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-515B)
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}**	**272,43**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	241	kW
Tj = +2°C	P_{dh}	146	kW
Tj = +7°C	P_{dh}	94	kW
Tj = +12°C	P_{dh}	78	kW
Tj = -10°C (bivalent temperature)	P_{dh}	272	kW
Tj = -10°C (operation limit temperature)	P_{dh}	272	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}	4,23	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	94	dB(A)
Annual energy consumption	QHe	88.918	kWh
Rated brine or water flow rate, evaporator		64,3	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**245,15**	**%**
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	5,75	-
Tj = +2°C	COP_d	6,73	-
Tj = +7°C	COP_d	6,37	-
Tj = +12°C	COP_d	6,59	-
Tj = -10°C (bivalent temperature)	COP_d	5,30	-
Tj = -10°C (operation limit temperature)	COP_d	5,30	-
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.

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

Modell	SPH-W0720-T2R00-033H (R-515B)
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}**	**552,70**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	489	kW
Tj = +2°C	P_{dh}	298	kW
Tj = +7°C	P_{dh}	193	kW
Tj = +12°C	P_{dh}	86	kW
Tj = -10°C (bivalent temperature)	P_{dh}	553	kW
Tj = -10°C (operation limit temperature)	P_{dh}	553	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}	8,15	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	94	dB(A)
Annual energy consumption	QHe	181.253	kWh
Rated brine or water flow rate, evaporator		130,1	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**243,95**	**%**
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	5,70	-
Tj = +2°C	COP_d	6,79	-
Tj = +7°C	COP_d	6,48	-
Tj = +12°C	COP_d	5,32	-
Tj = -10°C (bivalent temperature)	COP_d	5,28	-
Tj = -10°C (operation limit temperature)	COP_d	5,28	-
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.

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

Modell	SPH-W1080-T3R00-044H (R-515B)
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}**	**771,79**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	683	kW
Tj = +2°C	P_{dh}	417	kW
Tj = +7°C	P_{dh}	268	kW
Tj = +12°C	P_{dh}	120	kW
Tj = -10°C (bivalent temperature)	P_{dh}	772	kW
Tj = -10°C (operation limit temperature)	P_{dh}	772	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}	10,46	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	244.471	kWh
Rated brine or water flow rate, evaporator		2,49	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**252,84**	**%**
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	5,88	-
Tj = +2°C	COP_d	6,87	-
Tj = +7°C	COP_d	6,91	-
Tj = +12°C	COP_d	5,67	-
Tj = -10°C (bivalent temperature)	COP_d	5,53	-
Tj = -10°C (operation limit temperature)	COP_d	5,53	-
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-515B)**
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}**	**1105,57**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	978	kW
Tj = +2°C	P_{dh}	596	kW
Tj = +7°C	P_{dh}	383	kW
Tj = +12°C	P_{dh}	171	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1106	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1106	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}	9,07	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	323.084	kWh
Rated brine or water flow rate, evaporator		2,11	m^3/h
Contact details			
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Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_S**	**274,74**	**%**
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	5,98	-
Tj = +2°C	COP_d	7,35	-
Tj = +7°C	COP_d	7,65	-
Tj = +12°C	COP_d	6,76	-
Tj = -10°C (bivalent temperature)	COP_d	5,46	-
Tj = -10°C (operation limit temperature)	COP_d	5,46	-
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-515B)**
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}**	**1325,71**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1173	kW
Tj = +2°C	P_{dh}	714	kW
Tj = +7°C	P_{dh}	460	kW
Tj = +12°C	P_{dh}	205	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1326	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1326	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}	13,05	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	398.963	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**	**266,55**	**%**
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	5,98	-
Tj = +2°C	COP_d	7,16	-
Tj = +7°C	COP_d	7,31	-
Tj = +12°C	COP_d	6,46	-
Tj = -10°C (bivalent temperature)	COP_d	5,54	-
Tj = -10°C (operation limit temperature)	COP_d	5,54	-
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-515B)**
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}**	**1549,84**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1371	kW
Tj = +2°C	P_{dh}	835	kW
Tj = +7°C	P_{dh}	537	kW
Tj = +12°C	P_{dh}	239	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1550	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1550	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}	16,98	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	452.680	kWh
Rated brine or water flow rate, evaporator		368,8	m^3/h
Contact details			
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Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_S**	**274,88**	**%**
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	6,03	-
Tj = +2°C	COP_d	7,65	-
Tj = +7°C	COP_d	7,37	-
Tj = +12°C	COP_d	6,21	-
Tj = -10°C (bivalent temperature)	COP_d	5,61	-
Tj = -10°C (operation limit temperature)	COP_d	5,61	-
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 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 Tj			
Tj = -7°C	P_{dh}	238	kW
Tj = +2°C	P_{dh}	144	kW
Tj = +7°C	P_{dh}	93	kW
Tj = +12°C	P_{dh}	78	kW
Tj = -10°C (bivalent temperature)	P_{dh}	269	kW
Tj = -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	QHe	86.212	kWh
Rated brine or water flow rate, evaporator		64,3	m^3/h
Contact details			
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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 Tj			
Tj = -7°C	COP_d	6,01	-
Tj = +2°C	COP_d	6,89	-
Tj = +7°C	COP_d	6,38	-
Tj = +12°C	COP_d	6,68	-
Tj = -10°C (bivalent temperature)	COP_d	5,60	-
Tj = -10°C (operation limit temperature)	COP_d	5,60	-
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.

