MITSUBISHI ELECTRIC HYDRONICS & IT COOLING SYSTEMS S.p.A.

Climaveneta **Technical Documentation** FOCS3-W-G05_0551_4752_201810_EN

REGULATION (EU) N. 2016/2281 FOR COMFORT CHILLERS

Ecodesign requirements for cooling products

WATER COOLED CHILLERS

FOCS3-W-G05 0551 - 4752

Cooling Capacity Range 187 - 1688 [kW] - (EN14511 VALUE) Nominal Cooling Capacity at TdesignC Range 187 - 1688 [kW]





EN

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1. REGULATION (EU) N. 2016/2281 FOR COMFORT **CHILLERS**

1.1 Scope of the document

This document is compliant with the Commission Regulation (EU) N. 2016/2281 regarding "REQUIREMENTS FOR PRODUCT INFORMATION" (Annex II, Point 5). In particular, it deals with comfort chillers and contains information required by Table 10 of the above-mentioned regulation, which is entitled "Information requirements for comfort chillers".

1.2 REGULATION (UE) N. 2016/2281 description The COMMISSION REGULATION (EU) N. 2016/2281 of 30 November 2016, implementing Directive 2009/125/EC of the European Parliament and of the Council, establishes eco-design requirements for the placing on the market and/or putting into service of: air heating products with a rated heating capacity which does not exceed 1MW, cooling products and high temperature process chillers with a rated cooling capacity which do not exceed 2 MW, and all fan coil units. All these energy-related products are defined in Article 2 of the Regulation in question.

1.3 Description of the data declared by Mitsubishi Electric Hydronics & **IT Cooling Systems**

- Comfort chiller: a cooling product designed with the aim of attaining and maintaining the desired indoor temperature for the thermal comfort of human beings, whose evaporator extracts heat from a water-based cooling system designed to operate at leaving chilled temperatures greater than or equal to +2°C.
- Rated cooling capacity (Prated,c): the cooling capacity of a comfort chiller when providing space cooling at standard rating conditions, expressed in kW
- Low temperature application: application where the comfort chiller delivers its declared capacity for cooling at an indoor heat exchanger outlet temperature of 7°C
- Medium temperature application: application where the comfort chiller delivers its declared capacity for cooling at an indoor heat exchanger outlet temperature of 18°C.
- Seasonal energy efficiency of the space cooling (ns,c): ratio between the space cooling demand pertaining to the designated cooling season, and the annual energy consumption required to meet this demand, expressed in %
- Seasonal Energy Efficiency Ratio (SEER): the overall energy efficiency ratio of the comfort chiller, representative for the cooling season, calculated as the reference annual cooling demand divided by the annual energy consumption for cooling.
- Degradation coefficient for chillers: measure of efficiency loss due to cycling of the chiller.
- Off mode: a condition in which the chiller is connected to the main power source and is not providing any function. Thermostat off-mode: condition corresponding to the hours with no
- cooling load and activated cooling function, whereby the cooling function is switched on but the chiller is not operational.
- Crankcase heater mode: condition in which a heating device is activated to avoid the refrigerant migrating to the compressor so as to limit the refrigerant concentration in oil when the compressor is started.
- Standby mode: condition where the chiller is connected to the mains power source and depends on energy input from the mains power source to work as intended. The unit provides only the following functions, which may persist for an indefinite time: reactivation function, or reactivation function and only an indication of enabled reactivation
- function, and/or information or status display. Capacity control: the ability of a chiller to change its cooling capacity by changing the volumetric flow rate of at least one of the fluids needed to operate the refrigeration cycle.
- Sound power level (LWA): the A-weighted sound power level, indoors and/or outdoors, expressed in dB.
- Global warming potential (GWP) of the refrigerant: the 100-year climatic warming potential of one kilogram of a greenhouse gas relative to one kilogram of dioxide (CO2).



2. CLIMAVENETA CONTENTS UNIT

2.1 Table index

WATER COOLED CHILLERS

FOCS3-W-G05 0551 - 4752

Cooling Capacity Range 187 - 1688 [kW] Nominal Cooling Capacity at TdesignC Range 187 - 1688 [kW]

Units	Version			Size			Pag.
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		2501	2602	3002	3152	3502	
		3652	4002	4102	4502	4602	
		4752					



F	OCS3-W-G05 /0551		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	187,4
Seasonal energy efficiency of the space cooling	ηs,c	[%]	224,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	187
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	138
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	132
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	144
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	iency/auxiliary energy factor for part load at given ou	tdoor temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	4,89
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,15
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,25
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,64
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,910
Crankcase heater mode	PCK	[kW]	0,234
Standby mode	PSB	[kW]	0,234
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	95,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	39
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application



F	OCS3-W-G05 /0701		
	-		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	248,9
Seasonal energy efficiency of the space cooling	ηs,c	[%]	234,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	249
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	183
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	167
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	182
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	ency/auxiliary energy factor for part load at given out	tdoor temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	4,95
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,25
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,46
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,95
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,491
Crankcase heater mode	PCK	[kW]	0,234
Standby mode	PSB	[kW]	0,234
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	95,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	51
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application



