

10061402

alpha innotec

SWP 371



55 °C

35 °C



\Lambda ++

 A^+

Α

В

L

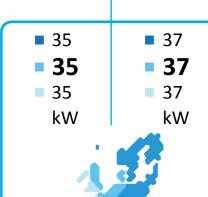
A⁺⁺



(i)) **54** dB



- dB



2019 811/2013



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SWP 371



55 °C

35 °C



Λ++

 \mathbf{A}^{+}

Δ

В

L

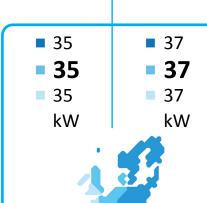
A⁺⁺

A***





dB



2019 811/2013



IJA ENERG енергия · ενεργεια

10061402

alpha innotec

SWP 371 + Luxtronik 2.05



















































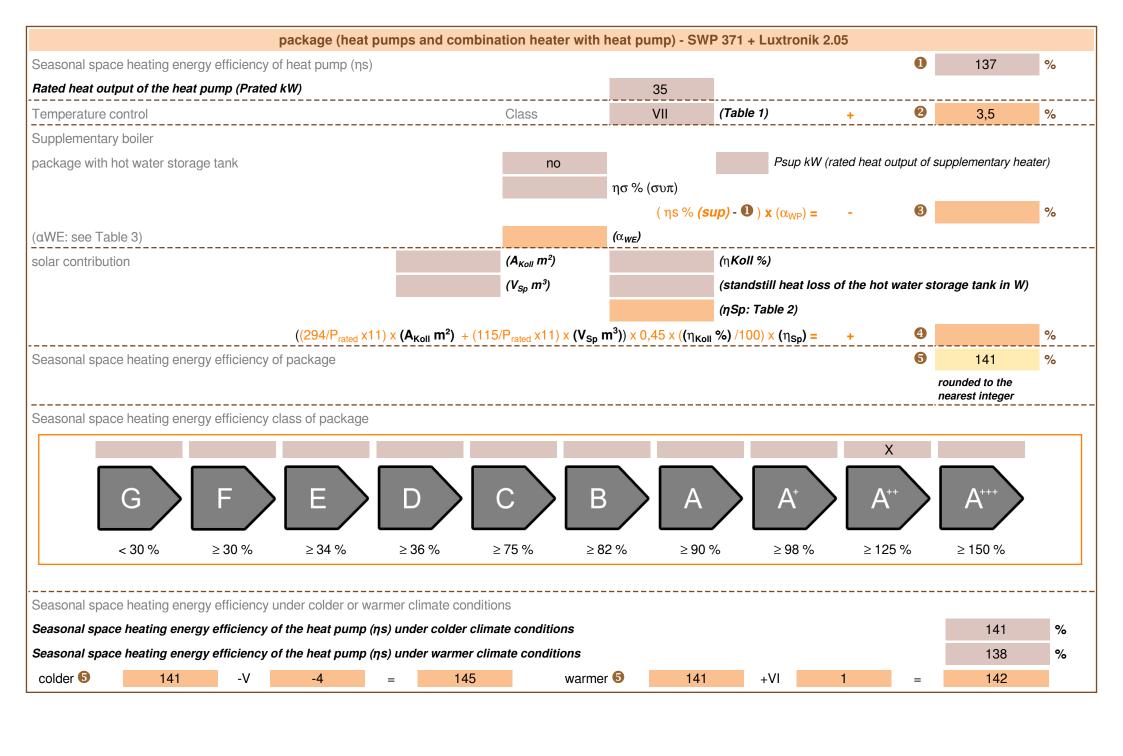








2015 811/2013



manufacturer:	alpha innotec SWP 371			
model:				
	•			
Information concerning energy efficiency class and rate	d heat output:			
	average / low	average / medium		
energy efficiency class space heater:	A+++	A++	-	
rated heat output:	37	35	kW	
energy efficiency space heater:	201	137	%	
annual final energy consumption space heater	14673	19832	kWh	
	•	•	•	
sound power level indoors		54	dB	
special precautions concerning assembly, installation of All instructional work in this manual may only be carried out by regulations.		nnel in compliance with loca	al	
All instructional work in this manual may only be carried out by		nnel in compliance with loca	al	
All instructional work in this manual may only be carried out by regulations.	qualified specialist persor		al	
All instructional work in this manual may only be carried out by regulations. additional information	qualified specialist persor	medium		
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate	qualified specialist persor		al kW	
All instructional work in this manual may only be carried out by	qualified specialist persor	medium		
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate	qualified specialist persor	medium 35	kW	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	low 37 37	medium 35 35	kW kW	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate	low 37 37 207	medium 35 35 141	kW kW	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate	low 37 37 207 204	medium 35 35 141 138	kW kW %	
All instructional work in this manual may only be carried out by regulations. additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate energy effiency space heater warmer climate annual energy consumption space heater colder climate	low 37 37 207 204 17024	medium 35 35 141 138 23100	kW kW % kWh	

technical data of the temperature controller						
manufacturer:	alpha innotec					
model:	Luxtronik 2.05					
controller class	VII	-				
contribution of the controller to the energy efficiency space heater	3,5	%				

Second S	Model				SWP 371				
Mater-to-water heat pump: (yes/no)	Air-to-water heat pump: (yes/no)								
cov-temperature heat pump; (yes/no) Guipped with supplementary heater; (yes/no) population; (low/medium) saverage tem Symbol Value Unit litem	Brine-to-water heat pump: (yes/no)				yes				
Equipped with supplementary heater: (yes/ino)	Water-to-water heat pump: (yes/no)			no					
pombination heater with: (yes/no) application: (low/medium) application: (low/medium) average tem	Low-temperature heat pump: (yes/no)			no					
Implication: (low/medium) Implication: (low/medium) Implication: (low/medium) Implication: (low/medium) Implication: (low/medium) Implication: (low/medium) Implication: (low/medium) Implication: (low/medium) Implication: (low/medium) Implication: (low/medium) Implication: Implicati	Equipped with supplementary heater: (yes/no)			yes					
Symbol Value Unit Item Symbol Value Unit Uni	combination heater with: (yes/no))			no				
Symbol Value Unit Rated heat output Prated 35 kW Seasonal space heating energy efficiency ηS 137,2 % Seasonal space heating energy efficiency ηS 137,2 Seasonal space heati	application: (low/medium)			medium					
Prace 35 kW Seasonal space heating energy efficiency \(\text{n} \)	climate: (colder/average/warmer))			average				
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
	Rated heat output	Prated	35	kW		ηS	137,2	%	
$ T_j = +2^{\circ}C $				indoor		Declared coefficient of performance for part load at indoor			
Tj = +7°C Pdh 36,4 kW Tj = +7°C COPd 3,98 - Tj = +12°C Pdh 36,9 kW Tj = +12°C COPd 4,44 - Tj = bivalent temperature Pdh 34,8 kW Tj = bivalent temperature COPd 2,94 - Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - Tj = operation limit temperature CO	Tj = -7°C	Pdh	35,1	kW	Tj = -7°C	COPd	3,06	-	
