -20 °C)         COPd         -         5,13 <tr< td=""><td>Parameters are declared for average/warmer/colder climate conditions (1)</td><td>average / warmer / colder</td><td></td><td>average</td></tr<>	Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Seasonal space heating energy efficiency class	Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	12
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T	Seasonal space heating energy efficiency	ης	[%]	186
Declared capacity for heating with outdoor temperature Tj = -7 °C	Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating with outdoor temperature Tj = +2 °C	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	ture Tj		
Declared capacity for heating with outdoor temperature Tj = +7 °C	Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	10,2
Declared capacity for heating with outdoor temperature Tj = +12 °C	Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	9,97
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh   RWJ   10,2	Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	10,1
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh	Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	10,2
For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)	Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	10,2
Bivalent temperature	Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	10,2
Degradation coefficient   Cdh   - 0,90	For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	Pdh	[kW]	-
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T]         Declared coefficient of performance with outdoor temperature T] = −7 °C       COPd       -       5,13         Declared coefficient of performance with outdoor temperature T] = +2 °C       COPd       -       5,30         Declared coefficient of performance with outdoor temperature T] = +12 °C       COPd       -       6,19         Declared coefficient of performance with outdoor temperature T] = +12 °C       COPd       -       6,19         Declared coefficient of performance with outdoor temperature T] = Bivalent temperature       COPd       -       5,03         Declared coefficient of performance with outdoor temperature T] = Operation limit temperature       COPd       -       5,03         Declared coefficient of performance with outdoor temperature T] = Operation limit temperature       COPd       -       5,03         Poclared coefficient of performance with outdoor temperature T] = Operation limit temperature       COPd       -       5,03         For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	Bivalent temperature	Tbiv	[°C]	-7
Declared coefficient of performance with outdoor temperature Tj = -7 °C COPd - 5,13  Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 5,30  Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 5,75  Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 6,19  Declared coefficient of performance with outdoor temperature Tj = 12 °C COPd - 6,19  Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 5,13  Declared coefficient of performance with outdoor temperature Tj = Deperation limit temperature COPd - 5,13  Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 5,03  For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C) COPd	Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 5,30  Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 5,75  Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 6,19  Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 6,19  Declared coefficient of performance with outdoor temperature Tj = Divalent temperature COPd - 5,13  Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 5,03  For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C) COPd	Declared coefficient of performance or primary energy ratio for part load at indoor temperati	ure 20 °C and outdoor temperatur	e Tj	
Declared coefficient of performance with outdoor temperature Tj = +7 °C   COPd   - 5,75	Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	5,13
Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 6,19  Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 5,13  Declared coefficient of performance with outdoor temperature Tj = Depration limit temperature COPd - 5,03  Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 5,03  Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 5,03  Declared coefficient of performance with outdoor temperature Tj = Nond Time State Tj = Non	Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	5,30
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 5,13  Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 5,03  For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C) COPd	Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,75
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature  For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)  For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)  For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)  For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)  For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)  For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)  For air-to-water her: Operation limit temperature  TOL  [°C]	Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,19
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)  For air-to-water HP : Operation limit temperature  WTOL  [°C]  For air-to-water HP : Operation limit temperature  WTOL  [°C]  For air-to-water HP : Operation limit temperature  WTOL  [°C]  For air-to-water HP : Operation limit temperature  WTOL  [°C]  For air-to-water HP : Operation limit temperature  POFF  [kW]  O,000  [kW]  O,223  Standby mode  PSB  [kW]  O,090  Supplementary heater  Nominal heating capacity  PSB  [kW]  O,090  Supplementary heater  Nominal heating capacity  Psup  [kW]  1,33  Other items  Capacity control  fixed / variable  fixed / variable  Sound power level, indoors  LWA  [dB(A)]  53  Sound power level, outdoors  LWA  [dB(A)]  Outdoor heat exchanger  For air-to-water HP: Rated air flow rate, outdoors  Qairsource  [m³/h]  -	Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	5,13
For air-to-water HP : Operation limit temperature    TOL	Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5,03
Heating water operating limit temperature   WTOL   [°C]   55	For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Power consumption in modes other than active mode	For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Off mode         POFF         [kW]         0,000           Thermostat-off mode         PTO         [kW]         0,223           Standby mode         PSB         [kW]         0,090           Crankcase heater mode         PCK         [kW]         0,090           Supplementary heater           Nominal heating capacity         Psup         [kW]         1,33           Other items           Capacity control         fixed / variable         fixed           Sound power level, indoors         LWA         [dB(A)]         53           Sound power level, outdoors         LWA         [dB(A)]         -           Annual electricity consumption for heating         QHE         [kW/h]         4897           Outdoor heat exchanger           For air-to-water HP: Rated air flow rate, outdoors         Qairsource         [m³/h]         -	Heating water operating limit temperature	WTOL	[°C]	55
Thermostat-off mode	Power consumption in modes other than active mode			
Standby mode         PSB         [kW]         0,090           Crankcase heater mode         PCK         [kW]         0,090           Supplementary heater           Nominal heating capacity         Psup         [kW]         1,33           Other items           Capacity control         fixed / variable         fixed           Sound power level, indoors         LWA         [dB(A)]         53           Sound power level, outdoors         LWA         [dB(A)]         -           Annual electricity consumption for heating         QHE         [kW/h]         4897           Outdoor heat exchanger           For air-to-water HP: Rated air flow rate, outdoors         Qairsource         [m³/h]         -	Off mode	POFF	[kW]	0,000
Crankcase heater mode         PCK         [kW]         0,090           Supplementary heater           Nominal heating capacity         Psup         [kW]         1,33           Other items         Capacity control         fixed / variable         fixed           Sound power level, indoors         LWA         [dB(A)]         53           Sound power level, outdoors         LWA         [dB(A)]         -           Annual electricity consumption for heating         QHE         [kW/h]         4897           Outdoor heat exchanger           For air-to-water HP: Rated air flow rate, outdoors         Qairsource         [m³/h]         -	Thermostat-off mode	PTO	[kW]	0,223
Supplementary heater           Nominal heating capacity         Psup         [kW]         1,33           Other items           Capacity control         fixed / variable         fixed           Sound power level, indoors         LWA         [dB(A)]         53           Sound power level, outdoors         LWA         [dB(A)]         -           Annual electricity consumption for heating         QHE         [kW/h]         4897           Outdoor heat exchanger           For air-to-water HP: Rated air flow rate, outdoors         Qairsource         [m³/h]         -	Standby mode	PSB	[kW]	0,090
Nominal heating capacity         Psup         [kW]         1,33           Other items           Capacity control         fixed / variable         fixed           Sound power level, indoors         LWA         [dB(A)]         53           Sound power level, outdoors         LWA         [dB(A)]         -           Annual electricity consumption for heating         QHE         [kW/h]         4897           Outdoor heat exchanger           For air-to-water HP: Rated air flow rate, outdoors         Qairsource         [m³/h]         -	Crankcase heater mode	PCK	[kW]	0,090
Other items       Capacity control     fixed / variable     fixed       Sound power level, indoors     LWA     [dB(A)]     53       Sound power level, outdoors     LWA     [dB(A)]     -       Annual electricity consumption for heating     QHE     [kW/h]     4897       Outdoor heat exchanger       For air-to-water HP: Rated air flow rate, outdoors     Qairsource     [m³/h]     -	Supplementary heater			
Capacity control     fixed / variable     fixed       Sound power level, indoors     LWA     [dB(A)]     53       Sound power level, outdoors     LWA     [dB(A)]     -       Annual electricity consumption for heating     QHE     [kW/h]     4897       Outdoor heat exchanger       For air-to-water HP: Rated air flow rate, outdoors     Qairsource     [m³/h]     -	Nominal heating capacity	Psup	[kW]	1,33
Sound power level, indoors  LWA  [dB(A)]  Sound power level, outdoors  LWA  [dB(A)]  -  Annual electricity consumption for heating  QHE  [kW/h]  A897  Outdoor heat exchanger  For air-to-water HP: Rated air flow rate, outdoors  Qairsource  [m³/h]  -	Other items			
Sound power level, outdoors LWA [dB(A)] - Annual electricity consumption for heating QHE [kW/h] 4897  Outdoor heat exchanger  For air-to-water HP: Rated air flow rate, outdoors Qairsource [m³/h] -	Capacity control	fixed / variable		fixed
Annual electricity consumption for heating QHE [kW/h] 4897  Outdoor heat exchanger  For air-to-water HP: Rated air flow rate, outdoors Qairsource [m³/h] -	Sound power level, indoors	LWA	[dB(A)]	53
Outdoor heat exchanger       For air-to-water HP: Rated air flow rate, outdoors     Qairsource     [m³/h]     -	Sound power level, outdoors	LWA	[dB(A)]	-
For air-to-water HP: Rated air flow rate, outdoors  Qairsource  [m³/h] -	Annual electricity consumption for heating	QHE	[kW/h]	4897
	Outdoor heat exchanger	·		
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Qwater/brine source [m³/h] 2	For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	2

