

Information requirements for process coolers according to regulation (EU) 2015/1095

Model		W009-E1V-11	
Type of condensing:		watercooled	
Refrigerant fluid(s):		R-717 (Ammonia)	
Item	Symbol	Value	Unit
Operating temperature	T	-8	°C
Seasonal energy performance ratio	SEPR	3,91	-
Annual electricity consumption	Q	58.817	kWh/a
Parameters at full load and reference ambient temperature at rating point A (**)			
Rated refrigeration capacity	PA	31	kW
Rated power input	DA	12,90	kW
Rated energy efficiency ratio	EERA	2,40	-
Parameters at rating point B			
Declared refrigeration capacity	PB	29	kW
Declared power input	DB	9,80	kW
Declared energy efficiency ratio	EERB	2,96	-
Parameters at rating point C			
Declared refrigeration capacity	PC	27	kW
Declared power input	DC	7,30	kW
Declared energy efficiency ratio	EERC	3,70	-
Parameters at rating point D			
Declared refrigeration capacity	PD	25,00	kW
Declared power input	DD	5,40	kW
Declared energy efficiency ratio	EERD	4,63	-
Other items			
Capacity control		variable	
Degradation co-efficient chillers (*)	CC	0,9	-
Contact			
ENGIE Refrigeration GmbH Josephine-Hirner-Strasse 1&3 88131 Lindau			

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

Information requirements for process coolers according to regulation (EU) 2015/1095

Model	W009-F1V-11		
Type of condensing:	watercooled		
Refrigerant fluid(s):	R-717 (Ammonia)		

Item	Symbol	Value	Unit
Operating temperature	T	-8	°C
Seasonal energy performance ratio	SEPR	3,69	-
Annual electricity consumption	Q	64.291	kWh/a

Parameters at full load and reference ambient temperature at rating point A (**)

Rated refrigeration capacity	PA	32	kW
Rated power input	DA	13,60	kW
Rated energy efficiency ratio	EERA	2,35	-

Parameters at rating point B

Declared refrigeration capacity	PB	30	kW
Declared power input	DB	10,60	kW
Declared energy efficiency ratio	EERB	2,83	-

Parameters at rating point C

Declared refrigeration capacity	PC	28	kW
Declared power input	DC	8,00	kW
Declared energy efficiency ratio	EERC	3,50	-

Parameters at rating point D

Declared refrigeration capacity	PD	26,00	kW
Declared power input	DD	6,00	kW
Declared energy efficiency ratio	EERD	4,33	-

Other items

Capacity control	variable		
Degradation co-efficient chillers (*)	CC	0,9	-

Contact

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Information requirements for process coolers according to regulation (EU) 2015/1095

Model		W011-E1W-22	
Type of condensing:		watercooled	
Refrigerant fluid(s):		R-717 (Ammonia)	
Item	Symbol	Value	Unit
Operating temperature	T	-8	°C
Seasonal energy performance ratio	SEPR	4,12	-
Annual electricity consumption	Q	93.510	kWh/a
Parameters at full load and reference ambient temperature at rating point A (**)			
Rated refrigeration capacity	PA	52	kW
Rated power input	DA	20,30	kW
Rated energy efficiency ratio	EERA	2,56	-
Parameters at rating point B			
Declared refrigeration capacity	PB	48	kW
Declared power input	DB	15,60	kW
Declared energy efficiency ratio	EERB	3,08	-
Parameters at rating point C			
Declared refrigeration capacity	PC	45	kW
Declared power input	DC	11,60	kW
Declared energy efficiency ratio	EERC	3,88	-
Parameters at rating point D			
Declared refrigeration capacity	PD	42,00	kW
Declared power input	DD	8,50	kW
Declared energy efficiency ratio	EERD	4,94	-
Other items			
Capacity control		variable	
Degradation co-efficient chillers (*)	CC	0,9	-
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Information requirements for process coolers according to regulation (EU) 2015/1095