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F	OCS3-W-G05 /0851		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	304,7
Seasonal energy efficiency of the space cooling	ηs,c	[%]	217,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	305
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	225
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	216
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	234
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency	ency/auxiliary energy factor for part load at given out	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	4,96
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,02
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	6,85
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,00
Power consumption	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,930
Crankcase heater mode	PCK	[kW]	0,334
Standby mode	PSB	[kW]	0,334
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	63
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application



F	OCS3-W-G05 /0951		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	336,1
Seasonal energy efficiency of the space cooling	ηs,c	[%]	223,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	336
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	248
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	239
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	259
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	iency/auxiliary energy factor for part load at given ou	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,01
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,24
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,12
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,15
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,326
Crankcase heater mode	PCK	[kW]	0,334
Standby mode	PSB	[kW]	0,334
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	69
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application



F	OCS3-W-G05 /1101		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	381,9
Seasonal energy efficiency of the space cooling	ηs,c	[%]	223,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	382
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	281
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	272
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	295
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	ency/auxiliary energy factor for part load at given out	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,00
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,22
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,08
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,12
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,684
Crankcase heater mode	PCK	[kW]	0,334
Standby mode	PSB	[kW]	0,334
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	78
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application



F	OCS3-W-G05 /1301		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	458,2
Seasonal energy efficiency of the space cooling	ηs,c	[%]	230,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	458
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	338
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	332
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	360
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	iency/auxiliary energy factor for part load at given ou	tdoor temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,09
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,13
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,23
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,43
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	4,026
Crankcase heater mode	PCK	[kW]	0,334
Standby mode	PSB	[kW]	0,334
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	94
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

F	OCS3-W-G05 /1401		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	522,3
Seasonal energy efficiency of the space cooling	ηs,c	[%]	252,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	522
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	385
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	380
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	413
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	ency/auxiliary energy factor for part load at given out	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,19
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,57
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,97
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	9,28
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,815
Crankcase heater mode	PCK	[kW]	0,334
Standby mode	PSB	[kW]	0,334
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	107
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application



F	OCS3-W-G05 /1651		
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Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	589,5
Seasonal energy efficiency of the space cooling	ηs,c	[%]	237,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	590
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	434
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	401
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	438
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	ency/auxiliary energy factor for part load at given out	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,20
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,23
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,39
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,64
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	5,145
Crankcase heater mode	PCK	[kW]	0,334
Standby mode	PSB	[kW]	0,334
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	120
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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	-		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	679,4
Seasonal energy efficiency of the space cooling	ηs,c	[%]	240,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	679
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	501
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	467
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	508
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effici	ency/auxiliary energy factor for part load at given out	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,12
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,26
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,50
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,75
Power consumption	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	5,654
Crankcase heater mode	PCK	[kW]	0,334
Standby mode	PSB	[kW]	0,334
	Other items	-	
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	139
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

F	OCS3-W-G05 /2101		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	738,9
Seasonal energy efficiency of the space cooling	ηs,c	[%]	243,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	739
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	544
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	548
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	604
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	iency/auxiliary energy factor for part load at given out	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,13
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,28
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,60
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	9,05
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	5,321
Crankcase heater mode	PCK	[kW]	0,334
Standby mode	PSB	[kW]	0,334
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	151
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

F	OCS3-W-G05 /2501		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	834,3
Seasonal energy efficiency of the space cooling	ηs,c	[%]	240,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	834
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	615
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	577
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	634
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	iency/auxiliary energy factor for part load at given out	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,16
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,22
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,33
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,74
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	6,050
Crankcase heater mode	PCK	[kW]	0,334
Standby mode	PSB	[kW]	0,334
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	170
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

F	OCS3-W-G05 /2602		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	913,2
Seasonal energy efficiency of the space cooling	ηs,c	[%]	243,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	913
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	673
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	433
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	354
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	iency/auxiliary energy factor for part load at given out	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,16
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,36
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,13
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	7,83
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	6,140
Crankcase heater mode	PCK	[kW]	0,658
Standby mode	PSB	[kW]	0,658
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	186
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

F	OCS3-W-G05 /3002		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	1058,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	247,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1058
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	780
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	501
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	415
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	iency/auxiliary energy factor for part load at given out	door temperatu	res Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,21
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,36
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,34
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,18
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	8,457
Crankcase heater mode	PCK	[kW]	0,658
Standby mode	PSB	[kW]	0,658
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	216
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application



F	OCS3-W-G05 /3152		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	1137,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	267,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1137
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	838
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	539
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	421
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effici	ency/auxiliary energy factor for part load at given out	door temperatu	ires Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,40
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,59
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,84
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,89
	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	6,184
Crankcase heater mode	PCK	[kW]	0,658
Standby mode	PSB	[kW]	0,658
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	231
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

F	OCS3-W-G05 /3502		
	-		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	1214,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	242,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1214
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	895
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	575
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	457
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency	ency/auxiliary energy factor for part load at given out	door temperatu	ires Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,22
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,22
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,11
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	7,88
Power consumption	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	9,718
Crankcase heater mode	PCK	[kW]	0,658
Standby mode	PSB	[kW]	0,658
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	247
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

