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

Climaveneta **Technical Documentation**
FX_HFO_1502_7823_201802_ML

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

Ecodesign requirements for cooling products

AIR COOLED CHILLERS

FX HFO 1502 - 7823

Cooling Capacity Range 234 - 1460 [kW] - (EN14511 VALUE)
Nominal Cooling Capacity at TdesignC Range 234 - 1460 [kW]

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

1.1 Scope of the document

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

1.2 REGULATION (UE) N. 2016/2281 description

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

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

- Comfort chiller: a cooling product designed with the aim of attaining and maintaining the desired indoor temperature for the thermal comfort of human beings, whose evaporator extracts heat from a water-based cooling system designed to operate at leaving chilled 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 (ηs,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

FX HFO 1502 - 7823

Cooling Capacity Range 234 - 1460 [kW]

Nominal Cooling Capacity at TdesignC Range 234 - 1460 [kW]

FX HFO /A /1502 -			
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]	236,7
Seasonal energy efficiency of the space cooling	ηs,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]	237
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	174
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	112
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	69,5
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	[%]	3,17
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,98
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	[%]	4,80
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,788
Crankcase heater mode	PCK	[kW]	0,400
Standby mode	PSB	[kW]	0,181
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	98,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	95688,00
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

FX HFO /A /1702 -			
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]	268,9
Seasonal energy efficiency of the space cooling	ηs,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]	269
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	198
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	127
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	78,5
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	[%]	3,13
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,93
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	[%]	4,96
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,831
Crankcase heater mode	PCK	[kW]	0,400
Standby mode	PSB	[kW]	0,181
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	99,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	95688,00
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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FX HFO /A /1802 -			
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]	292,4
Seasonal energy efficiency of the space cooling	ηs,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]	292
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	215
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	139
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	85,2
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	[%]	3,16
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,00
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	[%]	5,09
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,662
Crankcase heater mode	PCK	[kW]	0,400
Standby mode	PSB	[kW]	0,181
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	99,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	95688,00
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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FX HFO /A /1922 -			
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]	338,7
Seasonal energy efficiency of the space cooling	ηs,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]	339
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	250
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	160
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	99,0
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	[%]	3,23
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,96
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	[%]	4,83
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,895
Crankcase heater mode	PCK	[kW]	0,400
Standby mode	PSB	[kW]	0,181
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	114840,00
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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FX HFO /A /2202 -			
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]	376,0
Seasonal energy efficiency of the space cooling	ηs,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]	376
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	277
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	178
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	109
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	[%]	3,14
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	[%]	4,69
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,80
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,123
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	114840,00
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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FX HFO /A /2602 -			
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]	413,4
Seasonal energy efficiency of the space cooling	ηs,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]	413
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	305
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	196
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	120
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	[%]	3,11
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	[%]	4,93
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,426
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	133992,00
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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FX HFO /A /2702 -			
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]	482,2
Seasonal energy efficiency of the space cooling	ηs,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]	482
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	355
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	228
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	141
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	[%]	3,13
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,98
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,65
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]	1,225
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	100,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	153108,00
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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FX HFO /A /2722 -			
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]	531,8
Seasonal energy efficiency of the space cooling	ηs,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]	532
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	392
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	252
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	156
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	[%]	3,14
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,96
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	[%]	5,16
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,570
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	102,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	153108,00
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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FX HFO /A /3602 -			
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]	629,5
Seasonal energy efficiency of the space cooling	ηs,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]	630
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	464
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	298
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	182
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,12
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,98
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	[%]	4,94
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,163
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	102,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	191412,00
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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FX HFO /A /4202 -			
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]	724,5
Seasonal energy efficiency of the space cooling	ηs,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]	724
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	534
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	343
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	210
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	[%]	3,12
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	[%]	4,69
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,04
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,553
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,309
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	103,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	229680,00
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

