

Modell	SPH-W0500-T1Q00-022H (R-134a)
Air-to-water heat pump:	No
Water-to-water heat pump:	Yes
Brine-to-water heat pump:	No
Low-temperature heat pump:	No
Equipped with a supplementary heater:	No
Heat pump combination heater:	No
Parameters are declared for applications with:	medium-temperature (55°C)

clared for applications with:	medium-temperature (55°C)
	average climate

Item	Symbol	Value	Unit
Rated heat output	Prated	416,34	kW
Declared capacity for heating for part load at indoor temperature 20 °	C and outd	loor temperatu	re Tj
Tj = -7°C	P <sub>dh</sub>	368	kW
Tj = +2°C	P <sub>dh</sub>	224	kW
Tj = +7°C	P <sub>dh</sub>	153	kW
Tj = +12°C	P <sub>dh</sub>	128	kW
Tj = -10°C (bivalent temperature)	P <sub>dh</sub>	416	kW
Tj = -10°C (operation limit temperature)	P <sub>dh</sub>	416	kW
Bivalent temperature	T <sub>biv</sub>	-10	°C
Degradation coefficient*	C <sub>dh</sub>	0,90	-
Power consumption in modes other than active mode			
Off mode	Poff	-	kW
Thermostat-off mode	P <sub>TO</sub>	4,73	kW
Standby mode	P <sub>SB</sub>	0,24	kW
Crankcase heater mode	P <sub>CK</sub>	-	kW
Sonstige Elemente			
Capacity control		varia	able
Sound power level	L <sub>WA</sub>	94	dB(A)
Annual energy consumption	QHe	170.262	kWh
Rated brine or water flow rate, evaporator		91,8	m³/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	194,04	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 2	0 °C and outdoo	or temperature	тj
Tj = -7°C	COPd	4,44	-
Tj = +2°C	COPd	5,13	-
Tj = +7°C	COP <sub>d</sub>	5,32	-
Tj = +12°C	COPd	6,09	-
Tj = -10°C (bivalent temperature)	COPd	4,18	-
Tj = -10°C (operation limit temperature)	COP <sub>d</sub>	4,18	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	Psup	0	W
Type of energy input		-	

\* If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

The harmonized standards EN14511 and EN14825 have been used for testing and calculation

Water/Brine pumps are fictive and not included in the delivery. Pump power on evaporator and condenser side is calculated according to EN14511-3, Annex G



Modell	SPH-W1000-T3Q00-044H (R-134a)
Air-to-water heat pump:	No
Water-to-water heat pump:	Yes
Brine-to-water heat pump:	No
Low-temperature heat pump:	No
Equipped with a supplementary heater:	No
Heat pump combination heater:	No

Parameters are declared for applications with: medium-temperature (55°C) average climate

Item	Symbol	Value	Unit
Rated heat output	Prated	822,47	kW
Declared capacity for heating for part load at indoor temperature 20 °	C and outd	oor temperatu	re Tj
Tj = -7°C	P <sub>dh</sub>	727	kW
$Tj = +2^{\circ}C$	P <sub>dh</sub>	443	kW
$Tj = +7^{\circ}C$	P <sub>dh</sub>	285	kW
Tj = +12°C	P <sub>dh</sub>	128	kW
Tj = -10°C (bivalent temperature)	P <sub>dh</sub>	822	kW
Tj = -10°C (operation limit temperature)	P <sub>dh</sub>	822	kW
Bivalent temperature	T <sub>biv</sub>	-10	°C
Degradation coefficient*	C <sub>dh</sub>	0,90	-
Power consumption in modes other than active mode			
Off mode	Poff	-	kW
Thermostat-off mode	P <sub>TO</sub>	8,34	kW
Standby mode	P <sub>SB</sub>	0,24	kW
Crankcase heater mode	P <sub>CK</sub>	-	kW
Sonstige Elemente			
Capacity control		varia	able
Sound power level	L <sub>WA</sub>	97	dB(A)
Annual energy consumption	QHe	327.504	kWh
Rated brine or water flow rate, evaporator		181,5	m³/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	199,50	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 2	0 °C and outdoo	or temperature	тj
Tj = -7°C	COPd	4,47	-
$Tj = +2^{\circ}C$	COPd	5,16	-
$Tj = +7^{\circ}C$	COP <sub>d</sub>	5,88	-
Tj = +12°C	COPd	5,24	-
Tj = -10°C (bivalent temperature)	COPd	4,21	-
Tj = -10°C (operation limit temperature)	COP <sub>d</sub>	4,21	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	Psup	0	W
Type of energy input		-	