Model	W011-F1W-22		
Type of condensing:	watercooled		
Refrigerant fluid(s):	R-717 (Ammonia)		

Item	Symbol	Value	Unit
Operating temperature	T	-8	°C
Seasonal energy performance ratio	SEPR	4,01	-
Annual electricity consumption	Q	96.160	kWh/a

Parameters at full load and reference ambient temperature at rating point A (**)

Rated refrigeration capacity	PA	52	kW
Rated power input	DA	20,60	kW
Rated energy efficiency ratio	EERA	2,52	-

Parameters at rating point B

Declared refrigeration capacity	PB	48	kW
Declared power input	DB	15,90	kW
Declared energy efficiency ratio	EERB	3,02	-

Parameters at rating point C

Declared refrigeration capacity	PC	45	kW
Declared power input	DC	11,90	kW
Declared energy efficiency ratio	EERC	3,78	-

Parameters at rating point D

Declared refrigeration capacity	PD	42,00	kW
Declared power input	DD	8,80	kW
Declared energy efficiency ratio	EERD	4,77	-

Other items

Capacity control	variable		
Degradation co-efficient chillers (*)	CC	0,9	-

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Information requirements for process coolers according to regulation (EU) 2015/1095

Model	W013-G1X-33		
Type of condensing:	watercooled		
Refrigerant fluid(s):	R-717 (Ammonia)		

Item	Symbol	Value	Unit
Operating temperature	T	-8	°C
Seasonal energy performance ratio	SEPR	4,16	-
Annual electricity consumption	Q	114.089	kWh/a

Parameters at full load and reference ambient temperature at rating point A (**)

Rated refrigeration capacity	PA	64	kW
Rated power input	DA	24,30	kW
Rated energy efficiency ratio	EERA	2,63	-

Parameters at rating point B

Declared refrigeration capacity	PB	60	kW
Declared power input	DB	19,10	kW
Declared energy efficiency ratio	EERB	3,14	-

Parameters at rating point C

Declared refrigeration capacity	PC	56	kW
Declared power input	DC	14,30	kW
Declared energy efficiency ratio	EERC	3,92	-

Parameters at rating point D

Declared refrigeration capacity	PD	51,00	kW
Declared power input	DD	10,30	kW
Declared energy efficiency ratio	EERD	4,95	-

Other items

Capacity control	variable		
Degradation co-efficient chillers (*)	CC	0,9	-

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

Information requirements for process coolers according to regulation (EU) 2015/1095

Model		W016-G1Y-44	
Type of condensing:		watercooled	
Refrigerant fluid(s):		R-717 (Ammonia)	
Item	Symbol	Value	Unit
Operating temperature	T	-8	°C
Seasonal energy performance ratio	SEPR	4,34	-
Annual electricity consumption	Q	134.952	kWh/a
Parameters at full load and reference ambient temperature at rating point A (**)			
Rated refrigeration capacity	PA	79	kW
Rated power input	DA	29,00	kW
Rated energy efficiency ratio	EERA	2,72	-
Parameters at rating point B			
Declared refrigeration capacity	PB	73	kW
Declared power input	DB	22,30	kW
Declared energy efficiency ratio	EERB	3,27	-
Parameters at rating point C			
Declared refrigeration capacity	PC	69	kW
Declared power input	DC	17,00	kW
Declared energy efficiency ratio	EERC	4,06	-
Parameters at rating point D			
Declared refrigeration capacity	PD	63,00	kW
Declared power input	DD	12,10	kW
Declared energy efficiency ratio	EERD	5,21	-
Other items			
Capacity control		variable	
Degradation co-efficient chillers (*)	CC	0,9	-
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* If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Information requirements for process coolers according to regulation (EU) 2015/1095

Model	W016-H1Y-44		
Type of condensing:	watercooled		
Refrigerant fluid(s):	R-717 (Ammonia)		