Information requirements for heat pump space heaters and heat pump combination heaters according Reg. (EU) 813/2013 and 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:	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 Tj			
Tj = -7°C	P_{dh}	495	kW
Tj = +2°C	P_{dh}	302	kW
Tj = +7°C	P_{dh}	194	kW
Tj = +12°C	P_{dh}	86	kW
Tj = -10°C (bivalent temperature)	P_{dh}	560	kW
Tj = -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	QHe	180.891	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**	**247,64**	**%**
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	5,90	-
Tj = +2°C	COP_d	6,92	-
Tj = +7°C	COP_d	6,44	-
Tj = +12°C	COP_d	5,42	-
Tj = -10°C (bivalent temperature)	COP_d	5,49	-
Tj = -10°C (operation limit temperature)	COP_d	5,49	-
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.

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 Tj			
Tj = -7°C	P_{dh}	680	kW
Tj = +2°C	P_{dh}	415	kW
Tj = +7°C	P_{dh}	267	kW
Tj = +12°C	P_{dh}	119	kW
Tj = -10°C (bivalent temperature)	P_{dh}	769	kW
Tj = -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	QHe	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 Tj			
Tj = -7°C	COP_d	6,11	-
Tj = +2°C	COP_d	6,94	-
Tj = +7°C	COP_d	7,01	-
Tj = +12°C	COP_d	5,82	-
Tj = -10°C (bivalent temperature)	COP_d	5,75	-
Tj = -10°C (operation limit temperature)	COP_d	5,75	-
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:	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 Tj			
Tj = -7°C	P_{dh}	996	kW
Tj = +2°C	P_{dh}	607	kW
Tj = +7°C	P_{dh}	390	kW
Tj = +12°C	P_{dh}	174	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1126	kW
Tj = -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	QHe	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 Tj			
Tj = -7°C	COP_d	6,16	-
Tj = +2°C	COP_d	7,46	-
Tj = +7°C	COP_d	7,75	-
Tj = +12°C	COP_d	6,66	-
Tj = -10°C (bivalent temperature)	COP_d	5,65	-
Tj = -10°C (operation limit temperature)	COP_d	5,65	-
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}**	**1312,71**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1162	kW
Tj = +2°C	P_{dh}	707	kW
Tj = +7°C	P_{dh}	455	kW
Tj = +12°C	P_{dh}	203	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1313	kW
Tj = -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	QHe	389.357	kWh
Rated brine or water flow rate, evaporator		314,5	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**	**270,57**	**%**
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	6,24	-
Tj = +2°C	COP_d	7,28	-
Tj = +7°C	COP_d	7,34	-
Tj = +12°C	COP_d	6,35	-
Tj = -10°C (bivalent temperature)	COP_d	5,81	-
Tj = -10°C (operation limit temperature)	COP_d	5,81	-
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}**	**1535,83**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1359	kW
Tj = +2°C	P_{dh}	828	kW
Tj = +7°C	P_{dh}	532	kW
Tj = +12°C	P_{dh}	237	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1536	kW
Tj = -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	QHe	456.320	kWh
Rated brine or water flow rate, evaporator		368,8	m^3/h
Contact details			
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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 Tj			
Tj = -7°C	COP_d	6,26	-
Tj = +2°C	COP_d	7,22	-
Tj = +7°C	COP_d	7,41	-
Tj = +12°C	COP_d	6,30	-
Tj = -10°C (bivalent temperature)	COP_d	5,87	-
Tj = -10°C (operation limit temperature)	COP_d	5,87	-
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-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)
	average climate

