

Climaveneta Technical Documentation
NECS_1314_3218_201802_ML

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

Ecodesign requirements for cooling products

AIR COOLED CHILLERS

NECS 1314 - 3218

Cooling Capacity Range 332 - 881 [kW] - (EN14511 VALUE)
Nominal Cooling Capacity at TdesignC Range 332 - 881 [kW]



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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 (EU) 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 water 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 ($\eta_{s,c}$): 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

AIR COOLED CHILLERS

NECS 1314 - 3218

Cooling Capacity Range 332 - 881 [kW]

Nominal Cooling Capacity at TdesignC Range 332 - 881 [kW]

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NECS /B 1314			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	352,7
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	162,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	353
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	260
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]	122
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,80
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,65
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,59
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,30
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,553
Crankcase heater mode	PCK	[kW]	0,408
Standby mode	PSB	[kW]	0,088
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	96,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	128376,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via L. Seitz 47 - 31100 Treviso - Italy

NECS /B 1414			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	377,4
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	166,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	377
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	278
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	179
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	123
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,87
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,70
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,71
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,43
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,501
Crankcase heater mode	PCK	[kW]	0,408
Standby mode	PSB	[kW]	0,088
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	96,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	122724,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via L. Seitz 47 - 31100 Treviso - Italy

NECS /B 1614			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	411,7
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	161,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	412
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	303
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	195
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	148
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,75
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,61
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,45
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,10
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,599
Crankcase heater mode	PCK	[kW]	0,408
Standby mode	PSB	[kW]	0,088
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	96,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	122724,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via L. Seitz 47 - 31100 Treviso - Italy

NECS /B 1715			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	456,4
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	164,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	456
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	336
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]	123
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,81
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,66
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,62
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,30
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,611
Crankcase heater mode	PCK	[kW]	0,510
Standby mode	PSB	[kW]	0,085
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	96,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	143172,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /B 1816			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	499,1
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	166,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	499
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	368
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	236
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	123
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,87
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,62
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,77
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,28
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,736
Crankcase heater mode	PCK	[kW]	0,612
Standby mode	PSB	[kW]	0,085
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	97,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	163620,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via L. Seitz 47 - 31100 Treviso - Italy

NECS /B 2015			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	523,9
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	161,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	524
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	386
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	248
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	145
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,82
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,63
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,55
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,92
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,582
Crankcase heater mode	PCK	[kW]	0,510
Standby mode	PSB	[kW]	0,088
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	97,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	163620,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /B 2116			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	567,4
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	166,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	567
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	418
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	269
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	124
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,87
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,62
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,70
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,32
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,686
Crankcase heater mode	PCK	[kW]	0,612
Standby mode	PSB	[kW]	0,088
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	97,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	184068,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via L. Seitz 47 - 31100 Treviso - Italy

NECS /B 2316			
-			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	601,6
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	163,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	602
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	443
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	285
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	127
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,78
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,54
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,58
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,26
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,695
Crankcase heater mode	PCK	[kW]	0,612
Standby mode	PSB	[kW]	0,099
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	97,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	184068,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via L. Seitz 47 - 31100 Treviso - Italy

NECS /B 2416			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	632,5
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	162,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	632
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	466
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	300
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	154
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,86
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,60
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,62
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,03
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,771
Crankcase heater mode	PCK	[kW]	0,612
Standby mode	PSB	[kW]	0,108
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	204516,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via L. Seitz 47 - 31100 Treviso - Italy

