

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:	low-temperature (35°C) average climate

Item	Symbol	Value	Unit
Rated heat output	P_{rated}	269,39	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	P _{dh}	238	kW
T _j = +2°C	P _{dh}	144	kW
T _j = +7°C	P _{dh}	93	kW
T _j = +12°C	P _{dh}	78	kW
T _j = -10°C (bivalent temperature)	P _{dh}	269	kW
T _j = -10°C (operation limit temperature)	P _{dh}	269	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}	4,08	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	Q _{He}	86.212	kWh
Rated brine or water flow rate, evaporator		64,3	m ³ /h
Contact details			
ENGIE Refrigeration GmbH Josephine-Hirner-Strasse 1&3 88131 Lindau			

* If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	250,19	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	COP _d	6,01	-
T _j = +2°C	COP _d	6,89	-
T _j = +7°C	COP _d	6,38	-
T _j = +12°C	COP _d	6,68	-
T _j = -10°C (bivalent temperature)	COP _d	5,60	-
T _j = -10°C (operation limit temperature)	COP _d	5,60	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	P _{sup}	0	W
Type of energy input		-	

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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:	low-temperature (35°C) average climate

Item	Symbol	Value	Unit
Rated heat output	P_{rated}	559,67	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	P _{dh}	495	kW
T _j = +2°C	P _{dh}	302	kW
T _j = +7°C	P _{dh}	194	kW
T _j = +12°C	P _{dh}	86	kW
T _j = -10°C (bivalent temperature)	P _{dh}	560	kW
T _j = -10°C (operation limit temperature)	P _{dh}	560	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}	7,83	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	Q _{He}	180.891	kWh
Rated brine or water flow rate, evaporator		132,9	m ³ /h
Contact details			
ENGIE Refrigeration GmbH Josephine-Hirner-Strasse 1&3 88131 Lindau			

* If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	247,64	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	COP _d	5,90	-
T _j = +2°C	COP _d	6,92	-
T _j = +7°C	COP _d	6,44	-
T _j = +12°C	COP _d	5,42	-
T _j = -10°C (bivalent temperature)	COP _d	5,49	-
T _j = -10°C (operation limit temperature)	COP _d	5,49	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	P _{sup}	0	W
Type of energy input		-	

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}	768,78	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	P _{dh}	680	kW
T _j = +2°C	P _{dh}	415	kW
T _j = +7°C	P _{dh}	267	kW
T _j = +12°C	P _{dh}	119	kW
T _j = -10°C (bivalent temperature)	P _{dh}	769	kW
T _j = -10°C (operation limit temperature)	P _{dh}	769	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}	10,14	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	Q _{He}	239.199	kWh
Rated brine or water flow rate, evaporator		2,5	m ³ /h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	257,56	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	COP _d	6,11	-
T _j = +2°C	COP _d	6,94	-
T _j = +7°C	COP _d	7,01	-
T _j = +12°C	COP _d	5,82	-
T _j = -10°C (bivalent temperature)	COP _d	5,75	-
T _j = -10°C (operation limit temperature)	COP _d	5,75	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	P _{sup}	0	W
Type of energy input		-	

* If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 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:	low-temperature (35°C) average climate

Item	Symbol	Value	Unit
Rated heat output	P_{rated}	1125,59	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	P _{dh}	996	kW
T _j = +2°C	P _{dh}	607	kW
T _j = +7°C	P _{dh}	390	kW
T _j = +12°C	P _{dh}	174	kW
T _j = -10°C (bivalent temperature)	P _{dh}	1126	kW
T _j = -10°C (operation limit temperature)	P _{dh}	1126	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}	9,81	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	Q _{He}	324.415	kWh
Rated brine or water flow rate, evaporator		2,17	m ³ /h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	278,67	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	COP _d	6,16	-
T _j = +2°C	COP _d	7,46	-
T _j = +7°C	COP _d	7,75	-
T _j = +12°C	COP _d	6,66	-
T _j = -10°C (bivalent temperature)	COP _d	5,65	-
T _j = -10°C (operation limit temperature)	COP _d	5,65	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	P _{sup}	0	W
Type of energy input		-	

* If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 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}	1312,71	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	P _{dh}	1162	kW
T _j = +2°C	P _{dh}	707	kW
T _j = +7°C	P _{dh}	455	kW
T _j = +12°C	P _{dh}	203	kW
T _j = -10°C (bivalent temperature)	P _{dh}	1313	kW
T _j = -10°C (operation limit temperature)	P _{dh}	1313	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}	13,78	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	Q _{He}	389.357	kWh
Rated brine or water flow rate, evaporator		314,5	m ³ /h
Contact details			
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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

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	270,57	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	COP _d	6,24	-
T _j = +2°C	COP _d	7,28	-
T _j = +7°C	COP _d	7,34	-
T _j = +12°C	COP _d	6,35	-
T _j = -10°C (bivalent temperature)	COP _d	5,81	-
T _j = -10°C (operation limit temperature)	COP _d	5,81	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	P _{sup}	0	W
Type of energy input		-	

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
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Item	Symbol	Value	Unit
Rated heat output	P_{rated}	1535,83	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	P _{dh}	1359	kW
T _j = +2°C	P _{dh}	828	kW
T _j = +7°C	P _{dh}	532	kW
T _j = +12°C	P _{dh}	237	kW
T _j = -10°C (bivalent temperature)	P _{dh}	1536	kW
T _j = -10°C (operation limit temperature)	P _{dh}	1536	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}	16,80	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	Q _{He}	456.320	kWh
Rated brine or water flow rate, evaporator		368,8	m ³ /h
Contact details			
ENGIE Refrigeration GmbH Josephine-Hirner-Strasse 1&3 88131 Lindau			

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	270,09	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T _j = -7°C	COP _d	6,26	-
T _j = +2°C	COP _d	7,22	-
T _j = +7°C	COP _d	7,41	-
T _j = +12°C	COP _d	6,30	-
T _j = -10°C (bivalent temperature)	COP _d	5,87	-
T _j = -10°C (operation limit temperature)	COP _d	5,87	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	P _{sup}	0	W
Type of energy input		-	

* If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 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