

Climaveneta Technical Documentation
TECS-FC-G05-Y_0211_1204_201903_EN

REGULATION (EU) N. 2016/2281 FOR HIGH TEMPERATURE PROCESS CHILLERS

Ecodesign requirements for process chillers

AIR COOLED CHILLERS - FREECOOLING

TECS-FC-G05-Y 0211 - 1204

Cooling Capacity Range 258 - 1416 [kW] - (EN14511 VALUE)
Nominal Cooling Capacity at TdesignC Range 258 - 1416 [kW]

EN



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1. REGULATION (EU) N. 2016/2281 FOR HIGH TEMPERATURE PROCESS 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 high temperature process chillers and contains information required by Table 15 of the above-mentioned regulation, which is entitled "Information requirements for high temperature process 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

- High temperature process chiller: a product designed to cool down and continuously maintain the temperature of a liquid to provide cooling to a refrigerated appliance or system, whose aim is not to provide cooling for the thermal comfort of human beings. It is capable of delivering its rated refrigeration capacity at an indoor side heat exchanger outlet temperature of 7°C, at standard rating conditions.
- Rated refrigeration capacity (P): the refrigeration capacity that the high temperature process chiller is able to reach when operating at full load at a specific rating point, expressed in kW.
- Seasonal Energy Performance Ratio (SEPR): the efficiency ratio of a high temperature process chiller at standard rating conditions, representative of the variations in load and ambient temperature throughout the year, and calculated as the ratio between the annual refrigeration demand and the annual electricity consumption.
- Annual electricity consumption: result of the sum of the ratios between each bin-specific cooling demand and the corresponding bin-specific energy efficiency ratio, multiplied by the corresponding number of bin hours.
- Degradation coefficient for chillers: measure of efficiency loss due to cycling of the chiller.
- 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.
- 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 - FREECOOLING

TECS-FC-G05-Y 0211 - 1204

Cooling Capacity Range 258 - 1416 [kW]

Nominal Cooling Capacity at TdesignC Range 258 - 1416 [kW]