NECS /B 2418			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	662,9
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	162,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	663
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	488
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	314
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	140
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,81
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,64
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,54
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,11
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,789
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,166
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	251640,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /B 2618			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	705,0
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	164,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	705
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	519
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	334
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	148
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,80
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,66
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,61
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,19
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,897
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,166
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	256788,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /B 2818			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	757,0
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	168,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	757
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	558
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	359
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	159
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,88
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,73
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,74
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,34
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,792
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,166
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	99,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	245448,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /B 3018			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	790,8
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	166,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	791
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	583
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	375
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	166
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,81
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,69
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,63
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,33
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,869
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,166
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	99,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	245448,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /B 3218			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	823,6
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	161,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	824
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	607
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	390
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	173
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,76
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,67
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,48
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,02
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,943
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,166
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	99,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	245448,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 1314			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	368,7
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	164,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	369
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	272
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	175
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	127
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,04
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,92
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,74
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,29
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,743
Crankcase heater mode	PCK	[kW]	0,493
Standby mode	PSB	[kW]	0,493
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	97,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	171180,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 1414			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	389,9
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	167,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	390
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	287
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	185
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	127
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,08
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,95
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,81
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,40
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,501
Crankcase heater mode	PCK	[kW]	0,493
Standby mode	PSB	[kW]	0,493
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	97,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	163620,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 1614			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	436,4
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	163,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	436
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	322
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	207
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	157
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,04
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,95
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,66
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,18
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,003
Crankcase heater mode	PCK	[kW]	0,493
Standby mode	PSB	[kW]	0,493
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	97,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	163620,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 1715			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	479,1
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	167,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	479
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	353
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	227
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	126
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,07
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,06
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,77
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,25
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,004
Crankcase heater mode	PCK	[kW]	0,598
Standby mode	PSB	[kW]	0,598
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	97,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	184068,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 1816			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	515,1
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	165,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	515
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	380
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	244
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	127
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,05
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,99
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,78
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,05
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,415
Crankcase heater mode	PCK	[kW]	0,700
Standby mode	PSB	[kW]	0,700
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	204516,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 2015			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	547,3
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	166,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	547
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	403
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	259
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	154
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,06
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,02
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,73
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,11
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,859
Crankcase heater mode	PCK	[kW]	0,598
Standby mode	PSB	[kW]	0,598
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	204516,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 2116			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	589,2
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	168,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	589
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]	279
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	129
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,07
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,02
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,79
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,15
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,246
Crankcase heater mode	PCK	[kW]	0,697
Standby mode	PSB	[kW]	0,697
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	225000,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 2316			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	630,4
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	168,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	630
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	465
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	299
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	133
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,06
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,99
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,80
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,19
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,333
Crankcase heater mode	PCK	[kW]	0,708
Standby mode	PSB	[kW]	0,708
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	99,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	245448,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 2416			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	654,7
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	164,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	655
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	482
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	310
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	160
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,05
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,97
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,70
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,92
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,573
Crankcase heater mode	PCK	[kW]	0,724
Standby mode	PSB	[kW]	0,724
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	99,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	245448,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 2418			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	698,7
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	164,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	699
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	515
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	331
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	147
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,06
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,87
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,76
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,06
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,786
Crankcase heater mode	PCK	[kW]	0,975
Standby mode	PSB	[kW]	0,975
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	99,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	335484,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 2618			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	736,8
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	164,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	737
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	543
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	349
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	155
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,04
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,86
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,76
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,03
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,198
Crankcase heater mode	PCK	[kW]	0,975
Standby mode	PSB	[kW]	0,975
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	99,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	342360,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 2818			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	781,9
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	168,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	782
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	576
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	370
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	165
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,09
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,91
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,86
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,21
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,655
Crankcase heater mode	PCK	[kW]	0,975
Standby mode	PSB	[kW]	0,975
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	327240,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 3018			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	827,5
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	168,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	828
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	610
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	392
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	174
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,07
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,92
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,81
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,22
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,074
Crankcase heater mode	PCK	[kW]	0,975
Standby mode	PSB	[kW]	0,975
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	327240,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /CA 3218			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	881,1
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	166,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	881
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	649
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	417
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	185
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,07
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,97
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,74
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,98
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,620
Crankcase heater mode	PCK	[kW]	0,975
Standby mode	PSB	[kW]	0,975
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	327240,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 1314			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	332,3
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	158,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	332
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	245
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	157
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	122
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,55
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,79
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,60
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,14
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,337
Crankcase heater mode	PCK	[kW]	0,408
Standby mode	PSB	[kW]	0,085
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	86,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	96876,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 1414			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	356,9
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	162,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	357
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	263
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	169
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	126
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,58
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,75
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,70
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,33
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,201
Crankcase heater mode	PCK	[kW]	0,408
Standby mode	PSB	[kW]	0,085
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	86,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	107640,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 1614			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	395,8
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	158,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	396
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	292
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	187
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	154
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,56
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,77
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,55
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,15
