

10062102

alpha innotec

SWP 561H



55 °C

35 °C



Λ ++

 \mathbf{A}^{+}

Δ

В

L

A***

59 dB



- dB

52

52 52

kW

54

54

54

kW



2019

811/2013



10062102

alpha innotec

SWP 561H



55 °C

35 °C



Λ++

Δ+

Δ

В

L

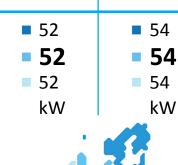
 A^{++}

A***





dB







ENERG IJA енергия · ενεργεια

10062102

alpha innotec

SWP 561H + Luxtronik 2.05

























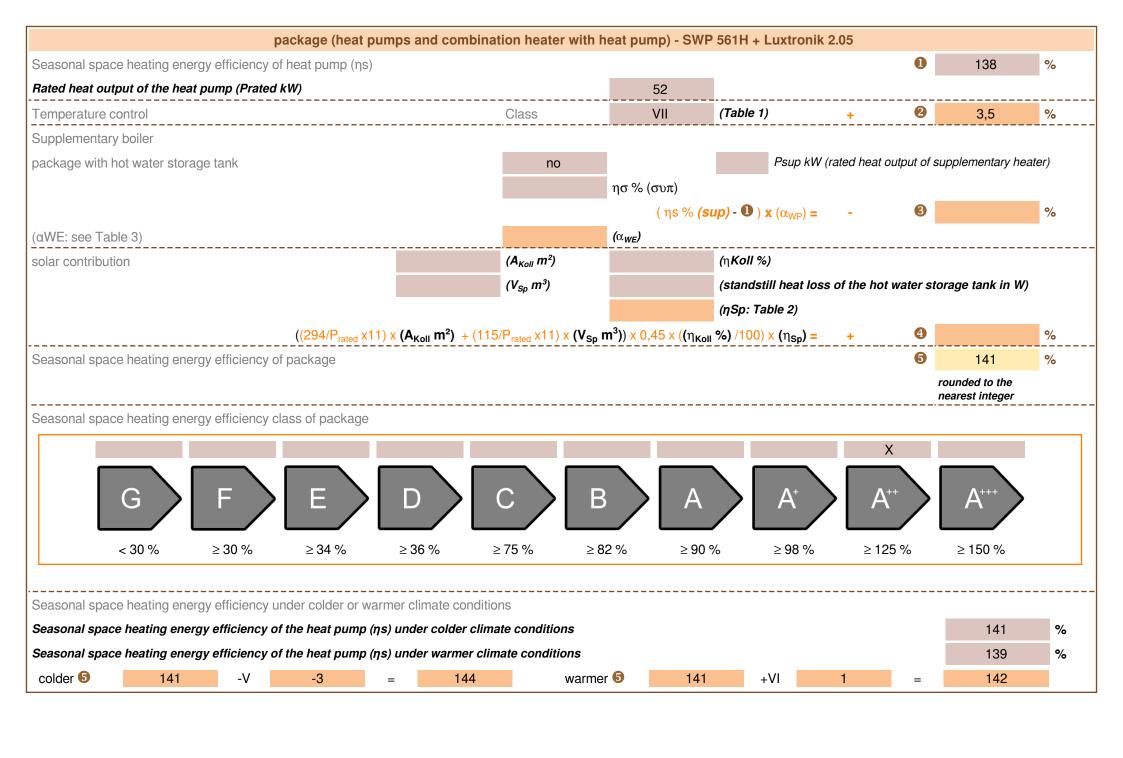












manufacturer:	ufacturer: alpha innotec				
model:	SWP 561H				
Information concerning energy efficiency class and rate	d heat output:				
3, ,					
	average / low	average / medium			
energy efficiency class space heater:	A+++	A++	-		
rated heat output:	54	52	kW		
energy efficiency space heater:	181	138	%		
annual final energy consumption space heater	23745	29660	kWh		
			•		
sound power level indoors		59	dB		
special precautions concerning assembly, installation o					
All instructional work in this manual may only be carried out by regulations.	qualified specialist persor	nnel in compliance with loca	al		
· · ·	qualified specialist persor	nnel in compliance with loca	al		
• •	qualified specialist persor	nnel in compliance with loca	al		
regulations.	qualified specialist persor	medium	al		
regulations. additional information			al kW		
additional information rated heat output colder climate	low	medium			
additional information rated heat output colder climate rated heat output warmer climate	low 54	medium 52	kW		
additional information rated heat output colder climate rated heat output warmer climate energy effiency space heater colder climate	low 54 54	medium 52 52	kW kW		
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 54 54 185	medium 52 52 52 141	kW kW %		
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 warmer climate annual energy consumption space heater warmer climate	low 54 54 185 183	medium 52 52 141 139	kW kW %		