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TECS-FC-G05-Y /CA /0211			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,90
Annual electricity consumption	Q	[kWh]	287998
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	268,10
Rated power input	D _A	[kW]	87,30
Rated energy efficiency ratio	EER _{DC,A}		3,07
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	250,23
Rated power input	D _B	[kW]	56,40
Declared energy efficiency ratio	EER _{DC,B}		4,44
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	232,35
Rated power input	D _C	[kW]	43,90
Declared energy efficiency ratio	EER _{DC,C}		5,29
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	214,48
Rated power input	D _D	[kW]	19,03
Declared energy efficiency ratio	EER _{DC,D}		11,27
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /CA /0211			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,39
Annual electricity consumption	Q	[kWh]	310148
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	267,60
Rated power input	D _A	[kW]	88,00
Rated energy efficiency ratio	EER _{DC,A}		3,04
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	249,76
Rated power input	D _B	[kW]	57,00
Declared energy efficiency ratio	EER _{DC,B}		4,38
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	231,92
Rated power input	D _C	[kW]	44,40
Declared energy efficiency ratio	EER _{DC,C}		5,22
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	214,08
Rated power input	D _D	[kW]	22,87
Declared energy efficiency ratio	EER _{DC,D}		9,36
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /CA /0251			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,87
Annual electricity consumption	Q	[kWh]	342123
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	317,09
Rated power input	D _A	[kW]	93,50
Rated energy efficiency ratio	EER _{DC,A}		3,39
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	295,96
Rated power input	D _B	[kW]	65,50
Declared energy efficiency ratio	EER _{DC,B}		4,52
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	274,82
Rated power input	D _C	[kW]	53,00
Declared energy efficiency ratio	EER _{DC,C}		5,18
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	253,68
Rated power input	D _D	[kW]	22,62
Declared energy efficiency ratio	EER _{DC,D}		11,21
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /CA /0251			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,20
Annual electricity consumption	Q	[kWh]	378179
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	316,26
Rated power input	D _A	[kW]	94,40
Rated energy efficiency ratio	EER _{DC,A}		3,35
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	295,21
Rated power input	D _B	[kW]	66,30
Declared energy efficiency ratio	EER _{DC,B}		4,45
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	274,13
Rated power input	D _C	[kW]	53,80
Declared energy efficiency ratio	EER _{DC,C}		5,09
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	253,04
Rated power input	D _D	[kW]	28,95
Declared energy efficiency ratio	EER _{DC,D}		8,74
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /CA /0351			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		7,11
Annual electricity consumption	Q	[kWh]	448878
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	431,00
Rated power input	D _A	[kW]	141,30
Rated energy efficiency ratio	EER _{DC,A}		3,05
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	402,27
Rated power input	D _B	[kW]	88,20
Declared energy efficiency ratio	EER _{DC,B}		4,56
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	373,53
Rated power input	D _C	[kW]	69,20
Declared energy efficiency ratio	EER _{DC,C}		5,40
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	344,80
Rated power input	D _D	[kW]	29,14
Declared energy efficiency ratio	EER _{DC,D}		11,83
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /CA /0351			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,53
Annual electricity consumption	Q	[kWh]	487438
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	429,90
Rated power input	D _A	[kW]	142,40
Rated energy efficiency ratio	EER _{DC,A}		3,02
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	401,24
Rated power input	D _B	[kW]	89,30
Declared energy efficiency ratio	EER _{DC,B}		4,49
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	372,58
Rated power input	D _C	[kW]	70,30
Declared energy efficiency ratio	EER _{DC,C}		5,30
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	343,92
Rated power input	D _D	[kW]	35,65
Declared energy efficiency ratio	EER _{DC,D}		9,65
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /CA /0452			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,78
Annual electricity consumption	Q	[kWh]	578369
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	529,28
Rated power input	D _A	[kW]	174,70
Rated energy efficiency ratio	EER _{DC,A}		3,03
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	494,01
Rated power input	D _B	[kW]	112,10
Declared energy efficiency ratio	EER _{DC,B}		4,41
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	458,73
Rated power input	D _C	[kW]	87,10
Declared energy efficiency ratio	EER _{DC,C}		5,27
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	423,44
Rated power input	D _D	[kW]	38,98
Declared energy efficiency ratio	EER _{DC,D}		10,86
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /CA /0452			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,29
Annual electricity consumption	Q	[kWh]	622051
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	528,07
Rated power input	D _A	[kW]	175,40
Rated energy efficiency ratio	EER _{DC,A}		3,01
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	492,89
Rated power input	D _B	[kW]	113,30
Declared energy efficiency ratio	EER _{DC,B}		4,35
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	457,69
Rated power input	D _C	[kW]	88,40
Declared energy efficiency ratio	EER _{DC,C}		5,18
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	422,48
Rated power input	D _D	[kW]	46,47
Declared energy efficiency ratio	EER _{DC,D}		9,09
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /CA /0552			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,83
Annual electricity consumption	Q	[kWh]	696920
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	642,47
Rated power input	D _A	[kW]	186,80