Item	Symbol	Value	Unit
Operating temperature	T	-8	°C
Seasonal energy performance ratio	SEPR	4,32	-
Annual electricity consumption	Q	135.530	kWh/a

Parameters at full load and reference ambient temperature at rating point A (**)

Rated refrigeration capacity	PA	79	kW
Rated power input	DA	29,20	kW
Rated energy efficiency ratio	EERA	2,71	-

Parameters at rating point B

Declared refrigeration capacity	PB	73	kW
Declared power input	DB	22,40	kW
Declared energy efficiency ratio	EERB	3,26	-

Parameters at rating point C

Declared refrigeration capacity	PC	69	kW
Declared power input	DC	17,00	kW
Declared energy efficiency ratio	EERC	4,06	-

Parameters at rating point D

Declared refrigeration capacity	PD	63,00	kW
Declared power input	DD	12,20	kW
Declared energy efficiency ratio	EERD	5,16	-

Other items

Capacity control	variable		
Degradation co-efficient chillers (*)	CC	0,9	-

Contact

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* 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	W009-E1V-11		
Air-to-water heat pump:	No		
Water-to-water heat pump:	Yes		
Brine-to-water heat pump:	No		
Low-temperature heat pump:	Yes		
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}	85,34	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	75	kW
T _j = +2°C	P _{dh}	44	kW
T _j = +7°C	P _{dh}	28	kW
T _j = +12°C	P _{dh}	28	kW
T _j = -10°C (bivalent temperature)	P _{dh}	85	kW
T _j = -10°C (operation limit temperature)	P _{dh}	85	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}	3,01	kW
Standby mode	P _{SB}	0,00	kW
Crankcase heater mode	P _{CK}	-	kW
Sonstige Elemente			
Capacity control		staged	
Sound power level	L _{WA}	95	dB(A)
Annual energy consumption	Q _{He}	34.624	kWh
Rated brine or water flow rate, evaporator		19,7	m ³ /h
Contact details			
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* 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	195,65	%
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	4,26	-
T _j = +2°C	COP _d	5,53	-
T _j = +7°C	COP _d	5,59	-
T _j = +12°C	COP _d	4,77	-
T _j = -10°C (bivalent temperature)	COP _d	4,07	-
T _j = -10°C (operation limit temperature)	COP _d	4,07	-
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 Reg. (EU) 813/2013 and DIN EN 14825:2018

Modell	W011-E1W-22		
Air-to-water heat pump:	No		
Water-to-water heat pump:	Yes		
Brine-to-water heat pump:	No		
Low-temperature heat pump:	Yes		
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}	108,30	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	93	kW
T _j = +2°C	P _{dh}	56	kW
T _j = +7°C	P _{dh}	36	kW
T _j = +12°C	P _{dh}	32	kW
T _j = -10°C (bivalent temperature)	P _{dh}	108	kW
T _j = -10°C (operation limit temperature)	P _{dh}	108	kW
Bivalent temperature	T _{piv}	-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}	1,82	kW
Standby mode	P _{SB}	0,00	kW
Crankcase heater mode	P _{CK}	-	kW
Sonstige Elemente			
Capacity control		staged	
Sound power level	L _{WA}	95	dB(A)
Annual energy consumption	Q _{He}	42.031	kWh
Rated brine or water flow rate, evaporator		25,2	m ³ /h
Contact details			
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* 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	204,89	%
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	5,02	-
T _j = +2°C	COP _d	5,73	-
T _j = +7°C	COP _d	5,19	-
T _j = +12°C	COP _d	5,32	-
T _j = -10°C (bivalent temperature)	COP _d	4,74	-
T _j = -10°C (operation limit temperature)	COP _d	4,74	-
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 Reg. (EU) 813/2013 and DIN EN 14825:2018

