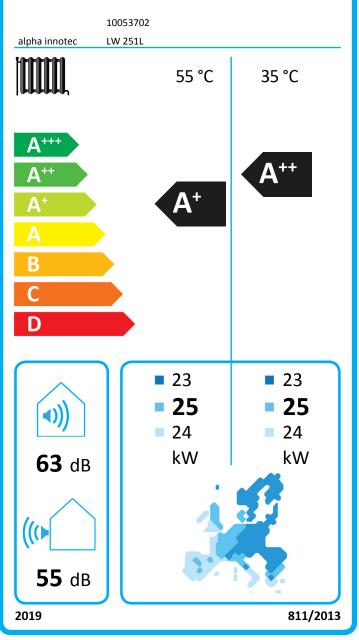
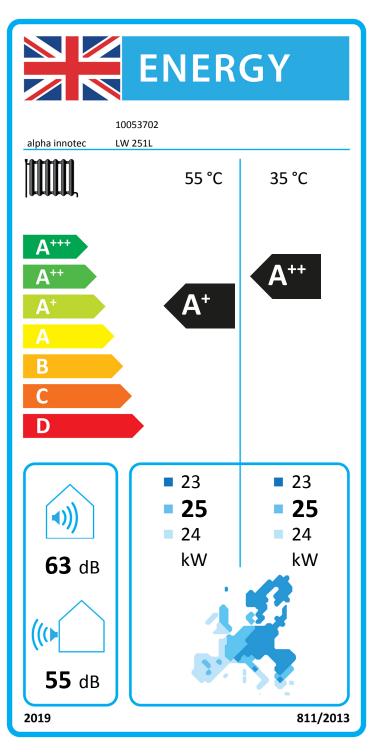


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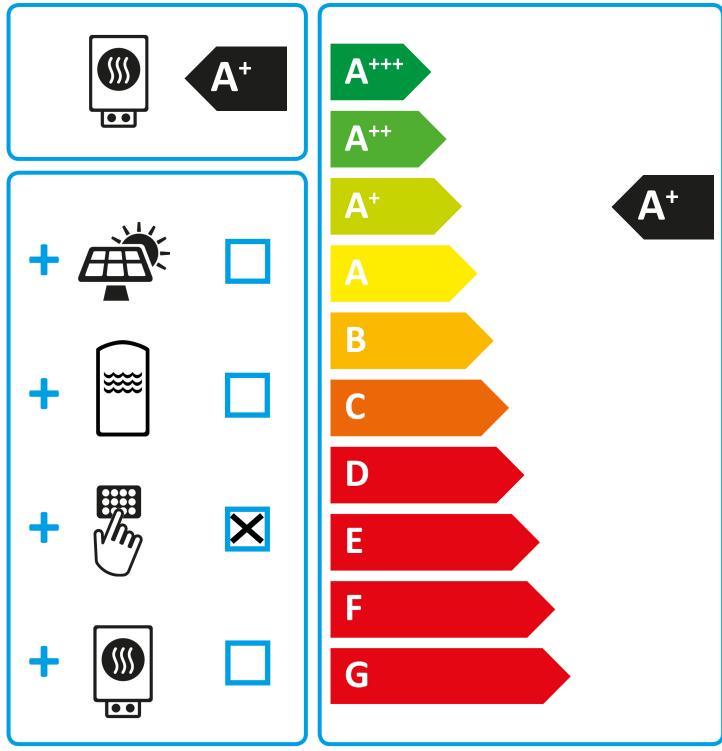


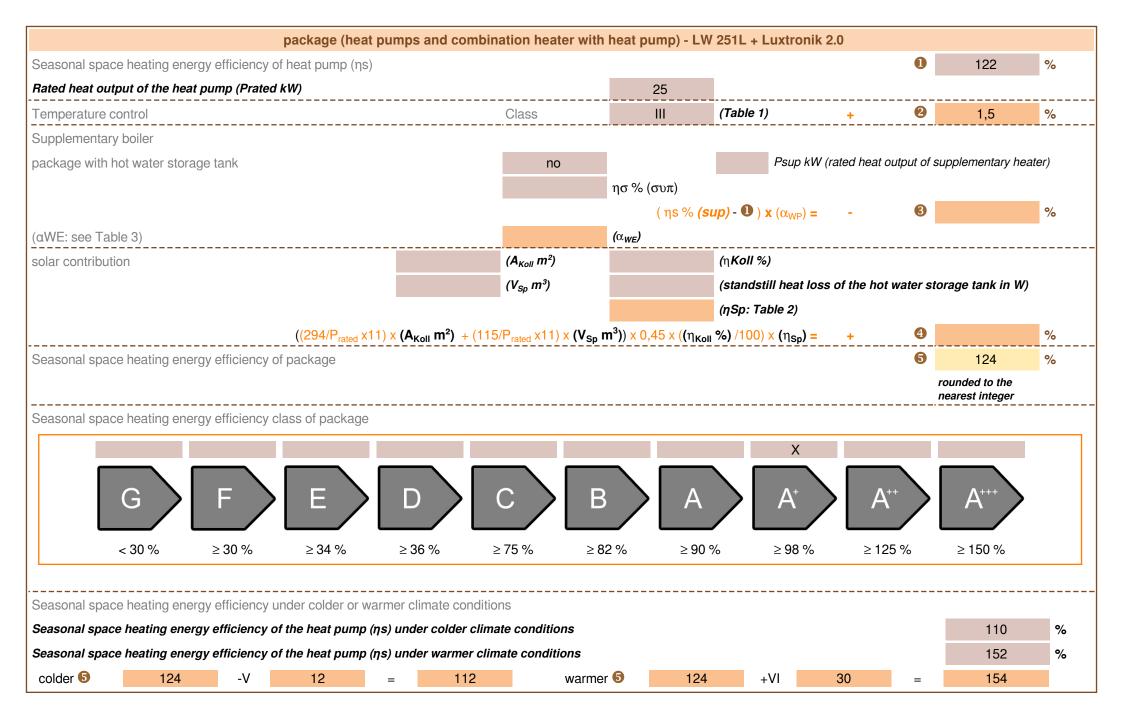
## 10053702

alpha innotec

LW 251L + Luxtronik 2.0

## 





manufacturer:	alpha innotec	alpha innotec					
model:	LW 251L						
Information concerning energy efficiency class and	d rated heat output:						
	average / low	average / medium					
energy efficiency class space heater:	A++	A+	-				
rated heat output:	25	25	kW				
energy efficiency space heater:	155	122	%				
annual final energy consumption space heater	13252	16517	kWh				
			I				
sound power level indoors special precautions concerning assembly, installat All instructional work in this manual may only be carried or regulations.		63	dB				
special precautions concerning assembly, installat All instructional work in this manual may only be carried of			I				
special precautions concerning assembly, installat All instructional work in this manual may only be carried or regulations.			I				
special precautions concerning assembly, installat All instructional work in this manual may only be carried or regulations.	out by qualified specialist persor	nnel in compliance with loca	1				
special precautions concerning assembly, installat All instructional work in this manual may only be carried regulations. additional information rated heat output colder climate	out by qualified specialist persor	nnel in compliance with loca	al				
special precautions concerning assembly, installat All instructional work in this manual may only be carried or regulations. additional information rated heat output colder climate rated heat output warmer climate	out by qualified specialist persor	mel in compliance with loca	al kW				
special precautions concerning assembly, installat All instructional work in this manual may only be carried regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	low 23 24	medium 23 24	al kW kW				
special precautions concerning assembly, installat All instructional work in this manual may only be carried of	low 23 24 134 198	medium 23 24 110	al kW kW %				

technical data of the temperature controller						
manufacturer:	alpha innotec					
model: Luxtronik 2.0						
controller class						
contribution of the controller to the energy efficiency space h	ater 1,5 %	, o				

Model				LW 251L				
Air-to-water heat pump: (yes/no)				yes				
Brine-to-water heat pump: (yes/no)				no				
Water-to-water heat pump: (yes/no)				no				
Low-temperature heat pump: (yes/no)				no				
Equipped with supplementary heater: (yes/no)				yes				
combination heater with: (yes/no)	)			no				
application: (low/medium)				medium				
climate: (colder/average/warmer)				average			-	
Item	Symbol	Value	Unit	Unit Item Symbol			Unit	
Rated heat output	Prated	25	kW	Seasonal space heating energy efficiency	ηS	122,1	%	
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj					
Tj = -7°C	Pdh	19,2	kW	Tj = -7°C	COPd	2,07	-	
Tj = +2°C	Pdh	23,9	kW	Tj = +2°C	COPd	3,02	-	
Tj = +7°C	Pdh	14,3	kW	Tj = +7°C	COPd	4,13	-	
Tj = +12°C	Pdh	16,8	kW	Tj = +12°C	COPd	5,44	-	
Tj = bivalent temperature	Pdh	20,2	kW	Tj = bivalent temperature	COPd	2,24	-	
Ti = operation limit temperature	Pdh	17,7	kW	Ti = operation limit temperature	COPd	1,83	-	
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd	-	-	
Bivalent temperature	T <sub>biv</sub>	-5	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	70	°C	
Power consumption in modes	other that	n active mod	e	Supplementary heater				
Off mode	P <sub>OFF</sub>	0,010	kW	Rated heat output	Psup	7,3	kW	
Thermostat-off mode	P <sub>TO</sub>	0,010	kW	Type of energy input		electrical	1	
Standby mode	P <sub>SB</sub>	0,010	kW					
Crankcase heater mode	Р <sub>ск</sub>	-	kW	-				