<sup>(1)</sup> 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.

WWR MTD2 /002	5t		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	12
Seasonal space heating energy efficiency	ης	[%]	200
Seasonal space heating energy efficiency class	-		A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	10,5
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	10,2
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	10,4
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	10.5
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	10.5
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	10,4
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiy	[°C]	-7
Degradation coefficient	Cdh	-	0.90
Declared coefficient of performance or primary energy ratio for part load at indoor temperat			0,00
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	5,53
Declared coefficient of performance with outdoor temperature Ti = +2 °C	COPd	-	5.64
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	6,16
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	_	6,66
Declared coefficient of performance with outdoor temperature Ti = Bivalent temperature	COPd	_	5,53
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5,36
For air-to-water heat pumps: Tj = $-15$ °C (if TOL < $-20$ °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	_
Heating water operating limit temperature	WTOL	[°C]	55
Power consumption in modes other than active mode		[ 0]	
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	0.234
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater	1	[]	
Nominal heating capacity	Psup	[kW]	1.47
Other items	1. 2.56	[]	-,
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	53
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	4707
Outdoor heat exchanger	1 40112	[IZZANII]	11.01
For air-to-water HP: Rated air flow rate. outdoors	Qairsource	[m³/h]	_
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	3
To water remit to water near pumps. Nated prime or water now rate, outdoor near exchanger	Qwater/brille 30tilite	[m/n]	

<sup>(1)</sup> 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.

WWR MTD2 /0025	ts		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	12
Seasonal space heating energy efficiency	ης	[%]	200
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	iture Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	10,5
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	10,2
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	10,4
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	10,5
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	10,5
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	10,4
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 temperat	ure 20 °C and outdoor temperatu	re Tj	
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	5,53
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	5,64
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	6,16
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,66
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	5,53
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5,36
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Heating water operating limit temperature	WTOL	[°C]	55
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,234
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater			,
Nominal heating capacity	Psup	[kW]	1,47
Other items	, ·		<u> </u>
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	53
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	4707
Outdoor heat exchanger		Fd	
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	3

<sup>(1)</sup> 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.

