

Climaveneta Technical Documentation
TECS2-G05-Y_0211_1154_201902_EN

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

Ecodesign requirements for process chillers

AIR COOLED CHILLERS

TECS2-G05-Y 0211 - 1154

Cooling Capacity Range 217 - 1309 [kW] - (EN14511 VALUE)
Nominal Cooling Capacity at TdesignC Range 217 - 1309 [kW]

EN



1. REGULATION (EU) N. 2016/2281 FOR HIGH TEMPERATURE PROCESS CHILLERS	
1.1 Scope of the document	3
1.2 REGULATION (UE) N. 2016/2281 description	3
1.3 Description of the data declared by Mitsubishi Electric Hydronics & IT Cooling Systems	3
2. CLIMAVENETA CONTENTS UNIT	
2.1 Table index	4
3. TECHNICAL PARAMETERS	
3.1 TECS2-G05-Y /SL-CA	5
3.2 TECS2-G05-Y /SL-CA-E	18
3.3 TECS2-G05-Y /XL-CA	31



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

TECS2-G05-Y 0211 - 1154

Cooling Capacity Range 217 - 1309 [kW]

Nominal Cooling Capacity at TdesignC Range 217 - 1309 [kW]

Units	Version	Size					Pag.
TECS2-G05-Y	SL-CA	0211	0251	0351	0452	0512	5
		0552	0652	0712	0853	0913	
		1013	1054	1154			
TECS2-G05-Y	SL-CA-E	0211	0251	0351	0452	0512	18
		0552	0652	0712	0853	0913	
		1013	1054	1154			
TECS2-G05-Y	XL-CA	0211	0251	0351	0452	0512	31
		0552	0652	0712	0853	0913	
		1013	1054	1154			

TECS2-G05-Y /SL-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		5,80
Annual electricity consumption	Q	[kWh]	293373
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	229,59
Rated power input	D _A	[kW]	71,50
Rated energy efficiency ratio	EER _{DC,A}		3,21
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	214,29
Rated power input	D _B	[kW]	48,40
Declared energy efficiency ratio	EER _{DC,B}		4,43
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	198,99
Rated power input	D _C	[kW]	34,80
Declared energy efficiency ratio	EER _{DC,C}		5,72
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	183,68
Rated power input	D _D	[kW]	27,80
Declared energy efficiency ratio	EER _{DC,D}		6,62
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

TECS2-G05-Y /SL-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		5,87
Annual electricity consumption	Q	[kWh]	322020
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	255,18
Rated power input	D _A	[kW]	81,50
Rated energy efficiency ratio	EER _{DC,A}		3,13
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	238,19
Rated power input	D _B	[kW]	53,10
Declared energy efficiency ratio	EER _{DC,B}		4,48
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	221,17
Rated power input	D _C	[kW]	38,20
Declared energy efficiency ratio	EER _{DC,C}		5,79
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	204,16
Rated power input	D _D	[kW]	30,40
Declared energy efficiency ratio	EER _{DC,D}		6,72
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

TECS2-G05-Y /SL-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		6,04
Annual electricity consumption	Q	[kWh]	420230
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	342,39
Rated power input	D _A	[kW]	110,80
Rated energy efficiency ratio	EER _{DC,A}		3,09
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	319,57
Rated power input	D _B	[kW]	72,70
Declared energy efficiency ratio	EER _{DC,B}		4,40
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	296,75
Rated power input	D _C	[kW]	49,90
Declared energy efficiency ratio	EER _{DC,C}		5,95
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	273,92
Rated power input	D _D	[kW]	38,80
Declared energy efficiency ratio	EER _{DC,D}		7,06
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

