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alpha innotec

WZSV62H3M











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ENERGY

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alpha innotec

WZSV62H3M













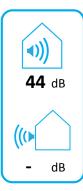




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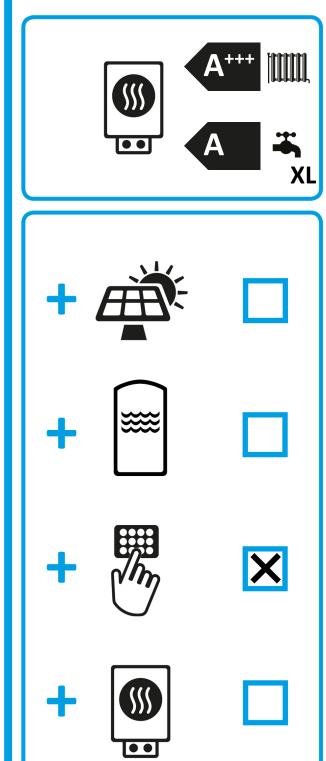


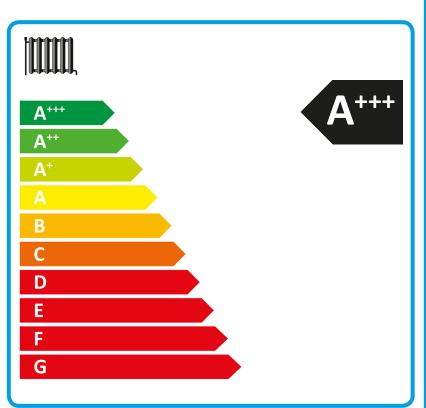
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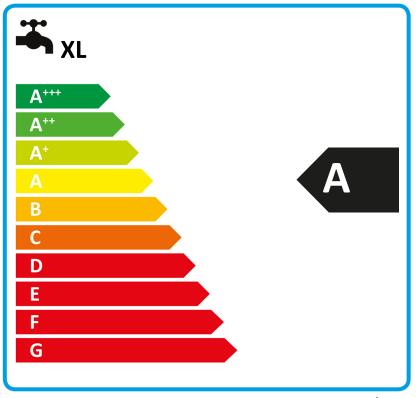
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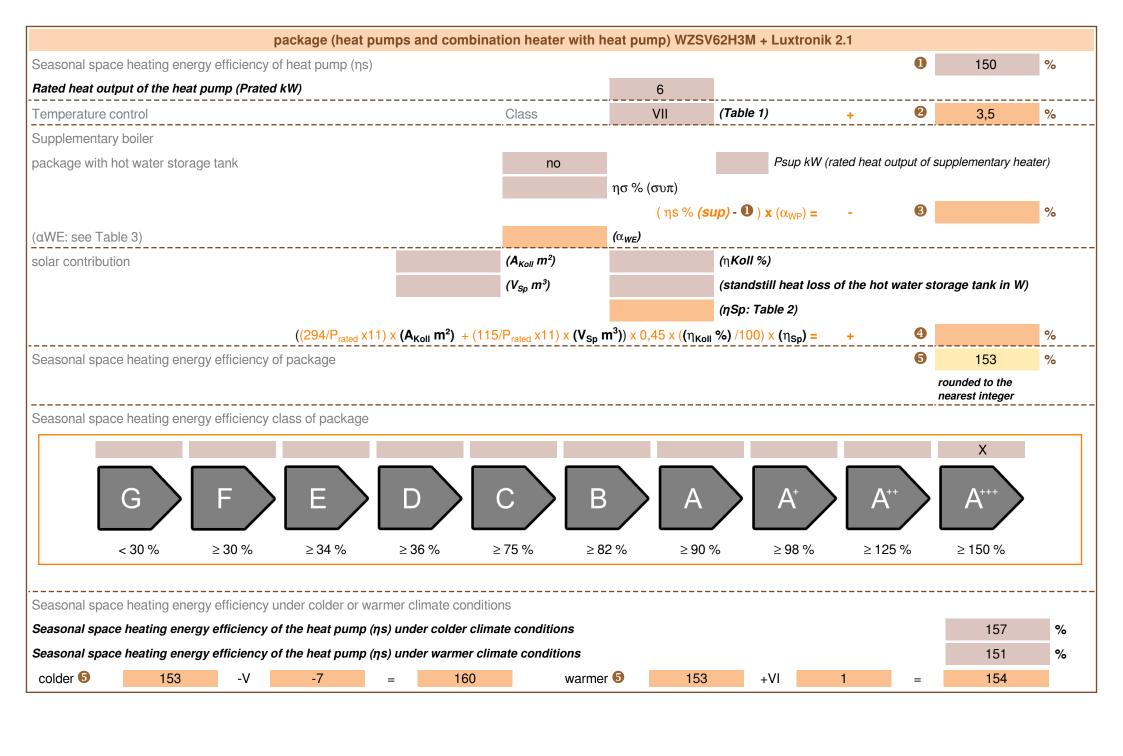
alpha innotec