Modell	W011-F1W-22		
Air-to-water heat pump:	No		
Water-to-water heat pump:	Yes		
Brine-to-water heat pump:	No		
Low-temperature heat pump:	Yes		
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}	119,33	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	103	kW
T _j = +2°C	P _{dh}	60	kW
T _j = +7°C	P _{dh}	39	kW
T _j = +12°C	P _{dh}	32	kW
T _j = -10°C (bivalent temperature)	P _{dh}	119	kW
T _j = -10°C (operation limit temperature)	P _{dh}	119	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}	1,89	kW
Standby mode	P _{SB}	0,00	kW
Crankcase heater mode	P _{CK}	-	kW
Sonstige Elemente			
Capacity control		staged	
Sound power level	L _{WA}	95	dB(A)
Annual energy consumption	Q _{He}	49.899	kWh
Rated brine or water flow rate, evaporator		27,7	m ³ /h
Contact details			
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* 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	189,59	%
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	4,76	-
T _j = +2°C	COP _d	5,28	-
T _j = +7°C	COP _d	4,74	-
T _j = +12°C	COP _d	5,01	-
T _j = -10°C (bivalent temperature)	COP _d	4,52	-
T _j = -10°C (operation limit temperature)	COP _d	4,52	-
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 Reg. (EU) 813/2013 and DIN EN 14825:2018

Modell	W013-G1X-33		
Air-to-water heat pump:	No		
Water-to-water heat pump:	Yes		
Brine-to-water heat pump:	No		
Low-temperature heat pump:	Yes		
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}	147,34	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	128	kW
T _j = +2°C	P _{dh}	76	kW
T _j = +7°C	P _{dh}	49	kW
T _j = +12°C	P _{dh}	36	kW
T _j = -10°C (bivalent temperature)	P _{dh}	147	kW
T _j = -10°C (operation limit temperature)	P _{dh}	147	kW
Bivalent temperature	T _{piv}	-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}	2,00	kW
Standby mode	P _{SB}	0,00	kW
Crankcase heater mode	P _{CK}	-	kW
Sonstige Elemente			
Capacity control		staged	
Sound power level	L _{WA}	95	dB(A)
Annual energy consumption	Q _{He}	58.256	kWh
Rated brine or water flow rate, evaporator		34,9	m ³ /h
Contact details			
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* 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	200,97	%
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	4,97	-
T _j = +2°C	COP _d	5,60	-
T _j = +7°C	COP _d	5,04	-
T _j = +12°C	COP _d	5,15	-
T _j = -10°C (bivalent temperature)	COP _d	4,74	-
T _j = -10°C (operation limit temperature)	COP _d	4,74	-
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 Reg. (EU) 813/2013 and DIN EN 14825:2018

Modell	W016-H1Y-44		
Air-to-water heat pump:	No		
Water-to-water heat pump:	Yes		
Brine-to-water heat pump:	No		
Low-temperature heat pump:	Yes		
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}	179,34	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	155	kW
T _j = +2°C	P _{dh}	92	kW
T _j = +7°C	P _{dh}	59	kW
T _j = +12°C	P _{dh}	43	kW
T _j = -10°C (bivalent temperature)	P _{dh}	179	kW
T _j = -10°C (operation limit temperature)	P _{dh}	179	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}	2,00	kW
Standby mode	P _{SB}	0,00	kW
Crankcase heater mode	P _{CK}	-	kW
Sonstige Elemente			
Capacity control		staged	
Sound power level	L _{WA}	95	dB(A)
Annual energy consumption	Q _{He}	67.092	kWh
Rated brine or water flow rate, evaporator		42,3	m ³ /h
Contact details			
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* 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	212,87	%
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	5,16	-
T _j = +2°C	COP _d	5,90	-
T _j = +7°C	COP _d	5,36	-
T _j = +12°C	COP _d	5,52	-
T _j = -10°C (bivalent temperature)	COP _d	4,92	-
T _j = -10°C (operation limit temperature)	COP _d	4,92	-
Heating water operating limit temperature	WTOL	65	°C
Supplementary heater			
Rated heat output	P _{sup}	0	W
Type of energy input		-	