TECS2-G05-Y /SL-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		5,92
Annual electricity consumption	Q	[kWh]	546734
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	436,86
Rated power input	D _A	[kW]	138,70
Rated energy efficiency ratio	EER _{DC,A}		3,15
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	407,77
Rated power input	D _B	[kW]	90,90
Declared energy efficiency ratio	EER _{DC,B}		4,49
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	378,65
Rated power input	D _C	[kW]	64,60
Declared energy efficiency ratio	EER _{DC,C}		5,86
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	349,52
Rated power input	D _D	[kW]	51,60
Declared energy efficiency ratio	EER _{DC,D}		6,77
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

TECS2-G05-Y /SL-CA 0512			
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		6,00
Annual electricity consumption	Q	[kWh]	618759
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	501,30
Rated power input	D _A	[kW]	161,70
Rated energy efficiency ratio	EER _{DC,A}		3,10
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	467,88
Rated power input	D _B	[kW]	103,40
Declared energy efficiency ratio	EER _{DC,B}		4,53
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	434,46
Rated power input	D _C	[kW]	73,40
Declared energy efficiency ratio	EER _{DC,C}		5,92
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	401,04
Rated power input	D _D	[kW]	58,00
Declared energy efficiency ratio	EER _{DC,D}		6,91
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

TECS2-G05-Y /SL-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		5,68
Annual electricity consumption	Q	[kWh]	738476
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	565,70
Rated power input	D _A	[kW]	175,10
Rated energy efficiency ratio	EER _{DC,A}		3,23
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	527,99
Rated power input	D _B	[kW]	118,20
Declared energy efficiency ratio	EER _{DC,B}		4,47
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	490,27
Rated power input	D _C	[kW]	87,30
Declared energy efficiency ratio	EER _{DC,C}		5,61
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	452,56
Rated power input	D _D	[kW]	71,00
Declared energy efficiency ratio	EER _{DC,D}		6,38
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

TECS2-G05-Y /SL-CA 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		6,15
Annual electricity consumption	Q	[kWh]	773391
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	641,90
Rated power input	D _A	[kW]	208,40
Rated energy efficiency ratio	EER _{DC,A}		3,08
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	599,11
Rated power input	D _B	[kW]	135,80
Declared energy efficiency ratio	EER _{DC,B}		4,41
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	556,31
Rated power input	D _C	[kW]	91,80
Declared energy efficiency ratio	EER _{DC,C}		6,06
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	513,52
Rated power input	D _D	[kW]	70,80
Declared energy efficiency ratio	EER _{DC,D}		7,25
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

TECS2-G05-Y /SL-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		6,06
Annual electricity consumption	Q	[kWh]	894314
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	731,70
Rated power input	D _A	[kW]	226,50
Rated energy efficiency ratio	EER _{DC,A}		3,23
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	682,92
Rated power input	D _B	[kW]	151,50
Declared energy efficiency ratio	EER _{DC,B}		4,51
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	634,14
Rated power input	D _C	[kW]	106,30
Declared energy efficiency ratio	EER _{DC,C}		5,97
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	585,36
Rated power input	D _D	[kW]	83,40
Declared energy efficiency ratio	EER _{DC,D}		7,02
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

TECS2-G05-Y /SL-CA 0853			
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		5,98
Annual electricity consumption	Q	[kWh]	1039502
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	838,46
Rated power input	D _A	[kW]	271,40
Rated energy efficiency ratio	EER _{DC,A}		3,09
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	782,60
Rated power input	D _B	[kW]	176,30
Declared energy efficiency ratio	EER _{DC,B}		4,44
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	726,70
Rated power input	D _C	[kW]	123,40
Declared energy efficiency ratio	EER _{DC,C}		5,89
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	670,80
Rated power input	D _D	[kW]	96,80
Declared energy efficiency ratio	EER _{DC,D}		6,93
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

