Information requirements for heat pump space heaters and heat pump combination heaters according Reg. (EU) 813/2013 and DIN EN 14825:2018

Modell	**SPH-W0360-T1R00-011H (R-1234ze)**
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	P_{rated}	**297,34**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	262	kW
Tj = +2°C	P_{dh}	160	kW
Tj = +7°C	P_{dh}	113	kW
Tj = +12°C	P_{dh}	91	kW
Tj = -10°C (bivalent temperature)	P_{dh}	297	kW
Tj = -10°C (operation limit temperature)	P_{dh}	297	kW
Bivalent temperature	T_{biv}	-10	°C
Degradation coefficient*	C_{dh}	0,90	-
Power consumption in modes other than active mode			
Off mode	P_{off}	-	kW
Thermostat-off mode	P_{TO}	3,54	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	94	dB(A)
Annual energy consumption	QHe	122.964	kWh
Rated brine or water flow rate, evaporator		65,5	m^3/h
Contact details			
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Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	η_S	**191,80**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP_d	4,44	-
Tj = +2°C	COP_d	5,06	-
Tj = +7°C	COP_d	5,30	-
Tj = +12°C	COP_d	5,93	-
Tj = -10°C (bivalent temperature)	COP_d	4,19	-
Tj = -10°C (operation limit temperature)	COP_d	4,19	-
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

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

Modell	SPH-W0720-T2R00-033H (R-1234ze)
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	P_{rated}	**602,39**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	532	kW
Tj = +2°C	P_{dh}	324	kW
Tj = +7°C	P_{dh}	208	kW
Tj = +12°C	P_{dh}	94	kW
Tj = -10°C (bivalent temperature)	P_{dh}	602	kW
Tj = -10°C (operation limit temperature)	P_{dh}	602	kW
Bivalent temperature	T_{biv}	-10	°C
Degradation coefficient*	C_{dh}	0,90	-
Power consumption in modes other than active mode			
Off mode	P_{off}	-	kW
Thermostat-off mode	P_{TO}	6,44	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	97	dB(A)
Annual energy consumption	QHe	241.566	kWh
Rated brine or water flow rate, evaporator		132,9	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	**198,04**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP_d	4,46	-
Tj = +2°C	COP_d	5,14	-
Tj = +7°C	COP_d	5,81	-
Tj = +12°C	COP_d	5,16	-
Tj = -10°C (bivalent temperature)	COP_d	4,19	-
Tj = -10°C (operation limit temperature)	COP_d	4,19	-
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 is according to EN14511-3, Annex G

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

Modell	SPH-W1080-T3R00-044H (R-1234ze)
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	P_{rated}	**821,47**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	726	kW
Tj = +2°C	P_{dh}	441	kW
Tj = +7°C	P_{dh}	284	kW
Tj = +12°C	P_{dh}	125	kW
Tj = -10°C (bivalent temperature)	P_{dh}	821	kW
Tj = -10°C (operation limit temperature)	P_{dh}	821	kW
Bivalent temperature	T_{biv}	-10	°C
Degradation coefficient*	C_{dh}	0,90	-
Power consumption in modes other than active mode			
Off mode	P_{off}	-	kW
Thermostat-off mode	P_{TO}	8,35	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	99	dB(A)
Annual energy consumption	QHe	320.178	kWh
Rated brine or water flow rate, evaporator		181,5	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	**203,99**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP_d	4,47	-
Tj = +2°C	COP_d	5,42	-
Tj = +7°C	COP_d	5,73	-
Tj = +12°C	COP_d	5,52	-
Tj = -10°C (bivalent temperature)	COP_d	4,23	-
Tj = -10°C (operation limit temperature)	COP_d	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

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

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

Modell	**SPH-W1440-T4R00-066H (R-1234ze)**
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	P_{rated}	**1445,46**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1278	kW
Tj = +2°C	P_{dh}	778	kW
Tj = +7°C	P_{dh}	500	kW
Tj = +12°C	P_{dh}	221	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1445	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1445	kW
Bivalent temperature	T_{biv}	-10	°C
Degradation coefficient*	C_{dh}	0,90	-
Power consumption in modes other than active mode			
Off mode	P_{off}	-	kW
Thermostat-off mode	P_{TO}	12,40	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	100	dB(A)
Annual energy consumption	QHe	552.552	kWh
Rated brine or water flow rate, evaporator		314,5	m^3/h
Contact details			
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Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	η_S	**208,14**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP_d	4,38	-
Tj = +2°C	COP_d	5,46	-
Tj = +7°C	COP_d	6,12	-
Tj = +12°C	COP_d	5,66	-
Tj = -10°C (bivalent temperature)	COP_d	4,05	-
Tj = -10°C (operation limit temperature)	COP_d	4,05	-
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 is according to EN14511-3, Annex G