FX HFO /A /4802 -			
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]	838,5
Seasonal energy efficiency of the space cooling	ηs,c	[%]	169,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	838
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	618
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	397
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	244
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	[%]	3,10
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,98
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	[%]	5,15
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,000
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,329
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	104,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	229680,00
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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FX HFO /A /4822 -			
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]	897,3
Seasonal energy efficiency of the space cooling	ηs,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]	897
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	661
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	425
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	261
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	[%]	3,18
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,93
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,68
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]	2,976
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,369
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	104,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	267948,00
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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FX HFO /A /6002 -			
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]	980,8
Seasonal energy efficiency of the space cooling	ηs,c	[%]	169,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	981
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	723
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	465
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	287
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	[%]	3,12
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	[%]	4,72
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,12
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,996
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,389
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	106,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	306252,00
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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FX HFO /A /6022 -			
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]	1062,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	169,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1062
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	783
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	503
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	311
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	[%]	3,14
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,96
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,75
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]	3,486
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,389
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	106,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	306252,00
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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FX HFO /A /6603 -			
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]	1149,0
Seasonal energy efficiency of the space cooling	ηs,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]	1149
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	847
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	544
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	242
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	[%]	3,13
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,96
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	[%]	5,04
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,339
Crankcase heater mode	PCK	[kW]	0,900
Standby mode	PSB	[kW]	0,451
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	106,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	344520,00
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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FX HFO /A /7203 -			
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]	1267,0
Seasonal energy efficiency of the space cooling	ηs,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]	1267
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	934
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	600
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	267
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	[%]	3,10
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	[%]	4,62
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,96
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,608
Crankcase heater mode	PCK	[kW]	0,900
Standby mode	PSB	[kW]	0,451
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	106,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	344520,00
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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FX HFO /A /7223 -			
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]	1379,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	169,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1379
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	1016
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	653
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	290
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	[%]	3,14
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,96
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	[%]	5,19
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	4,501
Crankcase heater mode	PCK	[kW]	0,900
Standby mode	PSB	[kW]	0,510
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	106,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	363636,00
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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FX HFO /A /7823 -			
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]	1447,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	169,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1447
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	1066
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	685
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	305
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	[%]	3,11
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	[%]	4,64
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]	5,104
Crankcase heater mode	PCK	[kW]	0,900
Standby mode	PSB	[kW]	0,511
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	106,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	382788,00
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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FX HFO /SL-A /1502 -			
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]	233,9
Seasonal energy efficiency of the space cooling	ηs,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]	234
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	172
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	111
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	69,5
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	[%]	3,18
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,05
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	[%]	4,81
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,769
Crankcase heater mode	PCK	[kW]	0,400
Standby mode	PSB	[kW]	0,181
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	86436,00
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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FX HFO /SL-A /1702 -			
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]	265,4
Seasonal energy efficiency of the space cooling	ηs,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]	265
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	196
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	126
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	78,5
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	[%]	3,13
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	[%]	4,63
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,96
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,809
Crankcase heater mode	PCK	[kW]	0,400
Standby mode	PSB	[kW]	0,181
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	86436,00
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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FX HFO /SL-A /1802 -			
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]	288,4
Seasonal energy efficiency of the space cooling	ηs,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]	288
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	213
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	137
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	85,3
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	[%]	3,14
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,04
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	[%]	5,09
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,644
Crankcase heater mode	PCK	[kW]	0,400
Standby mode	PSB	[kW]	0,181
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	86436,00
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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FX HFO /SL-A /1922 -			
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]	336,0
Seasonal energy efficiency of the space cooling	ηs,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]	336
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	248
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	159
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	99,0
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	[%]	3,23
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,04
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	[%]	4,83
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,881
Crankcase heater mode	PCK	[kW]	0,400
Standby mode	PSB	[kW]	0,181
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	88,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	103716,00
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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FX HFO /SL-A /2202 -			
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]	370,5
Seasonal energy efficiency of the space cooling	ηs,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]	370
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	273
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	176
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	109
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	[%]	3,11
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,05
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,68
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,81
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,082
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	89,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	103716,00
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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FX HFO /SL-A /2602 -			
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]	413,2
Seasonal energy efficiency of the space cooling	ηs,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]	413
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	304
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	196
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	120