Item	Symbol	Value	Unit
Rated heat output	**P_{rated}**	**416,34**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	368	kW
Tj = +2°C	P_{dh}	224	kW
Tj = +7°C	P_{dh}	153	kW
Tj = +12°C	P_{dh}	128	kW
Tj = -10°C (bivalent temperature)	P_{dh}	416	kW
Tj = -10°C (operation limit temperature)	P_{dh}	416	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}	4,73	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	170.262	kWh
Rated brine or water flow rate, evaporator		91,8	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**194,04**	**%**
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	4,44	-
Tj = +2°C	COP_d	5,13	-
Tj = +7°C	COP_d	5,32	-
Tj = +12°C	COP_d	6,09	-
Tj = -10°C (bivalent temperature)	COP_d	4,18	-
Tj = -10°C (operation limit temperature)	COP_d	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

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

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	P_{rated}	**822,47**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	727	kW
Tj = +2°C	P_{dh}	443	kW
Tj = +7°C	P_{dh}	285	kW
Tj = +12°C	P_{dh}	128	kW
Tj = -10°C (bivalent temperature)	P_{dh}	822	kW
Tj = -10°C (operation limit temperature)	P_{dh}	822	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}	8,34	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	327.504	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	**199,50**	**%**
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	5,16	-
Tj = +7°C	COP_d	5,88	-
Tj = +12°C	COP_d	5,24	-
Tj = -10°C (bivalent temperature)	COP_d	4,21	-
Tj = -10°C (operation limit temperature)	COP_d	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

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-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)
	average climate

Item	Symbol	Value	Unit
Rated heat output	**P_{rated}**	**1415,59**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1251	kW
Tj = +2°C	P_{dh}	762	kW
Tj = +7°C	P_{dh}	490	kW
Tj = +12°C	P_{dh}	217	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1416	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1416	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}	12,90	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	542.223	kWh
Rated brine or water flow rate, evaporator		309,6	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**207,71**	**%**
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	5,42	-
Tj = +7°C	COP_d	6,05	-
Tj = +12°C	COP_d	5,81	-
Tj = -10°C (bivalent temperature)	COP_d	4,11	-
Tj = -10°C (operation limit temperature)	COP_d	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

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-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)
	average climate

Item	Symbol	Value	Unit
Rated heat output	**P_{rated}**	**1674,54**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1481	kW
Tj = +2°C	P_{dh}	903	kW
Tj = +7°C	P_{dh}	581	kW
Tj = +12°C	P_{dh}	259	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1675	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1675	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}	14,47	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	637.911	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**	**208,89**	**%**
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	5,48	-
Tj = +7°C	COP_d	5,99	-
Tj = +12°C	COP_d	5,77	-
Tj = -10°C (bivalent temperature)	COP_d	4,22	-
Tj = -10°C (operation limit temperature)	COP_d	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

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-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)
	average climate

Item	Symbol	Value	Unit
Rated heat output	**P_{rated}**	**2002,58**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1772	kW
Tj = +2°C	P_{dh}	1081	kW
Tj = +7°C	P_{dh}	695	kW
Tj = +12°C	P_{dh}	309	kW
Tj = -10°C (bivalent temperature)	P_{dh}	2003	kW
Tj = -10°C (operation limit temperature)	P_{dh}	2003	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}	16,87	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	760.071	kWh
Rated brine or water flow rate, evaporator		441,7	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**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	COP_d	4,50	-
Tj = +2°C	COP_d	5,47	-
Tj = +7°C	COP_d	6,12	-
Tj = +12°C	COP_d	5,71	-
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-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	**P_{rated}**	**2547,75**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	2254	kW
Tj = +2°C	P_{dh}	1372	kW
Tj = +7°C	P_{dh}	879	kW
Tj = +12°C	P_{dh}	389	kW
Tj = -10°C (bivalent temperature)	P_{dh}	2548	kW
Tj = -10°C (operation limit temperature)	P_{dh}	2548	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}	21,78	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	102	dB(A)
Annual energy consumption	QHe	968.908	kWh
Rated brine or water flow rate, evaporator		560,9	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**209,26**	**%**
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	5,45	-
Tj = +7°C	COP_d	6,07	-
Tj = +12°C	COP_d	5,94	-
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