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,561
Crankcase heater mode	PCK	[kW]	0,408
Standby mode	PSB	[kW]	0,085
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	86,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	103068,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 1715			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	430,0
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	162,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	430
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	317
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	204
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	127
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,53
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,80
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,69
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,27
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,520
Crankcase heater mode	PCK	[kW]	0,510
Standby mode	PSB	[kW]	0,085
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	124524,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 1816			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	463,2
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	162,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	463
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	341
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	219
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	126
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,51
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,78
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,77
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,17
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,838
Crankcase heater mode	PCK	[kW]	0,612
Standby mode	PSB	[kW]	0,088
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	134568,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 2015			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	496,2
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	163,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	496
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	366
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	235
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	158
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,57
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,83
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,70
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,14
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,448
Crankcase heater mode	PCK	[kW]	0,510
Standby mode	PSB	[kW]	0,085
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	128844,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 2116			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	530,6
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	165,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	531
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	391
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	251
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	128
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,55
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,82
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,79
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,27
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,717
Crankcase heater mode	PCK	[kW]	0,612
Standby mode	PSB	[kW]	0,085
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	154296,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 2316			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	577,4
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	165,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	577
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	425
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	274
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	125
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,60
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,85
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,73
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,23
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,863
Crankcase heater mode	PCK	[kW]	0,612
Standby mode	PSB	[kW]	0,096
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	88,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	152316,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 2416			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	593,9
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	163,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	594
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	438
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	281
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	158
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,56
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,82
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,73
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,06
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,002
Crankcase heater mode	PCK	[kW]	0,612
Standby mode	PSB	[kW]	0,112
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	88,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	154620,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 2418			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	613,8
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	162,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	614
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	452
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	291
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	129
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,49
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,83
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,62
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,02
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,995
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,166
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	88,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	154620,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 2618			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	664,0
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	163,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	664
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	489
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	315
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	140
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,55
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,86
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,72
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,10
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,442
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,163
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	89,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	193716,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 2818			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	715,6
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	165,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	716
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	527
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	339
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	151
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,58
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,85
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,74
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,14
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,112
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,159
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	90,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	215316,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 3018			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	755,4
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	166,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	755
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	557
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	358
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	159
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,60
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,87
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,73
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,21
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,428
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,159
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	90,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	224460,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL 3218			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	791,9
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	161,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	792
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	584
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	375
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	167
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	2,56
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,84
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,59
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,90
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,742
Crankcase heater mode	PCK	[kW]	0,816
Standby mode	PSB	[kW]	0,159
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	90,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	206136,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 1314			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	369,2
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	170,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	369
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	272
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	175
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	130
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,07
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,13
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,88
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,50
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,307
Crankcase heater mode	PCK	[kW]	0,493
Standby mode	PSB	[kW]	0,493
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	86,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	142848,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 1414			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	393,1
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	172,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	393
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	290
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	186
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	133
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,08
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,13
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,91
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,53
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,211
Crankcase heater mode	PCK	[kW]	0,496
Standby mode	PSB	[kW]	0,496
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	86,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	154548,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 1614			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	438,5
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	167,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	438
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	323
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	208
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	163
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,06
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,10
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,77
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,32
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,598
Crankcase heater mode	PCK	[kW]	0,496
Standby mode	PSB	[kW]	0,496
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	86,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	148248,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 1715			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	479,5
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	173,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	479
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	353
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	227
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	131
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,08
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,18
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,89
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,46
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,328
Crankcase heater mode	PCK	[kW]	0,595
Standby mode	PSB	[kW]	0,595
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	163080,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 1816			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	519,9
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	172,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	520
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	383
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	246
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	133
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,08
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,20
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,91
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,28
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,630
Crankcase heater mode	PCK	[kW]	0,697
Standby mode	PSB	[kW]	0,697
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	177912,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 2015			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	548,8
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	172,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	549
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	404
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	260
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	162
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,08
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,20
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,88
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,29
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,636
Crankcase heater mode	PCK	[kW]	0,598
Standby mode	PSB	[kW]	0,598
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	177912,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 2116			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	589,6
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	173,0
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]	279
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	134
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,08
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,21
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,90
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,31
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,965
Crankcase heater mode	PCK	[kW]	0,704
Standby mode	PSB	[kW]	0,704
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	192708,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 2316			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	636,1
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	173,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	636
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	469
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	301
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	134
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,08
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,14
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,92
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,30
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,186
Crankcase heater mode	PCK	[kW]	0,711
Standby mode	PSB	[kW]	0,711
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	88,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	207540,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 2416			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	660,1
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	170,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	660
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	486
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	313
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	167
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,06
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,21
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,86
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,08
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,405
Crankcase heater mode	PCK	[kW]	0,720
Standby mode	PSB	[kW]	0,720
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	88,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	207540,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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NECS /SL-CA 2418			
Outdoor side heat exchanger of chiller	air or water/brine		Air
Indoor side heat exchanger chiller	water		Water
Type	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]	693,4
Seasonal energy efficiency of the space cooling	$\eta_{s,c}$	[%]	173,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	693
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	511
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	328
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	146
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,09
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,15
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,92
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,37
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,949
Crankcase heater mode	PCK	[kW]	0,975
Standby mode	PSB	[kW]	0,975
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	88,0
GWP of the refrigerant		[Kg CO2eq]	2088
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	237204,00
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger		[m³/h]	-
Standard rating conditions used:	low temperature application/medium temperature application		Low temperature application

