REGULATION (EU) N. 813/2013

Ecodesign requirements for space heaters

Air to water heat pumps, heating only, high temperature water production

AW-HT 0404 - 0604

Heating Capacity Range 142 - 215 [kW] - (EN14511 VALUE) Nominal Heating Capacity at Tdesighn Range 99,0 - 148 [kW]





1.	REGULATION (EU) N. 813/2013	
	1.1 Scope of the document	3
	1.2 REGULATION (UE) N. 813/2013 description	3
	1.3 Climaveneta's declared data description	3
2.	CLIMAVENETA CONTENTS UNIT 2.1 Table index	4
3.	TECHNICAL PARAMETERS	
	3.1 AW-HT /CA-E	5
	3.2 AW-HT /LN-CA-E	17





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 55[°]C.
- TdesignH: temperature at reference design conditions.
- PdesignH , Design load for heating: the rated heat output of a heat pump space heater or heat pump combination heater at the reference design temperature, whereby the design load for heating is equal to the part load for heating with outdoor temperature equal to reference design temperature, expressed in kW.
- Seasonal space heating energy efficiency (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 pumps
- Low-temperature heat pump: heat pump space heater that is specifically designed for low-temperature application, and that cannot deliver heating water with an outlet temperature of 52 °C at an inlet dry (wet) bulb temperature of – 7 °C (– 8 °C) in the reference design conditions for average climate.
- Bivalent temperature: the outdoor temperature declared by the manufacturer for heating at which the declared capacity for heating equals the part load for heating and below which the declared capacity for heating requires supplementary capacity for heating to meet the part
- load for heating. Operation limit temperature: the outdoor temperature declared by the manufacturer for heating, below which the air-to-water heat pump space heater or air-to-water heat pump combination heater will not be able to deliver any heating capacity and the declared capacity for heating is equal to zero.
- Degradation coefficient: measure of efficiency loss due to cycling of heat 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 is 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 cvcle.
- 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

Air to water heat pumps, heating only, high temperature water production

AW-HT 0404 - 0604

Heating Capacity Range 142 - 215 [kW] Nominal Heating Capacity at Tdesighn Range 99,0 - 148 [kW]

Units	Version			Size			Pag.
AW-HT	CA-E	0404	0404	0524	0524	0604	5
		0604					
AW-HT	LN-CA-E	0404	0404	0524	0524	0604	17
		0604					



Air-to-water heat pump:yes / noWater-to-water heat pump:yes / noBrine-to-water heat pump:yes / noLow-temperature heat pump:yes / noWith supplementary heater:yes / noWith supplementary heater:yes / noTemperature application (1)(low 35°C/ medium 55°C)Water flow ratefixed / variableOutlet temperaturefixed / variableOutlet temperaturefixed / variableParameters are declared for average/warmer/colder climate conditions (1)average / warmer / colderRated heat output at TdesignhPratel = PdesignhSeasonal space heating energy efficiencynsSeasonal space heating for part load at indoor temperature 20 °C and outdoor temperature TjDeclared capacity for heating with outdoor temperature $1j = -7$ °CPdhDeclared capacity for heating with outdoor temperature $1j = +7$ °CPdhDeclared capacity for heating with outdoor temperature $1j = +7$ °CPdhDeclared capacity for heating with outdoor temperature $1j = +7$ °CPdhDeclared capacity for heating with outdoor temperature $1j = +7$ °CPdhDeclared capacity for heating with outdoor temperature $1j = +12$ °CPdhDeclared capacity for heating with outdoor temperature $1j = -7$ °CPdhDeclared capacity for heating with outdoor temperature $1j = -2$ °CPdhDeclared capacity for heating with outdoor temperature $1j = -7$ °CPdhDeclared capacity for heating with outdoor temperature $1j = -7$ °CPdhDeclared capacity for heating with outdoor temperature $1j = -7$	yes no no no no low 35°C fixed fixed
Brine-to-water heat pump: yes / no Low-temperature heat pump: yes / no With supplementary heater: yes / no Mixed unit with heat pump: yes / no Temperature application (1) (low 35°C/ medium 55°C) Water flow rate fixed / variable Outlet temperature fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder Rated heat output at Tdesignh Prated = Pdesignh Seasonal space heating energy efficiency ns Seasonal space heating energy efficiency class - Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh Declared capacity for heating with outdoor temperature Tj = -15 °C (if TOL < - 20 °C) Pdh Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh Declared capacity for heating with outdoor temperature Tj = Operation lim	no no no no low 35°C fixed
Low-temperature heat pump: yes / no With supplementary heater: yes / no Mixed unit with heat pump: yes / no Temperature application (1) (low 35°C/ medium 55°C) Water flow rate fixed / variable Outlet temperature fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder Rated heat output at Tdesignh Prated = Pdesignh [kW] Seasonal space heating energy efficiency ns [%] Seasonal space heating or part load at indoor temperature 20 °C and outdoor temperature Tj - - Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = P °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = -9 °C Pdh [kW]	no no low 35°C fixed
With supplementary heater:yes / noMixed unit with heat pump:yes / noTemperature application (1)(low 35°C/ medium 55°C)Water flow ratefixed / variableOutlet temperaturefixed / variableParameters are declared for average/warmer/colder climate conditions (1)average / warmer / colderRated heat output at TdesignhPrated = Pdesignh[kW]Seasonal space heating energy efficiencyns[%]Seasonal space heating energy efficiency classDeclared capacity for heating with outdoor temperature 0°C and outdoor temperature Tj-Declared capacity for heating with outdoor temperature Tj = - 15 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = +12 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = +12 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = +12 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperaturePdh[kW]Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperaturePdh[kW]Declared capacity for heating with outdoor temperature Tj = 0 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = 0 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = 0 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = 0 °C °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = 0 °C °CPdh[kW]<	no no low 35°C fixed
Mixed unit with heat pump: yes / no Temperature application (1) (low 35°C/ medium 55°C) Water flow rate fixed / variable Outlet temperature fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder Rated heat output at Tdesignh Prated = Pdesignh [kW] Seasonal space heating energy efficiency ns [%] Seasonal space heating of part load at indoor temperature 20 °C and outdoor temperature Tj - - Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = = 0 peration limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] <	no low 35°C fixed
Temperature application (1) (low 35°C/ medium 55°C) Water flow rate fixed / variable Outlet temperature fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder Rated heat output at Tdesignh Prated = Pdesignh Seasonal space heating energy efficiency ns Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh Declared capacity for heating with outdoor temperature Tj = 0peration limit temperatu	low 35°C fixed
Water flow rate fixed / variable Outlet temperature fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder Rated heat output at Tdesignh Prated = Pdesignh [kW] Seasonal space heating energy efficiency ŋs [%] Seasonal space heating onergy efficiency class - - Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj - Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature Pdh [kW] Bivalent temperature <td>fixed</td>	fixed
Outlet temperature fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder Rated heat output at Tdesignh Prated = Pdesignh [kW] Seasonal space heating energy efficiency ns [%] Seasonal space heating energy efficiency class - - Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj	
Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder Rated heat output at Tdesignh Prated = Pdesignh [kW] Seasonal space heating energy efficiency ns [%] Seasonal space heating energy efficiency class - - Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj Pdh [kW] Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating wi	fixed
Rated heat output at TdesignhPrated = Pdesignh[kW]Seasonal space heating energy efficiencyns[%]Seasonal space heating energy efficiency classDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature TjDeclared capacity for heating with outdoor temperature Tj = -7 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = +2 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = +7 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = +12 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = +12 °CPdh[kW]Declared capacity for heating with outdoor temperature Tj = bivalent temperaturePdh[kW]Declared capacity for heating with outdoor temperature Tj = Operation limit temperaturePdh[kW]Declared capacity for heating with outdoor temperature Tj = Operation limit temperaturePdh[kW]Declared capacity for heating with outdoor temperature Tj = Operation limit temperaturePdh[kW]Declared capacity for heating with outdoor temperature Tj = Operation limit temperaturePdh[kW]Bivalent temperatureTbiv[°C]Degradation coefficientCdh-Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj	
Seasonal space heating energy efficiency ns [%] Seasonal space heating energy efficiency class - - Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj - - Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 Pdh [kW] [kW] Declared capacity for heating with outdoor temperature Tj = 0 Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 °C (if TOL < - 20 °C)	average
Seasonal space heating energy efficiency class - - Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj - - Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = 0 °C (if TOL < - 20 °C)	93
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Bivalent temperature Pdh [kW] [%U] Bivalent temperature Tbiv [%C] [%C] Degradation coefficient Cdh - - Declared coefficient of performance or primary energy ratio for part l	124
Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Bivalent temperature Ddh [kW] [%V] Bivalent temperature Tbiv [°C] [°C] Degradation coefficient Cdh - - Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj -	A+
Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Bivalent temperature Ddh [kW] [%U] Bivalent temperature Tbiv [°C] [°C] Degradation coefficient Cdh - Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj	
Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	81,9
Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Depration limit temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)	49,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)	35,8
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)	39,9
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	81,9
Bivalent temperature Tbiv [°C] Degradation coefficient Cdh - Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj -	75,2
Degradation coefficient Cdh - Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj -	-
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj	-7
	0,90
Declared coefficient of performance with outdoor temperature $Ti = -7$ °C C COPd	
	2,64
Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd -	3,21
Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd -	3,80
Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd -	4,18
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd -	2,64
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd -	2,48
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) COPd -	-
For air-to-water HP : Operation limit temperature TOL [°C]	-20
Heating water operating limit temperature at TOL WTOL [°C]	45
Power consumption in modes other than active mode	
Off mode POFF [kW]	0,000
Thermostat-off mode PTO [kW]	0,435
Standby mode PSB [kW]	0,315
Crankcase heater mode PCK [kW]	0,315
Supplementary heater	
Nominal heating capacity Psup [kW]	17,4
Other items	
Capacity control fixed / variable	variable
Sound power level, indoors LWA [dB(A)]	-
Sound power level, outdoors LWA [dB(A)]	92
Annual electricity consumption for heating QHE [kW/h]	60309
Outdoor heat exchanger	
For air-to-water HP: Rated air flow rate, outdoors Qairsource [m ³ /h]	
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Qwater/brine source [m ³ /h]	56916