Tj = +12°C Pdh 36,9 kW Tj = +12°C COPd 4,44 - Tj = bivalent temperature Pdh 34,8 kW Tj = bivalent temperature COPd 2,94 - Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - ToPd 2,94 - Tj = operation limit temperature COPd 2,94 - ToPd 2,94	Tj = +2°C	Pdh	35,9	kW	Tj = +2°C	COPd	3,58	-	
Tj = bivalent temperature Pdh 34,8 kW Tj = bivalent temperature COPd 2,94 - Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - Tor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Tor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Tor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Tor air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Tor air-to-water heat pumps: ToL = -10 °C Tol = -	Tj = +7°C	Pdh	36,4	kW	Tj = +7°C	COPd	3,98	-	
Tj = operation limit temperature Pdh 34,8 kW Tj = operation limit temperature COPd 2,94 - For air-to-water heat pumps: Tj	Tj = +12°C	Pdh	36,9	kW	Tj = +12°C	COPd	4,44	-	
For air-to-water heat pumps: Tj	Tj = bivalent temperature	Pdh	34,8	kW	Tj = bivalent temperature	COPd	2,94	-	
=-15 °C (if TOL <-20 °C) Bivalent temperature T biv T b	Tj = operation limit temperature	Pdh	34,8	kW	Tj = operation limit temperature	COPd	2,94	-	
Cycling interval capacity for Pcych - kW Cycling interval efficiency COPcyc	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	-	kW		COPd	-	-	
Degradation co-efficient (**) Cdh 1,0 - Heating water operating limit wTOL Bupplementary heater Supplementary heater Supplemen	Bivalent temperature	T _{biv}	-10	°C		TOL	-10	°C	
Power consumption in modes other than active mode Off mode Poff	Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-	
Off mode	Degradation co-efficient (**)	Cdh	1,0	-		WTOL	60	°C	
Thermostat-off mode	Power consumption in modes	other thai	n active mod	e	Supplementary heater				
Thermostat-off mode	Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	-	kW	
Standby mode	Thermostat-off mode		0,015	kW	Type of energy input		electrical		
Capacity control fixed For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors For heat pump combination heater: Capacity consumption Qelec Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Water heating energy efficiency Now Now Now Now Now Now Now No	Standby mode	P_{SB}	0,015	kW					
Capacity control fixed fixed For air-to-water heat pumps: Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat exchanger For heat pump combination heater: Declared load profile - Water heating energy efficiency \(\eta_{wh} \) - \(\eta_{wh} \) Daily electricity consumption \(\Q_{elec} \) - kWh Daily fuel consumption \(\Q_{elec} \) - kWh Contact details To 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).	Crankcase heater mode	P _{CK}	-	kW					
Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat pumps: R	Other items						_	_	
pumps: Rated brine or water flow rate, outdoor heat exchanger Emissions of nitrogen oxides NO _X - mg/kWh For heat pump combination heater: Declared load profile - Water heating energy efficiency η _{wh} - % Daily electricity consumption Q _{elec} - 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).	Capacity control		fixed			-	-	m ³ /h	
For heat pump combination heater: Declared load profile Coally electricity consumption Qelec AWh Daily fuel consumption Qfuel Awh Contact details Ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany The heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Podesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	sound power level, indoors/outdoors	L _{WA}	54 / -	dB	pumps: Rated brine or water flow rate, outdoor heat	-	13	m ³ /h	
Declared load profile - Water heating energy efficiency η_{wh} - % Daily electricity consumption Q _{elec} - 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).	Emissions of nitrogen oxides	NO _X	-	mg/kWh					
Daily electricity consumption Qelec - 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).	For heat pump combination h	eater:							
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	η_{wh}	-	%	
*) 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).	Daily electricity consumption	Q _{elec}	-	kWh	Daily 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).	Contact details	ait deutsch	land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany				
								eating	
	(**) If Cdh is not determined by m	neasuremen	it then the defa	ault degrada	tion coefficient is Cdh = 0,9.				