Other items	on		1					
Capacity control		fixed		For air-to-water heat pumps: Rated air flow rate, outdoors	-	5.000	m³/h	
sound power level, indoors/outdoors	L <sub>WA</sub>	63 / 55	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h	
Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh					
For heat pump combination h	eater:							
Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details		land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany	<u> </u>			
(*) For heat pump space heaters	and heat pu	Imp combinat	ion heaters,	the rated heat output Prated is equ equal to the supplementary capac			eating	
(**) If Cdh is not determined by m					,	J F ( · J)-		
			an acgiuda					

Air-to-water heat pump: (yes/ho)         yes           Brine-to-water heat pump: (yes/ho)         no           Cov-memperature heat pump: (yes/ho)         no           Equipped with supplementary heater: (yes/ho)         no           Combination heater with: (yes/ho)         no           conderstance         Symbol         Value         Unit           Rated heat output         Pratod         25         KW         Seasonal space heating energy efficiency         nS         154.8         %           Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj         Energite coefficient of performance for part load at indoor         154.8         %           Tj = -?°C         Pdh         14.3         KW         Tj = -?°C         COPd         2,96         .           Tj = +?°C         Pdh         16.9         KW         Tj = +?°C         COPd         5,06         .           Tj =								
Brine-to-water heat pump: (yes/no)         no           Water to-water heat pump: (yes/no)         no           Equipped with supplementary heater. (yes/no)         no           application: (low/modulum)         iow           Dimate. (cold/raverage/warmer)         average           team         Symbol         Value         Unit           Rate heat output         Prated         25         kW         Seasonal space heating         nS         154,8         %           Declared coefficient of performance for part load at indoor         temporature 20° C and outdoor temperature 1         Declared coefficient of performance for part load at indoor         temporature 20° C and outdoor temperature 1         Ti = +2°C         COPd         2,96         -           Tj = +2°C         Pdh         19,4         kW         Tj = +7°C         COPd         2,96         -           Tj = +2°C         Pdh         19,4         kW         Tj = +7°C         COPd         5,96         -           Tj = +2°C         Pdh         14,3         kW         Tj = +2°C         COPd         5,96         -           Tj = byzation inmit temparature         COPd         2,66         -         -         -         -         -         -         -         -         -	Model				LW 251L			
Water-to-water heat pump: (yes/no)       no         Low-temperature heat pump: (yes/no)       no         Low-temperature heat pump: (yes/no)       no         combination heater with: (yes/no)       yes         combination heater with: (yes/no)       no         application: (low/medium)       low         cinnate: (colder/averaga/warmer)       average         term       Symbol       Value       Unit         Rated heat output       Pratod       25       kW       Seasonal space heating energy efficiency       nS       154.8       %         Declared coefficient of performance for part load at indoor       Immergy efficiency       Declared coefficient of performance for part load at indoor         Tj = -7*C       Pdh       19.4       kW       Tj = -7*C       COPd       2,96       -         Tj = +2*C       Pdh       19.4       kW       Tj = +2*C       COPd       5,90       -         Tj = +12*C       Pdh       16,9       kW       Tj = +2*C       COPd       5,90       -         Tj = operation limit temperature       Pdh       17,8       kW       Tj = operation limit temperature       COPd       2,96       -         Tj = operation limit temperature       Pdh       17,8       KW <t< td=""><td colspan="4">Air-to-water heat pump: (yes/no)</td><td>yes</td><td></td><td></td><td></td></t<>	Air-to-water heat pump: (yes/no)				yes			