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	[%]	3,17
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,07
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	[%]	4,93
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,425
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	89,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	138276,00
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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FX HFO /SL-A /2702 -			
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]	475,4
Seasonal energy efficiency of the space cooling	ηs,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]	475
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	350
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	225
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	141
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	[%]	3,11
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,01
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,65
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	5,09
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	1,183
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	89,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	138276,00
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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FX HFO /SL-A /2722 -			
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]	526,6
Seasonal energy efficiency of the space cooling	ηs,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]	527
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	388
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	249
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	156
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	[%]	3,10
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	[%]	4,67
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]	1,531
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	90,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	138276,00
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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FX HFO /SL-A /3602 -			
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]	620,7
Seasonal energy efficiency of the space cooling	ηs,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]	621
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	457
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	294
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	182
Degradation coefficient for chillers	Cdc		0,9
Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures Tj			
Declared energy efficiency ratio at given outdoor temperatures Tj = 35°C	EERd	[%]	3,10
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	[%]	4,66
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,95
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,087
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,258
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	91,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	172872,00
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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FX HFO /SL-A /4202 -			
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]	715,4
Seasonal energy efficiency of the space cooling	ηs,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]	715
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]	210
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	[%]	3,10
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	[%]	4,69
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]	2,470
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,309
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	92,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	207432,00
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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FX HFO /SL-A /4802 -			
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]	828,6
Seasonal energy efficiency of the space cooling	ηs,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]	829
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	611
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]	244
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	[%]	3,18
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,05
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,68
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,93
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,421
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,369
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	93,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	241992,00
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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FX HFO /SL-A /4822 -			
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]	889,2
Seasonal energy efficiency of the space cooling	ηs,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]	889
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	655
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	421
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	262
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	[%]	3,14
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	[%]	4,69
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]	2,906
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,369
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	94,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	241992,00
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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FX HFO /SL-A /6002 -			
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]	968,1
Seasonal energy efficiency of the space cooling	ηs,c	[%]	169,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	968
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	713
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	459
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	287
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	[%]	3,10
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,01
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	[%]	5,13
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	2,897
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,389
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	94,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	276588,00
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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FX HFO /SL-A /6022 -			
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]	1051,0
Seasonal energy efficiency of the space cooling	ηs,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]	1051
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	774
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	498
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	311
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	[%]	3,10
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,00
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,75
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]	3,392
Crankcase heater mode	PCK	[kW]	0,600
Standby mode	PSB	[kW]	0,389
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	94,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	276588,00
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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FX HFO /SL-A /6603 -			
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]	1134,0
Seasonal energy efficiency of the space cooling	ηs,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]	1134
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	836
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	537
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	239
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	[%]	3,10
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	3,98
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	[%]	5,03
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,223
Crankcase heater mode	PCK	[kW]	0,900
Standby mode	PSB	[kW]	0,451
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	94,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	311148,00
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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FX HFO /SL-A /7203 -			
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]	1257,0
Seasonal energy efficiency of the space cooling	ηs,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]	1257
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	926
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	595
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	265
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	[%]	3,11
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	[%]	4,62
Declared energy efficiency ratio at given outdoor temperatures Tj = 20°C	EERd	[%]	4,96
Power consumption in modes other than "active mode"			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	3,538
Crankcase heater mode	PCK	[kW]	0,900
Standby mode	PSB	[kW]	0,510
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	94,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	328428,00
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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FX HFO /SL-A /7223 -			
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]	1375,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	171,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1375
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	1013
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	651
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	289
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	[%]	3,16
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	[%]	4,71
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]	4,457
Crankcase heater mode	PCK	[kW]	0,900
Standby mode	PSB	[kW]	0,511
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	95,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	345708,00
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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FX HFO /SL-A /7823 -			
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]	1460,0
Seasonal energy efficiency of the space cooling	ηs,c	[%]	175,0
Declared cooling capacity for part load at given outdoor temperatures Tj			
Declared cooling capacity at given outdoor temperatures Tj = 35°C	Pdc	[kW]	1460
Declared cooling capacity at given outdoor temperatures Tj = 30°C	Pdc	[kW]	1076
Declared cooling capacity at given outdoor temperatures Tj = 25°C	Pdc	[kW]	692
Declared cooling capacity at given outdoor temperatures Tj = 20°C	Pdc	[kW]	307
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	[%]	3,11
Declared energy efficiency ratio at given outdoor temperatures Tj = 30°C	EERd	[%]	4,03
Declared energy efficiency ratio at given outdoor temperatures Tj = 25°C	EERd	[%]	4,75
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]	3,260
Crankcase heater mode	PCK	[kW]	0,900
Standby mode	PSB	[kW]	0,511
Other items			
Capacity control	fixed/staged/variable		Staged
Sound power level, outdoor	LWA	[dB(A)]	95,0
GWP of the refrigerant		[Kg CO2eq]	7,00
For air-to-water comfort chillers: air flow rate, outdoor measured		[m³/h]	345708,00
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	ESPANOL
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	Coeficiente 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/Hilfsenergiefa 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	ESPANOL
Standard rating conditions used:	Condizioni nominali standard	Conditions de perfomance	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.

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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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