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 54 54 185 183 27699	medium 52 52 141 139 34583	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	%			

Air-to-water heat pump: (yes/no) Brine-to-water heat pump: (yes/no)			no						
			IIIO			no			
		Brine-to-water heat pump: (yes/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 Symbo	ol Value	Unit	Item	Symbol	Value	Unit			
Rated heat output Prated	J 52	kW	Seasonal space heating energy efficiency	ηS	137,9	%			
Declared coefficient of performance temperature 20°C and outdoor temperature		indoor	Declared coefficient of perfor temperature 20°C and outdoor			ndoor			
Tj = -7°C Pdh	52,6	kW	Tj = -7°C	COPd	3,09	-			
Tj = +2°C Pdh	53,4	kW	Tj = +2°C	COPd	3,59	-			
Tj = +7°C Pdh	53,9	kW	Tj = +7°C	COPd	3,98	-			
Tj = +12°C Pdh	54,4	kW	Tj = +12°C	COPd	4,43	-			
Tj = bivalent temperature Pdh	52,4	kW	Tj = bivalent temperature	COPd	2,97	-			
Tj = operation limit temperature Pdh	52,4	kW	Tj = operation limit temperature	COPd	2,97	-			
For air-to-water heat pumps: Tj Pdh = -15°C (if TOL < -20°C)	-	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 Pcych heating	-	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 _{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, L _{WA} indoors/outdoors	59 / -	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 heater:									
Declared load profile			Water heating energy efficiency	η_{wh}		%			
Daily electricity consumption Q _{elec}		kWh	Daily fuel consumption	Qfuel	-	kWh			
Contact details ait deut	schland GmbH I	ndustriestr. 3	95359 Kasendorf Germany	<u>- </u>					
(*) For heat pump space heaters and heat Pdesignh, and the rated heat output of a state of the s						eating			
(**) If Cdh is not determined by measuren	nent then the def	ault degrada	tion coefficient is Cdh = 0,9.						