Rated energy efficiency ratio	EER _{DC,A}		3,44
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	599,67
Rated power input	D _B	[kW]	132,00
Declared energy efficiency ratio	EER _{DC,B}		4,54
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	556,83
Rated power input	D _C	[kW]	107,40
Declared energy efficiency ratio	EER _{DC,C}		5,18
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	514,00
Rated power input	D _D	[kW]	46,71
Declared energy efficiency ratio	EER _{DC,D}		11,01
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /CA /0552			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,13
Annual electricity consumption	Q	[kWh]	773961
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	640,46
Rated power input	D _A	[kW]	188,90
Rated energy efficiency ratio	EER _{DC,A}		3,39
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	597,80
Rated power input	D _B	[kW]	134,00
Declared energy efficiency ratio	EER _{DC,B}		4,46
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	555,10
Rated power input	D _C	[kW]	109,50
Declared energy efficiency ratio	EER _{DC,C}		5,07
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	512,40
Rated power input	D _D	[kW]	60,06
Declared energy efficiency ratio	EER _{DC,D}		8,53
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /CA /0712			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,89
Annual electricity consumption	Q	[kWh]	922096
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	857,30
Rated power input	D _A	[kW]	282,90
Rated energy efficiency ratio	EER _{DC,A}		3,03
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	800,15
Rated power input	D _B	[kW]	176,50
Declared energy efficiency ratio	EER _{DC,B}		4,53
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	742,99
Rated power input	D _C	[kW]	138,30
Declared energy efficiency ratio	EER _{DC,C}		5,37
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	685,84
Rated power input	D _D	[kW]	62,84
Declared energy efficiency ratio	EER _{DC,D}		10,91
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /CA /0712			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,21
Annual electricity consumption	Q	[kWh]	1020366
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	855,38
Rated power input	D _A	[kW]	285,10
Rated energy efficiency ratio	EER _{DC,A}		3,00
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	798,37
Rated power input	D _B	[kW]	178,50
Declared energy efficiency ratio	EER _{DC,B}		4,47
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	741,35
Rated power input	D _C	[kW]	140,20
Declared energy efficiency ratio	EER _{DC,C}		5,29
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	684,32
Rated power input	D _D	[kW]	80,67
Declared energy efficiency ratio	EER _{DC,D}		8,48
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /CA /0803			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,84
Annual electricity consumption	Q	[kWh]	1042690
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	962,16
Rated power input	D _A	[kW]	278,90
Rated energy efficiency ratio	EER _{DC,A}		3,45
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	898,05
Rated power input	D _B	[kW]	196,40
Declared energy efficiency ratio	EER _{DC,B}		4,57
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	833,91
Rated power input	D _C	[kW]	159,50
Declared energy efficiency ratio	EER _{DC,C}		5,23
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	769,76
Rated power input	D _D	[kW]	70,71
Declared energy efficiency ratio	EER _{DC,D}		10,89
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /CA /0803			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,25
Annual electricity consumption	Q	[kWh]	1139138
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	960,40
Rated power input	D _A	[kW]	280,80
Rated energy efficiency ratio	EER _{DC,A}		3,42
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	896,37
Rated power input	D _B	[kW]	198,20
Declared energy efficiency ratio	EER _{DC,B}		4,52
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	832,35
Rated power input	D _C	[kW]	161,30
Declared energy efficiency ratio	EER _{DC,C}		5,16
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	768,32
Rated power input	D _D	[kW]	88,05
Declared energy efficiency ratio	EER _{DC,D}		8,73
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /CA /0903			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,82
Annual electricity consumption	Q	[kWh]	1164879
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1073,00
Rated power input	D _A	[kW]	325,20
Rated energy efficiency ratio	EER _{DC,A}		3,30
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1001,47
Rated power input	D _B	[kW]	218,90
Declared energy efficiency ratio	EER _{DC,B}		4,57
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	929,93
Rated power input	D _C	[kW]	176,00
Declared energy efficiency ratio	EER _{DC,C}		5,28
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	858,40
Rated power input	D _D	[kW]	79,99
Declared energy efficiency ratio	EER _{DC,D}		10,73
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /CA /0903			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,18
Annual electricity consumption	Q	[kWh]	1284217
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1070,82
Rated power input	D _A	[kW]	327,50
Rated energy efficiency ratio	EER _{DC,A}		3,27
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	999,60
Rated power input	D _B	[kW]	221,40
Declared energy efficiency ratio	EER _{DC,B}		4,51
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	928,20
Rated power input	D _C	[kW]	178,50
Declared energy efficiency ratio	EER _{DC,C}		5,20
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	856,80
Rated power input	D _D	[kW]	101,50
Declared energy efficiency ratio	EER _{DC,D}		8,44
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /CA /1003			
-			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,60
Annual electricity consumption	Q	[kWh]	1383827
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1233,00
Rated power input	D _A	[kW]	429,60
Rated energy efficiency ratio	EER _{DC,A}		2,87
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1150,80
Rated power input	D _B	[kW]	259,90
Declared energy efficiency ratio	EER _{DC,B}		4,43
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1068,60