AW-HT /CA-E /040 MEDIUM TEMPERATURE a	· -		
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	99
Seasonal space heating energy efficiency	ns	[%]	116
Seasonal space heating energy efficiency class	-		A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ture Tj	I	
Declared capacity for heating with outdoor temperature $T_i = -7 \degree C$	Pdh	[kW]	87,5
Declared capacity for heating with outdoor temperature $T_i = +2 \degree C$	Pdh	[kW]	53,3
Declared capacity for heating with outdoor temperature $T_i = +7 \degree C$	Pdh	[kW]	35,6
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	39,7
Declared capacity for heating with outdoor temperature Ti = Bivalent temperature	Pdh	[kW]	87,5
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	81,1
For air-to-water heat pumps: $T_j = -15 \text{ °C}$ (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			0,00
Declared coefficient of performance with outdoor temperature Ti = -7 °C	COPd	-	2.20
Declared coefficient of performance with outdoor temperature $T_j = +2 \degree C$	COPd	-	2,95
Declared coefficient of performance with outdoor temperature $T_j = 2^{\circ}$	COPd	_	3,81
Declared coefficient of performance with outdoor temperature $T_j = +12 \degree C$	COPd		4.27
Declared coefficient of performance with outdoor temperature Ti = Bivalent temperature	COPd		2,20
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd		2.01
For air-to-water heat pumps: $T_{j} = -15$ °C (if TOL < -20 °C)	COPd		-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode		[0]	10
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	0,192
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater		[]	0,010
Nominal heating capacity	Psup	[kW]	17,8
Other items		[]	,0
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, autoors	LWA	[dB(A)]	92
Annual electricity consumption for heating	QHE	[kW/h]	68681
Outdoor heat exchanger		[troug	
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	56916
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-
(1) The peremeters are declared for application at madium temperature, succept in the ages of law t			



AW-HT /D /CA-E /04 LOW TEMPERATURE ap			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
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		fixed
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	93
Seasonal space heating energy efficiency	ηs	[%]	124
Seasonal space heating energy efficiency class	•		A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Ti		
Declared capacity for heating with outdoor temperature Ti = -7 °C	Pdh	[kW]	81,9
Declared capacity for heating with outdoor temperature $T_i = +2 \degree C$	Pdh	[kW]	49.9
Declared capacity for heating with outdoor temperature $T_j = +7 \degree C$	Pdh	[kW]	35.8
Declared capacity for heating with outdoor temperature $Tj = +12$ °C	Pdh	[kW]	39,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	81.9
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	75.2
For air-to-water heat pumps: $T_i = -15$ °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			0,30
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	2,64
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd		3.21
Declared coefficient of performance with outdoor temperature $T_j = +7 \degree C$	COPd	-	3,80
Declared coefficient of performance with outdoor temperature $T_j = +7$ °C	COPd		4,18
Declared coefficient of performance with outdoor temperature Tj = Ti2 C	COPd	-	2.64
Declared coefficient of performance with outdoor temperature Tj = Divalent temperature	COPd		2,48
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	COPd		-
For air-to-water HP : Operation limit temperature		[°C]	-20
Heating water operating limit temperature at TOL	WTOL		45
Power consumption in modes other than active mode	WIGE	[0]	40
Off mode	POFF	[kW]	0.000
Thermostat-off mode	PTO	[kW]	0.435
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater	FOR	[KVV]	0,315
Nominal heating capacity	Psup	[kW]	17,4
Other items	1 Sup	[[(14]	т,т
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, indoors	LWA	[dB(A)]	92
Annual electricity consumption for heating	QHE	[kW/h]	60309
Outdoor heat exchanger		[[[[]]]]	00003
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	56916
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-
i si water rear pumpe. Rated printe of water now rate, outdoor near exchanger	Gauconomic Source	furvul	



AW-HT /D /CA-E /0 MEDIUM TEMPERATURE			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	99
Seasonal space heating energy efficiency		[%]	116
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]	87,5
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	53,3
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	35,6
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	39,7
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	87,5
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	81,1
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	-	2,20
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	2,95
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	3,81
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,27
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,20
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,01
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode		- 1 - 1	
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,192
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	17,8
Other items		- 1	
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	92
Annual electricity consumption for heating	QHE	[kW/h]	68681
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	56916
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-
Outdoor heat exchanger For air-to-water HP: Rated air flow rate, outdoors	Qairsource Qwater/brine source	[m³/h]	56916 -