TECS2-G05-Y /SL-CA 0913			
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		5,98
Annual electricity consumption	Q	[kWh]	1102607
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	889,30
Rated power input	D _A	[kW]	289,70
Rated energy efficiency ratio	EER _{DC,A}		3,07
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	830,01
Rated power input	D _B	[kW]	189,70
Declared energy efficiency ratio	EER _{DC,B}		4,38
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	770,73
Rated power input	D _C	[kW]	130,80
Declared energy efficiency ratio	EER _{DC,C}		5,89
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	711,44
Rated power input	D _D	[kW]	102,00
Declared energy efficiency ratio	EER _{DC,D}		6,97
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

TECS2-G05-Y /SL-CA 1013			
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		6,09
Annual electricity consumption	Q	[kWh]	1171833
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	962,45
Rated power input	D _A	[kW]	311,50
Rated energy efficiency ratio	EER _{DC,A}		3,09
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	898,33
Rated power input	D _B	[kW]	204,70
Declared energy efficiency ratio	EER _{DC,B}		4,39
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	834,17
Rated power input	D _C	[kW]	139,20
Declared energy efficiency ratio	EER _{DC,C}		5,99
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	770,00
Rated power input	D _D	[kW]	107,60
Declared energy efficiency ratio	EER _{DC,D}		7,16
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

TECS2-G05-Y /SL-CA 1054			
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		5,89
Annual electricity consumption	Q	[kWh]	1324941
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1053,00
Rated power input	D _A	[kW]	337,50
Rated energy efficiency ratio	EER _{DC,A}		3,12
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	982,80
Rated power input	D _B	[kW]	219,10
Declared energy efficiency ratio	EER _{DC,B}		4,49
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	912,60
Rated power input	D _C	[kW]	157,40
Declared energy efficiency ratio	EER _{DC,C}		5,80
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	842,40
Rated power input	D _D	[kW]	124,90
Declared energy efficiency ratio	EER _{DC,D}		6,75
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

TECS2-G05-Y /SL-CA 1154			
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		6,09
Annual electricity consumption	Q	[kWh]	1422937
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1169,89
Rated power input	D _A	[kW]	376,20
Rated energy efficiency ratio	EER _{DC,A}		3,11
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1092,00
Rated power input	D _B	[kW]	244,00
Declared energy efficiency ratio	EER _{DC,B}		4,47
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1014,00
Rated power input	D _C	[kW]	169,00
Declared energy efficiency ratio	EER _{DC,C}		6,00
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	936,00
Rated power input	D _D	[kW]	131,70
Declared energy efficiency ratio	EER _{DC,D}		7,11
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

TECS2-G05-Y /SL-CA-E 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		6,32
Annual electricity consumption	Q	[kWh]	264510
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	225,60
Rated power input	D _A	[kW]	68,20
Rated energy efficiency ratio	EER _{DC,A}		3,31
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	210,56
Rated power input	D _B	[kW]	45,30
Declared energy efficiency ratio	EER _{DC,B}		4,65
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	195,52
Rated power input	D _C	[kW]	32,00
Declared energy efficiency ratio	EER _{DC,C}		6,11
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	180,48
Rated power input	D _D	[kW]	24,10
Declared energy efficiency ratio	EER _{DC,D}		7,49
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

TECS2-G05-Y /SL-CA-E 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		6,24
Annual electricity consumption	Q	[kWh]	334941
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	281,90
Rated power input	D _A	[kW]	81,90
Rated energy efficiency ratio	EER _{DC,A}		3,44
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	263,11
Rated power input	D _B	[kW]	55,80
Declared energy efficiency ratio	EER _{DC,B}		4,72
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	244,31
Rated power input	D _C	[kW]	40,30
Declared energy efficiency ratio	EER _{DC,C}		6,06
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	225,52
Rated power input	D _D	[kW]	31,10
Declared energy efficiency ratio	EER _{DC,D}		7,25
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