WWR MTD2 /0031r	ns		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	14
Seasonal space heating energy efficiency	ηs	[%]	169
Seasonal space heating energy efficiency class	-		A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	ture Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	12,8
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	12,5
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	12,6
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	12,8
Declared capacity for heating with outdoor temperature Ti = Bivalent temperature	Pdh	[kW]	12,8
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	12,8
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 temperati		re Ti	0,00
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	4,76
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	4.82
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,18
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,59
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	4,76
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	4,65
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	
Heating water operating limit temperature	WTOL	[°C]	55
Power consumption in modes other than active mode	W102	[ 0]	
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	0.442
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater	1. 510	[izaa]	0,000
Nominal heating capacity	Psup	[kW]	1.66
Other items	1 500	[1,1,1]	1,00
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	53
Sound power level, indoors	LWA	[dB(A)]	
Annual electricity consumption for heating	QHE	[kW/h]	6744
Outdoor heat exchanger	WIL	[[[]]	0744
•	To :	[m³/h]	
For air-to-water HP: Rated air flow rate. outdoors	Qairsource		

<sup>(1)</sup> 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.

WWR MTD2 /003	1t		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	15
Seasonal space heating energy efficiency	ης	[%]	175
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	12,9
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	12,5
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	12,7
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	12,8
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	12,9
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	12,8
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 temperat	ture 20 °C and outdoor temperature	re Tj	
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	4,97
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	4,99
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,39
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,78
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	4,97
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	4,82
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	=
Heating water operating limit temperature	WTOL	[°C]	55
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,446
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater			
Nominal heating capacity	Psup	[kW]	1,78
Other items	·		
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	53
Sound power level, outdoors	LWA	[dB(A)]	=
Annual electricity consumption for heating	QHE	[kW/h]	6564
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	3

<sup>(1)</sup> 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.

WWR MTD2 /0031ts					
Air-to-water heat pump:	yes / no		no		
Water-to-water heat pump:	yes / no		yes		
Brine-to-water heat pump:	yes / no		no		
ow-temperature heat pump:	yes / no		yes		
Nith 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		fixed		
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]	15		
Seasonal space heating energy efficiency	ηs	[%]	175		
Seasonal space heating energy efficiency class	1-		A++		
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temper	ature Tj				
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	12,9		
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	12,5		
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	12,7		
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	12,8		
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	12,9		
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	12.8		
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	Pdh	[kW]	-		
Bivalent temperature	Thiv	[°C]	-7		
Degradation coefficient	Cdh	-	0.90		
Declared coefficient of performance or primary energy ratio for part load at indoor tempera		re Ti			
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	4,97		
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	4,99		
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	_	5,39		
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd		5,78		
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	_	4,97		
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	_	4.82		
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	_	-		
For air-to-water HP : Operation limit temperature	TOL	l°C1			
Heating water operating limit temperature	WTOL	[°C]	55		
Power consumption in modes other than active mode	WICE	[ 0]			
Off mode	POFF	[kW]	0,000		
Thermostat-off mode	PTO	[kW]	0,446		
Standby mode	PSB	[kW]	0,090		
Crankcase heater mode	PCK	[kW]	0.090		
Supplementary heater	FCK	[KVV]	0,090		
Nominal heating capacity	Psup	[kW]	1,78		
Other items	Fsup	[KVV]	1,70		
Capacity control	fixed / variable		fixed		
Sound power level, indoors	LWA	[dB(A)]	53		
Sound power level, indoors Sound power level, outdoors	LWA	- 17-			
1 /		[dB(A)]	-		
Annual electricity consumption for heating	QHE	[kW/h]	6564		
Outdoor heat exchanger	0-1	F 2 / 1			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-		
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	3		

<sup>(1)</sup> 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.

WWR MTD2 /0041i	ms		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	18
Seasonal space heating energy efficiency	ηs	[%]	172
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	16,2
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	15,7
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	15,9
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	16,1
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	16,2
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	16,1
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 temperat	ure 20 °C and outdoor temperatu	re Tj	
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	4,89
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	4,90
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,28
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,66
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	4,89
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	4,78
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Heating water operating limit temperature	WTOL	[°C]	55
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,481
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater			
Nominal heating capacity	Psup	[kW]	2,22
Other items			
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	58
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	8452
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	4

<sup>(1)</sup> 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.

WWR MTD2 /004	1t		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	19
Seasonal space heating energy efficiency	ηs	[%]	179
Seasonal space heating energy efficiency class			A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temper	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	16,8
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	16,3
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	16,5
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	16,7
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	16,8
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	16,7
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiy	[°C]	-7
Degradation coefficient	Cdh	- [ - ]	0.90
Declared coefficient of performance or primary energy ratio for part load at indoor tempera		re Ti	0,00
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	5,05
Declared coefficient of performance with outdoor temperature Ti = +2 °C	COPd	-	5.09
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,50
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,94
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	_	5.05
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd		4,91
For air-to-water heat pumps: $T_j = -15 ^{\circ}\text{C}$ (if $TOL < -20 ^{\circ}\text{C}$ )	COPd	_	-
For air-to-water HP : Operation limit temperature	TOL	l°C1	
Heating water operating limit temperature	WTOL	l°C]	55
Power consumption in modes other than active mode	WICE	[ 0]	
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	0.510
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater	FOR	[KVV]	0,090
Nominal heating capacity	Psup	[kW]	2.30
Other items	Faup	[KVV]	2,30
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	58
•	LWA	- \ /-	- 58
Sound power level, outdoors	QHE	[dB(A)]	8442
Annual electricity consumption for heating	QПE	[kW/h]	8442
Outdoor heat exchanger	Opiropurop	[ma3/h]	
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	4

<sup>(1)</sup> 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.