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

Modell	SPH-W0500-T1Q00-022H (R-513A)
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}**	**419,34**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	371	kW
Tj = +2°C	P_{dh}	225	kW
Tj = +7°C	P_{dh}	154	kW
Tj = +12°C	P_{dh}	128	kW
Tj = -10°C (bivalent temperature)	P_{dh}	419	kW
Tj = -10°C (operation limit temperature)	P_{dh}	419	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}	4,75	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	175.082	kWh
Rated brine or water flow rate, evaporator		91,8	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**	**189,90**	**%**
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	4,35	-
Tj = +2°C	COP_d	5,01	-
Tj = +7°C	COP_d	5,23	-
Tj = +12°C	COP_d	5,94	-
Tj = -10°C (bivalent temperature)	COP_d	4,09	-
Tj = -10°C (operation limit temperature)	COP_d	4,09	-
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-W1000-T3Q00-044H (R-513A)**
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}	**828,48**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	732	kW
Tj = +2°C	P_{dh}	445	kW
Tj = +7°C	P_{dh}	287	kW
Tj = +12°C	P_{dh}	129	kW
Tj = -10°C (bivalent temperature)	P_{dh}	828	kW
Tj = -10°C (operation limit temperature)	P_{dh}	828	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}	8,39	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	337.305	kWh
Rated brine or water flow rate, evaporator		181,5	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	**194,94**	**%**
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	4,37	-
Tj = +2°C	COP_d	5,04	-
Tj = +7°C	COP_d	5,73	-
Tj = +12°C	COP_d	5,17	-
Tj = -10°C (bivalent temperature)	COP_d	4,12	-
Tj = -10°C (operation limit temperature)	COP_d	4,12	-
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-W1500-T3Q00-055H (R-513A)
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}**	**1425,59**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1262	kW
Tj = +2°C	P_{dh}	768	kW
Tj = +7°C	P_{dh}	492	kW
Tj = +12°C	P_{dh}	220	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1426	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1426	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}	12,80	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	99	dB(A)
Annual energy consumption	QHe	556.647	kWh
Rated brine or water flow rate, evaporator		309,6	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**	**203,60**	**%**
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	4,31	-
Tj = +2°C	COP_d	5,31	-
Tj = +7°C	COP_d	5,95	-
Tj = +12°C	COP_d	5,75	-
Tj = -10°C (bivalent temperature)	COP_d	4,02	-
Tj = -10°C (operation limit temperature)	COP_d	4,02	-
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-W2000-T4Q00-076H (R-513A)
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}**	**1686,55**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1492	kW
Tj = +2°C	P_{dh}	908	kW
Tj = +7°C	P_{dh}	585	kW
Tj = +12°C	P_{dh}	261	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1687	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1687	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}	14,54	kW
Standby mode	P_{SB}	0,24	kW
Crankcase heater mode	P_{CK}	-	kW
Sonstige Elemente			
Capacity control		variable	
Sound power level	L_{WA}	100	dB(A)
Annual energy consumption	QHe	656.658	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**	**204,21**	**%**
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	4,41	-
Tj = +2°C	COP_d	5,36	-
Tj = +7°C	COP_d	5,84	-
Tj = +12°C	COP_d	5,69	-
Tj = -10°C (bivalent temperature)	COP_d	4,13	-
Tj = -10°C (operation limit temperature)	COP_d	4,13	-
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-W2500-T5Q00-087H (R-513A)
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}**	**2016,58**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1785	kW
Tj = +2°C	P_{dh}	1084	kW
Tj = +7°C	P_{dh}	696	kW
Tj = +12°C	P_{dh}	312	kW
Tj = -10°C (bivalent temperature)	P_{dh}	2017	kW
Tj = -10°C (operation limit temperature)	P_{dh}	2017	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}	17,12	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	784.337	kWh
Rated brine or water flow rate, evaporator		441,7	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**204,43**	**%**
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	4,39	-
Tj = +2°C	COP_d	5,33	-
Tj = +7°C	COP_d	5,97	-
Tj = +12°C	COP_d	5,61	-
Tj = -10°C (bivalent temperature)	COP_d	4,14	-
Tj = -10°C (operation limit temperature)	COP_d	4,14	-
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-W3000-T6Q00-098H (R-513A)
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}**	**2565,75**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	2269	kW
Tj = +2°C	P_{dh}	1380	kW
Tj = +7°C	P_{dh}	883	kW
Tj = +12°C	P_{dh}	391	kW
Tj = -10°C (bivalent temperature)	P_{dh}	2566	kW
Tj = -10°C (operation limit temperature)	P_{dh}	2566	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}	22,01	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	997.143	kWh
Rated brine or water flow rate, evaporator		560,9	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**204,60**	**%**
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	5,33	-
Tj = +7°C	COP_d	5,94	-
Tj = +12°C	COP_d	5,81	-
Tj = -10°C (bivalent temperature)	COP_d	4,11	-
Tj = -10°C (operation limit temperature)	COP_d	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

