

RC Technical Documentation
TR-W-G05-Z_1A00_6D00_201903_EN

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

Ecodesign requirements for process chillers

WATER COOLED CHILLERS

TR-W-G05-Z 1A00 - 6D00

Cooling Capacity Range 244 - 1918 [kW] - (EN14511 VALUE)
Nominal Cooling Capacity at TdesignC Range 244 - 1918 [kW]



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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. RC CONTENTS UNIT

2.1 Table index

WATER COOLED CHILLERS

TR-W-G05-Z 1A00 - 6D00

Cooling Capacity Range 244 - 1918 [kW]

Nominal Cooling Capacity at TdesignC Range 244 - 1918 [kW]

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TR-W-G05-Z /1A00			
Type of condensing	Air cooled / Water 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		11,62
Annual electricity consumption	Q	[kWh]	152146
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	243,65
Rated power input	D _A	[kW]	40,80
Rated energy efficiency ratio	EER _{DC,A}		5,97
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	205,75
Rated power input	D _B	[kW]	25,80
Declared energy efficiency ratio	EER _{DC,B}		7,97
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	153,75
Rated power input	D _C	[kW]	12,00
Declared energy efficiency ratio	EER _{DC,C}		12,79
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	150,75
Rated power input	D _D	[kW]	11,40
Declared energy efficiency ratio	EER _{DC,D}		13,20
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

TR-W-G05-Z /1B00			
Type of condensing	Air cooled / Water 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		11,56
Annual electricity consumption	Q	[kWh]	229006
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	364,40
Rated power input	D _A	[kW]	60,20
Rated energy efficiency ratio	EER _{DC,A}		6,05
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	312,80
Rated power input	D _B	[kW]	38,80
Declared energy efficiency ratio	EER _{DC,B}		8,07
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	236,90
Rated power input	D _C	[kW]	18,80
Declared energy efficiency ratio	EER _{DC,C}		12,57
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	231,40
Rated power input	D _D	[kW]	17,70
Declared energy efficiency ratio	EER _{DC,D}		13,12
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

TR-W-G05-Z /1B1A			
Type of condensing	Air cooled / Water 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		11,64
Annual electricity consumption	Q	[kWh]	363145
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	581,90
Rated power input	D _A	[kW]	96,00
Rated energy efficiency ratio	EER _{DC,A}		6,06
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	494,83
Rated power input	D _B	[kW]	60,90
Declared energy efficiency ratio	EER _{DC,B}		8,13
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	377,33
Rated power input	D _C	[kW]	29,70
Declared energy efficiency ratio	EER _{DC,C}		12,68
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	369,13
Rated power input	D _D	[kW]	28,00
Declared energy efficiency ratio	EER _{DC,D}		13,20
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

TR-W-G05-Z /1B2A			
Type of condensing	Air cooled / Water 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		11,41
Annual electricity consumption	Q	[kWh]	521188
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	818,87
Rated power input	D _A	[kW]	138,60
Rated energy efficiency ratio	EER _{DC,A}		5,91
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	696,37
Rated power input	D _B	[kW]	87,80
Declared energy efficiency ratio	EER _{DC,B}		7,93
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	530,57
Rated power input	D _C	[kW]	42,80
Declared energy efficiency ratio	EER _{DC,C}		12,44
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	519,27
Rated power input	D _D	[kW]	39,90
Declared energy efficiency ratio	EER _{DC,D}		12,97
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

TR-W-G05-Z /1B3A			
Type of condensing	Air cooled / Water 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		11,57
Annual electricity consumption	Q	[kWh]	716779
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1143,00
Rated power input	D _A	[kW]	191,50
Rated energy efficiency ratio	EER _{DC,A}		5,97
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	975,83
Rated power input	D _B	[kW]	123,50
Declared energy efficiency ratio	EER _{DC,B}		7,90
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	726,53
Rated power input	D _C	[kW]	57,20
Declared energy efficiency ratio	EER _{DC,C}		12,69
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	711,13
Rated power input	D _D	[kW]	53,90
Declared energy efficiency ratio	EER _{DC,D}		13,20
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