WZSV62H3M + Luxtronik 2.1









manufacturer:	alpha innotec				
model:	WZSV62H3M				
model.	WZSVOZIISW	WZ5V62H3M			
Information concerning energy efficiency class and rated	heat output:				
load profile water heating		T -			
	average / low	average / medium			
energy efficiency class space heater:	A+++	A+++	-		
energy efficiency class waterheating		Ä	-		
rated heat output:	6	6	kW		
annual final energy consumption space heater	2192	2878	kWh		
annual electricity consumption waterheating	1642	1642			
energy efficiency space heater:	199	150	%		
	102				
energy efficiency waterheating	102		%		
energy efficiency waterheating	102		%		
energy efficiency waterheating sound power level indoors	102	44	dB		
	102	44	1		
	'	44	1		
sound power level indoors	maintenance	<u> </u>	dB		
sound power level indoors special precautions concerning assembly, installation or i	maintenance	<u> </u>	dB		
sound power level indoors special precautions concerning assembly, installation or I All instructional work in this manual may only be carried out by q	maintenance	<u> </u>	dB		
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by quadditional information	maintenance ualified specialist personnel in co	ompliance with local regulations	dB		
sound power level indoors special precautions concerning assembly, installation or a large structional work in this manual may only be carried out by quadditional information rated heat output colder climate	maintenance ualified specialist personnel in co	ompliance with local regulations medium	dB		
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by quadditional information rated heat output colder climate rated heat output warmer climate	maintenance ualified specialist personnel in collaboration low	ompliance with local regulations medium 6	dB		
sound power level indoors special precautions concerning assembly, installation or a concerning assembly assem	maintenance ualified specialist personnel in collaboration low 6 6	ompliance with local regulations medium 6 6	dB kW kWh		
sound power level indoors special precautions concerning assembly, installation or i	maintenance ualified specialist personnel in collaboration low 6 6 6 2482	medium 6 6 3288	dB s. kW kW		
sound power level indoors special precautions concerning assembly, installation or a concerning assembly as	maintenance ualified specialist personnel in collaboration low 6 6 6 2482 1402	medium 6 6 3288	dB kW kWh kWh kWh		
sound power level indoors special precautions concerning assembly, installation or a special precautions work in this manual may only be carried out by quadditional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate ann. Electricity consumption waterheating colder climate ann. Electricity consumption waterheating warmer climate	maintenance ualified specialist personnel in collections low 6 6 2482 1402 1642	medium 6 6 3288	dB kW kWh kWh kWh		
sound power level indoors special precautions concerning assembly, installation or a concerning assembly	maintenance ualified specialist personnel in collection low 6 6 6 2482 1402 1642	medium 6 6 3288 1851	kW kWh kWh kWh		
sound power level indoors special precautions concerning assembly, installation or a All instructional work in this manual may only be carried out by quadditional information rated heat output colder climate rated heat output warmer climate annual energy consumption space heater colder climate annual energy consumption space heater warmer climate	maintenance ualified specialist personnel in co low 6 6 6 2482 1402 1642 1642 210	medium 6 6 3288 1851	dB kW kWh kWh kWh kWh kWh		

technical data of the temperature controller						
manufacturer:	alpha innotec					
model:	Luxtronik 2.1					
controller class		VII	-			
contribution of the controller to the energy efficiency space heater		3,5	%			