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ENGLISH	ITALIANO	FRANCAISE	DEUTSCH	ESPAÑOL
Outdoor side heat exchanger of chiller	Refrigeratore a scambiatore di calore esterno	Echangeur de chaleur côté extérieur du refroidisseur	Wärmetauscher des Kühlers (außen)	Intercambiador de calor de exterior de la enfriadora
Indoor side heat exchanger chiller	Refrigeratore a scambiatore di calore interno	Echangeur de chaleur côté intérieur du refroidisseur	Wärmetauscher des Kühlers (innen)	Intercambiador de calor de interior de la enfriadora
Type	Tipo	Type	Bauart	Tipo
Driver of compressor	Tipo di azionamento del compressore	Type d'entraînement du compresseur	Antrieb des Verdichters	Accionamiento del compresor
Rated cooling capacity	Capacità di raffreddamento nominale	Puissance frigorifique nominale	Nennkühlleistung	Potencia nominal de refrigeración
Seasonal energy efficiency of the space cooling	Efficienza energetica stagionale del raffreddamento d'ambiente	Efficacité énergétique saisonnière pour le refroidissement des locaux	Raumkühlungs-Jahresnutzungsgrad	Eficiencia energética estacional de refrigeración de espacios
Declared cooling capacity for part load at given outdoor temperatures Tj	Capacità di raffreddamento dichiarata a carico parziale a temperature esterne date Tj	Puissance frigorifique déclarée à charge partielle pour des températures extérieures données Tj	Angegebene Kühlleistung bei Teillast und bestimmten Außentemperaturen Tj	Potencia de refrigeración declarada para carga parcial a las temperaturas exteriores dadas Tj
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Capacità di raffreddamento dichiarata a temperatura esterna Tj = 35°C	Puissance frigorifique déclarée à la température extérieure Tj = 35°C	Angegebene Kühlleistung bei Teillast und einer Außentemperatur Tj = 35°C	Potencia de refrigeración declarada para carga parcial a la temperatura exterior Tj = 35°C
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Capacità di raffreddamento dichiarata a temperatura esterna Tj = 30°C	Puissance frigorifique déclarée à la température extérieure Tj = 30°C	Angegebene Kühlleistung bei Teillast und einer Außentemperatur Tj = 30°C	Potencia de refrigeración declarada para carga parcial a la temperatura exterior Tj = 30°C
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Capacità di raffreddamento dichiarata a temperatura esterna Tj = 25°C	Puissance frigorifique déclarée à la température extérieure Tj = 25°C	Angegebene Kühlleistung bei Teillast und einer Außentemperatur Tj = 25°C	Potencia de refrigeración declarada para carga parcial a la temperatura exterior Tj = 25°C
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Capacità di raffreddamento dichiarata a temperatura esterna Tj = 20°C	Puissance frigorifique déclarée à la température extérieure Tj = 20°C	Angegebene Kühlleistung bei Teillast und einer Außentemperatur Tj = 20°C	Potencia de refrigeración declarada para carga parcial a la temperatura exterior Tj = 20°C
Degradation coefficient for chillers	Coefficiente di degradazione per i refrigeratori	Coefficient de dégradation pour les refroidisseurs	Minderungsfaktor von Kühlern	Coefficiente de degradación de las enfriadoras
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj	Indice di efficienza energetica dichiarato o efficienza dell'uso del gas/fattore di energia ausiliaria a carico parziale alle temperature esterne date Tj	Coefficient d'efficacité énergétique déclaré ou rendement de la consommation de gaz/indice énergétique auxiliaire à charge partielle pour des températures extérieures données Tj	Angegebene Leistungszahl oder Gaswirkungsgrad/Hilfsenergiefaktor bei Teillast und bestimmten Außentemperaturen Tj	Factor de eficiencia energética declarado o eficiencia del uso de gas o factor de energía auxiliar para carga parcial a las temperaturas exteriores dadas Tj