1ts		
yes / no		no
yes / no		yes
yes / no		no
yes / no		yes
yes / no		no
yes / no		no
(low 35°C/ medium 55°C)		low 35°C
fixed / variable		fixed
fixed / variable		variable
average / warmer / colder		average
Prated = Pdesignh	[kW]	19
ηs	[%]	179
-		A++
ature Tj		
Pdh	[kW]	16,8
Pdh	[kW]	16,3
Pdh	[kW]	16,5
Pdh	[kW]	16,7
Pdh	[kW]	16.8
Pdh		16,7
Pdh		-
Tbiv		-7
Cdh	-	0.90
ture 20 °C and outdoor temperature	re Ti	
COPd	<u> </u>	5,05
COPd	-	5,09
COPd	-	5,50
COPd	-	5,94
COPd	-	5,05
COPd	-	4,91
COPd	-	-
TOL	l°C1	-
WTOL	l,cj	55
POFF	[kW]	0,000
PTO	[kW]	0,510
PSB	[kW]	0,090
PCK	[kW]	0,090
		,
Psup	[kW]	2,30
•		·
fixed / variable		fixed
LWA	[dB(A)]	58
LWA	- \ /-	-
QHE	[kW/h]	8442
		<u> </u>
Qairsource	[m³/h]	-
	yes / no (low 35°C/ medium 55°C) fixed / variable fixed / variable average / warmer / colder Prated = Pdesignh ηs - rature Tj Pdh	yes / no   yes / no

<sup>(1)</sup> 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.

WWR MTD2 /006	lt		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	25
Seasonal space heating energy efficiency	ης	[%]	187
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	22,4
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	21,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	22,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	22,3
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	22,4
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	22,3
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 temperat	ure 20 °C and outdoor temperatur	re Tj	
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	5,34
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	5,31
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,70
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,06
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	5,34
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5,23
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Heating water operating limit temperature	WTOL	l <sub>o</sub> CJ	55
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,574
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater			
Nominal heating capacity	Psup	[kW]	3,03
Other items			
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	59
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	10773
Outdoor heat exchanger		, , ,	
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	5

<sup>(1)</sup> 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.

WWR MTD2 /0061	ts		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	25
Seasonal space heating energy efficiency	ης	[%]	187
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	22,4
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	21,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	22,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	22,3
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	22,4
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	22,3
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	Pdh	[kW]	=
Bivalent temperature	Tbiv	l <sub>o</sub> CJ	-7
Degradation coefficient	Cdh		0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperat	ure 20 °C and outdoor temperatur	re Tj	
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	5,34
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	5,31
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,70
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	6,06
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	5,34
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5,23
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Heating water operating limit temperature	WTOL	l <sub>o</sub> Cj	55
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,574
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater			,
Nominal heating capacity	Psup	[kW]	3,03
Other items	· ·		·
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	59
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	10773
Outdoor heat exchanger		p	
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	5

<sup>(1)</sup> 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.

WWR MTD2 /007	It		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	31
Seasonal space heating energy efficiency	ης	[%]	177
Seasonal space heating energy efficiency class	-		A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	27,8
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	27,0
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	27,3
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	27,6
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	27,8
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	27,7
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	Pdh	[kW]	
Bivalent temperature	Tbiy	[°C]	-7
Degradation coefficient	Cdh	-	0.90
Declared coefficient of performance or primary energy ratio for part load at indoor temperat			0,00
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	5,05
Declared coefficient of performance with outdoor temperature Ti = +2 °C	COPd	-	5.07
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,42
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	_	5,78
Declared coefficient of performance with outdoor temperature Ti = Bivalent temperature	COPd	_	5,05
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	4,94
For air-to-water heat pumps: Tj = $-15$ °C (if TOL < $-20$ °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Heating water operating limit temperature	WTOL	[°C]	55
Power consumption in modes other than active mode		[ 0]	
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	0.895
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater	1	[]	0,000
Nominal heating capacity	Psup	[kW]	3.72
Other items	1. 2.56	[]	<del></del>
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	66
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	13991
Outdoor heat exchanger	1 40112	[IZZANII]	10001
For air-to-water HP: Rated air flow rate. outdoors	Qairsource	[m³/h]	
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	7
To water remit to water near pumps. Nated prime or water now rate, outdoor near exchanger	Qwater/brille 30tilite	[m/n]	<u>'</u>

<sup>(1)</sup> 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.

WWR MTD2 /0071	ts		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	31
Seasonal space heating energy efficiency	ης	[%]	177
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	27,8
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	27,0
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	27,3
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	27,6
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	27,8
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	27,7
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 temperat	ure 20 °C and outdoor temperature	re Tj	
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	5,05
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	5,07
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,42
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,78
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	5,05
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	4,94
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Heating water operating limit temperature	WTOL	[°C]	55
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,895
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater			
Nominal heating capacity	Psup	[kW]	3,72
Other items			
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	66
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	13991
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	7

<sup>(1)</sup> 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.