TR-W-G05-Z /1C00			
Type of condensing	Air cooled / Water 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		11,49
Annual electricity consumption	Q	[kWh]	291493
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	458,90
Rated power input	D _A	[kW]	75,50
Rated energy efficiency ratio	EER _{DC,A}		6,08
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	411,11
Rated power input	D _B	[kW]	51,30
Declared energy efficiency ratio	EER _{DC,B}		8,02
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	318,61
Rated power input	D _C	[kW]	25,90
Declared energy efficiency ratio	EER _{DC,C}		12,31
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	308,31
Rated power input	D _D	[kW]	23,50
Declared energy efficiency ratio	EER _{DC,D}		13,08
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

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

TR-W-G05-Z /1C1A			
Type of condensing	Air cooled / Water 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		11,75
Annual electricity consumption	Q	[kWh]	397072
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	642,50
Rated power input	D _A	[kW]	105,00
Rated energy efficiency ratio	EER _{DC,A}		6,12
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	541,72
Rated power input	D _B	[kW]	65,40
Declared energy efficiency ratio	EER _{DC,B}		8,28
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	414,32
Rated power input	D _C	[kW]	32,40
Declared energy efficiency ratio	EER _{DC,C}		12,80
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	405,92
Rated power input	D _D	[kW]	30,50
Declared energy efficiency ratio	EER _{DC,D}		13,28
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

TR-W-G05-Z /1C1B			
Type of condensing	Air cooled / Water 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		11,58
Annual electricity consumption	Q	[kWh]	462414
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	737,05
Rated power input	D _A	[kW]	120,40
Rated energy efficiency ratio	EER _{DC,A}		6,12
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	623,35
Rated power input	D _B	[kW]	75,00
Declared energy efficiency ratio	EER _{DC,B}		8,31
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	480,35
Rated power input	D _C	[kW]	38,10
Declared energy efficiency ratio	EER _{DC,C}		12,58
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	470,15
Rated power input	D _D	[kW]	36,20
Declared energy efficiency ratio	EER _{DC,D}		13,00
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

TR-W-G05-Z /1C3B			
-			
Type of condensing	Air cooled / Water 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		10,96
Annual electricity consumption	Q	[kWh]	1131879
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1708,00
Rated power input	D _A	[kW]	289,00
Rated energy efficiency ratio	EER _{DC,A}		5,91
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1496,13
Rated power input	D _B	[kW]	191,10
Declared energy efficiency ratio	EER _{DC,B}		7,83
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1106,13
Rated power input	D _C	[kW]	92,90
Declared energy efficiency ratio	EER _{DC,C}		11,89
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1077,13
Rated power input	D _D	[kW]	87,60
Declared energy efficiency ratio	EER _{DC,D}		12,34
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

TR-W-G05-Z /1D00			
Type of condensing	Air cooled / Water 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		11,55
Annual electricity consumption	Q	[kWh]	410658
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	658,50
Rated power input	D _A	[kW]	111,80
Rated energy efficiency ratio	EER _{DC,A}		5,89
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	550,70
Rated power input	D _B	[kW]	69,50
Declared energy efficiency ratio	EER _{DC,B}		7,92
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	370,30
Rated power input	D _C	[kW]	28,50
Declared energy efficiency ratio	EER _{DC,C}		12,98
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	368,20
Rated power input	D _D	[kW]	28,10
Declared energy efficiency ratio	EER _{DC,D}		13,09
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