TECS2-G05-Y /SL-CA-E 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		6,45
Annual electricity consumption	Q	[kWh]	437581
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	380,75
Rated power input	D _A	[kW]	114,00
Rated energy efficiency ratio	EER _{DC,A}		3,34
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	355,41
Rated power input	D _B	[kW]	75,50
Declared energy efficiency ratio	EER _{DC,B}		4,70
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	330,03
Rated power input	D _C	[kW]	52,90
Declared energy efficiency ratio	EER _{DC,C}		6,24
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	304,64
Rated power input	D _D	[kW]	39,70
Declared energy efficiency ratio	EER _{DC,D}		7,67
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

TECS2-G05-Y /SL-CA-E 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		6,56
Annual electricity consumption	Q	[kWh]	507614
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	449,38
Rated power input	D _A	[kW]	134,10
Rated energy efficiency ratio	EER _{DC,A}		3,35
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	419,44
Rated power input	D _B	[kW]	87,60
Declared energy efficiency ratio	EER _{DC,B}		4,79
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	389,48
Rated power input	D _C	[kW]	61,40
Declared energy efficiency ratio	EER _{DC,C}		6,35
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	359,52
Rated power input	D _D	[kW]	46,10
Declared energy efficiency ratio	EER _{DC,D}		7,80
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

TECS2-G05-Y /SL-CA-E 0512			
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]	611356
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	519,20
Rated power input	D _A	[kW]	155,40
Rated energy efficiency ratio	EER _{DC,A}		3,34
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	484,59
Rated power input	D _B	[kW]	103,20
Declared energy efficiency ratio	EER _{DC,B}		4,69
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	449,97
Rated power input	D _C	[kW]	73,50
Declared energy efficiency ratio	EER _{DC,C}		6,12
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	415,36
Rated power input	D _D	[kW]	56,30
Declared energy efficiency ratio	EER _{DC,D}		7,37
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

TECS2-G05-Y /SL-CA-E 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		6,23
Annual electricity consumption	Q	[kWh]	692436
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	581,80
Rated power input	D _A	[kW]	170,10
Rated energy efficiency ratio	EER _{DC,A}		3,42
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	543,01
Rated power input	D _B	[kW]	117,80
Declared energy efficiency ratio	EER _{DC,B}		4,61
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	504,23
Rated power input	D _C	[kW]	82,80
Declared energy efficiency ratio	EER _{DC,C}		6,09
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	465,44
Rated power input	D _D	[kW]	64,10
Declared energy efficiency ratio	EER _{DC,D}		7,26
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

TECS2-G05-Y /SL-CA-E 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		6,68
Annual electricity consumption	Q	[kWh]	769912
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	694,40
Rated power input	D _A	[kW]	204,80
Rated energy efficiency ratio	EER _{DC,A}		3,39
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	648,11
Rated power input	D _B	[kW]	136,00
Declared energy efficiency ratio	EER _{DC,B}		4,77
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	601,81
Rated power input	D _C	[kW]	93,10
Declared energy efficiency ratio	EER _{DC,C}		6,46
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	555,52
Rated power input	D _D	[kW]	69,10
Declared energy efficiency ratio	EER _{DC,D}		8,04
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

TECS2-G05-Y /SL-CA-E 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		6,44
Annual electricity consumption	Q	[kWh]	902831
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	784,29
Rated power input	D _A	[kW]	235,50
Rated energy efficiency ratio	EER _{DC,A}		3,33
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	732,01
Rated power input	D _B	[kW]	155,60
Declared energy efficiency ratio	EER _{DC,B}		4,70
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	679,73
Rated power input	D _C	[kW]	109,20
Declared energy efficiency ratio	EER _{DC,C}		6,23
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	627,44
Rated power input	D _D	[kW]	82,00
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 CO2eq]	631