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	Indice di efficienza energetica dichiarato con temperatura esterna Tj = 35°C	Coefficient d'efficacité énergétique déclaré à la température extérieure Tj = 35°C	Angegebene Leistungszahl bei Teillast und einer Außentemperatur Tj = 35°C	Factor de eficiencia energética declarado a la temperatura exterior Tj = 35°C
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	Indice di efficienza energetica dichiarato con temperatura esterna Tj = 30°C	Coefficient d'efficacité énergétique déclaré à la température extérieure Tj = 30°C	Angegebene Leistungszahl bei Teillast und einer Außentemperatur Tj = 30°C	Factor de eficiencia energética declarado a la temperatura exterior Tj = 30°C
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	Indice di efficienza energetica dichiarato con temperatura esterna Tj = 25°C	Coefficient d'efficacité énergétique déclaré à la température extérieure Tj = 25°C	Angegebene Leistungszahl bei Teillast und einer Außentemperatur Tj = 25°C	Factor de eficiencia energética declarado a la temperatura exterior Tj = 25°C
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	Indice di efficienza energetica dichiarato con temperatura esterna Tj = 20°C	Coefficient d'efficacité énergétique déclaré à la température extérieure Tj = 20°C	Angegebene Leistungszahl bei Teillast und einer Außentemperatur Tj = 20°C	Factor de eficiencia energética declarado a la temperatura exterior Tj = 20°C
Power consumption in modes other than "active mode"	Consumo di energia in modi diversi dal «modo attivo»	Consommation d'énergie dans les modes autres que le mode actif	Stromverbrauch in anderen Betriebsarten als dem „aktiven Betrieb“	Consumo de energía en modos distintos del modo activo
Off mode	Modo «spento»	Mode arrêt	AUS-Zustand	Modo desactivado
Thermostat-off mode	Modo «termostato spento»	Mode arrêt par thermostat	Thermostat-AUS- Zustand	Modo desactivado por termostato
Crankcase heater mode	Modo «riscaldamento del carter»	Mode résistance de carter active	Betriebszustand mit Kurbelwannenheizung	Modo de calentador del cárter activado
Standby mode	Modo «stand-by»	Mode veille	Bereitschaftszustand	Modo de espera
Other items	Altri elementi	Autres caractéristiques	Sonstige Produktdaten	Otros elementos
Capacity control	Dispositivo di controllo della capacità	Régulation de la puissance	Leistungsregelung	Control de la potencia
Sound power level, outdoor	Livello di potenza sonora esterno	Niveau de puissance acoustique, à l'extérieur	Schallleistungspegel, außen	Nivel de potencia acústica (exterior)
GWP of the refrigerant	GWP del refrigerante	PRP du fluide frigorigène	Treibhausgaspotenzial des Kältemittels	PCA del refrigerante
For air-to-water comfort chillers: air flow rate, outdoor measured	Per i refrigeratori d'ambiente aria-acqua: flusso d'aria, misurato all'esterno	Pour les refroidisseurs de confort air-eau: débit d'air, mesuré à l'extérieur	Bei Luft-Wasser- Komfortkühlern: Luftdurchsatz, außen gemessen	Enfriadoras de confort aire-agua: caudal de aire (exterior)
For water/brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	Per i refrigeratori acqua/salamoia-acqua: flusso d'acqua o salamoia nominale, scambiatore di calore esterno	Pour les refroidisseurs eau/eau glycolée-eau: débit nominal d'eau glycolée ou d'eau,	Bei Wasser/Sole-Wasser-Kühlern: Wasser- oder Sole- Nenndurchsatz, Wärmetauscher außen	Enfriadoras agua-agua/ salmuera-agua: caudal nominal de salmuera o agua, intercambiador de calor de exterior