Air-Co-water heat pump: yes / no yes Other owater heat pump: yes / no no Low-temperature heat pump: yes / no no Low-temperature heat pump: yes / no no Low-temperature heat pump: yes / no no Mine durit with heat pump: yes / no no Temperature application (1) (low 35°C medium 55°C) Low 35°C Water for water fixed / variable fixed Temperature application (1) (low 35°C medium 55°C) Low 35°C Water for water active addition of the set of variable fixed fixed Seasonal space heating energy efficiency ge no - Seasonal space heating energy efficiency class - - A+ Declared capacity for heating with outdoor temperature 1 = -7 °C Pdh [WV] filds Declared capacity for heating with outdoor temperature 1 = +7 °C Pdh [WV] filds Declared capacity for heating with outdoor temperature 1 = +7 °C Pdh [WV] filds Declared capacity for heating with outdoor temperature 1 = +7 °C Pdh	AW-HT /CA-E /05 LOW TEMPERATURE ap			
Inter-Invalter heat pump: yes / no no User-temperature heat pump: yes / no no With supplementary heater: yes / no no Mixed unit with heat pump: yes / no no Temperature application (1) (0x/35°C/ medium 55°C) low 35°C Water flow rate fixed / variable fixed / variable Current preventure application (1) average / warmer / colder average Rated heat output at Tdssignh Prated = Pdesignh [WI] 117 Seasonal space heating onergy efficiency (lass - - A+ Declared capacity for heating with outdoor temperature Ti = +7 °C Pdn [WV] 103 Declared capacity for heating with outdoor temperature Ti = +7 °C Pdn [WV] 62.9 Declared capacity for heating with outdoor temperature Ti = +7 °C Pdn [WV] 103 Declared capacity for heating with outdoor temperature Ti = +7 °C Pdn [WV] 103 Declared capacity for heating with outdoor temperature Ti = +7 °C Pdn [WV] 103 Declared capacity for heating with outdoor temperature Ti = +7 °C <td< th=""><th>Air-to-water heat pump:</th><th>yes / no</th><th></th><th>yes</th></td<>	Air-to-water heat pump:	yes / no		yes
Low-temperature heat pump: yes / no no 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 fixed Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder average Rated heat output at Tdesignh Prated = Pdesignh [KW] 117 Seasonal space heating energy efficiency class - A+ Declared capacity for heating with outdoor temperature 10 = -7 °C Pdh [KW] 103 Declared capacity for heating with outdoor temperature 11 = -7 °C Pdh [KW] 62.9 Declared capacity for heating with outdoor temperature 11 = -7 °C Pdh [KW] 63.9 Declared capacity for heating with outdoor temperature 11 = -7 °C Pdh [KW] 63.9 Declared capacity for heating with outdoor temperature 11 = -7 °C Pdh [KW] 63.9 Declared capacity for heating with outdoor temperature 11 = -7 °C<	Water-to-water heat pump:	yes / no		no
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 / variable Outlet temperature fixed / variable fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / varmer / colder average Rated heat output at Tdesignh Prated = Pdesignh [KW] 117 Seasonal space heating energy efficiency average - - Beclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 11 - - Declared capacity for heating with outdoor temperature 11 = -7 °C Pdh [KW] 103 Declared capacity for heating with outdoor temperature 11 = +2 °C Pdh [KW] 46.5 Declared capacity for heating with outdoor temperature 11 = +2 °C Pdh [KW] 103 Declared capacity for heating with outdoor temperature 11 = +7 °C Pdh [KW] 03 Declared capacity for heating with outdoor temperature 11 = +2 °C Pdh [KW] 03	Brine-to-water heat pump:	yes / no		no
Itiked unit with heat pump: yes / no no Temperature application (1) (low 35°C) medium 55°C) low 35°C Water flow rota fixed / variable fixed Outlet temperature fixed / variable fixed Parameters are declared for average/warmer/colder climate conditions (1) average / variable fixed Rated heat output at Tdesignh Proted = Pdesignh [KW] 117 Seasonal space heating energy efficiency class - A+ Declared capacity for heating with outdoor temperature 10 °C and outdoor temperature 17 Declared capacity for heating with outdoor temperature 1 = - 7 °C Pdh [KW] 62.9 Declared capacity for heating with outdoor temperature 1 = + 1 ° °C Pdh [KW] 63.1 Declared capacity for heating with outdoor temperature 1 = + 1 ° °C Pdh [KW] 63.9 Declared capacity for heating with outdoor temperature 1 = = + 1 ° °C Pdh [KW] 61.3 Declared capacity for heating with outdoor temperature 1 = = 0 peration limit temperature Pdh [KW] 61.3 Declared capacity for heating with outdoor temperature 1 = 0 Poration limit temperature Pdh [KW] -	Low-temperature heat pump:	yes / no		no
Temperature application (1) [tow 35°C medium 55°C) [bw 35°C medium 55°C) Water flow rate fixed / variable fixed Outlet temperature fixed / variable fixed Parameters are declared for average/warmer/colder climate conditions (1) average average/warmer/colder average Rated heat output at Tdesignh Prated = Pdesignh [W] 117 Seasonal space heating energy efficiency is is - Beclared capacity for heating with outdoor temperature 10 = -7 °C Pdh [W] 103 Declared capacity for heating with outdoor temperature 11 = -7 °C Pdh [W] 103 Declared capacity for heating with outdoor temperature 11 = -7 °C Pdh [W] 62,9 Declared capacity for heating with outdoor temperature 11 = 2°C Pdh [W] 61,3 Declared capacity for heating with outdoor temperature 11 = 0°C Pdh [W] 61,3 Declared capacity for heating with outdoor temperature 11 = 0°C Pdh [W] - Declared capacity for heating with outdoor temperature 11 = 0°C Pdh [W] - Declared capacity for heating with outdoor temperatur	With supplementary heater:	yes / no		no
Water flow rateInved / variablefixed / variablefixedOutlet temperatureIfxed / variablefixedOutlet temperatureIfxed / variablefixedParameters are declared for average/warmer/colder climate conditions (1)eaverage / variableifxedParameters are declared for average/warmer/colder climate conditions (1)eaverage / variableifxedParameters are declared for average/warmer/colder climate conditions (1)eaverage / variableifxedParameters are declared for average/warmer/colder climate conditions (1)eaverage / variableifxedPassoon Ispace heating energy efficiency classA+Declared capacity for heating for part load at indoor temperature 7] = -7 °CPdh[KW]103Declared capacity for heating with outdoor temperature 7] = +7 °CPdh[KW]62,9Declared capacity for heating with outdoor temperature 7] = +12 °CPdh[KW]63,3Declared capacity for heating with outdoor temperature 7] = +12 °CPdh[KW]95,7Declared capacity for heating with outdoor temperature 7]Pderation limit temperaturePdh[KW]95,7Declared capacity for heating with outdoor temperature 7] = +12 °CPdh[KW]95,7Declared coefficient of performance with outdoor temperature 7] = +7 °CCOPd-0,90Declared coefficient of performance with outdoor temperature 7] = +7 °CCOPd-2,77Declared coefficient of performance with outdoor temperature 7] = +7 °CCOPd-2,77Declared coeffici	Mixed unit with heat pump:	yes / no		no
Outlet temperature fixed / variable fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder average Rated heat output at Tdesignh Prated = Pdesignh [[W] 117 Seasonal space heating energy efficiency ns [%] 131 Seasonal space heating energy efficiency class - A+ Declared capacity for heating for part load at indoor temperature 0° C and outdoor temperature Tj Pdh [[W] 103 Declared capacity for heating with outdoor temperature Tj = + 2° C Pdh [[W] 62.9 Declared capacity for heating with outdoor temperature Tj = + 1° C Pdh [[W] 63.1 Declared capacity for heating with outdoor temperature Tj = + 1° C Pdh [[W] 65.1 Declared capacity for heating with outdoor temperature Tj = bivalent temperature Pdh [[W] 67.3 Declared capacity for heating with outdoor temperature Tj = 0° C Pdh [[W] 67.7 Declared capacity for heating with outdoor temperature Tj = 0° C CoPd - 2.77 Declared capacity for heating with outdoor temperature Tj = -7° C COPd <td< td=""><td>Temperature application (1)</td><td>(low 35°C/ medium 55°C)</td><td></td><td>low 35°C</td></td<>	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	Water flow rate	fixed / variable		fixed
Rated heat output at Tdesignh Prated = Pdesignh [KW] 117 Seasonal space heating energy efficiency class - - A+ Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature TJ - A+ Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [kW] 103 Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] 45,5 Declared capacity for heating with outdoor temperature Tj = 14 °C Pdh [kW] 103 Declared capacity for heating with outdoor temperature Tj = Deration limit temperature Pdh [kW] 45,5 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 103 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 103 Declared coefficient of performance with outdoor temperature Tj = -15 °C (f TOL < -20 °C)	Outlet temperature	fixed / variable		fixed
Seasonal space heating energy efficiency ns [%] 131 Seasonal space heating energy efficiency class - - A+ Declared capacity for heating with outdoor temperature 1] = - 7 °C Pdh [kW] 103 Declared capacity for heating with outdoor temperature 1] = - 7 °C Pdh [kW] 62.9 Declared capacity for heating with outdoor temperature 1] = +7 °C Pdh [kW] 62.9 Declared capacity for heating with outdoor temperature 1] = +7 °C Pdh [kW] 62.9 Declared capacity for heating with outdoor temperature 1] = +7 °C Pdh [kW] 62.9 Declared capacity for heating with outdoor temperature 1] = +12 °C Pdh [kW] 103 Declared capacity for heating with outdoor temperature 1] = 0peration limit temperature Pdh [kW] 103 Declared capacity for heating with outdoor temperature 1] = -7 °C Cdh - 0.90 Declared capacity for heating with outdoor temperature 1] = -7 °C CdPd - 2.77 Declared capacity for heating with outdoor temperature 1] = -7 °C COPd - 0.90 Declared capificient of performance with outdoor temperatu	Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Geasonal space heating energy efficiency class - A+ Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj - Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [KW] 103 Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [KW] 62.9 Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [KW] 45.5 Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [KW] 45.5 Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [KW] 45.5 Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [KW] 45.5 Declared capacity for heating with outdoor temperature Tj = +0 °C (if TOL < - 20 °C)	Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	117
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj Pdh [kW] 103 Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] 103 Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] 45.5 Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] 45.5 Declared capacity for heating with outdoor temperature Tj = N2 °C Pdh [kW] 45.5 Declared capacity for heating with outdoor temperature Tj = N2 °C Pdh [kW] 45.5 Declared capacity for heating with outdoor temperature Tj = N2 °C Pdh [kW] 45.5 Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] 103 Declared capacity for heating with outdoor temperature Tj = Overation limit temperature Pdh [kW] 103 Declared capacity for heating with outdoor temperature Tj = For (if TOL < - 20 °C)	Seasonal space heating energy efficiency		[%]	131
Declared capacity for heating with outdoor temperature $T_1 = -7$ °CPdh[kW]103Declared capacity for heating with outdoor temperature $T_1 = +2$ °CPdh[kW]62.9Declared capacity for heating with outdoor temperature $T_1 = +2$ °CPdh[kW]62.9Declared capacity for heating with outdoor temperature $T_1 = +12$ °CPdh[kW]62.9Declared capacity for heating with outdoor temperature $T_1 = +12$ °CPdh[kW]63.3Declared capacity for heating with outdoor temperature $T_1 = 0$ peration limit temperaturePdh[kW]103Declared capacity for heating with outdoor temperature $T_1 = 0$ peration limit temperaturePdh[kW]103Declared capacity for heating with outdoor temperature $T_1 = 0$ peration limit temperaturePdh[kW]95.7For air-to-water heat pumps: $T_1 = -15$ °C (if TOL < - 20 °C)	Seasonal space heating energy efficiency class	-	-	A+
Declared capacity for heating with outdoor temperature $T_{j} = +2 \ ^{\circ}C$ Pdh[kW]62.9Declared capacity for heating with outdoor temperature $T_{j} = +2 \ ^{\circ}C$ Pdh[kW]45.5Declared capacity for heating with outdoor temperature $T_{j} = +12 \ ^{\circ}C$ Pdh[kW]45.5Declared capacity for heating with outdoor temperature $T_{j} = +12 \ ^{\circ}C$ Pdh[kW]103Declared capacity for heating with outdoor temperature $T_{j} = 0$ peration limit temperaturePdh[kW]95.7Declared capacity for heating with outdoor temperature $T_{j} = 0$ peration limit temperaturePdh[kW]9.7Declared capacity for heating with outdoor temperature $T_{j} = 0$ peration limit temperaturePdh[kW]9.7Declared coefficient of performance or primary energy ratio for part load at indoor temperature $T_{j} = -0 \ ^{\circ}C$ 0.900-2.77Declared coefficient of performance with outdoor temperature $T_{j} = -7 \ ^{\circ}C$ COPd-2.77Declared coefficient of performance with outdoor temperature $T_{j} = +7 \ ^{\circ}C$ COPd-4.40Declared coefficient of performance with outdoor temperature $T_{j} = +7 \ ^{\circ}C$ COPd-2.77Declared coefficient of performance with outdoor temperature $T_{j} = +7 \ ^{\circ}C$ COPd-2.77Declared coefficient of performance with outdoor temperature $T_{j} = +2 \ ^{\circ}C$ COPd-4.40Declared coefficient of performance with outdoor temperature $T_{j} = +2 \ ^{\circ}C$ COPd-2.77Declared coefficient of performance with outdoor temperature $T_{j} =$	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Tj	- 1 1	
Declared capacity for heating with outdoor temperature Tj = +7 °CPdh[kW]45,5Declared capacity for heating with outdoor temperature Tj = Bivalent temperaturePdh[kW]51,3Declared capacity for heating with outdoor temperature Tj = Bivalent temperaturePdh[kW]103Declared capacity for heating with outdoor temperature Tj = Operation limit temperaturePdh[kW]103Declared capacity for heating with outdoor temperature Tj = Operation limit temperaturePdh[kW]95,7For air-to-water heating with outdoor temperature Tj = Operation limit temperaturePdh[kW]-Bivalent temperatureCdh-0.90Declared coefficient of performance or primary energy ratio for part load at indoor temperature Tj-2,77Declared coefficient of performance with outdoor temperature Tj = + 2 °CCOPd-2,77Declared coefficient of performance with outdoor temperature Tj = + 2 °CCOPd-4,40Declared coefficient of performance with outdoor temperature Tj = + 2 °CCOPd-2,77Declared coefficient of performance with outdoor temperature Tj = + 2 °CCOPd-4,40Declared coefficient of performance with outdoor temperature Tj = + 2 °CCOPdDeclared coefficient of performance with outdoor temperature Tj = Depration limit temperatureCOPd2,77Declared coefficient of performance with outdoor temperature Tj = 0 ceration limit temperatureCOPdDeclared coefficient of performance with outdoor temperature Tj =	Declared capacity for heating with outdoor temperature Tj = - 7 °C	Pdh	[kW]	103
Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh IkWj 51.3 Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh IkWj 103 Declared capacity for heating with outdoor temperature Tj = Depration limit temperature Pdh IkWj 95.7 For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)	Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	62,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] 103 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 95.7 For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)	Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	45,5
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 95,7 For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	51,3
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)Pdh[kW]-Bivalent temperatureTbiv[°C]-7Degradation coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj-0,90Declared coefficient of performance with outdoor temperature Tj = - 7 °CCOPd-2,77Declared coefficient of performance with outdoor temperature Tj = + 7 °CCOPd-3,39Declared coefficient of performance with outdoor temperature Tj = + 7 °CCOPd-4,00Declared coefficient of performance with outdoor temperature Tj = + 12 °CCOPd-4,00Declared coefficient of performance with outdoor temperature Tj = H12 °CCOPd-4,00Declared coefficient of performance with outdoor temperature Tj = Bivalent temperatureCOPd-2,77Declared coefficient of performance with outdoor temperature Tj = Poration limit temperatureCOPd-4,00Declared coefficient of performance with outdoor temperature Tj = Depration limit temperatureCOPd-2,60For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	103
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)Pdh[kW]-Bivalent temperatureTbiv[°C]-7Degradation coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj-0,90Declared coefficient of performance with outdoor temperature Tj = - 7 °CCOPd-2,77Declared coefficient of performance with outdoor temperature Tj = + 7 °CCOPd-3,39Declared coefficient of performance with outdoor temperature Tj = + 7 °CCOPd-4,00Declared coefficient of performance with outdoor temperature Tj = + 12 °CCOPd-4,00Declared coefficient of performance with outdoor temperature Tj = H12 °CCOPd-4,00Declared coefficient of performance with outdoor temperature Tj = Bivalent temperatureCOPd-2,77Declared coefficient of performance with outdoor temperature Tj = Poration limit temperatureCOPd-4,00Declared coefficient of performance with outdoor temperature Tj = Depration limit temperatureCOPd-2,60For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	95,7
Degradation coefficient Cdh - 0.90 Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj - 0.90 Declared coefficient of performance with outdoor temperature Tj = -7 °C COPd - 2.77 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 3.39 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 4.00 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 4.40 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4.40 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 2.77 Declared coefficient of performance with outdoor temperature Tj = 0 Operation limit temperature COPd - 2.60 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2.60 For air-to-water HP : Operation limit temperature TOL [°C] -20 45 Power consumption in modes other than active mode POFF [kW] 0,000 Off mode POFF	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 - 2.77 Declared coefficient of performance with outdoor temperature Tj = -7 °C COPd - 2.77 Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 3.39 Declared coefficient of performance with outdoor temperature Tj = +1 °C COPd - 4,00 Declared coefficient of performance with outdoor temperature Tj = +1 °C COPd - 4,00 Declared coefficient of performance with outdoor temperature Tj = +1 °C COPd - 4,00 Declared coefficient of performance with outdoor temperature Tj = +1 °C COPd - 4,00 Declared coefficient of performance with outdoor temperature Tj = bivalent temperature COPd - 2,77 Declared coefficient of performance with outdoor temperature Tj = Deperation limit temperature COPd - 2,60 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 - 2,77 Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 3,39 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 4,00 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 4,00 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4,40 Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 2,60 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,60 For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Degradation coefficient	Cdh	-	0,90
Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 3,39 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 4,00 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4,40 Declared coefficient of performance with outdoor temperature Tj = bivalent temperature COPd - 2,77 Declared coefficient of performance with outdoor temperature Tj = Depration limit temperature COPd - 2,60 For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) COPd - - - For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) COPd - - - For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) COPd - - - For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) COPd - - - For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) COPd - - - - For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C) COPd - - - - - - - - - - - - - <t< th=""><th>Declared coefficient of performance or primary energy ratio for part load at indoor temperat</th><th>ure 20 °C and outdoor temperatu</th><th>re Tj</th><th></th></t<>	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 - 4,00 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4,40 Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 2,77 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,60 For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,77
Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4,40 Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 2,77 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,60 For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)	Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,39
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 2,77 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,60 For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,00
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,60 For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)	Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,40
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,77
For air-to-water HP : Operation limit temperatureTOL[°C]-20Heating water operating limit temperature at TOLWTOL[°C]45Power consumption in modes other than active modeWTOL[°C]45Off modePOFF[kW]0,000Thermostat-off modePTO[kW]0,556Standby modePSB[kW]0,315Crankcase heater modePCK[kW]0,315Supplementary heaterNominal heating capacityPsup[kW]21,2Other itemsCapacity controlfixed / variablevariableSound power level, indoorsLWA[dB(A)]-	Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,60
Heating water operating limit temperature at TOL WTOL [°C] 45 Power consumption in modes other than active mode POFF [kW] 0,000 Off mode POFF [kW] 0,556 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater Psup [kW] 21,2 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -	For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Power consumption in modes other than active mode Poil It of It of It of Off mode POFF [kW] 0,000 Thermostat-off mode PTO [kW] 0,556 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater Psup [kW] 21,2 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -	For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Off mode POFF [kW] 0,000 Thermostat-off mode PTO [kW] 0,556 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater PSup [kW] 21,2 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -	Heating water operating limit temperature at TOL	WTOL	[°C]	45
Thermostat-off mode PTO [kW] 0,556 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater PCK [kW] 0,315 Nominal heating capacity Psup [kW] 21,2 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -	Power consumption in modes other than active mode			
Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater [kW] 0,315 Nominal heating capacity Psup [kW] 21,2 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -	Off mode	POFF	[kW]	0,000
Crankcase heater mode PCK [kW] 0,315 Supplementary heater Nominal heating capacity Psup [kW] 21,2 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -	Thermostat-off mode	PTO	[kW]	0,556
Supplementary heater Nominal heating capacity Psup [kW] 21,2 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -	Standby mode	PSB	[kW]	0,315
Nominal heating capacity Psup [kW] 21,2 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -	Crankcase heater mode	PCK	[kW]	0,315
Other items fixed / variable Capacity control fixed / variable Sound power level, indoors LWA	Supplementary heater			
Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -	Nominal heating capacity	Psup	[kW]	21,2
Sound power level, indoors LWA [dB(A)] -	Other items			
	Capacity control	fixed / variable		variable
	Sound power level, indoors	LWA	[dB(A)]	-
	Sound power level, outdoors	LWA	[dB(A)]	93
Annual electricity consumption for heating QHE [kW/h] 72074	Annual electricity consumption for heating	QHE	[kW/h]	72074
Outdoor heat exchanger				
For air-to-water HP: Rated air flow rate, outdoors Qairsource [m ³ /h] 64944	For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	64944
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Qwater/brine source [m ³ /h] -	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



