

Climaveneta Technical Documentation
WSM2-T_0264_0604_202005_ML

REGULATION (EU) N. 2016/2281 FOR AIR-COOLED ROOFTOP AIR CONDITIONERS

Ecodesign requirements for cooling products

AIR TO AIR ROOFTOP UNIT, ONLY COOLING

WSM2-T 0264 - 0604

Cooling Capacity Range 81,1 - 182 [kW] - (EN14511 VALUE)
Nominal Cooling Capacity at TdesignC Range 82,4 - 187 [kW]



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1. REGULATION (EU) N. 2016/2281 FOR AIR-COOLED ROOFTOP AIR CONDITIONERS

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 rooftop air conditioners and contains information required by Table 11 of the above-mentioned regulation, which is entitled "Information requirements for air-to-air air conditioners".

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

- Rooftop air conditioner: an air-to-air air conditioner driven by an electric compressor, with evaporator, compressor, and condenser integrated into a single package.
- Rated cooling capacity (Prated,c): the cooling capacity of a rooftop air conditioner when providing space cooling at standard rating conditions, expressed in kW.
- Seasonal energy efficiency of the space cooling ($\eta_{s,c}$): ratio between the space cooling demand pertaining to the designated cooling season, and the annual energy consumption required to meet this demand, expressed in %.
- Seasonal Energy Efficiency Ratio (SEER): the overall energy efficiency ratio of the rooftop air conditioner, representative for the cooling season, calculated as the reference annual cooling demand divided by the annual energy consumption for cooling.
- Degradation coefficient: measure of efficiency loss due to cycling of the rooftop.
- Off mode: a condition in which the rooftop is connected to the mains power source and is not providing any function.
- Thermostat off-mode: condition corresponding to the hours with no cooling load and activated cooling function, whereby the cooling function is switched on but the rooftop is not operational.
- Crankcase heater mode: condition in which a heating device is activated to avoid the refrigerant migrating to the compressor so as to limit the refrigerant concentration in oil when the compressor is started.
- Standby mode: condition where the rooftop is connected to the mains power source and depends on energy input from the mains power source to work as intended. The unit provides only the following functions, which may persist for an indefinite time: reactivation function, or reactivation function and only an indication of enabled reactivation function, and/or information or status display.
- Capacity control: the ability of a rooftop to change its cooling capacity by changing the volumetric flow rate of at least one of the fluids needed to operate the refrigeration cycle.
- Sound power level (LWA): the A-weighted sound power level, indoors and/or outdoors, expressed in dB.
- Annual electricity consumption for cooling: the energy consumption required to meet the reference annual cooling demand.
- 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 TO AIR ROOFTOP UNIT, ONLY COOLING

WSM2-T 0264 - 0604

Cooling Capacity Range 81,1 - 182 [kW]

Nominal Cooling Capacity at TdesignC Range 82,4 - 187 [kW]

Units	Version	Size					Pag.
WSM2-T		0264	0304	0354	0404	0444	5
		0484	0524	0604			

WSM2-T 0264			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	82,4
Seasonal energy efficiency of the space cooling	eta_s	[%]	163,8
Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared cooling capacity with outdoor temperature Tj = +35°C	Pdc	[kW]	82,4
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	60,7
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	39,1
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	30,0
Degradation coefficient for chillers	Cdc		0,3
Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared energy efficiency ratio with outdoor temperature Tj = +35°C	EERd	[%]	3,15
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,64
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	4,38
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	4,77
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,111
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,090
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	83,0
Annual electricity consumption for cooling	QCE	[kWh]	11865
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	41240

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

WSM2-T 0304			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	90,7
Seasonal energy efficiency of the space cooling	eta_s	[%]	182,2
Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared cooling capacity with outdoor temperature Tj = +35°C	Pdc	[kW]	90,7
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	66,8
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	43,0
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	33,2
Degradation coefficient for chillers	Cdc		0,3
Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared energy efficiency ratio with outdoor temperature Tj = +35°C	EERd	[%]	3,31
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,39
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,12
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	5,89
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,129
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,090
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	83,0
Annual electricity consumption for cooling	QCE	[kWh]	11759
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	39350