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

TECS2-G05-Y /SL-CA-E 0853			
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		6,36
Annual electricity consumption	Q	[kWh]	1038872
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	891,60
Rated power input	D _A	[kW]	265,40
Rated energy efficiency ratio	EER _{DC,A}		3,36
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	832,16
Rated power input	D _B	[kW]	176,40
Declared energy efficiency ratio	EER _{DC,B}		4,72
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	772,72
Rated power input	D _C	[kW]	125,10
Declared energy efficiency ratio	EER _{DC,C}		6,17
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	713,28
Rated power input	D _D	[kW]	95,40
Declared energy efficiency ratio	EER _{DC,D}		7,48
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

TECS2-G05-Y /SL-CA-E 0913			
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		6,51
Annual electricity consumption	Q	[kWh]	1086064
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	953,86
Rated power input	D _A	[kW]	282,20
Rated energy efficiency ratio	EER _{DC,A}		3,38
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	890,31
Rated power input	D _B	[kW]	188,40
Declared energy efficiency ratio	EER _{DC,B}		4,73
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	826,71
Rated power input	D _C	[kW]	131,40
Declared energy efficiency ratio	EER _{DC,C}		6,29
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	763,12
Rated power input	D _D	[kW]	98,40
Declared energy efficiency ratio	EER _{DC,D}		7,76
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

TECS2-G05-Y /SL-CA-E 1013			
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]	121 1460
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1068,00
Rated power input	D _A	[kW]	318,80
Rated energy efficiency ratio	EER _{DC,A}		3,35
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	996,80
Rated power input	D _B	[kW]	212,30
Declared energy efficiency ratio	EER _{DC,B}		4,70
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	925,60
Rated power input	D _C	[kW]	146,60
Declared energy efficiency ratio	EER _{DC,C}		6,32
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	854,40
Rated power input	D _D	[kW]	109,30
Declared energy efficiency ratio	EER _{DC,D}		7,82
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

TECS2-G05-Y /SL-CA-E 1054			
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]	1392047
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1164,00
Rated power input	D _A	[kW]	339,40
Rated energy efficiency ratio	EER _{DC,A}		3,43
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1086,40
Rated power input	D _B	[kW]	228,90
Declared energy efficiency ratio	EER _{DC,B}		4,74
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1008,80
Rated power input	D _C	[kW]	167,60
Declared energy efficiency ratio	EER _{DC,C}		6,02
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	931,20
Rated power input	D _D	[kW]	129,80
Declared energy efficiency ratio	EER _{DC,D}		7,17
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

TECS2-G05-Y /SL-CA-E 1154			
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		6,43
Annual electricity consumption	Q	[kWh]	1508435
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1308,84
Rated power input	D _A	[kW]	387,30
Rated energy efficiency ratio	EER _{DC,A}		3,38
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1221,73
Rated power input	D _B	[kW]	257,30
Declared energy efficiency ratio	EER _{DC,B}		4,75
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1134,47
Rated power input	D _C	[kW]	182,00
Declared energy efficiency ratio	EER _{DC,C}		6,23
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	1047,20
Rated power input	D _D	[kW]	137,90
Declared energy efficiency ratio	EER _{DC,D}		7,59
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

TECS2-G05-Y /XL-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		5,93
Annual electricity consumption	Q	[kWh]	271553
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	217,17
Rated power input	D _A	[kW]	69,60
Rated energy efficiency ratio	EER _{DC,A}		3,12
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	202,72
Rated power input	D _B	[kW]	45,40
Declared energy efficiency ratio	EER _{DC,B}		4,47
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	188,24
Rated power input	D _C	[kW]	32,10
Declared energy efficiency ratio	EER _{DC,C}		5,86
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	173,76
Rated power input	D _D	[kW]	25,60
Declared energy efficiency ratio	EER _{DC,D}		6,80
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

TECS2-G05-Y /XL-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		6,13
Annual electricity consumption	Q	[kWh]	304281
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	251,70
Rated power input	D _A	[kW]	80,20
Rated energy efficiency ratio	EER _{DC,A}		3,14
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	234,92
Rated power input	D _B	[kW]	51,10
Declared energy efficiency ratio	EER _{DC,B}		4,60
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	218,14
Rated power input	D _C	[kW]	36,20
Declared energy efficiency ratio	EER _{DC,C}		6,03
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	201,36
Rated power input	D _D	[kW]	28,40
Declared energy efficiency ratio	EER _{DC,D}		7,09
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