\* If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

The harmonized standards EN14511 and EN14825 have been used for testing and calculation



Symbol

Value

Unit

# Information requirements for heat pump space heaters and heat pump combination heaters according DIN EN 14825:2018

Item

Modell	SPH-W1500-T3Q00-055H (R-134a)		
Air-to-water heat pump:	No		
Water-to-water heat pump:	Yes		
Brine-to-water heat pump:	No		
Low-temperature heat pump:	No		
Equipped with a supplementary heater:	No		
Heat pump combination heater:	No		
Parameters are declared for applications with:	medium-temperature (55°C)		

tions with:	medium-temperature (55°C)
	average climate

Item	Symbol	Value	Unit
Rated heat output	Prated	1415,59	kW
Declared capacity for heating for part load at indoor temperature 20 °	C and outo	loor temperatur	e Tj
Tj = -7°C	P <sub>dh</sub>	1251	kW
Tj = +2°C	P <sub>dh</sub>	762	kW
Tj = +7°C	P <sub>dh</sub>	490	kW
Tj = +12°C	P <sub>dh</sub>	217	kW
Tj = -10°C (bivalent temperature)	P <sub>dh</sub>	1416	kW
Tj = -10°C (operation limit temperature)	P <sub>dh</sub>	1416	kW
Bivalent temperature	T <sub>biv</sub>	-10	°C
Degradation coefficient*	C <sub>dh</sub>	0,90	-
Power consumption in modes other than active mode			
Off mode	Poff	-	kW
Thermostat-off mode	P <sub>TO</sub>	12,90	kW
Standby mode	P <sub>SB</sub>	0,24	kW
Crankcase heater mode	P <sub>CK</sub>	-	kW
Sonstige Elemente			
Capacity control		varia	able
Sound power level	L <sub>WA</sub>	99	dB(A)
Annual energy consumption	QHe	542.223	kWh
Rated brine or water flow rate, evaporator		309,6	m³/h
Contact details			
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Seasonal space heating energy efficiency	η <sub>s</sub>	207,71	%	
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
$Tj = -7^{\circ}C$	COPd	4,42	-	
$Tj = +2^{\circ}C$	COPd	5,42	-	
$Tj = +7^{\circ}C$	COP <sub>d</sub>	6,05	-	
Tj = +12°C	COPd	5,81	-	
Tj = -10°C (bivalent temperature)	COPd	4,11	-	
Tj = -10°C (operation limit temperature)	COP <sub>d</sub>	4,11	-	
Heating water operating limit temperature	WTOL	65	°C	
Supplementary heater				
Rated heat output	Psup	0	W	
Type of energy input		-		

\* If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

The harmonized standards EN14511 and EN14825 have been used for testing and calculation



Modell	SPH-W2000-T4Q00-076H (R-134a)
Air-to-water heat pump:	No
Water-to-water heat pump:	Yes
Brine-to-water heat pump:	No
Low-temperature heat pump:	No
Equipped with a supplementary heater:	No
Heat pump combination heater:	No
Parameters are declared for applications with:	medium-temperature (55°C)

blications with:	medium-temperature (55°C)
	average climate

ltem	Symbol	Value	Unit	
Rated heat output	Prated	1674,54	kW	
Declared capacity for heating for part load at indoor temperature 20	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P <sub>dh</sub>	1481	kW	
Tj = +2°C	P <sub>dh</sub>	903	kW	
Tj = +7°C	P <sub>dh</sub>	581	kW	
Tj = +12°C	P <sub>dh</sub>	259	kW	
Tj = -10°C (bivalent temperature)	P <sub>dh</sub>	1675	kW	
Tj = -10°C (operation limit temperature)	P <sub>dh</sub>	1675	kW	
Bivalent temperature	T <sub>biv</sub>	-10	°C	
Degradation coefficient*	C <sub>dh</sub>	0,90	-	
Power consumption in modes other than active mode				
Off mode	Poff	-	kW	
Thermostat-off mode	P <sub>TO</sub>	14,47	kW	
Standby mode	P <sub>SB</sub>	0,24	kW	
Crankcase heater mode	P <sub>CK</sub>	-	kW	
Sonstige Elemente				
Capacity control		varia	able	
Sound power level	L <sub>WA</sub>	100	dB(A)	
Annual energy consumption	QHe	637.911	kWh	
Rated brine or water flow rate, evaporator		369,3	m³/h	
Contact details				
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	208,89	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature			
Tj = -7°C	COPd	4,50	-
$T_j = +2^{\circ}C$	COPd	5,48	-
$T_j = +7^{\circ}C$	COPd	5,99	-
Tj = +12°C	COPd	5,77	-
Tj = -10°C (bivalent temperature)	COPd	4,22	-
Tj = -10°C (operation limit temperature)	COPd	4,22	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	Psup	0	W
Type of energy input		-	