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

WSM2-T 0354			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	106,2
Seasonal energy efficiency of the space cooling	eta_s	[%]	182,6
Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared cooling capacity with outdoor temperature Tj = +35°C	Pdc	[kW]	106
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	78,3
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	50,3
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	37,6
Degradation coefficient for chillers	Cdc		0,3
Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared energy efficiency ratio with outdoor temperature Tj = +35°C	EERd	[%]	3,20
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,27
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,22
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	5,92
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,162
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,090
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	84,0
Annual electricity consumption for cooling	QCE	[kWh]	13737
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	39350

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

WSM2-T 0404			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	124,9
Seasonal energy efficiency of the space cooling	eta_s	[%]	187,8
Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared cooling capacity with outdoor temperature Tj = +35°C	Pdc	[kW]	125
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	92,1
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	59,2
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	44,3
Degradation coefficient for chillers	Cdc		0,3
Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared energy efficiency ratio with outdoor temperature Tj = +35°C	EERd	[%]	3,24
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,37
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,38
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	6,08
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,188
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,090
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	84,0
Annual electricity consumption for cooling	QCE	[kWh]	15715
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	37580

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

WSM2-T 0444			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	135,8
Seasonal energy efficiency of the space cooling	eta_s	[%]	178,6
Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared cooling capacity with outdoor temperature Tj = +35°C	Pdc	[kW]	136
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	100
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	64,3
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	44,7
Degradation coefficient for chillers	Cdc		0,3
Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared energy efficiency ratio with outdoor temperature Tj = +35°C	EERd	[%]	3,36
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,14
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,00
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	6,07
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,227
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,170
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	85,0
Annual electricity consumption for cooling	QCE	[kWh]	17936
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	60880

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

WSM2-T 0484			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	147,3
Seasonal energy efficiency of the space cooling	eta_s	[%]	169,8
Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared cooling capacity with outdoor temperature Tj = +35°C	Pdc	[kW]	147
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	109
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	69,8
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	50,7
Degradation coefficient for chillers	Cdc		0,3
Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared energy efficiency ratio with outdoor temperature Tj = +35°C	EERd	[%]	3,38
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,06
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	4,82
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	5,36
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,375
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,170
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	86,0
Annual electricity consumption for cooling	QCE	[kWh]	20462
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	73260

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

WSM2-T 0524			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	163,4
Seasonal energy efficiency of the space cooling	eta_s	[%]	167,8
Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared cooling capacity with outdoor temperature Tj = +35°C	Pdc	[kW]	163
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	120
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	77,4
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	57,5
Degradation coefficient for chillers	Cdc		0,3
Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared energy efficiency ratio with outdoor temperature Tj = +35°C	EERd	[%]	3,40
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,11
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	4,73
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	5,19
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,453
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,170
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
Annual electricity consumption for cooling	QCE	[kWh]	22954
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	77824

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

WSM2-T 0604			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	187,1
Seasonal energy efficiency of the space cooling	eta_s	[%]	165,4
Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared cooling capacity with outdoor temperature Tj = +35°C	Pdc	[kW]	187
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	138
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	88,6
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	66,9
Degradation coefficient for chillers	Cdc		0,3
Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj			
Declared energy efficiency ratio with outdoor temperature Tj = +35°C	EERd	[%]	3,16
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,06
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	4,70
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	5,17
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,572
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,170
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	87,0
Annual electricity consumption for cooling	QCE	[kWh]	26632
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	73260