TR-W-G05-Z /1D1A			
Type of condensing	Air cooled / Water 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		11,60
Annual electricity consumption	Q	[kWh]	465851
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	748,17
Rated power input	D _A	[kW]	126,40
Rated energy efficiency ratio	EER _{DC,A}		5,92
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	593,17
Rated power input	D _B	[kW]	72,40
Declared energy efficiency ratio	EER _{DC,B}		8,19
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	441,17
Rated power input	D _C	[kW]	34,20
Declared energy efficiency ratio	EER _{DC,C}		12,87
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	437,17
Rated power input	D _D	[kW]	33,40
Declared energy efficiency ratio	EER _{DC,D}		13,06
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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TR-W-G05-Z /1D1B			
-			
Type of condensing	Air cooled / Water 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		11,58
Annual electricity consumption	Q	[kWh]	535577
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	857,16
Rated power input	D _A	[kW]	142,60
Rated energy efficiency ratio	EER _{DC,A}		6,01
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	692,56
Rated power input	D _B	[kW]	83,40
Declared energy efficiency ratio	EER _{DC,B}		8,30
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	521,76
Rated power input	D _C	[kW]	41,10
Declared energy efficiency ratio	EER _{DC,C}		12,74
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	515,06
Rated power input	D _D	[kW]	39,60
Declared energy efficiency ratio	EER _{DC,D}		12,99
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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TR-W-G05-Z /1D1C			
Type of condensing	Air cooled / Water 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		11,51
Annual electricity consumption	Q	[kWh]	670274
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1066,85
Rated power input	D _A	[kW]	178,10
Rated energy efficiency ratio	EER _{DC,A}		5,99
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	886,35
Rated power input	D _B	[kW]	109,00
Declared energy efficiency ratio	EER _{DC,B}		8,13
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	643,45
Rated power input	D _C	[kW]	50,70
Declared energy efficiency ratio	EER _{DC,C}		12,70
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	634,05
Rated power input	D _D	[kW]	48,80
Declared energy efficiency ratio	EER _{DC,D}		12,97
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

TR-W-G05-Z /1D2C			
Type of condensing	Air cooled / Water 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		11,88
Annual electricity consumption	Q	[kWh]	773853
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1271,00
Rated power input	D _A	[kW]	208,00
Rated energy efficiency ratio	EER _{DC,A}		6,11
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1034,17
Rated power input	D _B	[kW]	123,10
Declared energy efficiency ratio	EER _{DC,B}		8,40
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	772,67
Rated power input	D _C	[kW]	59,00
Declared energy efficiency ratio	EER _{DC,C}		13,10
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	762,27
Rated power input	D _D	[kW]	56,90
Declared energy efficiency ratio	EER _{DC,D}		13,38
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

TR-W-G05-Z /2A00			
Type of condensing	Air cooled / Water 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		11,55
Annual electricity consumption	Q	[kWh]	328011
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	522,30
Rated power input	D _A	[kW]	88,50
Rated energy efficiency ratio	EER _{DC,A}		5,90
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	446,21
Rated power input	D _B	[kW]	57,40
Declared energy efficiency ratio	EER _{DC,B}		7,78
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	330,81
Rated power input	D _C	[kW]	26,00
Declared energy efficiency ratio	EER _{DC,C}		12,69
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	323,91
Rated power input	D _D	[kW]	24,50
Declared energy efficiency ratio	EER _{DC,D}		13,24
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

TR-W-G05-Z /2B00			
Type of condensing	Air cooled / Water 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		11,48
Annual electricity consumption	Q	[kWh]	431097
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	680,30
Rated power input	D _A	[kW]	112,60
Rated energy efficiency ratio	EER _{DC,A}		6,04
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	582,64
Rated power input	D _B	[kW]	71,70
Declared energy efficiency ratio	EER _{DC,B}		8,12
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	450,94
Rated power input	D _C	[kW]	36,10
Declared energy efficiency ratio	EER _{DC,C}		12,45
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	440,44
Rated power input	D _D	[kW]	34,10
Declared energy efficiency ratio	EER _{DC,D}		12,95
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

TR-W-G05-Z /2B1A			
Type of condensing	Air cooled / Water 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		11,26
Annual electricity consumption	Q	[kWh]	631915
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	978,20
Rated power input	D _A	[kW]	167,20
Rated energy efficiency ratio	EER _{DC,A}		5,85
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	843,01
Rated power input	D _B	[kW]	108,40
Declared energy efficiency ratio	EER _{DC,B}		7,78
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	643,01
Rated power input	D _C	[kW]	52,70
Declared energy efficiency ratio	EER _{DC,C}		12,24
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	627,71
Rated power input	D _D	[kW]	49,00
Declared energy efficiency ratio	EER _{DC,D}		12,80
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