Air-to-water heat pump: Water-to-water heat pump: Brine-to-water heat pump: Low-temperature heat pump:	yes / no yes / no yes / no yes / no yes / no		yes no
Brine-to-water heat pump: Low-temperature heat pump:	yes / no yes / no		no
Low-temperature heat pump:	yes / no		
	,		no
With a second and the stars	ves/no		no
With supplementary heater:	J 007 H0		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	126
Seasonal space heating energy efficiency	ης	[%]	123
Seasonal space heating energy efficiency class	-	-	A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperat	ture Tj	- 1 1	
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	111
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	67,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	45,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	50,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	111
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	105
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 temperatu	ire 20 °C and outdoor temperatur	re Tj	
Declared coefficient of performance with outdoor temperature $Tj = -7$ °C	COPd	-	2,29
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,13
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,02
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,49
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,29
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,07
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,242
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	20,9
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	93
Annual electricity consumption for heating	QHE	[kW/h]	82654
Outdoor heat exchanger		· ·	
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	64944
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



AW-HT /D /CA-E /0 LOW TEMPERATURE ap			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
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		fixed
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	117
Seasonal space heating energy efficiency	ηs	[%]	131
Seasonal space heating energy efficiency class	•		A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Ti		
Declared capacity for heating with outdoor temperature $T_i = -7 \degree C$	Pdh	[kW]	103
Declared capacity for heating with outdoor temperature $T_j = +2 \text{ °C}$	Pdh	[kW]	62,9
Declared capacity for heating with outdoor temperature $T_j = +7 \degree C$	Pdh	[kW]	45.5
Declared capacity for heating with outdoor temperature $T_j = +12 \text{ °C}$	Pdh	[kW]	51,3
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	103
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	95,7
For air-to-water heat pumps: $T_i = -15$ °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			0,30
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	2.77
Declared coefficient of performance with outdoor temperature $T_j = +2 \text{ °C}$	COPd		3,39
Declared coefficient of performance with outdoor temperature $T_j = +7 \text{ °C}$	COPd		4,00
Declared coefficient of performance with outdoor temperature $T_j = +12 \degree C$	COPd		4,40
Declared coefficient of performance with outdoor temperature Tj = Fize of	COPd		2,77
Declared coefficient of performance with outdoor temperature Tj = Divalent temperature	COPd		2.60
For air-to-water heat pumps: $T_i = -15$ °C (if TOL < -20 °C)	COPd		-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL		45
Power consumption in modes other than active mode	WIOL	[0]	40
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,556
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater	FOR		0,313
Nominal heating capacity	Psup	[kW]	21.2
Other items		[]	
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, indoors	LWA	[dB(A)]	93
Annual electricity consumption for heating	QHE	[kW/h]	72074
Outdoor heat exchanger	Serie	[IZAA) II	12017
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	64944
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-
(1) The nerometers are declared for application at medium temperature, outdoor heat exchanger			



AW-HT /D /CA-E /0 MEDIUM TEMPERATURE a			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	126
Seasonal space heating energy efficiency		[%]	123
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]	111
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	67,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	45,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	50,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	111
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	105
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	-	2,29
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,13
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,02
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,49
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,29
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,07
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,242
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	20,9
Other items		· · · · · ·	
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	93
Annual electricity consumption for heating	QHE	[kW/h]	82654
Outdoor heat exchanger	· · · · · · · · · · · · · · · · · · ·		
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	64944
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



AW-HT /CA-E /060 LOW TEMPERATURE ap			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
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		fixed
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	139
Seasonal space heating energy efficiency	ηs	[%]	127
Seasonal space heating energy efficiency class	-	-	A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	iture Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	123
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	74,7
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	54,5
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	61,4
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	123
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	113
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	-	2,66
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,29
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	3,87
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,21
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,66
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,46
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode	1		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,669
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			·
Nominal heating capacity	Psup	[kW]	25,9
Other items		I	
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	94
Annual electricity consumption for heating	QHE	[kW/h]	88289
Outdoor heat exchanger	1		
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	85392
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-
(1) The perspectre are deduced for application at medium temperature, event in the case of low t			



AW-HT /CA-E /060 MEDIUM TEMPERATURE a			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	148
Seasonal space heating energy efficiency	ηs	[%]	119
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 $T_j = -7 \degree C$	Pdh	[kW]	131
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	79,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	54,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	61,0
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	131
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	122
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 temperation	ure 20 °C and outdoor temperatu	re Tj	
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,20
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,02
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	3,89
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,33
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,20
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	1,99
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,294
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	26,5
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	94
Annual electricity consumption for heating	QHE	[kW/h]	100628
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	85392
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