Low-temperature heat pump: (yes/no)       no         Equipped with supplementary heater: (yes/no)       no         combination heater with: (yes/no)       no         papelcation: (low/medium)       low         climate: (colder/average/warmer)       average         tem       Symbol       Value       Unit       Item       Symbol       Value       Unit         Rated heat output       Prated       25       kW       Seasonal space heating energy efficiency       nS       154.8       %         Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 71       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 71       19.4       KW       Tj = -7°C       COPd       2,96       .         Tj = -7°C       Pdh       14.3       kW       Tj = +7°C       COPd       3,77       .         Tj = +7°C       Pdh       16.9       kW       Tj = +12°C       COPd       5,06       .         Tj = +7°C       Pdh       17.8       KW       Tj = operation limit temperature       COPd       5,06       .         Tj = ibvalort temperature       Tsix       -5       °C       For air-to-water heat pumps; Tj       COPd       .       .         T	Brine-to-water heat pump: (yes/no)				no			
Equipped with supplementary heater: (yes/no)         yes           combination heater with: (yes/no)         no           application: (low/medium)         low           ilmate: (colde/average/warmer)         average           tem         Symbol         Value         Unit           Rated heat output         Prated         25         KW         Seasonal space heating energy efficiency         ns         154.8         %           Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature T         Declared coefficient of performance for part load at indoor         temperature 20°C and outdoor temperature T         T           T] = -7°C         Pdh         19.4         KW         T] = -7°C         COPd         2.96         .           T] = +7°C         Pdh         19.4         KW         T] = -7°C         COPd         5.96         .           T] = +7°C         Pdh         14.3         KW         T] = +7°C         COPd         5.90         .           T] = operation limit temperature         Pdh         17.8         KW         T] = operation limit temperature         COPd         2.66         .           T] = operation limit temperature         Pdh         7.8         KW         Tj = operation limit temperature         COPd	Water-to-water heat pump: (yes/no)				no			
no         no         papilication: (low/medium)         low         climate: (colder/average/warmer)         average         time       Symbol       Value       Unit         Rated heat output       Prated       25       kW       Seasonal space heating in the merror structure 20°C and outdoor temperature 7         Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 7       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature 7         Tj = -7°C       Pdh       24.2       kW       Tj = +2°C       COPd       3.77       -         Tj = +12°C       Pdh       24.2       kW       Tj = +2°C       COPd       5.90       -         Tj = +12°C       Pdh       14.3       kW       Tj = operation limit temperature       COPd       3.18       -         Tj = obvalent temperature       Pdh       7.8       kW       Tj = operation limit temperature       COPd       3.18       -         Tj = obvalent temperature       Tsv       -5       °C       For air-to-water heat pumps:       To       - <t< td=""><td colspan="4">Low-temperature heat pump: (yes/no)</td><td colspan="4">no</td></t<>	Low-temperature heat pump: (yes/no)				no			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Equipped with supplementary heater: (yes/no)				yes			