TR-W-G05-Z /2B2A			
Type of condensing	Air cooled / Water 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		11,45
Annual electricity consumption	Q	[kWh]	786320
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1240,00
Rated power input	D _A	[kW]	208,10
Rated energy efficiency ratio	EER _{DC,A}		5,96
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1060,44
Rated power input	D _B	[kW]	133,80
Declared energy efficiency ratio	EER _{DC,B}		7,92
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	793,14
Rated power input	D _C	[kW]	63,40
Declared energy efficiency ratio	EER _{DC,C}		12,52
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	776,04
Rated power input	D _D	[kW]	59,70
Declared energy efficiency ratio	EER _{DC,D}		13,01
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

TR-W-G05-Z /2B3A			
Type of condensing	Air cooled / Water 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		11,50
Annual electricity consumption	Q	[kWh]	1053801
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1674,00
Rated power input	D _A	[kW]	283,70
Rated energy efficiency ratio	EER _{DC,A}		5,90
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1434,38
Rated power input	D _B	[kW]	187,00
Declared energy efficiency ratio	EER _{DC,B}		7,67
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1027,38
Rated power input	D _C	[kW]	80,90
Declared energy efficiency ratio	EER _{DC,C}		12,74
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1008,38
Rated power input	D _D	[kW]	76,40
Declared energy efficiency ratio	EER _{DC,D}		13,19
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

TR-W-G05-Z /2C00			
Type of condensing	Air cooled / Water 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		11,37
Annual electricity consumption	Q	[kWh]	588569
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	916,70
Rated power input	D _A	[kW]	151,30
Rated energy efficiency ratio	EER _{DC,A}		6,06
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	822,45
Rated power input	D _B	[kW]	103,10
Declared energy efficiency ratio	EER _{DC,B}		7,98
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	639,35
Rated power input	D _C	[kW]	52,40
Declared energy efficiency ratio	EER _{DC,C}		12,17
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	618,55
Rated power input	D _D	[kW]	47,90
Declared energy efficiency ratio	EER _{DC,D}		12,91
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

TR-W-G05-Z /2C1A			
Type of condensing	Air cooled / Water 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		11,56
Annual electricity consumption	Q	[kWh]	706997
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1123,00
Rated power input	D _A	[kW]	184,10
Rated energy efficiency ratio	EER _{DC,A}		6,10
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	974,10
Rated power input	D _B	[kW]	119,70
Declared energy efficiency ratio	EER _{DC,B}		8,14
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	750,00
Rated power input	D _C	[kW]	60,00
Declared energy efficiency ratio	EER _{DC,C}		12,51
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	730,60
Rated power input	D _D	[kW]	55,80
Declared energy efficiency ratio	EER _{DC,D}		13,08
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

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

TR-W-G05-Z /2C1B			
Type of condensing	Air cooled / Water 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		11,55
Annual electricity consumption	Q	[kWh]	769405
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1220,93
Rated power input	D _A	[kW]	199,50
Rated energy efficiency ratio	EER _{DC,A}		6,12
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1056,93
Rated power input	D _B	[kW]	128,90
Declared energy efficiency ratio	EER _{DC,B}		8,20
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	810,93
Rated power input	D _C	[kW]	64,90
Declared energy efficiency ratio	EER _{DC,C}		12,49
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	790,43
Rated power input	D _D	[kW]	60,80
Declared energy efficiency ratio	EER _{DC,D}		13,03
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

TR-W-G05-Z /2D00			
Type of condensing	Air cooled / Water 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		11,63
Annual electricity consumption	Q	[kWh]	609984
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	984,10
Rated power input	D _A	[kW]	168,20
Rated energy efficiency ratio	EER _{DC,A}		5,85
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	777,94
Rated power input	D _B	[kW]	95,60
Declared energy efficiency ratio	EER _{DC,B}		8,14
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	563,14
Rated power input	D _C	[kW]	43,30
Declared energy efficiency ratio	EER _{DC,C}		12,99
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	559,64
Rated power input	D _D	[kW]	42,70
Declared energy efficiency ratio	EER _{DC,D}		13,12
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