Model				SWP 371			
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)			no				
application: (low/medium)				low			
climate: (colder/average/warmer)				average			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	37	kW	Seasonal space heating energy efficiency	ηS	201,4	%
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	37,2	kW	Tj = -7°C	COPd	4,85	-
Tj = +2°C	Pdh	37,5	kW	Tj = +2°C	COPd	5,19	-
Tj = +7°C	Pdh	37,7	kW	Tj = +7°C	COPd	5,52	-
Tj = +12°C	Pdh	38,0	kW	Tj = +12°C	COPd	5,86	-
Tj = bivalent temperature	Pdh	37,2	kW	Tj = bivalent temperature	COPd	4,79	-
Tj = operation limit temperature	Pdh	37,2	kW	Tj = operation limit temperature	COPd	4,79	-
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	60	°C
Power consumption in modes	other tha	n active mod	e	Supplementary heater	•		
Off mode	P _{OFF}	0,015	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	P _{TO}	0,015	kW	Type of energy input		electrical	
Standby mode	P _{SB}	0,015	kW				
Crankcase heater mode	P _{CK}	-	kW				
Other items							
Capacity control	fixed			For air-to-water heat pumps: Rated air flow rate, outdoors	-	-	m ³ /h
sound power level, indoors/outdoors	L _{WA}	54 / -	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	13	m ³ /h
Emissions of nitrogen oxides	NO _X	-	mg/kWh				
For heat pump combination h	eater:						
Declared load profile		-		Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Contact details		land GmbH Ir	ndustriestr. 3	95359 Kasendorf Germany	-		-
				the rated heat output Prated is equ equal to the supplementary capac			eating
(**) If Cdh is not determined by m	neasuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.		-	