F	OCS3-W-G05 /3652		
	-		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	1299,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	262,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1299
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	957
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	615
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	460
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effic	ency/auxiliary energy factor for part load at given out	door temperatu	ires Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,38
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,49
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,64
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,58
Power consumpti	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	7,333
Crankcase heater mode	PCK	[kW]	0,658
Standby mode	PSB	[kW]	0,658
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	264
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

FOCS3-W-G05 /4002				
	-			
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine	
Indoor side heat exchanger chiller	water		Water	
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression	
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor	
Rated cooling capacity	Prated,c	[kW]	1377,0	
Seasonal energy efficiency of the space cooling	ηs,c	[%]	244,0	
Declared cooling capacity	for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1377	
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	1015	
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	652	
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	519	
Degradation coefficient for chillers	Cdc		0,9	
Declared energy efficiency ratio or gas utilisation effici	ency/auxiliary energy factor for part load at given out	door temperatu	ires Tj	
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,25	
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,21	
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,14	
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	7,99	
Power consumption	on in modes other than "active mode"			
Off mode	POFF	[kW]	0,000	
Thermostat-off mode	PTO	[kW]	10,457	
Crankcase heater mode	PCK	[kW]	0,658	
Standby mode	PSB	[kW]	0,658	
	Other items			
Capacity control	fixed/staged/variable		Variable	
Sound power level, outdoor	LWA	[dB(A)]	100,0	
GWP of the refrigerant		[Kg CO2eq]	631	
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-	
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	280	
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application	

F	OCS3-W-G05 /4102		
	-		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	1445,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	252,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1445
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	1065
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	684
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	522
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation effici	ency/auxiliary energy factor for part load at given out	door temperatu	ires Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,29
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,29
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,27
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,09
Power consumption	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	10,252
Crankcase heater mode	PCK	[kW]	0,658
Standby mode	PSB	[kW]	0,658
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	101,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	294
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

FOCS3-W-G05 /4502				
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine	
Indoor side heat exchanger chiller	water		Water	
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression	
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor	
Rated cooling capacity	Prated,c	[kW]	1517,0	
Seasonal energy efficiency of the space cooling	ηs,c	[%]	246,0	
Declared cooling capacity	for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1517	
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	1118	
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	719	
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	616	
Degradation coefficient for chillers	Cdc		0,9	
Declared energy efficiency ratio or gas utilisation efficiency	ency/auxiliary energy factor for part load at given out	door temperatu	ires Tj	
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,21	
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,31	
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,18	
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,22	
Power consumption	on in modes other than "active mode"			
Off mode	POFF	[kW]	0,000	
Thermostat-off mode	PTO	[kW]	11,661	
Crankcase heater mode	PCK	[kW]	0,658	
Standby mode	PSB	[kW]	0,658	
	Other items			
Capacity control	fixed/staged/variable		Variable	
Sound power level, outdoor	LWA	[dB(A)]	102,0	
GWP of the refrigerant		[Kg CO2eq]	631	
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-	
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	309	
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application	

F	OCS3-W-G05 /4602		
	-		
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine
Indoor side heat exchanger chiller	water		Water
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor
Rated cooling capacity	Prated,c	[kW]	1609,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	248,0
Declared cooling capacity	for part load at given outdoor temperatures Tj		
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1609
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	1186
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	762
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	623
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency	ency/auxiliary energy factor for part load at given out	door temperatu	ires Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,24
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,52
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,21
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	7,85
Power consumption	on in modes other than "active mode"		
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	11,252
Crankcase heater mode	PCK	[kW]	0,658
Standby mode	PSB	[kW]	0,658
	Other items		
Capacity control	fixed/staged/variable		Variable
Sound power level, outdoor	LWA	[dB(A)]	102,0
GWP of the refrigerant		[Kg CO2eq]	631
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	328
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

FOCS3-W-G05 /4752				
Outdoor side heat exchanger of chiller	air or water/brine		Water/brine	
Indoor side heat exchanger chiller	water		Water	
Туре	compressor driven vapour compression or sorption process		Compressor driven vapour compression	
Driver of compressor	electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine		Electric motor	
Rated cooling capacity	Prated,c	[kW]	1688,0	
Seasonal energy efficiency of the space cooling	ηs,c	[%]	257,0	
Declared cooling capacity	for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1688	
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	1244	
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	800	
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	654	
Degradation coefficient for chillers	Cdc		0,9	
Declared energy efficiency ratio or gas utilisation efficiency	ency/auxiliary energy factor for part load at given out	door temperatu	ires Tj	
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	5,32	
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	6,50	
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	7,49	
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	8,56	
Power consumpti	on in modes other than "active mode"			
Off mode	POFF	[kW]	0,000	
Thermostat-off mode	PTO	[kW]	12,686	
Crankcase heater mode	PCK	[kW]	0,658	
Standby mode	PSB	[kW]	0,658	
	Other items			
Capacity control	fixed/staged/variable		Variable	
Sound power level, outdoor	LWA	[dB(A)]	102,0	
GWP of the refrigerant		[Kg CO2eq]	631	
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	-	
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	343	
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application	





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