WWR MTD2 /009	1t		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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	ης	[%]	188
Seasonal space heating energy efficiency class	-		A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	32,4
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	31,5
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	31,9
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	32,3
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	32.4
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	32,2
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 temperate		re Ti	
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	5,42
Declared coefficient of performance with outdoor temperature Ti = +2 °C	COPd	-	5,35
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,73
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	_	6,14
Declared coefficient of performance with outdoor temperature Ti = Bivalent temperature	COPd	_	5,42
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5,27
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Heating water operating limit temperature	WTOL	[°C]	55
Power consumption in modes other than active mode	111.02	[ 0]	
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	0.899
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater	1	[]	5,555
Nominal heating capacity	Psup	[kW]	4,42
Other items	1	[]	-,,
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	66
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	15401
Outdoor heat exchanger		[KAAAAA]	10.101
For air-to-water HP: Rated air flow rate. outdoors	Qairsource	[m³/h]	_
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	8
To water round to water near pumps. I taled brine or water now rate, outdoor near exchanger	Qwater/billie source	[m/n]	

<sup>(1)</sup> 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.

WWR MTD2 /0091	ts		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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	ης	[%]	188
Seasonal space heating energy efficiency class			A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	32,4
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	31,5
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	31,9
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	32,3
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	32,4
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	32,2
For air-to-water heat pumps: Ti = - 15 °C (if TOL < - 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	l <sub>o</sub> Cl	-7
Degradation coefficient	Cdh	-	0.90
Declared coefficient of performance or primary energy ratio for part load at indoor temperate	ture 20 °C and outdoor temperature	re Ti	-,
Declared coefficient of performance with outdoor temperature Ti = -7 °C	COPd	-	5,42
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	5,35
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,73
Declared coefficient of performance with outdoor temperature Ti = +12 °C	COPd	-	6.14
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	5,42
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5.27
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	_
Heating water operating limit temperature	WTOL	l°C1	55
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	0,899
Standby mode	PSB	[kW]	0.090
Crankcase heater mode	PCK	[kW]	0.090
Supplementary heater		[]	
Nominal heating capacity	Psup	[kW]	4,42
Other items			,
Capacity control	fixed / variable	T	fixed
Sound power level, indoors	LWA	[dB(A)]	66
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	15401
Outdoor heat exchanger		[m]	.5101
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	-
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	8
of water remove the water meat pumps. Nated brine of water now rate, outdoor neat exchanger	Grater/brille 300100	[111711]	

<sup>(1)</sup> 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.

WWR MTD2 /010	1t		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	42
Seasonal space heating energy efficiency	ης	[%]	182
Seasonal space heating energy efficiency class	-		A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	37,0
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	35,9
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	36,2
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	36,6
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	37,0
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	36.8
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	l <sub>c</sub> Cj	-7
Degradation coefficient	Cdh		0.90
Declared coefficient of performance or primary energy ratio for part load at indoor temperate	ure 20 °C and outdoor temperatur	re Ti	-,
Declared coefficient of performance with outdoor temperature Ti = -7 °C	COPd	-	5,21
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	5,18
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,53
Declared coefficient of performance with outdoor temperature Ti = +12 °C	COPd	-	5.90
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	5,21
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5.08
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	_
Heating water operating limit temperature	WTOL	l <sub>c</sub> Cl	55
Power consumption in modes other than active mode	-	,	
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	1,140
Standby mode	PSB	[kW]	0.090
Crankcase heater mode	PCK	[kW]	0.090
Supplementary heater	1. 5	[]	
Nominal heating capacity	Psup	[kW]	5,02
Other items	1	[]	-,
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	70
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	18202
Outdoor heat exchanger		[vii]	.5252
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	<u>-</u>
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	9
or water remine to-water near pumps. Italied brine or water now rate, outdoor near exchanger	Zwatembilile Source	[111711]	<del>J</del>

<sup>(1)</sup> 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.

WWR MTD2 /0101	ts		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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]	42
Seasonal space heating energy efficiency	ης	[%]	182
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	iture Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	37,0
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	35,9
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	36,2
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	36,6
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	37,0
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	36,8
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 temperat	ure 20 °C and outdoor temperatur	re Ti	
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	<u> </u>	5,21
Declared coefficient of performance with outdoor temperature Ti = +2 °C	COPd	-	5,18
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,53
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,90
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	5,21
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5.08
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	
Heating water operating limit temperature	WTOL	l <sub>c</sub> Cl	55
Power consumption in modes other than active mode		[ [ ]	
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	1.140
Standby mode	PSB	[kW]	0,090
Crankcase heater mode	PCK	[kW]	0,090
Supplementary heater	1	[]	
Nominal heating capacity	Psup	[kW]	5.02
Other items		. ,	-,-
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	70
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	18202
Outdoor heat exchanger		[izzazii]	10202
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	_
or an to water in . Nated an new rate, butdoors	Qwater/brine source	[m³/h]	9

<sup>(1)</sup> 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.