Inimate: (colder/average/warmer)       average         Item       Symbol       Value       Unit       Item       Symbol       Value       Unit         Rated heat output       Prated       25       kW       Seasonal space heating energy efficiency       nS       154,8       %         Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj       Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj         Tj = -7°C       Pdh       19,4       KW       Tj = -7°C       COPd       2,96       .         Tj = +7°C       Pdh       19,4       KW       Tj = -7°C       COPd       2,96       .         Tj = +12°C       Pdh       19,4       KW       Tj = +7°C       COPd       2,96       .         Tj = +12°C       Pdh       14,3       KW       Tj = +12°C       COPd       3,18       .         Tj = oparation limit temperature       Pdh       17,8       KW       Tj = oparation limit temperature       COPd       2,66       .         For air-to-water heat pumps: Tj = 0°C       OPdh       .       KW       KW       To = -1°C (ITOL < -20°C)       COPd       .       COPd       .       COPd       .       COPd <th< td=""><td>combination heater with: (yes/no)</td><td>)</td><td></td><td></td><td>no</td><td></td><td></td><td></td></th<>	combination heater with: (yes/no)	)			no			
tem         Symbol         Value         Unit         Item         Symbol         Value         Unit           Rated heat output         Prated         25         kW         Beasonal space heating energy efficiency $\eta$ S         154,8         %           Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TI         Declared coefficient of performance for part load at indoor           Tj = -7°C         Pdh         19,4         kW         Tj = -7°C         COPd         2,96         .           Tj = +2°C         Pdh         14,3         kW         Tj = +7°C         COPd         3,77         .           Tj = +12°C         Pdh         14,3         kW         Tj = +7°C         COPd         5,90         .           Tj = bizalent temperature         Pdh         16,9         kW         Tj = bizalent temperature         COPd         3,18         .           Tj = operation limit temperature         Pdh         17,8         kW         Tj = operation limit temperature         COPd         2,66         .           For air-to-water heat pumps: Tj         Pdh         -         KW         Kor air-to-water heat pumps: Tj         COPd         .         .         .         .         .         .         <	application: (low/medium)				low			
Rated heat output         Prated         25         kW         Seasonal space heating energy efficiency         nS         154,8         %           Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj         Image: Comperative 20°C and outdoor temperature Tj         Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj         Image: Comperative 20°C and outdoor temperature Tj           Tj = +7°C         Pdh         19,4         kW         Tj = +7°C         COPd         2,96         -           Tj = +2°C         Pdh         14,3         kW         Tj = +7°C         COPd         3,77         -           Tj = +12°C         Pdh         16,9         kW         Tj = +12°C         COPd         3,86         -           Tj = bivalent temperature         Pdh         17,8         kW         Tj = ovaration limit temperature         COPd         2,66         -           Tj = operation limit temperature         Tb/n         -         KW         For air-to-water heat pumps: Tj         COPd         -	climate: (colder/average/warmer)				average			