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-W0360-T1R00-011H (R-515B)**
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}**	**293,37**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	259	kW
Tj = +2°C	P_{dh}	157	kW
Tj = +7°C	P_{dh}	112	kW
Tj = +12°C	P_{dh}	91	kW
Tj = -10°C (bivalent temperature)	P_{dh}	293	kW
Tj = -10°C (operation limit temperature)	P_{dh}	293	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}	3,48	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	121.875	kWh
Rated brine or water flow rate, evaporator		64,3	m^3/h
Contact details			
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Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_s**	**190,89**	**%**
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	4,37	-
Tj = +2°C	COP_d	5,04	-
Tj = +7°C	COP_d	5,29	-
Tj = +12°C	COP_d	5,96	-
Tj = -10°C (bivalent temperature)	COP_d	4,10	-
Tj = -10°C (operation limit temperature)	COP_d	4,10	-
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-W0720-T2R00-033H (R-515B)**
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}	**607,40**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	537	kW
Tj = +2°C	P_{dh}	326	kW
Tj = +7°C	P_{dh}	210	kW
Tj = +12°C	P_{dh}	94	kW
Tj = -10°C (bivalent temperature)	P_{dh}	607	kW
Tj = -10°C (operation limit temperature)	P_{dh}	607	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	245.258	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			