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

Modell	SPH-W1440-T4R00-066L (R-1234ze)
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	**P_{rated}**	**1445,93**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1279	kW
Tj = +2°C	P_{dh}	779	kW
Tj = +7°C	P_{dh}	501	kW
Tj = +12°C	P_{dh}	222	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1446	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1446	kW
Bivalent temperature	T_{biv}	-10	°C
Degradation coefficient*	C_{dh}	0,90	-
Power consumption in modes other than active mode			
Off mode	P_{off}	-	kW
Thermostat-off mode	P_{TO}	18,23	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	100	dB(A)
Annual energy consumption	QHe	582.659	kWh
Rated brine or water flow rate, evaporator		314,5	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**197,04**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP_d	4,29	-
Tj = +2°C	COP_d	5,25	-
Tj = +7°C	COP_d	5,73	-
Tj = +12°C	COP_d	4,93	-
Tj = -10°C (bivalent temperature)	COP_d	3,98	-
Tj = -10°C (operation limit temperature)	COP_d	3,98	-
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 is according to EN14511-3, Annex G

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

Modell	SPH-W1800-T5R00-066H (R-1234ze)
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	**P_{rated}**	**1423,44**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1258	kW
Tj = +2°C	P_{dh}	765	kW
Tj = +7°C	P_{dh}	491	kW
Tj = +12°C	P_{dh}	216	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1423	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1423	kW
Bivalent temperature	T_{biv}	-10	°C
Degradation coefficient*	C_{dh}	0,90	-
Power consumption in modes other than active mode			
Off mode	P_{off}	-	kW
Thermostat-off mode	P_{TO}	12,15	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	101	dB(A)
Annual energy consumption	QHe	541.420	kWh
Rated brine or water flow rate, evaporator		314,5	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**209,23**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP_d	4,50	-
Tj = +2°C	COP_d	5,46	-
Tj = +7°C	COP_d	6,12	-
Tj = +12°C	COP_d	5,63	-
Tj = -10°C (bivalent temperature)	COP_d	4,24	-
Tj = -10°C (operation limit temperature)	COP_d	4,24	-
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 is according to EN14511-3, Annex G

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

Modell	**SPH-W1800-T5R00-066L (R-1234ze)**
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	**P_{rated}**	**1423,93**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1259	kW
Tj = +2°C	P_{dh}	766	kW
Tj = +7°C	P_{dh}	492	kW
Tj = +12°C	P_{dh}	217	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1424	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1424	kW
Bivalent temperature	T_{biv}	-10	°C
Degradation coefficient*	C_{dh}	0,90	-
Power consumption in modes other than active mode			
Off mode	P_{off}	-	kW
Thermostat-off mode	P_{TO}	17,82	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	101	dB(A)
Annual energy consumption	QHe	570.564	kWh
Rated brine or water flow rate, evaporator		314,5	m^3/h
Contact details			
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Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_S**	**198,20**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP_d	4,42	-
Tj = +2°C	COP_d	5,26	-
Tj = +7°C	COP_d	5,73	-
Tj = +12°C	COP_d	4,92	-
Tj = -10°C (bivalent temperature)	COP_d	4,17	-
Tj = -10°C (operation limit temperature)	COP_d	4,17	-
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 is according to EN14511-3, Annex G

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

Modell	SPH-W2160-T6R00-076H (R-1234ze)
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	**P_{rated}**	**1671,54**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1477	kW
Tj = +2°C	P_{dh}	901	kW
Tj = +7°C	P_{dh}	579	kW
Tj = +12°C	P_{dh}	259	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1672	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1672	kW
Bivalent temperature	T_{biv}	-10	°C
Degradation coefficient*	C_{dh}	0,90	-
Power consumption in modes other than active mode			
Off mode	P_{off}	-	kW
Thermostat-off mode	P_{TO}	14,50	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	102	dB(A)
Annual energy consumption	QHe	634.898	kWh
Rated brine or water flow rate, evaporator		369,3	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**209,53**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP_d	4,51	-
Tj = +2°C	COP_d	5,46	-
Tj = +7°C	COP_d	6,06	-
Tj = +12°C	COP_d	5,85	-
Tj = -10°C (bivalent temperature)	COP_d	4,25	-
Tj = -10°C (operation limit temperature)	COP_d	4,25	-
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 is according to EN14511-3, Annex G

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

Modell	**SPH-W2160-T6R00-076L (R-1234ze)**
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	**P_{rated}**	**1483,94**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1306	kW
Tj = +2°C	P_{dh}	806	kW
Tj = +7°C	P_{dh}	520	kW
Tj = +12°C	P_{dh}	223	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1484	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1484	kW
Bivalent temperature	T_{biv}	-10	°C
Degradation coefficient*	C_{dh}	0,90	-
Power consumption in modes other than active mode			
Off mode	P_{off}	-	kW
Thermostat-off mode	P_{TO}	17,06	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	102	dB(A)
Annual energy consumption	QHe	585.783	kWh
Rated brine or water flow rate, evaporator		327,9	m^3/h
Contact details			
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Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_S**	**201,31**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP_d	4,45	-
Tj = +2°C	COP_d	5,33	-
Tj = +7°C	COP_d	5,82	-
Tj = +12°C	COP_d	5,09	-
Tj = -10°C (bivalent temperature)	COP_d	4,20	-
Tj = -10°C (operation limit temperature)	COP_d	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

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