Rated power input	D _C	[kW]	200,40
Declared energy efficiency ratio	EER _{DC,C}		5,33
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	986,40
Rated power input	D _D	[kW]	99,13
Declared energy efficiency ratio	EER _{DC,D}		9,95
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /CA /1003			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		5,99
Annual electricity consumption	Q	[kWh]	1521951
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1230,00
Rated power input	D _A	[kW]	433,10
Rated energy efficiency ratio	EER _{DC,A}		2,84
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1148,00
Rated power input	D _B	[kW]	263,30
Declared energy efficiency ratio	EER _{DC,B}		4,36
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1066,00
Rated power input	D _C	[kW]	203,90
Declared energy efficiency ratio	EER _{DC,C}		5,23
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	984,00
Rated power input	D _D	[kW]	124,07
Declared energy efficiency ratio	EER _{DC,D}		7,93
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /K /0211			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,59
Annual electricity consumption	Q	[kWh]	290297
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	258,20
Rated power input	D _A	[kW]	88,10
Rated energy efficiency ratio	EER _{DC,A}		2,93
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	240,99
Rated power input	D _B	[kW]	56,00
Declared energy efficiency ratio	EER _{DC,B}		4,30
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	223,77
Rated power input	D _C	[kW]	43,30
Declared energy efficiency ratio	EER _{DC,C}		5,17
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	206,56
Rated power input	D _D	[kW]	19,84
Declared energy efficiency ratio	EER _{DC,D}		10,41
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /K /0211			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,15
Annual electricity consumption	Q	[kWh]	310267
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	257,70
Rated power input	D _A	[kW]	88,60
Rated energy efficiency ratio	EER _{DC,A}		2,91
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	240,52
Rated power input	D _B	[kW]	56,50
Declared energy efficiency ratio	EER _{DC,B}		4,26
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	223,34
Rated power input	D _C	[kW]	43,80
Declared energy efficiency ratio	EER _{DC,C}		5,10
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	206,16
Rated power input	D _D	[kW]	23,33
Declared energy efficiency ratio	EER _{DC,D}		8,84
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /K /0351			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,53
Annual electricity consumption	Q	[kWh]	466782
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	411,26
Rated power input	D _A	[kW]	146,40
Rated energy efficiency ratio	EER _{DC,A}		2,81
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	383,88
Rated power input	D _B	[kW]	88,60
Declared energy efficiency ratio	EER _{DC,B}		4,33
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	356,46
Rated power input	D _C	[kW]	68,50
Declared energy efficiency ratio	EER _{DC,C}		5,20
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	329,04
Rated power input	D _D	[kW]	32,72
Declared energy efficiency ratio	EER _{DC,D}		10,05
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /K /0351			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,05
Annual electricity consumption	Q	[kWh]	502345
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	410,19
Rated power input	D _A	[kW]	147,60
Rated energy efficiency ratio	EER _{DC,A}		2,78
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	382,85
Rated power input	D _B	[kW]	89,70
Declared energy efficiency ratio	EER _{DC,B}		4,27
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	355,51
Rated power input	D _C	[kW]	69,60
Declared energy efficiency ratio	EER _{DC,C}		5,11
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	328,16
Rated power input	D _D	[kW]	38,88
Declared energy efficiency ratio	EER _{DC,D}		8,44
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /K /0452			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,38
Annual electricity consumption	Q	[kWh]	584853
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	503,60
Rated power input	D _A	[kW]	177,30
Rated energy efficiency ratio	EER _{DC,A}		2,84
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	470,03
Rated power input	D _B	[kW]	111,10
Declared energy efficiency ratio	EER _{DC,B}		4,23
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	436,45
Rated power input	D _C	[kW]	85,40
Declared energy efficiency ratio	EER _{DC,C}		5,11
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	402,88
Rated power input	D _D	[kW]	41,29
Declared energy efficiency ratio	EER _{DC,D}		9,76
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /K /0452			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		5,86
Annual electricity consumption	Q	[kWh]	635571
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	502,50
Rated power input	D _A	[kW]	178,80
Rated energy efficiency ratio	EER _{DC,A}		2,81
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	469,00
Rated power input	D _B	[kW]	112,10
Declared energy efficiency ratio	EER _{DC,B}		4,18
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	435,50
Rated power input	D _C	[kW]	86,50
Declared energy efficiency ratio	EER _{DC,C}		5,03
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	402,00
Rated power input	D _D	[kW]	50,53
Declared energy efficiency ratio	EER _{DC,D}		7,96
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /K /0552			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,62
Annual electricity consumption	Q	[kWh]	673364
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	601,60
Rated power input	D _A	[kW]	185,10
Rated energy efficiency ratio	EER _{DC,A}		3,25
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	561,49
Rated power input	D _B	[kW]	125,20
Declared energy efficiency ratio	EER _{DC,B}		4,48
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	521,39
Rated power input	D _C	[kW]	99,90
Declared energy efficiency ratio	EER _{DC,C}		5,22
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	481,28
Rated power input	D _D	[kW]	47,53
Declared energy efficiency ratio	EER _{DC,D}		10,13
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