Service-to-water heat pump: (yes/no)	Model				SWP 561H			
Nation-to-water heat pump: (yes/no)	Air-to-water heat pump: (yes/no)							
Cov-temperature heat pump; (yes/no) Gujoped with supplementary heater; (yes/no) Supplication; (covimedium) Prated 54 kW Seasonal space heating Is them Symbol Value Unit Item Seasonal space heating In Symbol Value Unit Item Season	Brine-to-water heat pump: (yes/no)			yes				
Equipped with supplementary heater; (yes/no)	Water-to-water heat pump: (yes/no)			no	no			
Declared coefficient of performance for part load at Indoor temperature 20°C and outdoor temperature 17°C	Low-temperature heat pump: (ye	s/no)			no			
Declared coefficient of performance for part load at indoor temperature Symbol Value Unit Nate Seasonal space heating nS 181,1 % Seasonal space heating nS Seasona	Equipped with supplementary he	ater: (yes/no	0)					
Symbol Value Unit Item Symbol Value Unit Unit Item Symbol Value Unit Unit Value Unit	combination heater with: (yes/no))			no			
Symbol Value Unit Item Symbol Value Unit Item Seasonal space heating energy efficiency \(\eta \) \(\frac{1}{2} \) \(\frac{1} \) \(\frac{1}{2} \) \(application: (low/medium)				low			
Rated heat output Prated 54 kW Seasonal space heating nS 181,1 % Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj Tj = 7°C Tj = 7°C Pdh 54,4 kW Tj = -7°C OPd 4,444 - Tj = +2°C OPd 4,69 - Tj = +2°C OPd 4,69 - Tj = +2°C OPd 4,69 - Tj = +12°C OPd 4,69 - Tj = +12°C OPd 5,16 kW Tj = +2°C OPd 4,69 - Tj = +12°C OPd 4,69 - Tj = branch 55,0 kW Tj = +12°C OPd 5,16 c Tj = branch 54,3 kW Tj = +12°C OPd 5,16 c Tj = branch 54,3 kW Tj = operation limit temperature Pdh 54,3 kW Tj = operation limit temperature Pro air-to-water heat pumps: Tj = 15°C (if TOL < -20°C) Prover (if TOL < -20°C) Prover on the part of t	climate: (colder/average/warmer))			average			
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj Tj = 7°C Pdh 54,6 kW Tj = 7°C QOPd 4,69 - Tj = +2°C Pdh 54,6 kW Tj = +2°C QOPd 4,69 - Tj = +12°C Pdh 54,8 kW Tj = +2°C QOPd 4,69 - Tj = +12°C QOPd 4,69 - Tj = +12°C QOPd 5,16 - Tj = brance	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
	Rated heat output	Prated	54	kW		ηS	181,1	%
$ T_j = +2 \circ C \\ T_j = +7 \circ C \\ Pdh \\ 54,8 \\ kW \\ T_j = +7 \circ C \\ Pdh \\ 54,8 \\ kW \\ T_j = +7 \circ C \\ COPd \\ 4,69 \\ - \\ COPd \\ 4,92 \\ - \\ COPd \\ 4,44 \\ - \\ - \\ COPd \\ - \\ COPd \\ 4,44 \\ - \\ - \\ COPd \\ - \\ - \\ COPd \\ 4,44 \\ - \\ - \\ - \\ COPd \\ - \\ - \\ COPd \\ - \\ - \\ COPd \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ $				indoor				indoor
$T] = +7^{\circ}C \qquad Pdh \qquad 54.8 \qquad kW \qquad T] = +7^{\circ}C \qquad COPd \qquad 4.92 \qquad -T] = 12^{\circ}C \qquad Pdh \qquad 55.0 \qquad kW \qquad T] = +12^{\circ}C \qquad COPd \qquad 5.16 \qquad -T] = 10^{\circ}$ $T] = 10^{\circ}$	Tj = -7°C	Pdh	54,4	kW	Tj = -7°C	COPd	4,44	-
Tj = +12°C Pdh 55,0 kW Tj = +12°C COPd 5,16 - Tj = bivalent temperature Pdh 54,3 kW Tj = bivalent temperature COPd 4,44 - Tj = operation limit temperature Pdh 54,3 kW Tj = operation limit temperature COPd 4,44 - Tj = operation limit temperature Pdh 54,3 kW Tj = operation limit temperature COPd 4,44 - Tj = operation limit temperature COPd 5,16 - To air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) COPd - To air-to-water heat pumps: TOL -10 °C COPcycling interval capacity for Pcych - kW Cycling interval efficiency COPcyc - To air-to-water heat pumps: TOL -10 °C COPcycling interval efficiency COPcyc - To air-to-water heat pumps: TOL -10 °C COPcycling interval efficiency COPcyc - To air-to-water heat pumps: TOL -10 °C COPcycling interval efficiency COPcyc - To air-to-water heat pumps: TOL -10 °C COPcycling interval efficiency COPcyc - To air-to-water heat pumps: TOL -10 °C COPcycling interval efficiency COPcyc - To air-to-water heat pumps: TOL -10 °C COPcycling interval efficiency COPcyc - To air-to-water heat pumps: TOL -10 °C COPcycling interval efficiency COPcyc - To air-to-water heat pumps - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C COPcyc - To air-to-water heat pumps: TOL -10 °C C	Tj = +2°C	Pdh	54,6	kW	Tj = +2°C	COPd	4,69	-
Tj = bivalent temperature Pdh 54,3 kW Tj = bivalent temperature COPd 4,44 - Tj = operation limit temperature Pdh 54,3 kW Tj = operation limit temperature COPd 4,44 - Tj = operation limit temperature Pdh 54,3 kW Tj = operation limit temperature COPd 4,44 - Tj = operation limit temperature Pdh 54,3 kW Tj = operation limit temperature COPd 4,44 - Tj = operation limit temperature COPd 5 coperation li	Tj = +7°C	Pdh	54,8	kW	Tj = +7°C	COPd	4,92	-