WWR MTD2 /012	1t		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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	[%]	182
Seasonal space heating energy efficiency class			A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	46,1
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	44,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	45,2
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	45,6
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	46,1
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	45,9
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 temperate			0,00
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	5,28
Declared coefficient of performance with outdoor temperature Ti = +2 °C	COPd	-	5,21
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,51
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,81
Declared coefficient of performance with outdoor temperature Ti = Bivalent temperature	COPd	-	5,28
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5,17
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-
Heating water operating limit temperature	WTOL	l <sub>c</sub> Cl	55
Power consumption in modes other than active mode		[ 0]	
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	1,193
Standby mode	PSB	[kW]	0.086
Crankcase heater mode	PCK	[kW]	0,086
Supplementary heater	1. 5	[]	
Nominal heating capacity	Psup	[kW]	6,22
Other items	. 645	[]	<u> </u>
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	70
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	22662
Outdoor heat exchanger		[KAAA11]	22002
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	11
roi water-nume-to-water meat pumps. Rated biline of water mow rate, outdoor near exchanger	Qwater/brine source	[111-7/11]	11

<sup>(1)</sup> 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.

WWR MTD2 /0121	ts		
Air-to-water heat pump:	yes / no		no
Water-to-water heat pump:	yes / no		yes
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		fixed
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	ης	[%]	182
Seasonal space heating energy efficiency class	-	-	A++
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor tempera	iture Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	46,1
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	44,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	45,2
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	45,6
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	46,1
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	45,9
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 temperat	ure 20 °C and outdoor temperatur	re Ti	
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	<u> </u>	5,28
Declared coefficient of performance with outdoor temperature Ti = +2 °C	COPd	-	5,21
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	5,51
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	5,81
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	5,28
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	5,17
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	_
Heating water operating limit temperature	WTOL	l <sub>c</sub> Cl	55
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	1.193
Standby mode	PSB	[kW]	0,086
Crankcase heater mode	PCK	[kW]	0,086
Supplementary heater	1	[]	
Nominal heating capacity	Psup	[kW]	6.22
Other items		. ,	-,
Capacity control	fixed / variable		fixed
Sound power level, indoors	LWA	[dB(A)]	70
Sound power level, outdoors	LWA	[dB(A)]	-
Annual electricity consumption for heating	QHE	[kW/h]	22662
Outdoor heat exchanger		[izzazii]	22002
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	_
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	11

<sup>(1)</sup> 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.