Model				WZSV62H3M				
Air-to-water heat pump: (yes/no)				no				
Brine-to-water heat pump: (yes/no)				yes				
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)				yes				
application: (low/medium)				medium				
climate: (colder/average/warmer)				average				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	6	kW	Seasonal space heating energy efficiency	ηS	149,9	%	
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	5,0	kW	Tj = -7°C	COPd	3,06	-	
Tj = +2°C	Pdh	3,0	kW	Tj = +2°C	COPd	3,97	-	
Tj = +7°C	Pdh	2,0	kW	Tj = +7°C	COPd	4,63	-	
Tj = +12°C	Pdh	1,2	kW	Tj = +12°C	COPd	4,86	-	
Tj = bivalent temperature	Pdh	5,4	kW	Tj = bivalent temperature	COPd	2,84	-	
Tj = operation limit temperature	Pdh	5,4	kW	Tj = operation limit temperature	COPd	2,84	-	
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 _{biv}	-10	°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	65	°C	
Power consumption in modes	other thai	active mod	e	Supplementary heater			•	
Off mode	P _{OFF}	0,002	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	P _{TO}	0,007	kW	Type of energy input		electrical		
Standby mode	P _{SB}	0,007	kW					
Crankcase heater mode	P _{CK}	0,009	kW					
Other items				_				
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	•	m ³ /h	
sound power level, indoors/outdoors	L _{WA}	44 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	1	m ³ /h	
Emissions of nitrogen oxides	NO _X	-	mg/kWh					
For heat pump combination h	eater:		<u> </u>					
Declared load profile		XL		Water heating energy efficiency	η_{wh}	102	%	
Daily electricity consumption	Q _{elec}	7,478	kWh	Daily fuel consumption	Qfuel	-	kWh	
Contact details	ait deutsch	land GmbH Ir	dustriestr. 3	95359 Kasendorf Germany	<u>- </u>			
				the rated heat output Prated is equ equal to the supplementary capac			eating	
				tion coefficient is Cdh = 0,9.				