Ar-Io-water heat pump: yes / no yes yes yes no Brine-to-water heat pump: yes / no no no Cov-atter freater heat pump: yes / no no no With supplementary heat pump: yes / no no no With supplementary heat pump: yes / no no no With supplementary heat pump: yes / no no no With supplementary heater: yes / no no no With supplementary heater: yes / no no no Water for water heat pump: yes / no no no Outlet tomperature application (1) (for at 50° match heat pump) (kW) no Outlet tomperature application (1) average / water / variable fixed net ad 200000000000000000000000000000000000	AW-HT /D /CA-E /0604 LOW TEMPERATURE application				
Bine-lowater heat punp: yes / no no Low-temporature heat punp: yes / no no With supplementary heater: yes / no no Mixed unit with heat punp: yes / no no Temperature application (1) (0x) 35°C (medium 55°C) low 35°C Water flow rate fixed / variable fixed Outlet temperature application (1) average / warren / colder average Parameters are declared for average/warmer/colder climate conditions (1) average / warren / colder average Seasonal space heating energy efficiency ns [%] 127 Seasonal space heating energy efficiency (class - - A+ Declared capacity for heating with outdoor temperature 20°C and outdoor temperature TJ EVW 123 Declared capacity for heating with outdoor temperature TJ = -7°C Pdh [kW] 147.7 Declared capacity for heating with outdoor temperature TJ = -7°C Pdh [kW] 123 Declared capacity for heating with outdoor temperature TJ = -7°C Pdh [kW] 147.7 Declared capacity for heating with outdoor temperature TJ = -7°C Pdh <th>Air-to-water heat pump:</th> <th>yes / no</th> <th></th> <th>yes</th>	Air-to-water heat pump:	yes / no		yes	
Low-temperature heat pump: yes / no no With supplementary heater: yes / no no With supplementary heater: yes / no no Mixed unit with heat pump: yes / no no Temperature application (1) (low 35° C) low 35° C Water flow rete fixed / variable fixed / variable Outle temperature fixed / variable fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / varmer / colder average Rated heat output at Tdesignh Prated = Pdesignh [KW] 139 Seasonal space heating energy efficiency average - A+ Declared capacity for heating with outdoor temperature 0 °C and outdoor temperature 1 - - A+ Declared capacity for heating with outdoor temperature 1 = - 7 °C Pdh [KW] 74,7 Declared capacity for heating with outdoor temperature 1] = 60 paration limit temperature Pdh [KW] 61,4 Declared capacity for heating with outdoor temperature 1] = 60 paration limit temperature Pdh [KW] - Declared capacity for heating with ou	Water-to-water heat pump:	yes / no		no	
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 / variable Outlet temperature application (1) average / variable fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / varmer / colder average Rated heat output at Tdesignh Prated = Pdesignh [KW] 139 Seasonal space heating energy efficiency ns (%) 127 Seasonal space heating onergy efficiency genes - - A+ Declared capacity for heating with outdoor temperature T] = - 7 °C Pdh [KW] 123 Declared capacity for heating with outdoor temperature T] = + 2 °C Pdh [KW] 44,5 Declared capacity for heating with outdoor temperature T] = + 12 °C Pdh [KW] 123 Declared capacity for heating with outdoor temperature T] = + 12 °C Pdh [KW] 64,4 Declared capacity for heating with outdoor temperature T] = - 7 °C COPd - 0,90 <	Brine-to-water heat pump:	yes / no		no	
Native durit with hear pump: res / no no Temperature application (1) (low 35°C/ medium 55°C) low 35°C Water flow rete fixed / variable fixed / variable Outlet temperature fixed / variable fixed / variable Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder average Rate heat output at Tdesignh Pratel = Pdesignh [Wi] 139 Seasonal space heating energy efficiency ns [Yi] 127 Seasonal space heating energy efficiency class - A+ Declared capacity for heating with outdoor temperature T] = - 7 °C Pdh [Wi] 74,7 Declared capacity for heating with outdoor temperature T] = - 7 °C Pdh [Wi] 74,7 Declared capacity for heating with outdoor temperature T] = 1 * 7 °C Pdh [Wi] 74,7 Declared capacity for heating with outdoor temperature T] = 1 * 7 °C Pdh [Wi] 11,4 Declared capacity for heating with outdoor temperature T] = 0 Poration limit temperature Pdh [Wi] 11,4 Declared capacity for heating with outdoor temperature T] = 0 Poration limit temperature </td <td>Low-temperature heat pump:</td> <td>yes / no</td> <td></td> <td>no</td>	Low-temperature heat pump:	yes / no		no	
Temperature application (1) [dow 35°C) [low 35°C) Water flow rate fixed / variable fixed Outlot temperature fixed / variable fixed Parameters are declared for average/warmer/colder climate conditions (1) average average Rated heat output at 1 designh Prated = Pdesignh [kw] 139 Seasonal space heating energy efficiency ps [%d] 127 Declared capacity for heating with outdoor temperature 1 = - 7 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature 1 = +2 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature 1 = +2 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature 1 = +2 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature 1 = +2 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature 1 = -7 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature 1 = -7 °C COPd - 0.90 Declared coefficient of performance with outdoor temperature 1 = -7 °C	With supplementary heater:	yes / no		no	
Water four rateTixedTixedTixedOutlet temperaturefixed / variablefixedParameters are declared for average/warmer/colder climate conditions (1)average / warmer / colderaverageRated heat output at TdesignhPrated = Pdesignh[KW]139Seasonal space heating energy efficiencyns[Ki]127Seasonal space heating energy efficiency classA+Declared capacity for heating for part load at indoor temperature 11Declared capacity for heating with outdoor temperature 1 = - 7 °CPdh[KW]123Declared capacity for heating with outdoor temperature 1 = + 7 °CPdh[KW]64,5Declared capacity for heating with outdoor temperature 1 = + 7 °CPdh[KW]64,5Declared capacity for heating with outdoor temperature 1 = 0 peration limit temperaturePdh[KW]113Declared capacity for heating with outdoor temperature 1 = 0 peration limit temperaturePdh[KW]113Declared capacity for heating with outdoor temperature 1 = 0 peration limit temperaturePdh[KW]113Declared capacity for heating with outdoor temperature 1 = 0 peration limit temperaturePdh[KW]113Declared capacity for heating with outdoor temperature 1 = -7 °CCOPd-0.90Declared capacity for heating with outdoor temperature 1 = -7 °CCOPd-0.90Declared capacity for heating with outdoor temperature 1 = -7 °CCOPd-2.66Declared capacity for heating more with outdoor tempe	Mixed unit with heat pump:	yes / no		no	
Outlet temperature fixed / variable fixed / variable fixed Parameters are declared for average/warmer/colder climate conditions (1) average / variable average Parameters are declared for average/warmer/colder climate conditions (1) average / variable average Rated heat output at Tdesignh IVM 139 Seasonal space heating energy efficiency ns IVM 139 Seasonal space heating energy efficiency class - A+ Declared capacity for heating for part load at indoor temperature 71 = -7 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature 71 = -7 °C Pdh [kW] 74,7 Declared capacity for heating with outdoor temperature 71 = 4 °C Pdh [kW] 61,4 Declared capacity for heating with outdoor temperature 71 = 0 °C Pdh [kW] 113 Declared capacity for heating with outdoor temperature 71 = 0 °C Pdh [kW] - Declared capacity for heating with outdoor temperature 71 = 0 °C °C Pdh [kW] - Declared capacity for heating with outdoor temperature 71 = 0 °C °C COH - 0.90 <t< td=""><td>Temperature application (1)</td><td>(low 35°C/ medium 55°C)</td><td></td><td>low 35°C</td></t<>	Temperature application (1)	(low 35°C/ medium 55°C)		low 35°C	
Parameters are declared for average/warmer/colder climate conditions (1)average / warmer / colderaverageaverageRated heat output at TdesignhPrade = Pdesignh[kW]139Seasonal space heating energy efficiency classnA+Declared capacity for heating for part load at indoor temperature $20 ^{\circ}$ C and outdoor temperature 1 A+Declared capacity for heating with outdoor temperature $1 = -7 ^{\circ}$ CPdh[kW]123Declared capacity for heating with outdoor temperature $1 = -7 ^{\circ}$ CPdh[kW]74,7Declared capacity for heating with outdoor temperature $1 = +2 ^{\circ}$ CPdh[kW]61,4Declared capacity for heating with outdoor temperature $1 = +12 ^{\circ}$ CPdh[kW]123Declared capacity for heating with outdoor temperature $1 = +12 ^{\circ}$ CPdh[kW]124Declared capacity for heating with outdoor temperature $1 = +12 ^{\circ}$ CPdh[kW]123Declared capacity for heating with outdoor temperature $1 = +12 ^{\circ}$ CPdh[kW]113Er ar obvide the metature $1 = +12 ^{\circ}$ CPdh[kW]113Declared capacity for heating with outdoor temperature $1 = -7 ^{\circ}$ CCOPd2.66Declared capacity for heating with outdoor temperature $1 = -7 ^{\circ}$ CCOPd2.66Declared capacity for heating with outdoor temperature $1 = -7 ^{\circ}$ CCOPd2.66Declared capacity for heating with outdoor temperature $1 = -7 ^{\circ}$ CCOPd2.66Declared capacity for heating with outdoor temperature $1 = -7 ^{\circ}$ CCOPd2.66 <t< td=""><td></td><td>fixed / variable</td><td></td><td>fixed</td></t<>		fixed / variable		fixed	
Parameters are declared for average/warmer/colder climate conditions (1) average / warmer / colder average Rated heat output at Tdesignh [KW] 139 Reacon lapsace heating energy efficiency ns [%] 127 Seasonal space heating energy efficiency class - - A+ Declared capacity for heating for part toad at indoor temperature 20 °C and outdoor temperature 17 - A+ Declared capacity for heating with outdoor temperature 17 = -7 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature 17 = -7 °C Pdh [kW] 54.5 Declared capacity for heating with outdoor temperature 17 = +2 °C Pdh [kW] 54.5 Declared capacity for heating with outdoor temperature 17 = +12 °C Pdh [kW] 113 Declared capacity for heating with outdoor temperature 17 = Operation limit temperature Pdh [kW] 113 Broater theat pumps: 17 = -15 °C (ff TOL < -20 °C)	Outlet temperature	fixed / variable		fixed	
Rated heat output at Tdesignh Prated = Pdesignh [kW] 139 Seasonal space heating energy efficiency class - - A+ Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature TJ - A+ Declared capacity for heating with outdoor temperature TJ = - 2 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature TJ = +2 °C Pdh [kW] 54,5 Declared capacity for heating with outdoor temperature TJ = +2 °C Pdh [kW] 61,4 Declared capacity for heating with outdoor temperature TJ = 2 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature TJ = 2 °C Pdh [kW] 61,4 Declared capacity for heating with outdoor temperature TJ = 2 °C Pdh [kW] 123 Declared capacity for heating with outdoor temperature TJ = 2 °C Pdh [kW] 13 Por airt-owate neat pumps: TJ = -15 °C (if TOL < -2 °C)	•	average / warmer / colder		average	
Seasonal space heating energy efficiency ns (%) 127 Seasonal space heating energy efficiency class - A Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh (kW) 123 Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh (kW) 74.7 Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh (kW) 54.5 Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh (kW) 54.5 Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh (kW) 61.4 Declared capacity for heating with outdoor temperature Tj = Deration limit temperature Pdh (kW) 113 Declared capacity for heating with outdoor temperature Tj = Deration limit temperature Pdh (kW) - Bivalent temperature Toiv (°C) - - 0.90 Declared coefficient of performance with outdoor temperature Tj = -7 °C COPd - 2.86 Declared coefficient of performance with outdoor temperature Tj = -7 °C COPd - 2.86 Declared coefficient of performance with outdoor temp		<u> </u>	[kW]	•	