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	η_S	**196,63**	**%**
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	4,37	-
Tj = +2°C	COP_d	5,17	-
Tj = +7°C	COP_d	5,67	-
Tj = +12°C	COP_d	5,16	-
Tj = -10°C (bivalent temperature)	COP_d	4,10	-
Tj = -10°C (operation limit temperature)	COP_d	4,10	-
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-515B)
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}**	**825,47**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	729	kW
Tj = +2°C	P_{dh}	444	kW
Tj = +7°C	P_{dh}	284	kW
Tj = +12°C	P_{dh}	125	kW
Tj = -10°C (bivalent temperature)	P_{dh}	825	kW
Tj = -10°C (operation limit temperature)	P_{dh}	825	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	326.377	kWh
Rated brine or water flow rate, evaporator		181,5	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**	**200,97**	**%**
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	4,40	-
Tj = +2°C	COP_d	5,27	-
Tj = +7°C	COP_d	5,76	-
Tj = +12°C	COP_d	5,52	-
Tj = -10°C (bivalent temperature)	COP_d	4,15	-
Tj = -10°C (operation limit temperature)	COP_d	4,15	-
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-515B)**
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}	**1462,46**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1292	kW
Tj = +2°C	P_{dh}	787	kW
Tj = +7°C	P_{dh}	506	kW
Tj = +12°C	P_{dh}	221	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1462	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1462	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	565.944	kWh
Rated brine or water flow rate, evaporator		314,5	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	**205,51**	**%**
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	4,24	-
Tj = +2°C	COP_d	5,42	-
Tj = +7°C	COP_d	6,06	-
Tj = +12°C	COP_d	5,64	-
Tj = -10°C (bivalent temperature)	COP_d	3,90	-
Tj = -10°C (operation limit temperature)	COP_d	3,90	-
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-515B)
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}**	**1462,94**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1293	kW
Tj = +2°C	P_{dh}	788	kW
Tj = +7°C	P_{dh}	507	kW
Tj = +12°C	P_{dh}	222	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1463	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1463	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	596.669	kWh
Rated brine or water flow rate, evaporator		314,5	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**	**194,58**	**%**
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	4,16	-
Tj = +2°C	COP_d	5,21	-
Tj = +7°C	COP_d	5,67	-
Tj = +12°C	COP_d	4,92	-
Tj = -10°C (bivalent temperature)	COP_d	3,84	-
Tj = -10°C (operation limit temperature)	COP_d	3,84	-
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-515B)
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}**	**1431,44**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1265	kW
Tj = +2°C	P_{dh}	771	kW
Tj = +7°C	P_{dh}	498	kW
Tj = +12°C	P_{dh}	221	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1431	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1431	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}	12,31	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	550.428	kWh
Rated brine or water flow rate, evaporator		314,5	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**	**206,87**	**%**
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	5,40	-
Tj = +7°C	COP_d	6,04	-
Tj = +12°C	COP_d	5,65	-
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-W1800-T5R00-066L (R-515B)
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}**	**1431,93**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1266	kW
Tj = +2°C	P_{dh}	772	kW
Tj = +7°C	P_{dh}	499	kW
Tj = +12°C	P_{dh}	222	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1432	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1432	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}	17,92	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	579.731	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**	**196,08**	**%**
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	4,36	-
Tj = +2°C	COP_d	5,20	-
Tj = +7°C	COP_d	5,65	-
Tj = +12°C	COP_d	4,96	-
Tj = -10°C (bivalent temperature)	COP_d	4,10	-
Tj = -10°C (operation limit temperature)	COP_d	4,10	-
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-515B)
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}**	**1680,54**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1487	kW
Tj = +2°C	P_{dh}	906	kW
Tj = +7°C	P_{dh}	583	kW
Tj = +12°C	P_{dh}	259	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1681	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1681	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	648.883	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**	**205,99**	**%**
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	4,43	-
Tj = +2°C	COP_d	5,36	-
Tj = +7°C	COP_d	5,95	-
Tj = +12°C	COP_d	5,84	-
Tj = -10°C (bivalent temperature)	COP_d	4,18	-
Tj = -10°C (operation limit temperature)	COP_d	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 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-515B)
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}**	**1486,94**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	P_{dh}	1307	kW
Tj = +2°C	P_{dh}	803	kW
Tj = +7°C	P_{dh}	520	kW
Tj = +12°C	P_{dh}	222	kW
Tj = -10°C (bivalent temperature)	P_{dh}	1487	kW
Tj = -10°C (operation limit temperature)	P_{dh}	1487	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}	17,21	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	596.604	kWh
Rated brine or water flow rate, evaporator		327,3	m^3/h
Contact details			
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Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	**η_S**	**197,93**	**%**
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	4,37	-
Tj = +2°C	COP_d	5,25	-
Tj = +7°C	COP_d	5,70	-
Tj = +12°C	COP_d	5,04	-
Tj = -10°C (bivalent temperature)	COP_d	4,16	-
Tj = -10°C (operation limit temperature)	COP_d	4,16	-
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 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			
ENGIE Refrigeration GmbH Josephine-Hirner-Strasse 1&3 88131 Lindau			

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			
ENGIE Refrigeration GmbH Josephine-Hirner-Strasse 1&3 88131 Lindau			

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			
ENGIE Refrigeration GmbH Josephine-Hirner-Strasse 1&3 88131 Lindau			

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			
ENGIE Refrigeration GmbH Josephine-Hirner-Strasse 1&3 88131 Lindau			

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			
ENGIE Refrigeration GmbH Josephine-Hirner-Strasse 1&3 88131 Lindau			

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