TECS2-G05-Y /XL-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		6,28
Annual electricity consumption	Q	[kWh]	398618
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	337,70
Rated power input	D _A	[kW]	110,00
Rated energy efficiency ratio	EER _{DC,A}		3,07
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	315,19
Rated power input	D _B	[kW]	70,30
Declared energy efficiency ratio	EER _{DC,B}		4,48
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	292,67
Rated power input	D _C	[kW]	47,40
Declared energy efficiency ratio	EER _{DC,C}		6,18
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	270,16
Rated power input	D _D	[kW]	36,30
Declared energy efficiency ratio	EER _{DC,D}		7,43
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

TECS2-G05-Y /XL-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		6,14
Annual electricity consumption	Q	[kWh]	518556
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	430,00
Rated power input	D _A	[kW]	136,90
Rated energy efficiency ratio	EER _{DC,A}		3,14
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	401,33
Rated power input	D _B	[kW]	87,60
Declared energy efficiency ratio	EER _{DC,B}		4,58
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	372,67
Rated power input	D _C	[kW]	61,40
Declared energy efficiency ratio	EER _{DC,C}		6,07
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	344,00
Rated power input	D _D	[kW]	48,50
Declared energy efficiency ratio	EER _{DC,D}		7,10
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

TECS2-G05-Y /XL-CA 0512			
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		6,10
Annual electricity consumption	Q	[kWh]	629245
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	517,90
Rated power input	D _A	[kW]	166,50
Rated energy efficiency ratio	EER _{DC,A}		3,11
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	483,37
Rated power input	D _B	[kW]	105,70
Declared energy efficiency ratio	EER _{DC,B}		4,57
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	448,85
Rated power input	D _C	[kW]	74,80
Declared energy efficiency ratio	EER _{DC,C}		6,00
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	414,32
Rated power input	D _D	[kW]	58,70
Declared energy efficiency ratio	EER _{DC,D}		7,06
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

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

TECS2-G05-Y /XL-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		5,92
Annual electricity consumption	Q	[kWh]	715736
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	571,37
Rated power input	D _A	[kW]	172,60
Rated energy efficiency ratio	EER _{DC,A}		3,31
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	533,31
Rated power input	D _B	[kW]	115,70
Declared energy efficiency ratio	EER _{DC,B}		4,61
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	495,21
Rated power input	D _C	[kW]	84,90
Declared energy efficiency ratio	EER _{DC,C}		5,83
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	457,12
Rated power input	D _D	[kW]	68,20
Declared energy efficiency ratio	EER _{DC,D}		6,70
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

TECS2-G05-Y /XL-CA 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		6,38
Annual electricity consumption	Q	[kWh]	734540
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	632,89
Rated power input	D _A	[kW]	206,80
Rated energy efficiency ratio	EER _{DC,A}		3,06
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	590,71
Rated power input	D _B	[kW]	131,70
Declared energy efficiency ratio	EER _{DC,B}		4,49
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	548,51
Rated power input	D _C	[kW]	87,40
Declared energy efficiency ratio	EER _{DC,C}		6,28
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	506,32
Rated power input	D _D	[kW]	66,50
Declared energy efficiency ratio	EER _{DC,D}		7,62
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

TECS2-G05-Y /XL-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		6,18
Annual electricity consumption	Q	[kWh]	873170
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	728,40
Rated power input	D _A	[kW]	227,60
Rated energy efficiency ratio	EER _{DC,A}		3,20
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	679,84
Rated power input	D _B	[kW]	149,20
Declared energy efficiency ratio	EER _{DC,B}		4,56
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	631,28
Rated power input	D _C	[kW]	103,80
Declared energy efficiency ratio	EER _{DC,C}		6,08
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	582,72
Rated power input	D _D	[kW]	80,90
Declared energy efficiency ratio	EER _{DC,D}		7,20
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