TR-W-G05-Z /2D1B			
-			
Type of condensing	Air cooled / Water 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		11,54
Annual electricity consumption	Q	[kWh]	906327
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1447,86
Rated power input	D _A	[kW]	240,90
Rated energy efficiency ratio	EER _{DC,A}		6,01
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1159,86
Rated power input	D _B	[kW]	139,80
Declared energy efficiency ratio	EER _{DC,B}		8,30
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	861,96
Rated power input	D _C	[kW]	67,90
Declared energy efficiency ratio	EER _{DC,C}		12,74
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	852,66
Rated power input	D _D	[kW]	66,10
Declared energy efficiency ratio	EER _{DC,D}		12,94
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

TR-W-G05-Z /2D1C			
Type of condensing	Air cooled / Water 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		11,25
Annual electricity consumption	Q	[kWh]	1187527
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1847,77
Rated power input	D _A	[kW]	312,20
Rated energy efficiency ratio	EER _{DC,A}		5,92
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1603,77
Rated power input	D _B	[kW]	204,30
Declared energy efficiency ratio	EER _{DC,B}		7,85
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1106,77
Rated power input	D _C	[kW]	89,30
Declared energy efficiency ratio	EER _{DC,C}		12,43
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1087,77
Rated power input	D _D	[kW]	85,70
Declared energy efficiency ratio	EER _{DC,D}		12,73
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

TR-W-G05-Z /3A00			
Type of condensing	Air cooled / Water 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		11,33
Annual electricity consumption	Q	[kWh]	462882
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	723,30
Rated power input	D _A	[kW]	124,10
Rated energy efficiency ratio	EER _{DC,A}		5,83
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	611,81
Rated power input	D _B	[kW]	78,60
Declared energy efficiency ratio	EER _{DC,B}		7,78
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	458,41
Rated power input	D _C	[kW]	37,00
Declared energy efficiency ratio	EER _{DC,C}		12,44
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	449,41
Rated power input	D _D	[kW]	34,80
Declared energy efficiency ratio	EER _{DC,D}		12,90
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

TR-W-G05-Z /3B00			
Type of condensing	Air cooled / Water 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		11,24
Annual electricity consumption	Q	[kWh]	697821
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1078,00
Rated power input	D _A	[kW]	184,30
Rated energy efficiency ratio	EER _{DC,A}		5,85
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	931,64
Rated power input	D _B	[kW]	119,10
Declared energy efficiency ratio	EER _{DC,B}		7,82
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	715,54
Rated power input	D _C	[kW]	58,60
Declared energy efficiency ratio	EER _{DC,C}		12,19
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	698,04
Rated power input	D _D	[kW]	54,50
Declared energy efficiency ratio	EER _{DC,D}		12,76
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

TR-W-G05-Z /3B1A			
Type of condensing	Air cooled / Water 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		11,42
Annual electricity consumption	Q	[kWh]	854233
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1344,00
Rated power input	D _A	[kW]	225,10
Rated energy efficiency ratio	EER _{DC,A}		5,97
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1149,23
Rated power input	D _B	[kW]	144,50
Declared energy efficiency ratio	EER _{DC,B}		7,95
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	864,33
Rated power input	D _C	[kW]	69,10
Declared energy efficiency ratio	EER _{DC,C}		12,47
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	845,23
Rated power input	D _D	[kW]	65,00
Declared energy efficiency ratio	EER _{DC,D}		12,96
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

TR-W-G05-Z /3B2A			
Type of condensing	Air cooled / Water 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		11,42
Annual electricity consumption	Q	[kWh]	1134978
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1790,00
Rated power input	D _A	[kW]	307,00
Rated energy efficiency ratio	EER _{DC,A}		5,83
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1533,06
Rated power input	D _B	[kW]	201,20
Declared energy efficiency ratio	EER _{DC,B}		7,62
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1093,06
Rated power input	D _C	[kW]	86,10
Declared energy efficiency ratio	EER _{DC,C}		12,67
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1073,06
Rated power input	D _D	[kW]	81,90
Declared energy efficiency ratio	EER _{DC,D}		13,09
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