ENGLISH	ITALIANO	FRANCAISE	DEUTSCH	ESPAÑOL
Standard rating conditions used:	Condizioni nominali standard	Conditions de performance	Norm-Prüfbedingungen:	Condiciones estándar utilizadas:
Notes:	Note:	Remarques:	Hinweise:	Notas:
The parameters are declared for application at medium temperature, except in the case of low temperature heat pumps. For low temperature heat pumps, the parameters are declared for application at low temperature.	I parametri sono dichiarati per l'applicazione a temperatura media, tranne per le pompe di calore a bassa temperatura. Per le pompe di calore a bassa temperatura, i parametri sono dichiarati per l'applicazione a bassa temperatura.	Les paramètres sont déclarés pour l'application à moyenne température, excepté pour les pompes à chaleur basse température. Pour les pompes à chaleur basse température, les paramètres sont déclarés pour l'application à basse température.	Die Parameter sind für eine Mitteltemperaturanwendung anzugeben, außer für Niedertemperatur-Wärmepumpen. Für Niedertemperatur-Wärmepumpen sind die Parameter für eine Niedertemperaturanwendung anzugeben.	Los parámetros se declararán para aplicaciones de media temperatura, excepto si se trata de bombas de calor de baja temperatura. En el caso de las bombas de calor de baja temperatura, los parámetros se declararán para aplicaciones de baja temperatura.
Unit in standard configuration/execution, without optional accessories.	Unità in configurazione ed esecuzione standard, priva di accessori opzionali.	Unité en configuration et exécution standard, sans accessoires optionnels.	Gerät mit Standard-Konfiguration und -Ausführung, ohne wunschweises Zubehör.	Unidad en configuración y ejecución estándar, sin accesorios opcionales.



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



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