ENGLISH	ITALIANO	FRANCAISE	DEUTSCH	ESPANOL
Air-to-water heat pump:	Pompa di calore aria/ acqua:	Pompes à chaleur air-eau:	Luft-Wasser-Wärmepumpe:	Bomba de calor aire-agua:
Water-to-water heat pump:	Pompa di calore acqua/ acqua:	Pompes à chaleur eau-eau:	Wasser-Wasser-Wärmepumpe:	Bomba de calor agua-agua:
Brine-to-water heat pump:	Pompa di calore salamoia/ acqua:	Pompe à chaleur eau glycolée-eau:	Sole-Wasser-Wärmepumpe:	Bomba de calor salmuera-agua:
Low-temperature heat pump:	Pompa di calore a bassa temperatura:	Pompes à chaleur basse température:	Niedertemperatur-Wärmepumpe:	Bomba de calor de baja temperatura:
With supplementary heater:	Con riscaldatore supplementare:	Equipée d'un dispositif de chauffage d'appoint:	Mit Zusatzheizgerät:	Equipado con un calefactor complementario:
Mixed unit with heat pump:	Apparecchio misto a pompa di calore:	Dispositif de chauffage mixte par pompe à chaleur:	Kombiheizgerät mit Wärmepumpe:	Calefactor combinado con bomba de calor:
Temperature application	Temperatura applicazione	Application à température	Temperatur Anwendung	Aplicación de temperatura
Water flow rate	Portata d'acqua	Débit fluide	Volumenstrom Wasser	Caudal agua
Outlet temperature	Temperatura di uscita	Température de sortie	Austrittstemperatur	Temperatura de salida
Parameters are declared for average/warmer/colder climate conditions	I parametri sono dichiarati per condizioni climatiche medie/ alte/ basse	Les paramètres sont déclarés pour les conditions climatiques moyennes/chaud/basse	Die Parameter sind für eine Mitteltemperaturanwendung anzugeben	Los parámetros se indicarán para condiciones climáticas medias/ alta/ baja
Rated heat output at Tdesignh	Potenza termica nominale a Tdesign	Puissance thermique nominale Tdesignh	Wärmenennleistung Tdesignh	Potencia calorífica nominal Tdesignh
Seasonal space heating energy efficiency	Efficienza energetica stagionale del riscaldamento d'ambiente	Efficacité énergétique saisonnière pour le chauffage des locaux	Jahreszeitbedingte Raumheizungs-Energieeffizienz	Eficiencia energética estacional de calefacción
Seasonal space heating energy efficiency class	Classe di efficienza energetica stagionale del riscaldamento d'ambiente	Efficacité énergétique saisonnière pour le chauffage des locaux	Jahreszeitbedingte Raumheizungs-Energieeffizienz	Eficiencia energética estacional de calefacción
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj	Capacità di riscaldamento dichiarata a carico parziale, con temperatura interna pari a 20 °C e temperatura esterna Tj	Puissance calorifique déclarée à charge partielle pour une température intérieure de 20 °C et une température extérieure Tj	Angegebene Leistung für Teillast bei Raumlufttemperatur 20°C und Außenlufttemperatur Tj	Capacidad de calefacción declarada para una carga parcial a una temperatura interior de 20 °C y una temperatura exterior Tj
Declared capacity for heating with outdoor temperature Tj = $-7~^{\circ}\text{C}$	Capacità di riscaldamento con temperatura esterna Tj = -7 °C	Puissance calorifique déclarée avec la température extérieure Tj = - 7 °C	Erklärt, Raumheizung mit Außenlufttemperatur Tj = – 7 °C	Capacidad de calefacción para una temperatura exterior Tj = - 7 °C
Declared capacity for heating with outdoor temperature Tj = +2 °C	Capacità di riscaldamento con temperatura esterna Tj = + 2 °C	Puissance calorifique déclarée avec la température extérieure Tj = +2 °C	Erklärt, Raumheizung mit Außenlufttemperatur Tj = +2 °C	Capacidad de calefacción para una temperatura exterior Tj = +2 °C
Declared capacity for heating with outdoor temperature Tj = +7 °C	Capacità di riscaldamento con temperatura esterna Tj = + 7 °C	Puissance calorifique déclarée avec la température extérieure Tj = +7 °C	Erklärt, Raumheizung mit Außenlufttemperatur Tj = +7 °C	Capacidad de calefacción para una temperatura exterior Tj = +7 °C
Declared capacity for heating with outdoor temperature Tj = +12 °C	Capacità di riscaldamento con temperatura esterna Tj = + 12 °C	Puissance calorifique déclarée avec la température extérieure Tj = +12 °C	Erklärt, Raumheizung mit Außenlufttemperatur Tj = +12 °C	Capacidad de calefacción para una temperatura exterior Tj = +12 °C
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Capacità di riscaldamento con temperatura esterna Tj = temperatura bivalente	Puissance calorifique déclarée avec la température extérieure Tj = Température bivalente	Erklärt, Raumheizung mit Außenlufttemperatur Tj = Bivalenztemperatur	Capacidad de calefacción para una temperatura exterior Tj = Temperatura bivalente
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Capacità di riscaldamento con temperatura esterna Tj = temperatura limite di esercizio	Puissance calorifique déclarée avec la température extérieure Tj = Température maximale de service	Erklärt, Raumheizung mit Außenlufttemperatur Tj = Betriebsgrenzwert-Temperatur	Capacidad de calefacción para una temperatura exterior Tj = Temperatura límite de funcionamiento
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	Per le pompe di calore aria/ acqua: Tj = - 15 °C (se TOL < - 20 °C)	Pour les pompes à chaleur air-eau: Tj = - 15 °C (si TOL < - 20 °C)	Für Luft-Wasser-Wärmepumpen: Tj = - 15 °C (wenn TOL < - 20 °C)	Para bombas de calor aire-agua: Tj = - 15 °C (si TOL < - 20 °C)
Bivalent temperature	Temperatura bivalente	Température bivalente	Bivalenztemperatur	Temperatura bivalente
Degradation coefficient	Coefficiente di degradazione	Coefficient de dégradation	Minderungsfaktor	Coeficiente de degradación
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj	Coefficiente di prestazione dichiarato o indice di energia primaria per carico parziale, con temperatura interna pari a 20 °C e temperatura esterna Tj	Coefficient de performance déclaré ou coefficient sur énergie primaire déclaré à charge partielle pour une température intérieure de 20 °C et une température extérieure Tj	Angegebene Leistungszahl oder Heizzahl für Teillast bei Raumlufttemperatur 20 °C und Außenlufttemperatur Tj	Coeficiente de rendimiento declarado o factor energético primario para una carga parcial a una temperatura interior de 20 °C y una temperatura exterior Tj
Declared coefficient of performance with outdoor temperature Tj = -7 °C	Coefficiente di prestazione con temperatura esterna Tj = - 7 °C	Coefficient de performance déclaré avec la température extérieure Tj = - 7 °C	Erklärten Leistungszahl bei Außenlufttemperatur Tj = – 7 °C	Capacidad de calefacción para una temperatura exterior Tj = - 7 °C
Declared coefficient of performance with outdoor temperature Tj = +2 °C	Coefficiente di prestazione con temperatura esterna Tj = + 2 °C	Coefficient de performance déclaré avec la température extérieure Tj = +2 °C	Erklärten Leistungszahl bei Außenlufttemperatur Tj = +2 °C	Capacidad de calefacción para una temperatura exterior Tj = +2 °C
Declared coefficient of performance with outdoor temperature Tj = +7 °C	Coefficiente di prestazione con temperatura esterna Tj = + 7 °C	Coefficient de performance déclaré avec la température extérieure Tj = +7 °C	Erklärten Leistungszahl bei Außenlufttemperatur Tj = +7 °C	Capacidad de calefacción para una temperatura exterior Tj = +7 °C
Declared coefficient of performance with outdoor temperature Tj = +12 °C	Coefficiente di prestazione con temperatura esterna Tj = + 12 °C	Coefficient de performance déclaré avec la température extérieure Tj = +12 °C	Erklärten Leistungszahl bei Außenlufttemperatur Tj = +12 °C	Capacidad de calefacción para una temperatura exterior Tj = +12 °C