Seasonal space heating energy efficiency class - - A+ Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj - - A+ Declared capacity for heating with outdoor temperature Tj = -7 °C Pdh [KW] 123 Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [KW] 74.7 Declared capacity for heating with outdoor temperature Tj = +1 °C Pdh [KW] 61.4 Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature Pdh [KW] 113 Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature Pdh [KW] 113 Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature Pdh [KW] 113 Declared capacity for heating with outdoor temperature Tj = 0 peration limit temperature 20 °C and outdoor temperature Tj - - 0.90 Bivalent temperature C (ff TOL < - 20 °C)					
Declared capacity for heating for part load at indoor temperature 1j Path [KW] 123 Declared capacity for heating with outdoor temperature 1j = -7 °C Pdh [KW] 123 Declared capacity for heating with outdoor temperature 1j = +2 °C Pdh [KW] 74,7 Declared capacity for heating with outdoor temperature 1j = +2 °C Pdh [KW] 54,5 Declared capacity for heating with outdoor temperature 1j = +12 °C Pdh [KW] 61,4 Declared capacity for heating with outdoor temperature 1j = 0peration limit temperature Pdh [KW] 123 Declared capacity for heating with outdoor temperature 1j = 0peration limit temperature Pdh [KW] 113 Declared capacity for heating with outdoor temperature 1j = 0peration limit temperature 20 °C and outdoor temperature 1j - 0,90 Declared coefficient of performance with outdoor temperature 1j = -7 °C COPd - 2,66 Declared coefficient of performance with outdoor temperature 1j = +2 °C COPd - 2,66 Declared coefficient of performance with outdoor temperature 1j = +7 °C COPd - 2,66 Declared coefficient of performance with outdoor temperature 1j = +7 °C COPd		-			
Declared capacity for heating with outdoor temperature $T_{j} = -7$ °CPdh[kW]123Declared capacity for heating with outdoor temperature $T_{j} = +7$ °CPdh[kW]74,7Declared capacity for heating with outdoor temperature $T_{j} = +7$ °CPdh[kW]54,5Declared capacity for heating with outdoor temperature $T_{j} = +7$ °CPdh[kW]61,4Declared capacity for heating with outdoor temperature $T_{j} = +7$ °CPdh[kW]123Declared capacity for heating with outdoor temperature $T_{j} = 0$ peration limit temperaturePdh[kW]113For air-to-water heat pumps: $T_{j} = -15$ °C (if TOL < -20 °C)Pdh[kW]-Bivalent temperatureCdn0,9000Declared coefficient of performance or primary energy ratio for part load at indoor temperature T_{j} -2,66Declared coefficient of performance with outdoor temperature $T_{j} = -7$ °CCOPd-2,26Declared coefficient of performance with outdoor temperature $T_{j} = -7$ °CCOPd-3,29Declared coefficient of performance with outdoor temperature $T_{j} = -7$ °CCOPd-2,66Declared coefficient of performance with outdoor temperature $T_{j} = -7$ °CCOPd-2,66Declared coefficient of performance with outdoor temperature $T_{j} = -7$ °CCOPd-2,66Declared coefficient of performance with outdoor temperature $T_{j} = -7$ °CCOPd-2,66Declared coefficient of performance with outdoor temperature $T_{j} = -7$ °CCOPd2,66<		ature Ti			
Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] 74.7 Declared capacity for heating with outdoor temperature Tj = +2 °C Pdh [kW] 54.5 Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh [kW] 61.4 Declared capacity for heating with outdoor temperature Tj = Deration limit temperature Pdh [kW] 123 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 113 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] - Bivalent temperature Cdn Cdn - 0.90 Declared coefficient of performance or primary energy ratio for part load at indoor temperature Tj - 0.90 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 2.66 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 3.87 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4.21 Declared coefficient of performance with outdoor temperature Tj = 0 cor °C COPd -			[kW]	123	
Declared capacity for heating with outdoor temperature Tj = +7 °C Pdh [kW] 54,5 Declared capacity for heating with outdoor temperature Tj = 12 °C Pdh [kW] 61,4 Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] 123 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 123 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 123 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 123 Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj 0.90 Declared coefficient of performance with outdoor temperature Tj = -7 °C COPd - 2.66 Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 3.87 Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 4.21 Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 4.21 Declared coefficient of performance with outdoor temperature Tj = Operati					
Declared capacity for heating with outdoor temperature Tj = +12 °C Pdh IkWj 61,4 Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh IkWj 123 Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh IkWj 113 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh IkWj - Bivalent temperature Tbiv [°C] -7 Degradation coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj 0,90 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 3,29 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 3,29 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 4,26 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 2,66		· •		,	
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature Pdh [kW] 123 Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 113 For air-to-water heat pumps: Tj = -15 °C (if TOL <- 20 °C)				-)-	
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature Pdh [kW] 113 For air-to-water heat pumps: Tj = -15 °C (ff TOL < - 20 °C)				,	
For air-to-water heat pumps: Tj = -15 °C (ff TOL < -20 °C)					
Bivalent temperature Tbiv [°C] -7 Degradation coefficient Cdh - 0,90 Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj - 2,66 Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 3,29 Declared coefficient of performance with outdoor temperature Tj = +1 °C COPd - 3,87 Declared coefficient of performance with outdoor temperature Tj = +1 °C COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,66 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,66 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,46 For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)				-	
Degradation coefficient Cdh - 0,90 Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj					
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj 2.66 Declared coefficient of performance with outdoor temperature Tj = -7 °C COPd - 2.66 Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 3.29 Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 3.87 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 4.21 Declared coefficient of performance with outdoor temperature Tj = +1 °C COPd - 4.21 Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 2.66 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2.66 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2.46 For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)					
Declared coefficient of performance with outdoor temperature Tj = -7 °C COPd - 2,66 Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 3,29 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 3,87 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = bivalent temperature COPd - 2,46 For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)				0,90	
Declared coefficient of performance with outdoor temperature Tj = +2 °C COPd - 3,29 Declared coefficient of performance with outdoor temperature Tj = +7 °C COPd - 3,87 Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = NT2 °C COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = NT2 °C COPd - 2,66 Declared coefficient of performance with outdoor temperature Tj = NT2 °C COPd - 2,46 For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)				2.66	
Declared coefficient of performance with outdoor temperature Tj = +7 °CCOPd-3,87Declared coefficient of performance with outdoor temperature Tj = +12 °CCOPd-4,21Declared coefficient of performance with outdoor temperature Tj = Bivalent temperatureCOPd-2,66Declared coefficient of performance with outdoor temperature Tj = Operation limit temperatureCOPd-2,66Declared coefficient of performance with outdoor temperature Tj = Operation limit temperatureCOPd-2,46For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)				,	
Declared coefficient of performance with outdoor temperature Tj = +12 °C COPd - 4,21 Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 2,66 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,46 For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)				,	
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature COPd - 2,66 Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,46 For air-to-water heat pumps: Tj = -15 °C (if TOL < - 20 °C)			-	,	
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature COPd - 2,46 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) COPd - - For air-to-water HP : Operation limit temperature TOL [°C] -20 Heating water operating limit temperature at TOL WTOL [°C] 45 Power consumption in modes other than active mode WTOL [°C] 45 Off mode POFF [kW] 0,000 Thermostat-off mode PTO [kW] 0,669 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater Variable Psup [kW] 25,9 Other items fixed / variable variable variable Sound power level, indoors LWA [dB(A)] -				,	
For air-to-water HP : Operation limit temperature TOL [°C] -20 Heating water operating limit temperature at TOL WTOL [°C] 45 Power consumption in modes other than active mode (WTOL [°C] 45 Off mode POFF [kW] 0,000 Thermostat-off mode PTO [kW] 0,669 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater Nominal heating capacity Psup [kW] 25,9 Other items Capacity control fixed / variable variable variable Sound power level, indoors LWA [dB(A)] -				, -	
Heating water operating limit temperature at TOL WTOL [°C] 45 Power consumption in modes other than active mode POFF [kW] 0,000 Off mode POFF [kW] 0,669 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater PSup [kW] 25,9 Other items fixed / variable variable variable Sound power level, indoors LWA [dB(A)] -					
Power consumption in modes other than active mode POFF [kW] 0,000 Off mode POFF [kW] 0,669 Thermostat-off mode PTO [kW] 0,315 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater Psup [kW] 25,9 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -		-			
Off mode POFF [kW] 0,000 Thermostat-off mode PTO [kW] 0,669 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater PCK [kW] 0,315 Nominal heating capacity Psup [kW] 25,9 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -		WIOL	[°C]	45	
Thermostat-off mode PTO [kW] 0,669 Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater PCK [kW] 0,315 Nominal heating capacity Psup [kW] 25,9 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -		- DOEE		0.000	
Standby mode PSB [kW] 0,315 Crankcase heater mode PCK [kW] 0,315 Supplementary heater PSup [kW] 0,315 Nominal heating capacity Psup [kW] 25,9 Other items Examplementary level, indoors fixed / variable variable Sound power level, indoors LWA [dB(A)] -					
Crankcase heater mode PCK [kW] 0,315 Supplementary heater Nominal heating capacity Psup [kW] 25,9 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -				,	
Supplementary heater Psup [kW] 25,9 Other items Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -		_			
Nominal heating capacity Psup [kW] 25,9 Other items Example		PCK	[kW]	0,315	
Other items fixed / variable Capacity control fixed / variable Sound power level, indoors LWA [dB(A)] -			1		
Capacity control fixed / variable variable Sound power level, indoors LWA [dB(A)] -		Psup	[kW]	25,9	
Sound power level, indoors LWA [dB(A)] -					
				variable	
			//	-	
	Sound power level, outdoors	LWA	[dB(A)]	94	
Annual electricity consumption for heating QHE [kW/h] 88289		QHE	[kW/h]	88289	
Outdoor heat exchanger					
For air-to-water HP: Rated air flow rate, outdoors Qairsource [m³/h] 85392				85392	
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Qwater/brine source [m ³ /h] -	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-	