Air-to-water heat pump: (yes/no) Brine-to-water heat pump: (yes/no) Water-to-water heat pump: (yes/no) Low-temperature heat pump: (yes/no) Equipped with supplementary heater: (yes/no) combination heater with: (yes/no) application: (low/medium) climate: (colder/average/warmer) Item Symbol Value Unit Item Symbol Value Unit Item Seasonal space heating energy efficiency Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj Tj = -7°C Pdh 5,0 kW Tj = -7°C COPd 4,37 Tj = +2°C Pdh 3,1 kW Tj = +2°C Pdh 3,1 kW Tj = +2°C COPd 5,24 Tj = +7°C Pdh 7,3 kW Tj = +12°C COPd 5,92 Tj = +12°C Tj = bivalent temperature Pdh 5,4 kW Tj = operation limit temperature Pdh 5,4 kW Tj = operation limit temperature Pdh 5,4 KW Tj = operation limit temperature Pdh 5,4 For air-to-water heat pumps: Tj COPd - 15°C (if TOL < -20°C) Bivalent temperature Tol - 10 Poc For air-to-water heat pumps: TOL - 10 Poc For air-to-wate					
Water-to-water heat pump: (yes/no) Low-temperature heat pump: (yes/no) no Equipped with supplementary heater: (yes/no) yes combination heater with: (yes/no) yes application: (low/medium) low climate: (colder/average/warmer) average Item Symbol Value Unit Rated heat output Prated 6 kW Seasonal space heating energy efficiency ηS 199,4 % 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 5,0 kW Tj = -7°C COPd 4,37 Tj = +2°C Pdh 3,1 kW Tj = +2°C COPd 5,24 Tj = +12°C Pdh 1,3 kW Tj = +12°C COPd 5,92 Tj = bivalent temperature Pdh 5,4 kW Tj = bivalent temperature COPd 4,15 Tj = operation limit temperature Pdh 5,4 kW Tj = operation limit temperature					
Low-temperature heat pump: (yes/no) Equipped with supplementary heater: (yes/no) combination heater with: (yes/no) application: (low/medium) climate: (colder/average/warmer) Item Symbol Value Unit Item Symbol Value Unit Rated heat output Prated 6 kW Seasonal space heating energy efficiency Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj Tj = -7°C Pdh 5,0 kW Tj = -7°C COPd 4,37 - Tj = +2°C Pdh 3,1 kW Tj = +2°C COPd 5,24 - Tj = +7°C Pdh 2,0 kW Tj = +7°C COPd 5,92 - Tj = +12°C Pdh 1,3 kW Tj = +12°C COPd 5,92 - Tj = bivalent temperature Pdh 5,4 kW Tj = bivalent temperature COPd 4,15 - Tj = operation limit temperature Pdh 5,4 kW Tj = operation limit temperature COPd 4,15 - For air-to-water heat pumps: Tj Pdh - e-15°C (if TOL < -20°C) Bivalent temperature Tibn Value Urit Item Symbol Value Urit Item Symb					
Equipped with supplementary heater: (yes/no)					
combination heater with: (yes/no) yes application: (low/medium) low climate: (colder/average/warmer) average Item Symbol Value Unit Item Symbol Value Ur Rated heat output Prated 6 kW Seasonal space heating energy efficiency ηS 199,4 % 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 5,0 kW Tj = -7°C COPd 4,37 - Tj = +2°C Pdh 3,1 kW Tj = +2°C COPd 5,24 - Tj = +7°C Pdh 2,0 kW Tj = +7°C COPd 5,92 - Tj = bivalent temperature Pdh 1,3 kW Tj = +12°C COPd 5,95 - Tj = operation limit temperature Pdh 5,4 kW Tj = operation limit temperature COPd 4,15 - For air-to-water heat pumps: Tj = -15°C (iff TOL < -20°C) Pdh - kW <					
application: (low/medium) low climate: (colder/average/warmer) average Item Symbol Value Unit Item Symbol Value Urit Rated heat output Prated 6 kW Seasonal space heating energy efficiency ηS 199,4 % 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 5,0 kW Tj = -7°C COPd 4,37 - Tj = +2°C Pdh 3,1 kW Tj = +2°C COPd 5,24 - Tj = +7°C Pdh 2,0 kW Tj = +7°C COPd 5,92 - Tj = +12°C Pdh 1,3 kW Tj = +12°C COPd 5,95 - Tj = bivalent temperature Pdh 5,4 kW Tj = bivalent temperature COPd 4,15 - Tj = operation limit temperature Pdh 5,4 kW Tj = operation limit temperature COPd 4,15 - For air-to					
climate: (colder/average/warmer) Item Symbol Value Unit Item Symbol Value Urit Rated heat output Prated 6 kW Seasonal space heating energy efficiency Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj Tj = -7°C Pdh 5,0 kW Tj = -7°C COPd 4,37 - Tj = +2°C Pdh 3,1 kW Tj = +2°C COPd 5,24 - Tj = +7°C Pdh 2,0 kW Tj = +7°C COPd 5,92 - Tj = +12°C Pdh 1,3 kW Tj = +12°C COPd 5,92 - Tj = bivalent temperature Pdh 5,4 kW Tj = bivalent temperature COPd 4,15 - Tj = operation limit temperature Pdh 5,4 kW Tj = operation limit temperature Pdh 5,4 kW Tj = operation limit temperature COPd 4,15 - To air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Bivalent temperature T _i Value Urit Item Symbol Value Urit Item Part Item Symbol Value Urit Item Part Item Symbol Value Urit Item Part Ite	yes				