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature T T = -7°CDeclared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature T T = -7°CT = -7°CPdh19.4kWT = -7°CCOPd2.96-T = +2°CPdh24.2kWT = +2°CCOPd5.06-T = +12°CPdh16.9KWT = +2°CCOPd5.06-T = +12°CPdh16.9KWT = +12°CCOPd5.90-T = bivalent temperaturePdh20.4KWT = bivalent temperatureCOPd3.18-T = bivalent temperaturePdh17.8KWT = operation limit temperatureCOPd2.66-For air-to-water heat pumps: T t = 0.5° (C IT COL < -20°C)	Item	Symbol	Value	Unit	Item	Symbol	ymbol Value	Unit
temperature 20 °C and outdoor temperature Tj         Tj = -7°C       Pdh       19,4       KW       Tj = -7°C       COPd       2,96       .         Tj = +2°C       Pdh       24,2       KW       Tj = +2°C       COPd       5,96       .         Tj = +12°C       Pdh       16,9       KW       Tj = +12°C       COPd       5,90       .         Tj = pixalent temperature       Pdh       16,9       KW       Tj = piraton limit temperature       COPd       5,90       .         Tj = operation limit temperature       Pdh       17,8       KW       Tj = operation limit temperature       COPd       2,66       .         For air-to-water heat pumps: Tj       Pdh       .       KW       For air-to-water heat pumps: Tj       COPd       .       .         Store (if TOL < -20°C)	Rated heat output	Prated	25	kW		ηS	154,8	%
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Ti						indoor	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Tj = -7°C	· ·	-	kW	-		-	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Tj = +2°C	Pdh	24,2	kW	Tj = +2°C	COPd		-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Tj = +7°C	Pdh		kW	•	COPd	5,06	-
T = bivalent temperaturePdh20,4kWT = bivalent temperatureCOPd3,18T = operation limit temperaturePdh17,8kWT = operation limit temperatureCOPd2,66For air-to-water heat pumps: T =Pdh-kWFor air-to-water heat pumps: T =COPd2,66= -15°C (if TOL < -20°C)	Tj = +12°C	Pdh		kW	Tj = +12°C	COPd		-
T = operation limit temperature       Pdh       17,8       KW       T = operation limit temperature       COPd       2,66       -         For air-to-water heat pumps: T = -15°C (ff TOL < -20°C)	Tj = bivalent temperature	Pdh		kW		COPd		-
For air-to-water heat pumps: Tj       Pdh       -       kW       For air-to-water heat pumps: Tj       COPd       -       - $=-15^{\circ}C$ (if TOL < -20°C)	Tj = operation limit temperature	Pdh		kW				-
Bivalent temperature       T <sub>bv</sub> -5       °C       For air-to-water heat pumps: Operation limit temperature       TOL       -10       °C         Cycling interval capacity for heating       Pcych       -       kW       Cycling interval efficiency       COPcyc       -       -         Degradation co-efficient (**)       Cdh       1,0       -       Heating water operating limit temperature       WTOL       70       °C         Power consumption in modes other than active mode       Supplementary heater         Off mode       P <sub>OFF</sub> 0,010       kW       Rated heat output       Psup       7,6       kW         Themostat-off mode       P <sub>OFF</sub> 0,010       kW       Rated heat output       Psup       7,6       kW         Standby mode       P <sub>SB</sub> 0,010       kW       Type of energy input       electrical         Cher items       Capacity control       fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       5.000       m³/h         Sound power level, indoors/outdoors       L <sub>WA</sub> 63 / 55       dB       For water // flow rate, outdoors       -       m³/h         Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       -       -       m³/h         Declared load profile<	For air-to-water heat pumps: Tj	Pdh	-	kW	For air-to-water heat pumps: Tj	COPd	-	-