AW-HT /D /CA-E /0 MEDIUM TEMPERATURE a			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	148
Seasonal space heating energy efficiency		[%]	119
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]	131
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	79,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	54,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	61,0
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	131
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	122
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	-	2,20
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,02
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	3,89
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,33
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,20
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	1,99
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,294
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	26,5
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	94
Annual electricity consumption for heating	QHE	[kW/h]	100628
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	85392
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



AW-HT /D /LN-CA-E / LOW TEMPERATURE ap			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
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		fixed
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	93
Seasonal space heating energy efficiency	ηs	[%]	124
Seasonal space heating energy efficiency class	-		A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Tj	1	
Declared capacity for heating with outdoor temperature $Tj = -7$ °C	Pdh	[kW]	81,9
Declared capacity for heating with outdoor temperature $Tj = +2 \degree C$	Pdh	[kW]	49,9
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	35,8
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	39,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	81,9
Declared capacity for heating with outdoor temperature Ti = Operation limit temperature	Pdh	[kW]	75,2
For air-to-water heat pumps: $Ti = -15 \degree C$ (if TOL < $-20 \degree C$)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[0°]	-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	e Tj	,
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,64
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,21
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	3,80
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,18
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,64
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,48
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode	ł		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	РТО	[kW]	0,435
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	17,4
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	90
Annual electricity consumption for heating	QHE	[kW/h]	60309
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors			
	Qairsource	[m³/h]	56916



AW-HT /D /LN-CA-E / MEDIUM TEMPERATURE :			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	99
Seasonal space heating energy efficiency		[%]	116
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]	87,5
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	53,3
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	35,6
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	39,7
Declared capacity for heating with outdoor temperature Ti = Bivalent temperature	Pdh	[kW]	87,5
Declared capacity for heating with outdoor temperature Ti = Operation limit temperature	Pdh	[kW]	81,1
For air-to-water heat pumps: $T_j = -15 \degree C$ (if TOL < $-20 \degree C$)	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 $T_j = -7 \degree C$	COPd		2,20
Declared coefficient of performance with outdoor temperature Ti = +2 °C	COPd	-	2,95
Declared coefficient of performance with outdoor temperature Ti = +7 °C	COPd	-	3,81
Declared coefficient of performance with outdoor temperature Ti = +12 °C	COPd	-	4,27
Declared coefficient of performance with outdoor temperature Ti = Bivalent temperature	COPd	-	2,20
Declared coefficient of performance with outdoor temperature Ti = Operation limit temperature	COPd	-	2,01
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL		45
Power consumption in modes other than active mode			-
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0.192
Standby mode	PSB	[kW]	0.315
Crankcase heater mode	PCK	[kW]	0.315
Supplementary heater			- ,
Nominal heating capacity	Psup	[kW]	17,8
Other items			,
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	90
Annual electricity consumption for heating	QHE	[kW/h]	68681
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	56916
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-
	2	L	



AW-HT /LN-CA-E /0 LOW TEMPERATURE ap			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
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		fixed
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	93
Seasonal space heating energy efficiency		[%]	124
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]	81,9
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	49,9
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	35,8
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	39,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	81,9
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	75,2
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 temperat	ure 20 °C and outdoor temperatu	re Tj	
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,64
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,21
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	3,80
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,18
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,64
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,48
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,435
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	17,4
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	90
Annual electricity consumption for heating	QHE	[kW/h]	60309
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	56916
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



Air-to-water heat pump: Water-to-water heat pump:	yes / no	1	
Water-to-water heat pump:			yes
	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	99
Seasonal space heating energy efficiency	ης	[%]	116
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]	87,5
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	53,3
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	35,6
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	39,7
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	87,5
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	81,1
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	ture 20 °C and outdoor temperatur	re Tj	
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,20
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	2,95
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	3,81
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,27
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,20
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,01
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,192
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	17,8
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	90
Annual electricity consumption for heating	QHE	[kW/h]	68681
Outdoor heat exchanger	•		
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	56916
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



AW-HT /D /LN-CA-E / LOW TEMPERATURE ap			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
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		fixed
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	117
Seasonal space heating energy efficiency	ns	[%]	131
Seasonal space heating energy efficiency class	-		A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ture Tj		
Declared capacity for heating with outdoor temperature $T_j = -7$ °C	Pdh	[kW]	103
Declared capacity for heating with outdoor temperature $Tj = +2 \degree C$	Pdh	[kW]	62,9
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	45,5
Declared capacity for heating with outdoor temperature $T_j = +12 \degree C$	Pdh	[kW]	51,3
Declared capacity for heating with outdoor temperature Ti = Bivalent temperature	Pdh	[kW]	103
Declared capacity for heating with outdoor temperature Ti = Operation limit temperature	Pdh	[kW]	95,7
For air-to-water heat pumps: Ti = – 15 °C (if TOL < – 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[00]	-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	-	2,77
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,39
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,00
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,40
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,77
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,60
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,556
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	21,2
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	90
Annual electricity consumption for heating	QHE	[kW/h]	72074
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	64944
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



AW-HT /D /LN-CA-E / MEDIUM TEMPERATURE a			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	126
Seasonal space heating energy efficiency	ηs	[%]	123
Seasonal space heating energy efficiency class	-		A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	iture Tj		
Declared capacity for heating with outdoor temperature $Tj = -7$ °C	Pdh	[kW]	111
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	67,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	45,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	50,9
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	111
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	105
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	-	2,29
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,13
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,02
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,49
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,29
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,07
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,242
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater		· · ·	
Nominal heating capacity	Psup	[kW]	20,9
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	90
Annual electricity consumption for heating	QHE	[kW/h]	82654
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	64944
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



AW-HT /LN-CA-E /0 LOW TEMPERATURE ap			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
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		fixed
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	117
Seasonal space heating energy efficiency		[%]	131
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]	103
Declared capacity for heating with outdoor temperature $T_j = +2 \degree C$	Pdh	[kW]	62,9
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	45,5
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	51,3
Declared capacity for heating with outdoor temperature Ti = Bivalent temperature	Pdh	[kW]	103
Declared capacity for heating with outdoor temperature Ti = Operation limit temperature	Pdh	[kW]	95,7
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 temperatur	re Tj	
Declared coefficient of performance with outdoor temperature Tj = - 7 °C	COPd	-	2,77
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,39
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,00
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,40
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,77
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,60
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	РТО	[kW]	0,556
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater	ł		
Nominal heating capacity	Psup	[kW]	21,2
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	90
Annual electricity consumption for heating	QHE	[kW/h]	72074
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	64944
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-
(1) The permeters are deduced for explication of modium temperature, event in the percent of the second flow i			



AW-HT /LN-CA-E /0 MEDIUM TEMPERATURE a			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	126
Seasonal space heating energy efficiency		[%]	123
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]	111
Declared capacity for heating with outdoor temperature $T_j = +2 \degree C$	Pdh	[kW]	67,8
Declared capacity for heating with outdoor temperature $T_j = +7 \degree C$	Pdh	[kW]	45,1
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	50,9
Declared capacity for heating with outdoor temperature Ti = Bivalent temperature	Pdh	[kW]	111
Declared capacity for heating with outdoor temperature Ti = Operation limit temperature	Pdh	[kW]	105
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	-	2,29
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,13
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	4,02
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,49
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,29
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,07
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,242
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	20,9
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	90
Annual electricity consumption for heating	QHE	[kW/h]	82654
Outdoor heat exchanger	1		
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	64944
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-
(1) The permeters are deduced for application at modium temperature, event in the cases of low t			



AW-HT /D /LN-CA-E / LOW TEMPERATURE ap			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
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		fixed
Parameters are declared for average/warmer/colder climate conditions (1)	average / warmer / colder		average
Rated heat output at Tdesignh	Prated = Pdesignh	[kW]	139
Seasonal space heating energy efficiency	 ηs	[%]	127
Seasonal space heating energy efficiency class	-		A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	iture Tj		
Declared capacity for heating with outdoor temperature $T_i = -7$ °C	Pdh	[kW]	123
Declared capacity for heating with outdoor temperature $Tj = +2 \degree C$	Pdh	[kW]	74,7
Declared capacity for heating with outdoor temperature $Tj = +7 \degree C$	Pdh	[kW]	54,5
Declared capacity for heating with outdoor temperature $T_i = +12 \degree C$	Pdh	[kW]	61,4
Declared capacity for heating with outdoor temperature Ti = Bivalent temperature	Pdh	[kW]	123
Declared capacity for heating with outdoor temperature Ti = Operation limit temperature	Pdh	[kW]	113
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[00]	-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	e Tj	·
Declared coefficient of performance with outdoor temperature Tj = -7 °C	COPd	-	2,66
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,29
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	3,87
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,21
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,66
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,46
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,669
Standby mode	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	25,9
Other items			
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	91
Annual electricity consumption for heating	QHE	[kW/h]	88289
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	85392



AW-HT /D /LN-CA-E MEDIUM TEMPERATURE			
Air-to-water heat pump:	yes / no		yes
Water-to-water heat pump:	yes / no		no
Brine-to-water heat pump:	yes / no		no
Low-temperature heat pump:	yes / no		no
With supplementary heater:	yes / no		no
Mixed unit with heat pump:	yes / no		no
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	148
Seasonal space heating energy efficiency		[%]	119
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]	131
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	79,8
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	54,1
Declared capacity for heating with outdoor temperature $T_i = +12 \degree C$	Pdh	[kW]	61,0
Declared capacity for heating with outdoor temperature Ti = Bivalent temperature	Pdh	[kW]	131
Declared capacity for heating with outdoor temperature Ti = Operation limit temperature	Pdh	[kW]	122
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 $T_j = -7 \degree C$	COPd		2,20
Declared coefficient of performance with outdoor temperature Ti = +2 °C	COPd	-	3,02
Declared coefficient of performance with outdoor temperature Ti = +7 °C	COPd	-	3,89
Declared coefficient of performance with outdoor temperature Ti = +12 °C	COPd	-	4,33
Declared coefficient of performance with outdoor temperature Ti = Bivalent temperature	COPd	-	2,20
Declared coefficient of performance with outdoor temperature Ti = Operation limit temperature	COPd	-	1,99
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL		45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	РТО	[kW]	0.294
Standby mode	PSB	[kW]	0.315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			,
Nominal heating capacity	Psup	[kW]	26,5
Other items	· ·	1	
Capacity control	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	91
Annual electricity consumption for heating	QHE	[kW/h]	100628
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	85392
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-
		1	