TECS2-G05-Y /XL-CA 0853			
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]	1043810
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	863,60
Rated power input	D _A	[kW]	281,30
Rated energy efficiency ratio	EER _{DC,A}		3,07
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	806,03
Rated power input	D _B	[kW]	178,60
Declared energy efficiency ratio	EER _{DC,B}		4,51
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	748,45
Rated power input	D _C	[kW]	124,10
Declared energy efficiency ratio	EER _{DC,C}		6,03
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	690,88
Rated power input	D _D	[kW]	96,50
Declared energy efficiency ratio	EER _{DC,D}		7,16
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

TECS2-G05-Y /XL-CA 0913			
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]	1061747
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	885,66
Rated power input	D _A	[kW]	292,30
Rated energy efficiency ratio	EER _{DC,A}		3,03
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	826,65
Rated power input	D _B	[kW]	186,30
Declared energy efficiency ratio	EER _{DC,B}		4,44
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	767,61
Rated power input	D _C	[kW]	126,00
Declared energy efficiency ratio	EER _{DC,C}		6,09
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	708,56
Rated power input	D _D	[kW]	97,20
Declared energy efficiency ratio	EER _{DC,D}		7,29
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

TECS2-G05-Y /XL-CA 1013			
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		6,30
Annual electricity consumption	Q	[kWh]	1124920
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	956,98
Rated power input	D _A	[kW]	312,70
Rated energy efficiency ratio	EER _{DC,A}		3,06
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	893,20
Rated power input	D _B	[kW]	200,50
Declared energy efficiency ratio	EER _{DC,B}		4,46
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	829,40
Rated power input	D _C	[kW]	133,80
Declared energy efficiency ratio	EER _{DC,C}		6,20
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	765,60
Rated power input	D _D	[kW]	102,10
Declared energy efficiency ratio	EER _{DC,D}		7,50
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

TECS2-G05-Y /XL-CA 1054			
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]	1253537
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1037,00
Rated power input	D _A	[kW]	332,40
Rated energy efficiency ratio	EER _{DC,A}		3,12
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	967,87
Rated power input	D _B	[kW]	210,70
Declared energy efficiency ratio	EER _{DC,B}		4,59
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	898,73
Rated power input	D _C	[kW]	149,00
Declared energy efficiency ratio	EER _{DC,C}		6,03
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	829,60
Rated power input	D _D	[kW]	116,90
Declared energy efficiency ratio	EER _{DC,D}		7,10
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

TECS2-G05-Y /XL-CA 1154			
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		6,28
Annual electricity consumption	Q	[kWh]	1368661
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	[kW]	1159,95
Rated power input	D _A	[kW]	380,30
Rated energy efficiency ratio	EER _{DC,A}		3,05
Parameters at rating point B			
Rated refrigeration capacity	P _B	[kW]	1082,67
Rated power input	D _B	[kW]	237,80
Declared energy efficiency ratio	EER _{DC,B}		4,55
Parameters at rating point C			
Rated refrigeration capacity	P _C	[kW]	1005,33
Rated power input	D _C	[kW]	162,60
Declared energy efficiency ratio	EER _{DC,C}		6,18
Parameters at rating point D			
Rated refrigeration capacity	P _D	[kW]	928,00
Rated power input	D _D	[kW]	125,60
Declared energy efficiency ratio	EER _{DC,D}		7,39
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



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.



mitsubishi electric hydronics & it cooling systems S.p.A.

Head Office: Via Caduti di Cefalonia 1 - 36061 Bassano del Grappa (VI) - Italy

Tel (+39) 0424 509 500 - Fax (+39) 0424 509 509

www.climaveneta.com

www.melcohit.com