TR-W-G05-Z /3C00			
Type of condensing	Air cooled / Water 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		11,71
Annual electricity consumption	Q	[kWh]	808630
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1300,70
Rated power input	D _A	[kW]	210,90
Rated energy efficiency ratio	EER _{DC,A}		6,17
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1134,70
Rated power input	D _B	[kW]	137,70
Declared energy efficiency ratio	EER _{DC,B}		8,24
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	871,70
Rated power input	D _C	[kW]	68,60
Declared energy efficiency ratio	EER _{DC,C}		12,66
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	848,30
Rated power input	D _D	[kW]	63,80
Declared energy efficiency ratio	EER _{DC,D}		13,26
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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TR-W-G05-Z /3C1A			
-			
Type of condensing	Air cooled / Water 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		11,02
Annual electricity consumption	Q	[kWh]	1152041
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1738,00
Rated power input	D _A	[kW]	292,60
Rated energy efficiency ratio	EER _{DC,A}		5,94
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1572,12
Rated power input	D _B	[kW]	203,10
Declared energy efficiency ratio	EER _{DC,B}		7,74
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1222,12
Rated power input	D _C	[kW]	103,60
Declared energy efficiency ratio	EER _{DC,C}		11,77
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1180,12
Rated power input	D _D	[kW]	94,40
Declared energy efficiency ratio	EER _{DC,D}		12,51
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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TR-W-G05-Z /3C1B			
-			
Type of condensing	Air cooled / Water 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		11,11
Annual electricity consumption	Q	[kWh]	1218280
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1853,79
Rated power input	D _A	[kW]	310,60
Rated energy efficiency ratio	EER _{DC,A}		5,97
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1668,79
Rated power input	D _B	[kW]	213,40
Declared energy efficiency ratio	EER _{DC,B}		7,82
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1284,79
Rated power input	D _C	[kW]	108,00
Declared energy efficiency ratio	EER _{DC,C}		11,89
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1241,79
Rated power input	D _D	[kW]	98,60
Declared energy efficiency ratio	EER _{DC,D}		12,59
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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TR-W-G05-Z /4B00			
Type of condensing	Air cooled / Water 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		11,47
Annual electricity consumption	Q	[kWh]	913470
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1443,00
Rated power input	D _A	[kW]	239,70
Rated energy efficiency ratio	EER _{DC,A}		6,02
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1236,06
Rated power input	D _B	[kW]	153,90
Declared energy efficiency ratio	EER _{DC,B}		8,03
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	934,26
Rated power input	D _C	[kW]	74,70
Declared energy efficiency ratio	EER _{DC,C}		12,50
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	913,06
Rated power input	D _D	[kW]	70,20
Declared energy efficiency ratio	EER _{DC,D}		12,99
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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TR-W-G05-Z /4B1A			
Type of condensing	Air cooled / Water 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		11,53
Annual electricity consumption	Q	[kWh]	1203779
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1917,73
Rated power input	D _A	[kW]	326,20
Rated energy efficiency ratio	EER _{DC,A}		5,88
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1640,73
Rated power input	D _B	[kW]	213,40
Declared energy efficiency ratio	EER _{DC,B}		7,69
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1166,73
Rated power input	D _C	[kW]	91,20
Declared energy efficiency ratio	EER _{DC,C}		12,80
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1145,73
Rated power input	D _D	[kW]	86,80
Declared energy efficiency ratio	EER _{DC,D}		13,21
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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TR-W-G05-Z /4C00			
Type of condensing	Air cooled / Water 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		11,95
Annual electricity consumption	Q	[kWh]	903417
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1487,76
Rated power input	D _A	[kW]	240,40
Rated energy efficiency ratio	EER _{DC,A}		6,19
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1251,76
Rated power input	D _B	[kW]	148,50
Declared energy efficiency ratio	EER _{DC,B}		8,43
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	951,56
Rated power input	D _C	[kW]	72,60
Declared energy efficiency ratio	EER _{DC,C}		13,06
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	932,56
Rated power input	D _D	[kW]	69,10
Declared energy efficiency ratio	EER _{DC,D}		13,49
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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for a greener tomorrow

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



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