Cycling interval capacity for heating       Pcych       -       kW       Cycling interval efficiency       COPcyc       -       -         Degradation co-efficient (**)       Cdh       1,0       -       Heating water operating limit temperature       WTOL       70       °C         Power consumption in modes other than active mode       Supplementary heater       Supplementary heater       7,6       kW         Off mode       P <sub>OFF</sub> 0,010       kW       Rated heat output       Psup       7,6       kW         Thermostat-off mode       P <sub>TO</sub> 0,010       kW       Type of energy input       electrical         Standby mode       P <sub>SB</sub> 0,010       kW       Type of energy input       electrical         Other items       Capacity control       fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       5.000       m³/h         sound power level, indoors/outdoors       L <sub>WA</sub> 63 / 55       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       -       m³/h         Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       -       %         Delared load profile       -       KWh       Daily fuel consumption       Qfuel       -	Bivalent temperature	T <sub>biv</sub>	-5	°C	For air-to-water heat pumps:	TOL	-10	°C
Power consumption in modes other than active mode       Supplementary heater         Off mode       POFF       0,010       kW       Rated heat output       Psup       7,6       kW         Thermostat-off mode       PTO       0,010       kW       Rated heat output       Psup       7,6       kW         Thermostat-off mode       PTO       0,010       kW       Type of energy input       electrical         Standby mode       PSB       0,010       kW       Type of energy input       electrical         Other items       Canakcase heater mode       PCK       -       kW       Rated air flow rate, outdoors       -       5.000       m³/h         Capacity control       fixed       fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       m³/h         sound power level, indoors/outdoors       LWA       63 / 55       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       m³/h         Emissions of nitrogen oxides       NOx       -       mg/kWh       -       -       m³/h         Declared load profile       -        Water heating energy efficiency       n_wn       -       %         Daily electricity consumption       Qeiec       -	Cycling interval capacity for heating	Pcych	-	kW		COPcyc	-	-
$\begin{array}{ c c c c c c } \hline Off mode & P_{OFF} & 0,010 & kW & Rated heat output & Psup & 7,6 & kW \\ \hline Thermostat-off mode & P_{TO} & 0,010 & kW & Type of energy input & electrical \\ \hline Standby mode & P_{SB} & 0,010 & kW & \hline \\ \hline Crankcase heater mode & P_{CK} & - & kW & \hline \\ \hline Other items & & \hline \\ Capacity control & fixed & For air-to-water heat pumps: Rated air flow rate, outdoors & - & 5.000 & m^3/h \\ sound power level, & L_{WA} & 63 / 55 & dB & For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors & - & m^3/h \\ \hline For heat pump combination heater: & & \hline \\ Declared load profile & - & W & \hline \\ Declared load profile & - & W & \hline \\ Daily electricity consumption & Q_{elec} & - & kWh & Daily fuel consumption & Qfuel & - & kWh \\ \hline Contact details & ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany \\ \hline (^{\circ}) For heat pump space heaters and heat pump combination heater Psup is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Degradation co-efficient (**)	Cdh	1,0	-		WTOL	70	°C