\* If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

The harmonized standards EN14511 and EN14825 have been used for testing and calculation



Modell	SPH-W2500-T5Q00-087H (R-134a)
Air-to-water heat pump:	No
Water-to-water heat pump:	Yes
Brine-to-water heat pump:	No
Low-temperature heat pump:	No
Equipped with a supplementary heater:	No
Heat pump combination heater:	No
Parameters are declared for applications with:	medium-temperature (55°C)

medium-temperature (55°C)
average climate

Item	Symbol	Value	Unit
Rated heat output	Prated	2002,58	kW
Declared capacity for heating for part load at indoor temperature 20	°C and outo	loor temperatu	re Tj
Tj = -7°C	P <sub>dh</sub>	1772	kW
Tj = +2°C	P <sub>dh</sub>	1081	kW
Tj = +7°C	P <sub>dh</sub>	695	kW
Tj = +12°C	P <sub>dh</sub>	309	kW
Tj = -10°C (bivalent temperature)	P <sub>dh</sub>	2003	kW
Tj = -10°C (operation limit temperature)	P <sub>dh</sub>	2003	kW
Bivalent temperature	T <sub>biv</sub>	-10	°C
Degradation coefficient*	C <sub>dh</sub>	0,90	-
Power consumption in modes other than active mode			
Off mode	Poff	-	kW
Thermostat-off mode	P <sub>TO</sub>	16,87	kW
Standby mode	P <sub>SB</sub>	0,24	kW
Crankcase heater mode	P <sub>CK</sub>	-	kW
Sonstige Elemente			
Capacity control		varia	able
Sound power level	L <sub>WA</sub>	101	dB(A)
Annual energy consumption	QHe	760.071	kWh
Rated brine or water flow rate, evaporator		441,7	m³/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	209,69	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COPd	4,50	-
Tj = +2°C	COPd	5,47	-
$Tj = +7^{\circ}C$	COP <sub>d</sub>	6,12	-
Tj = +12°C	COPd	5,71	-
Tj = -10°C (bivalent temperature)	COPd	4,23	-
Tj = -10°C (operation limit temperature)	COP <sub>d</sub>	4,23	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	Psup	0	W
Type of energy input		-	

\* If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

The harmonized standards EN14511 and EN14825 have been used for testing and calculation



Modell	SPH-W3000-T6Q00-098H (R-134a)
Air-to-water heat pump:	No
Water-to-water heat pump:	Yes
Brine-to-water heat pump:	No
Low-temperature heat pump:	No
Equipped with a supplementary heater:	No
Heat pump combination heater:	No
Parameters are declared for applications with:	medium-temperature (55°C)

average climate

Item	Symbol	Value	Unit	
Rated heat output	Prated	2547,75	kW	
Declared capacity for heating for part load at indoor temperature 20 °	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P <sub>dh</sub>	2254	kW	
Tj = +2°C	P <sub>dh</sub>	1372	kW	
Tj = +7°C	P <sub>dh</sub>	879	kW	
Tj = +12°C	P <sub>dh</sub>	389	kW	
Tj = -10°C (bivalent temperature)	P <sub>dh</sub>	2548	kW	
Tj = -10°C (operation limit temperature)	P <sub>dh</sub>	2548	kW	
Bivalent temperature	T <sub>biv</sub>	-10	°C	
Degradation coefficient*	C <sub>dh</sub>	0,90	-	
Power consumption in modes other than active mode				
Off mode	Poff	-	kW	
Thermostat-off mode	P <sub>TO</sub>	21,78	kW	
Standby mode	P <sub>SB</sub>	0,24	kW	
Crankcase heater mode	P <sub>CK</sub>	-	kW	
Sonstige Elemente				
Capacity control		varia	able	
Sound power level	L <sub>WA</sub>	102	dB(A)	
Annual energy consumption	QHe	968.908	kWh	
Rated brine or water flow rate, evaporator		560,9	m³/h	
Contact details				
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	209,26	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T			
Tj = -7°C	COPd	4,47	-
Tj = +2°C	COPd	5,45	-
Tj = +7°C	COP <sub>d</sub>	6,07	-
Tj = +12°C	COPd	5,94	-
Tj = -10°C (bivalent temperature)	COPd	4,20	-
Tj = -10°C (operation limit temperature)	COP <sub>d</sub>	4,20	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	Psup	0	W
Type of energy input		-	

\* If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

The harmonized standards EN14511 and EN14825 have been used for testing and calculation