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TECS-FC-G05-Y /NG /K /0552			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,12
Annual electricity consumption	Q	[kWh]	726417
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	599,90
Rated power input	D _A	[kW]	186,90
Rated energy efficiency ratio	EER _{DC,A}		3,21
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	559,91
Rated power input	D _B	[kW]	126,90
Declared energy efficiency ratio	EER _{DC,B}		4,41
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	519,91
Rated power input	D _C	[kW]	101,70
Declared energy efficiency ratio	EER _{DC,C}		5,11
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	479,92
Rated power input	D _D	[kW]	56,58
Declared energy efficiency ratio	EER _{DC,D}		8,48
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /K /0652			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,39
Annual electricity consumption	Q	[kWh]	917103
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	790,49
Rated power input	D _A	[kW]	293,90
Rated energy efficiency ratio	EER _{DC,A}		2,69
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	737,80
Rated power input	D _B	[kW]	173,10
Declared energy efficiency ratio	EER _{DC,B}		4,26
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	685,10
Rated power input	D _C	[kW]	132,10
Declared energy efficiency ratio	EER _{DC,C}		5,19
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	632,40
Rated power input	D _D	[kW]	65,75
Declared energy efficiency ratio	EER _{DC,D}		9,62
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /K /0652			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		5,80
Annual electricity consumption	Q	[kWh]	1007788
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	788,56
Rated power input	D _A	[kW]	296,50
Rated energy efficiency ratio	EER _{DC,A}		2,66
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	736,03
Rated power input	D _B	[kW]	175,10
Declared energy efficiency ratio	EER _{DC,B}		4,20
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	683,45
Rated power input	D _C	[kW]	134,00
Declared energy efficiency ratio	EER _{DC,C}		5,10
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	630,88
Rated power input	D _D	[kW]	82,50
Declared energy efficiency ratio	EER _{DC,D}		7,65
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /K /0712			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,54
Annual electricity consumption	Q	[kWh]	953826
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	841,60
Rated power input	D _A	[kW]	288,20
Rated energy efficiency ratio	EER _{DC,A}		2,92
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	785,49
Rated power input	D _B	[kW]	178,40
Declared energy efficiency ratio	EER _{DC,B}		4,40
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	729,39
Rated power input	D _C	[kW]	139,10
Declared energy efficiency ratio	EER _{DC,C}		5,24
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	673,28
Rated power input	D _D	[kW]	68,03
Declared energy efficiency ratio	EER _{DC,D}		9,90
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