Thermostat-off mode $P_{TO}$ 0,010kWType of energy inputelectricalStandby mode $P_{SB}$ 0,010kWType of energy inputelectricalCrankcase heater mode $P_{CK}$ -kW $P_{CK}$ electricalOther itemsCapacity controlfixedFor air-to-water heat pumps: Rated air flow rate, outdoorsSound power level, indoors/outdoors $L_{WA}$ 63 / 55dBFor water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchangerm³/hEmissions of nitrogen oxides $NO_X$ -mg/kWhFor heat pump combination heater:Declared load profile-Water heating energy efficiency a stated load profile $\eta_{wh}$ -%Daily electricity consumption $Q_{elec}$ -kWhDaily fuel consumptionQfuel-kWhContact detailsait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany(*) For heat pump space heaters and heat pump combination heater s, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Power consumption in modes	other that	n active mod	e	Supplementary heater			
Thermostat-off mode $P_{TO}$ 0,010       kW       Type of energy input       electrical         Standby mode $P_{SB}$ 0,010       kW       Type of energy input       electrical         Crankcase heater mode $P_{CK}$ -       kW       Type of energy input       electrical         Other items       Capacity control $fixed$ For air-to-water heat pumps: Rated air flow rate, outdoors       -       5.000       m³/h         Sound power level, indoors/outdoors $L_{WA}$ $63/55$ dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       -       m³/h         Emissions of nitrogen oxides $NO_X$ -       mg/kWh       -       -       -       %         Declared load profile       -       -       kWh       Daily fuel consumption       Qfuel       -       kWh         Daily electricity consumption       Qelec       -       kWh       Daily fuel consumption       Qfuel       -       kWh         Other tetrals       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany       -       kWh       For heat pump space heaters and heat pump combination heater; the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is eq	Off mode	P <sub>OFF</sub>	0,010	kW		Psup	7,6	kW
Standby mode       P <sub>SB</sub> 0,010       kW         Crankcase heater mode       P <sub>CK</sub> -       kW         Other items       Capacity control       fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       5.000       m³/h         Sound power level, indoors/outdoors       L <sub>WA</sub> 63 / 55       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       -       m³/h         Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       -       -       %         Declared load profile       -       -       kWh       Daily fuel consumption       Qfuel       -       kWh         Daily electricity consumption       Q <sub>elec</sub> -       kWh       Daily fuel consumption       Qfuel       -       kWh         Contact details       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany       -       kWh       Pater ated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Thermostat-off mode		0,010	kW	Type of energy input		electrical	
Crankcase heater mode       P <sub>CK</sub> -       kW         Other items       Capacity control       fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       5.000       m³/h         Sound power level, indoors/outdoors       L <sub>WA</sub> 63 / 55       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       -       m³/h         Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       -       -       m³/h         For heat pump combination heater:       Declared load profile       -       -       MWh       -       %         Daily electricity consumption       Q <sub>elec</sub> -       kWh       Daily fuel consumption       Qfuel       -       kWh         Contact details       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany       -       kWh       Paily fuel consumption       Qfuel       -       kWh         Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).       -	Standby mode							