ENGLISH	ITALIANO	FRANCAISE	DEUTSCH	ESPANOL
Declared coefficient of	Coefficiente di prestazione con	Coefficient de performance	Erklärten Leistungszahl bei	Capacidad de calefacción para
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	Coefficiente di prestazione con temperatura esterna Tj = temperatura limite di esercizio	Coefficient de performance déclaré avec la température extérieure Tj = Température maximale de service	Erklärten Leistungszahl bei Außenlufttemperatur Tj = Betriebsgrenzwert-Temperatur	Capacidad de calefacción para una temperatura exterior Tj = Temperatura límite de funcionamiento
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	Per le pompe di calore aria/ acqua: Tj = - 15 °C (se TOL < - 20 °C)	Pour les pompes à chaleur air-eau: Tj = - 15 °C (si TOL < - 20 °C)	Für Luft-Wasser-Wärmepumpen: Tj = -15 °C (wenn TOL < -20 °C)	Para bombas de calor aire-agua: Tj = -15 °C (si TOL < -20 °C)
For air-to-water HP : Operation limit temperature	Per le pompe di calore aria/ acqua: temperatura limite di esercizio	Pour les pompes à chaleur air-eau: Température limite de fonctionnemen	Für Luft-Wasser-Wärmepumpen: Betriebsgrenzwert-Temperatur	Para bombas de calor aire-agua: Temperatura límite de funcionamiento
Heating water operating limit temperature	Temperatura limite di esercizio di riscaldamento dell'acqua	Température maximale de service de l'eau de chauffage	Grenzwert der Betriebstemperatur des Heizwassers	Temperatura límite de calentamiento de agua
Power consumption in modes other than active mode	Consumo energetico in modi diversi dal modo attivo	Consommation d'électricité dans les modes autres que le mode actif	Stromverbrauch in anderen Betriebsarten als dem Betriebszustand	Consumo de electricidad en modos distintos del activo
Off mode	Modo spento	Mode arrêt	Aus-Zustand	Modo desactivado
Thermostat-off mode	Modo termostato spento	Mode arrêt par thermostat	Thermostat-aus-Zustand	Modo desactivado por termostato
Standby mode	Modo stand-by	Mode veille	Bereitschaftszustand	Modo de espera
Crankcase heater mode	Modo riscaldamento del carter	Mode résistance de carter active	Betriebszustand mit Kurbelgehäuseheizung	Modo riscaldamento del carter
Supplementary heater	Riscaldatore supplementare	Dispositif de chauffage d'appoint	Zusatzheizgerät	Calefactor complementario
Nominal heating capacity	Potenza termica nominale	Puissance thermique nominale	Heizleistung nominal	Potencia térmica nominal
Other items	Altri elementi	Autres caractéristiques	Sonstige Elemente	Otros elementos
Capacity control	Controllo della capacità	Régulation de la puissance	Leistungssteuerung	Control de capacidad
Sound power level, indoors	Livello della potenza sonora, all'interno	Niveau de puissance acoustique, à l'intérieur	Schallleistungspegel, innen	Nivel de potencia acústica (interior)
Sound power level, outdoors	Livello della potenza sonora, all'esterno	Niveau de puissance acoustique, à l'extérieur	Schallleistungspegel, außen	Nivel de potencia acústica (exterior)
Annual electricity consumption for heating	Consumo di elettricità annuale per il riscaldamento	Consommation annuelle d'électricité pour le chauffage	Jahresstromverbrauch für die Heizung	Consumo anual de electricidad para la calefacción
Outdoor heat exchanger	Scambiatore di calore esterno	Echangeur de chaleur externe	Wärmetauscher äußere	Intercambiador de calor (exterior)
For air-to-water HP: Rated air flow rate, outdoors	Per le pompe di calore aria/ acqua: portata d'aria, all'esterno	Pour les pompes à chaleur air-eau: débit d'air nominal, à l'extérieur	Für Luft-Wasser-Wärmepumpen: Nenn-Luftdurchsatz, außen	Para bombas de calor aire-agua: Caudal de aire nominal (exterior)
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Per le pompe di calore acqua/acqua e salamoia/acqua: flusso di salamoia o acqua nominale, scambiatore di calore all'esterno	Pour les pompes à chaleur eau-eau ou eau glycolée-eau: débit nominal d'eau glycolée ou d'eau, échangeur thermique extérieur	Für Wasser/Sole-Wasser-Wärmepum Wasser- oder Sole-Nenndurchsatz	Para bombas de calor agua/salmuera a agua: Caudal de salmuera o de agua nominal, intercambiador de calor de exterior
Notes:	Note:	Remarques:	Hinweise:	Notas:
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.	I parametri sono dichiarati per l'applicazione a temperatura media, tranne per le pompe di calore a bassa temperatura. Per le pompe di calore a bassa temperatura, i parametri sono dichiarati per l'applicazione a bassa temperatura.	Les paramètres sont déclarés pour l'application à moyenne température, excepté pour les pompes à chaleur basse température. Pour les pompes à chaleur basse température, les paramètres sont déclarés pour l'application à basse température.	Die Parameter sind für eine Mitteltemperaturanwendung anzugeben, außer für Niedertemperatur-Wärmepumpen. Für Niedertemperatur-Wärmepumpen sind die Parameter für eine Niedertemperaturanwendung anzugeben.	Los parámetros se declararán para aplicaciones de media temperatura, excepto si se trata de bombas de calor de baja temperatura. En el caso de las bombas de calor de baja temperatura, los parámetros se declararán para aplicaciones de baja temperatura.
Unit in standard configuration/execution, without optional accessories.	Unità in configurazione ed esecuzione standard, priva di accessori opzionali.	Unité en configuration et exécution standard, sans accessoires optionnels.	Gerät mit Standard-Konfiguration und -Ausführung, ohne wunschweises Zubehör.	Unidad en configuración y ejecución estándar, sin accesorios opcionales.



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