Contact details: Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A., via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

TECS-FC-G05-Y /NG /K /0712			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		5,97
Annual electricity consumption	Q	[kWh]	1042092
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	839,70
Rated power input	D _A	[kW]	290,60
Rated energy efficiency ratio	EER _{DC,A}		2,89
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	783,72
Rated power input	D _B	[kW]	180,30
Declared energy efficiency ratio	EER _{DC,B}		4,35
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	727,74
Rated power input	D _C	[kW]	141,10
Declared energy efficiency ratio	EER _{DC,C}		5,16
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	671,76
Rated power input	D _D	[kW]	84,11
Declared energy efficiency ratio	EER _{DC,D}		7,99
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

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TECS-FC-G05-Y /K /0903			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,41
Annual electricity consumption	Q	[kWh]	1195485
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1035,00
Rated power input	D _A	[kW]	331,70
Rated energy efficiency ratio	EER _{DC,A}		3,12
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	966,00
Rated power input	D _B	[kW]	219,10
Declared energy efficiency ratio	EER _{DC,B}		4,41
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	897,00
Rated power input	D _C	[kW]	174,50
Declared energy efficiency ratio	EER _{DC,C}		5,14
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	828,00
Rated power input	D _D	[kW]	86,53
Declared energy efficiency ratio	EER _{DC,D}		9,57
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

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TECS-FC-G05-Y /NG /K /0903			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		5,91
Annual electricity consumption	Q	[kWh]	1294358
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1033,00
Rated power input	D _A	[kW]	334,30
Rated energy efficiency ratio	EER _{DC,A}		3,09
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	964,13
Rated power input	D _B	[kW]	221,30
Declared energy efficiency ratio	EER _{DC,B}		4,36
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	895,27
Rated power input	D _C	[kW]	176,70
Declared energy efficiency ratio	EER _{DC,C}		5,07
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	826,40
Rated power input	D _D	[kW]	104,58
Declared energy efficiency ratio	EER _{DC,D}		7,90
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

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TECS-FC-G05-Y /K /0953			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,23
Annual electricity consumption	Q	[kWh]	1255172
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1055,98
Rated power input	D _A	[kW]	382,60
Rated energy efficiency ratio	EER _{DC,A}		2,76
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	985,60
Rated power input	D _B	[kW]	230,40
Declared energy efficiency ratio	EER _{DC,B}		4,28
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	915,20
Rated power input	D _C	[kW]	177,20
Declared energy efficiency ratio	EER _{DC,C}		5,16
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	844,80
Rated power input	D _D	[kW]	93,66
Declared energy efficiency ratio	EER _{DC,D}		9,02
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

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TECS-FC-G05-Y /NG /K /0953			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		5,71
Annual electricity consumption	Q	[kWh]	1367563
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1053,76
Rated power input	D _A	[kW]	384,70
Rated energy efficiency ratio	EER _{DC,A}		2,74
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	983,73
Rated power input	D _B	[kW]	232,70
Declared energy efficiency ratio	EER _{DC,B}		4,23
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	913,47
Rated power input	D _C	[kW]	179,50
Declared energy efficiency ratio	EER _{DC,C}		5,09
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	843,20
Rated power input	D _D	[kW]	114,80
Declared energy efficiency ratio	EER _{DC,D}		7,34
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

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TECS-FC-G05-Y /K /1003			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,27
Annual electricity consumption	Q	[kWh]	1418231
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1200,78
Rated power input	D _A	[kW]	439,90
Rated energy efficiency ratio	EER _{DC,A}		2,73
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1120,93
Rated power input	D _B	[kW]	262,50
Declared energy efficiency ratio	EER _{DC,B}		4,27
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1040,87
Rated power input	D _C	[kW]	201,10
Declared energy efficiency ratio	EER _{DC,C}		5,18
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	960,80
Rated power input	D _D	[kW]	104,77
Declared energy efficiency ratio	EER _{DC,D}		9,17
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