Other items         Capacity control       fixed       For air-to-water heat pumps: Rated air flow rate, outdoors       -       5.000       m³/h         sound power level, indoors/outdoors       L <sub>WA</sub> 63 / 55       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       -       -       m³/h         Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       -       -       m³/h         For heat pump combination heater:       -       -       mg/kWh       -       %         Declared load profile       -        Water heating energy efficiency       n <sub>wh</sub> -       %         Daily electricity consumption       Q <sub>elec</sub> -       kWh       Daily fuel consumption       Qfuel       -       kWh         Contact details       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany       -       kWh       Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Crankcase heater mode		-	kW	7			
Rated air flow rate, outdoors       Rated air flow rate, outdoors         sound power level, indoors/outdoors       L <sub>WA</sub> 63 / 55       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat       -       m <sup>3</sup> /h         Emissions of nitrogen oxides       NO <sub>X</sub> -       mg/kWh       -       -       mg/kWh         For heat pump combination heater:       -       -       Mater heating energy efficiency       n <sub>wh</sub> -       %         Declared load profile       -       -       KWh       Daily fuel consumption       Qfuel       -       kWh         Contact details       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany       -       kWh       Poily Pleesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Other items		L	1	1	1		
indoors/outdoors       Image: Construction of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Capacity control	fixed				-	5.000	m³/h
For heat pump combination heater:         Declared load profile       -       Water heating energy efficiency $\eta_{wh}$ -       %         Daily electricity consumption $Q_{elec}$ -       kWh       Daily fuel consumption       Qfuel       -       kWh         Contact details       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany       -       kWh       Provide the supplementary for heating supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	sound power level, indoors/outdoors	L <sub>WA</sub>	63 / 55	dB	pumps: Rated brine or water flow rate, outdoor heat	-	-	m <sup>3</sup> /h
Declared load profile       -       Water heating energy efficiency       n_wh       -       %         Daily electricity consumption       Q <sub>elec</sub> -       kWh       Daily fuel consumption       Qfuel       -       kWh         Contact details       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany       -       kWh       Value       -       kWh         (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).       - <td>Emissions of nitrogen oxides</td> <td>NO<sub>X</sub></td> <td>-</td> <td>mg/kWh</td> <td></td> <td></td> <td></td> <td></td>	Emissions of nitrogen oxides	NO <sub>X</sub>	-	mg/kWh				
Daily electricity consumption       Q <sub>elec</sub> -       kWh       Daily fuel consumption       Qfuel       -       kWh         Contact details       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany         (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	For heat pump combination h	eater:		•				
Daily electricity consumption       Q <sub>elec</sub> -       kWh       Daily fuel consumption       Qfuel       -       kWh         Contact details       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany         (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Contact details       ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany         (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	•	Q <sub>elec</sub>	-	kWh			-	kWh
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Contact details		land GmbH Ir		,			1
	(*) For heat pump space heaters	and heat pu	Imp combinat	ion heaters,	the rated heat output Prated is equ			eating
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