Water-to-water heat pump: y Brine-to-water heat pump: y Low-temperature heat pump: y With supplementary heater: y Mixed unit with heat pump: y Temperature application (1) y Water flow rate f Outlet temperature f	yes / no yes / no yes / no yes / no yes / no yes / no (low 35°C/ medium 55°C) fixed / variable fixed / variable average / warmer / colder Prated = Pdesignh		yes no no no no low 35°C fixed fixed
Brine-to-water heat pump: y Low-temperature heat pump: y With supplementary heater: y Mixed unit with heat pump: y Temperature application (1) y Water flow rate f Outlet temperature f	yes / no yes / no yes / no yes / no (low 35°C/ medium 55°C) fixed / variable fixed / variable average / warmer / colder		no no no low 35°C fixed
Low-temperature heat pump: y With supplementary heater: y Mixed unit with heat pump: y Temperature application (1) y Water flow rate f Outlet temperature f	yes / no yes / no yes / no (low 35°C/ medium 55°C) fixed / variable fixed / variable average / warmer / colder		no no low 35°C fixed
With supplementary heater: 1 Mixed unit with heat pump: 1 Temperature application (1) 0 Water flow rate 1 Outlet temperature 1	yes / no yes / no (low 35°C/ medium 55°C) fixed / variable fixed / variable average / warmer / colder		no no low 35°C fixed
Mixed unit with heat pump: y Temperature application (1) (1) Water flow rate f Outlet temperature f	yes / no (low 35°C/ medium 55°C) fixed / variable fixed / variable average / warmer / colder		no low 35°C fixed
Temperature application (1) (1) Water flow rate f Outlet temperature f	(low 35°C/ medium 55°C) fixed / variable fixed / variable average / warmer / colder		low 35°C fixed
Water flow rate f Outlet temperature f	fixed / variable fixed / variable average / warmer / colder		fixed
Outlet temperature f	fixed / variable average / warmer / colder		
	average / warmer / colder		fixed
Parameters are declared for average/warmer/colder climate conditions (1)			IIXEU
	Prated = Pdesignh		average
Rated heat output at Tdesignh	i accigini	[kW]	139
Seasonal space heating energy efficiency	ηs	[%]	127
Seasonal space heating energy efficiency class ·	-	-	A+
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	e Tj		
Declared capacity for heating with outdoor temperature Tj = -7 °C	Pdh	[kW]	123
Declared capacity for heating with outdoor temperature Tj = +2 °C	Pdh	[kW]	74,7
Declared capacity for heating with outdoor temperature Tj = +7 °C	Pdh	[kW]	54,5
Declared capacity for heating with outdoor temperature Tj = +12 °C	Pdh	[kW]	61,4
Declared capacity for heating with outdoor temperature Tj = Bivalent temperature	Pdh	[kW]	123
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	113
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	Pdh	[kW]	-
Bivalent temperature	Tbiv	[°C]	-7
Degradation coefficient (Cdh	-	0,90
Declared coefficient of performance or primary energy ratio for part load at indoor temperature	20 °C and outdoor temperature	Тј	
Declared coefficient of performance with outdoor temperature $Tj = -7$ °C	COPd	-	2,66
Declared coefficient of performance with outdoor temperature Tj = +2 °C	COPd	-	3,29
Declared coefficient of performance with outdoor temperature Tj = +7 °C	COPd	-	3,87
Declared coefficient of performance with outdoor temperature Tj = +12 °C	COPd	-	4,21
Declared coefficient of performance with outdoor temperature Tj = Bivalent temperature	COPd	-	2,66
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	2,46
For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20
Heating water operating limit temperature at TOL	WTOL	[°C]	45
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode F	РТО	[kW]	0,669
Standby mode F	PSB	[kW]	0,315
Crankcase heater mode	PCK	[kW]	0,315
Supplementary heater			
Nominal heating capacity	Psup	[kW]	25,9
Other items			
Capacity control f	fixed / variable		variable
Sound power level, indoors	LWA	[dB(A)]	-
Sound power level, outdoors	LWA	[dB(A)]	91
Annual electricity consumption for heating	QHE	[kW/h]	88289
Outdoor heat exchanger			
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	85392
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-



AW-HT /LN-CA-E /0604 MEDIUM TEMPERATURE application				
Air-to-water heat pump:	yes / no		yes	
Water-to-water heat pump:	yes / no		no	
Brine-to-water heat pump:	yes / no		no	
Low-temperature heat pump:	yes / no		no	
With supplementary heater:	yes / no		no	
Mixed unit with heat pump:	yes / no		no	
Temperature application (1)	(low 35°C/ medium 55°C)		medium 55°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]	148	
Seasonal space heating energy efficiency	ηs	[%]	119	
Seasonal space heating energy efficiency class	-		A+	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature	ature Tj	I		
Declared capacity for heating with outdoor temperature $T_j = -7$ °C	Pdh	[kW]	131	
Declared capacity for heating with outdoor temperature $T_i = +2 \degree C$	Pdh	[kW]	79.8	
Declared capacity for heating with outdoor temperature $T_i = +7 \degree C$	Pdh	[kW]	54,1	
Declared capacity for heating with outdoor temperature $T_i = +12 \text{ °C}$	Pdh	[kW]	61,0	
Declared capacity for heating with outdoor temperature Ti = Bivalent temperature	Pdh	[kW]	131	
Declared capacity for heating with outdoor temperature Tj = Operation limit temperature	Pdh	[kW]	122	
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			0,00	
Declared coefficient of performance with outdoor temperature Ti = -7 °C	COPd		2.20	
Declared coefficient of performance with outdoor temperature $T_j = +2 \text{ °C}$	COPd	-	3.02	
Declared coefficient of performance with outdoor temperature $T_j = +7 \text{ °C}$	COPd	-	3,89	
Declared coefficient of performance with outdoor temperature $Tj = +12 \text{ °C}$	COPd	-	4.33	
Declared coefficient of performance with outdoor temperature Ti = Bivalent temperature	COPd	-	2,20	
Declared coefficient of performance with outdoor temperature Tj = Operation limit temperature	COPd	-	1,99	
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	COPd	-	-	
For air-to-water HP : Operation limit temperature	TOL	[°C]	-20	
Heating water operating limit temperature at TOL	WTOL	[°C]	45	
Power consumption in modes other than active mode		[0]	10	
Off mode	POFF	[kW]	0.000	
Thermostat-off mode	PTO	[kW]	0,294	
Standby mode	PSB	[kW]	0,315	
Crankcase heater mode	PCK	[kW]	0,315	
Supplementary heater		[]	0,010	
Nominal heating capacity	Psup	[kW]	26.5	
Other items		[]	20,0	
Capacity control	fixed / variable		variable	
Sound power level, indoors	LWA	[dB(A)]	-	
Sound power level, inteolog	LWA	[dB(A)]	91	
Annual electricity consumption for heating	QHE	[kW/h]	100628	
Outdoor heat exchanger		[100020	
For air-to-water HP: Rated air flow rate, outdoors	Qairsource	[m³/h]	85392	
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	Qwater/brine source	[m³/h]	-	
(1) The personne-to-water riest pumps. Nated brine of water now rate, outdoor riest exchanger				



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 °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.



Climaveneta S.p.A. Via Sarson 57/c 36061 Bassano del Grappa (VI) - Italy Tel +39 0424 509 500 Fax +39 0424 509 509 info@climaveneta.com www.climaveneta.com

Climaveneta France

3, Village d'Entreprises ZA de la Couronne des Prés Avenue de la Mauldre 78680 Epône - France Tel +33 (0)1 30 95 19 19 Fax +33 (0)1 30 95 18 18 info@climaveneta.fr www.climaveneta.fr

Climaveneta Deutschland GmbH

Lyrenstraße 13 44866 Bochum - Germany Tel +49 2327-95428-0 Fax +49 2327-95428-99 info@climaveneta.de www.climaveneta.de

Climaveneta España - Top Clima Londres 67, 1° 4°

Londres 67, 1° 4° 08036 Barcelona - Spain Tel +34 934 195 600 Fax +34 934 195 602 topclima@topclima.com www.climaveneta.com

Climaveneta Chat Union Refrig. Equipment Co., Ltd

No.88 Baiyun Rd, Pudong Xinghuo New Dev. Zone 201419 Shanghai - China Tel +86 21 5750 5566 Fax +86 21 5750 5797 info@climaveneta.com.cn www.climaveneta.com.cn

Climaveneta Polska Sp. z o.o.

UI. Sienkiewicza 13A, 05-120 Legionowo - Poland Tel +48 22 766 34 55-57 Fax +48 22 784 39 09 info@climaveneta.pl www.climaveneta.pl

Climaveneta - Climate Technologies (P) Ltd #3487, 14th Main, HAL 2nd stage,

#3487, 14th Main, HAL 2nd stage, Indiranagar, Bangalore 560008 - India Tel:+91-80-42466900 - 949 Fax: +91-80-25203540 sales@climaveneta.in

Climaveneta - Powermaster Itd

Unit 6, St Clare Business Park Holly Road - Hampton Hill Middlesex - TW12 1PZ - U.K. Tel: +44 (0) 20 8783 1008 Fax: +44 (0) 20 8783 1009 response@climaveneta.co.uk www.climaveneta.co.uk

Climaveneta Middle East JLT

Jumeirah Bay X3 Tower, Unit No. 3103 Jumeirah Lakes Towers P.O. Box 116226 Dubai - U.A.E Tel: 00971 4 2765490 info@climaveneta.ae ae.climaveneta.com

OOO Climaveneta

ул.Нижняя Красносельская, д.40/12, к.20a 105066 Moscow - Russia Tel: +7 495 987 37 53 info@climaveneta.ru ru.climaveneta.com