Tj = operation limit temperature Pdh 54,3 kW Tj = operation limit temperature COPd 4,44 - 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) Pdh - kW For air-to-water heat pumps: Tj -15°C (if TOL < -20°C) Por air-to-water heat pumps: Tj -10 °C Por air-to-water heat pump heater Por air-to-water heat pump heater Por air-to-water heat pumps: Tj -10 °C Por air-to-water heat pumps: Tj -10	Tj = +12°C	Pdh	55,0	kW	Tj = +12°C	COPd	5,16	-
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Sivalent temperature Tbiv -10 °C For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) Sivalent temperature Tbiv -10 °C For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C) For air-to-water heat pumps: ToL = -10 °C Specific fire temperature ToL = -10 °C Cycling interval capacity for peculiar temperature Cycling interval efficiency CoPcyc =	Tj = bivalent temperature	Pdh	54,3	kW	Tj = bivalent temperature	COPd	4,44	-
= -15 °C (if TOL < -20 °C) Bivalent temperature T biv T	Tj = operation limit temperature	Pdh	54,3	kW	Tj = operation limit temperature	COPd	4,44	-
Operation limit temperature Operation limit limitation Operature Operation Poprat NW Popration NW Popration Operation Operation Operation Operation Operation Operation Operation Operation Operation Operati	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 temperature Supplementary heater Psup - kW Type of energy input electrical Electrical For air-to-water heat pumps: Rated air flow rate, outdoors Sound power level, andoors/outdoors Supplementary heater 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 exchanger Emissions of nitrogen oxides NO _X - mg/kWh For heat pump combination heater: Declared load profile - water heat pumps: Declared load profile - kWh Daily fuel consumption Qelec - kWh Daily fuel consumption Qfuel - kWh Contact details All 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).	Bivalent temperature	T _{biv}	-10	°C		TOL	-10	°C
Power consumption in modes other than active mode Off mode Poff 0,015 kW Rated heat output Psup - kW Thermostat-off mode Poff 0,015 kW Type of energy input electrical Standby mode Por 0,015 kW Crankcase heater mode Pok - kW Other items Capacity control fixed For air-to-water heat pumps: Rated air flow rate, outdoors Rated air flow rate, outdoors For water-/brine-to-water heat pumps: Rated brine or water flow rate outdoors Emissions of nitrogen oxides NO _X - mg/kWh For heat pump combination heater: Declared load profile Outlet consumption Qelec Awh Daily fuel consumption Qelec Awh Daily fuel consumption Qelec To heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating energy efficiency Poesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Off mode	Degradation co-efficient (**)	Cdh	1,0	-		WTOL	70	°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
Crankcase heater mode	Thermostat-off mode		0,015	kW	Type of energy input		electrical	
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 exchanger For heat pump combination heater: Declared load profile - Water heating energy efficiency \eta_{wh} - \eta_{wh} - \eta_{wh} Daily electricity consumption Q_{elec} - kWh Daily fuel consumption Qfuel - kWh Contact details Pedesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).	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, 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 pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated air flow rate, outdoors Water heating energy efficiency Rated brine or water flow rate, outdoors NO _X Water heating energy efficiency Rated brine or water flow rate, outdoors NO _X	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: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor heat pumps: Rated brine or water flow rate, outdoor water flow rate, outdoor heat pumps: Rated brine or water flow ra	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 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).	Capacity control	fixed				-	-	m ³ /h
For heat pump combination heater: Declared load profile Contact details A lit deutschland GmbH Industriestr. 3 95359 Kasendorf Germany The profile of the 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).	sound power level, indoors/outdoors	L _{WA}	59 / -	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			
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.								eating
	(**) If Cdh is not determined by m	neasuremen	t then the defa	ault degrada	tion coefficient is Cdh = 0,9.			