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TECS-FC-G05-Y /NG /K /1003			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		5,71
Annual electricity consumption	Q	[kWh]	155527
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1197,68
Rated power input	D _A	[kW]	443,70
Rated energy efficiency ratio	EER _{DC,A}		2,70
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1118,13
Rated power input	D _B	[kW]	265,60
Declared energy efficiency ratio	EER _{DC,B}		4,21
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1038,27
Rated power input	D _C	[kW]	204,30
Declared energy efficiency ratio	EER _{DC,C}		5,08
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	958,40
Rated power input	D _D	[kW]	130,16
Declared energy efficiency ratio	EER _{DC,D}		7,36
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

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TECS-FC-G05-Y /K /1164			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,23
Annual electricity consumption	Q	[kWh]	1597721
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1343,00
Rated power input	D _A	[kW]	469,60
Rated energy efficiency ratio	EER _{DC,A}		2,86
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1253,47
Rated power input	D _B	[kW]	292,30
Declared energy efficiency ratio	EER _{DC,B}		4,29
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1163,93
Rated power input	D _C	[kW]	227,40
Declared energy efficiency ratio	EER _{DC,C}		5,12
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1074,40
Rated power input	D _D	[kW]	118,56
Declared energy efficiency ratio	EER _{DC,D}		9,06
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

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TECS-FC-G05-Y /NG /K /1164			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		5,58
Annual electricity consumption	Q	[kWh]	1779306
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1339,00
Rated power input	D _A	[kW]	473,10
Rated energy efficiency ratio	EER _{DC,A}		2,83
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1249,73
Rated power input	D _B	[kW]	296,70
Declared energy efficiency ratio	EER _{DC,B}		4,21
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1160,47
Rated power input	D _C	[kW]	231,50
Declared energy efficiency ratio	EER _{DC,C}		5,01
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1071,20
Rated power input	D _D	[kW]	152,41
Declared energy efficiency ratio	EER _{DC,D}		7,03
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

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TECS-FC-G05-Y /K /1204			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		6,27
Annual electricity consumption	Q	[kWh]	1673965
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1416,00
Rated power input	D _A	[kW]	476,80
Rated energy efficiency ratio	EER _{DC,A}		2,97
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1321,60
Rated power input	D _B	[kW]	304,10
Declared energy efficiency ratio	EER _{DC,B}		4,35
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1227,20
Rated power input	D _C	[kW]	239,00
Declared energy efficiency ratio	EER _{DC,C}		5,13
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1132,80
Rated power input	D _D	[kW]	124,54
Declared energy efficiency ratio	EER _{DC,D}		9,10
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO2eq]	631

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TECS-FC-G05-Y /NG /K /1204			
Type of condensing	Air cooled / Water cooled		Air cooled
Refrigerant fluid(s)	Information to identify the refrigerant fluid(s) intended to be used with the condensing unit		-
Type	compressor driven vapour compression or sorption process		Compressor driven vapour compression
Operating temperature	t	[°C]	7
Seasonal energy performance ratio	SEPR		5,61
Annual electricity consumption	Q	[kWh]	1865027
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1411,71
Rated power input	D _A	[kW]	481,90
Rated energy efficiency ratio	EER _{DC,A}		2,93
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1317,87
Rated power input	D _B	[kW]	308,90
Declared energy efficiency ratio	EER _{DC,B}		4,27
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1223,73
Rated power input	D _C	[kW]	244,10
Declared energy efficiency ratio	EER _{DC,C}		5,01
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1129,60
Rated power input	D _D	[kW]	159,68
Declared energy efficiency ratio	EER _{DC,D}		7,08
Other items			
Capacity control	fixed/staged/variable		Variable
Degradation coefficient for chillers	C _{DC}		0,9
GWP of the refrigerant		[Kg CO ₂ eq]	631

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