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Rated heat outputPrated6kWSeasonal space heating energy efficiency ηS 199,4%Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TjDeclared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj $Tj = -7^{\circ}C$ Pdh5,0kW $Tj = -7^{\circ}C$ COPd4,37- $Tj = +2^{\circ}C$ Pdh3,1kW $Tj = +2^{\circ}C$ COPd5,24- $Tj = +7^{\circ}C$ Pdh2,0kW $Tj = +7^{\circ}C$ COPd5,92- $Tj = +12^{\circ}C$ Pdh1,3kW $Tj = +12^{\circ}C$ COPd5,95- $Tj = $ bivalent temperaturePdh5,4kW $Tj = $ bivalent temperatureCOPd4,15- $Tj = $ operation limit temperaturePdh5,4kW $Tj = $ operation limit temperatureCOPd4,15- $Tj = $ operation limit temperaturePdh-kWFor air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)COPdBivalent temperature T_{biv} -10°CFor air-to-water heat pumps:TOL-10°C	average				
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature TjDeclared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj $Tj = -7^{\circ}C$ Pdh $5,0$ kW $Tj = -7^{\circ}C$ COPd $4,37$ - $Tj = +2^{\circ}C$ Pdh $3,1$ kW $Tj = +2^{\circ}C$ COPd $5,24$ - $Tj = +7^{\circ}C$ Pdh $2,0$ kW $Tj = +7^{\circ}C$ COPd $5,92$ - $Tj = +12^{\circ}C$ Pdh $1,3$ kW $Tj = +12^{\circ}C$ COPd $5,95$ - $Tj = $ bivalent temperaturePdh $5,4$ kW $Tj = $ bivalent temperatureCOPd $4,15$ - $Tj = $ operation limit temperaturePdh $5,4$ kW $Tj = $ operation limit temperatureCOPd $4,15$ - $Tj = $ operation temperaturePdh $5,4$ kW $Tj = $ operation limit temperatureCOPd $4,15$ - $Tj = $ operation temperaturePdh $5,4$ kW $Tj = $ operation limit temperatureCOPd $4,15$ - $Tj = $ operation temperaturePdh $5,4$ kW $Tj = $ operation limit temperatureCOPd $4,15$ - $Tj = $ operation temperaturePdh $5,4$ kW $Tj = $ operation limit temperatureCOPd $4,15$ - $Tj = $ operation temperaturePdh $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$ $5,4$	nit				
temperature 20 °C and outdoor temperature TjTj = -7 °CPdh5,0kWTj = -7 °CCOPd4,37-Tj = +2 °CPdh3,1kWTj = +2 °CCOPd5,24-Tj = +7 °CPdh2,0kWTj = +7 °CCOPd5,92-Tj = +12 °CPdh1,3kWTj = +12 °CCOPd5,95-Tj = bivalent temperaturePdh5,4kWTj = bivalent temperatureCOPd4,15-Tj = operation limit temperaturePdh5,4kWTj = operation limit temperatureCOPd4,15-For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	, D				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	r				
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$ Tj = +12 ^{\circ} C $					
Tj = bivalent temperature Pdh 5,4 kW Tj = bivalent temperature COPd 4,15 - Tj = operation limit temperature Pdh 5,4 kW Tj = operation limit temperature COPd 4,15 - For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C) Bivalent temperature T _{biv} -10 °C For air-to-water heat pumps: TOL -10 °C					
Tj = operation limit temperature Pdh 5,4 kW Tj = operation limit temperature COPd 4,15 - For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Pdh					
For air-to-water heat pumps: Tj Pdh - kW For air-to-water heat pumps: Tj COPd15°C (if TOL < -20°C) Bivalent temperature T _{biv} -10 °C For air-to-water heat pumps: TOL -10 °C					
$= -15 ^{\circ} \text{C (if TOL} < -20 ^{\circ} \text{C)}$ $= -15 ^{\circ} \text{C (if TOL} < -20 ^{\circ} \text{C)}$ Bivalent temperature $T_{\text{biv}} \qquad -10 \qquad ^{\circ} \text{C} \qquad \text{For air-to-water heat pumps:} \qquad TOL \qquad -10 \qquad ^{\circ} \text{C}$					
Niv Niv Niv Niv Niv Ni					
Operation limit temperature	3				
Cycling interval capacity for Pcych - kW Cycling interval efficiency COPcyc heating					
Degradation co-efficient (**) Cdh 1,0 - Heating water operating limit temperature WTOL 65 °C	0				
Power consumption in modes other than active mode Supplementary heater					
Off mode P _{OFF} 0,002 kW Rated heat output Psup - kV	N				
Thermostat-off mode P _{TO} 0,007 kW Type of energy input electrical					
Standby mode P _{SB} 0,007 kW					
Crankcase heater mode P _{CK} 0,009 kW					
Other items					
Capacity control variable For air-to-water heat pumps: m³ Rated air flow rate, outdoors	/h				
sound power level, indoors/outdoors L _{WA} L _{WA} 44 / - dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	/h				
Emissions of nitrogen oxides NO _X - mg/kWh					
For heat pump combination heater:					
Declared load profile - Water heating energy efficiency η_{wh} - %	ó				
Daily electricity consumption Q _{elec} - kWh Daily fuel consumption Qfuel - kW	√ h				
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).					
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.					