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

ENGLISH	ITALIANO	FRANCAISE	DEUTSCH	ESPAÑOL
Air-to-air air conditioner	Refrigeratore aria / aria	Climatiseur air-air	Luft-Luft-Raumklimagerät	Acondicionador de aire aire-aire
Rated cooling capacity	Capacità di raffreddamento nominale	Puissance frigorifique nominale	Nennkühlleistung	Potencia nominal de refrigeración
Seasonal energy efficiency of the space cooling	Efficienza energetica stagionale del raffreddamento d'ambiente	Efficacité énergétique saisonnière pour le refroidissement des locaux	Raumkühlungs-Jahresnutzungsgrad	Efficiencia energética estacional de refrigeración de espacios
Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj	Capacità di raffreddamento dichiarata a carico parziale alla temperatura interna 27°C/19°C (Tbs/Tbu) con temperatura esterna Tj	Puissance frigorifique déclarée à charge partielle pour des températures extérieures données Tj et intérieure de 27 °C/19 °C (bulbe sec/ bulbe humide)	Angegebene Kühlleistung bei Teillast und bestimmten Außentemperaturen Tj und der Raumtemperatur 27 °C/19 °C (Trocken-/Feuchtkugel)	Potencia de refrigeración declarada para carga parcial a las temperaturas exteriores dadas Tj y a una temperatura interior de 27 °C/19 °C (termómetro seco/húmedo)
Declared cooling capacity with outdoor temperature Tj = +35°C	Capacità di raffreddamento dichiarata con temperatura esterna Tj = +35°C	Puissance frigorifique déclarée à la température extérieure Tj = 35°C	Angegebene Kühlleistung bei Teillast und einer Außentemperatur Tj = 35°C	Potencia de refrigeración declarada para carga parcial a la temperatura exterior Tj = 35°C
Declared cooling capacity with outdoor temperature Tj = +30°C	Capacità di raffreddamento dichiarata con temperatura esterna Tj = +30°C	Puissance frigorifique déclarée à la température extérieure Tj = 30°C	Angegebene Kühlleistung bei Teillast und einer Außentemperatur Tj = 30°C	Potencia de refrigeración declarada para carga parcial a la temperatura exterior Tj = 30°C
Declared cooling capacity with outdoor temperature Tj = +25°C	Capacità di raffreddamento dichiarata con temperatura esterna Tj = +25°C	Puissance frigorifique déclarée à la température extérieure Tj = 25°C	Angegebene Kühlleistung bei Teillast und einer Außentemperatur Tj = 25°C	Potencia de refrigeración declarada para carga parcial a la temperatura exterior Tj = 25°C
Declared cooling capacity with outdoor temperature Tj = +20°C	Capacità di raffreddamento dichiarata con temperatura esterna Tj = +20°C	Puissance frigorifique déclarée à la température extérieure Tj = 20°C	Angegebene Kühlleistung bei Teillast und einer Außentemperatur Tj = 20°C	Potencia de refrigeración declarada para carga parcial a la temperatura exterior Tj = 20°C
Degradation coefficient for chillers	Coefficiente di degradazione per i refrigeratori	Coefficient de dégradation pour les refroidisseurs	Minderungsfaktor von Kühlern	Coefficiente de degradación de las enfriadoras
Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj	Indice di efficienza energetica dichiarato a carico parziale alla temperatura interna 27°C/19°C (Tbs/Tbu) con temperatura esterna Tj	Coefficient d'efficacité énergétique déclaré ou rendement de la consommation de gaz/indice énergétique auxiliaire à charge partielle pour des températures extérieures données Tj	Angegebene Leistungszahl oder Gaswirkungsgrad/Hilfsenergiefaktor bei Teillast und bestimmten Außentemperaturen Tj	Factor de eficiencia energética declarado o eficiencia del uso de gas o factor de energía auxiliar para carga parcial a las temperaturas exteriores dadas Tj
Declared energy efficiency ratio with outdoor temperature Tj = +35°C	Indice di efficienza energetica dichiarato con temperatura esterna Tj = +35°C	Coefficient d'efficacité énergétique déclaré à la température extérieure Tj = 35°C	Angegebene Leistungszahl bei Teillast und einer Außentemperatur Tj = 35°C	Factor de eficiencia energética declarado a la temperatura exterior Tj = 35°C
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	Indice di efficienza energetica dichiarato con temperatura esterna Tj = +30°C	Coefficient d'efficacité énergétique déclaré à la température extérieure Tj = 30°C	Angegebene Leistungszahl bei Teillast und einer Außentemperatur Tj = 30°C	Factor de eficiencia energética declarado a la temperatura exterior Tj = 30°C
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	Indice di efficienza energetica dichiarato con temperatura esterna Tj = +25°C	Coefficient d'efficacité énergétique déclaré à la température extérieure Tj = 25°C	Angegebene Leistungszahl bei Teillast und einer Außentemperatur Tj = 25°C	Factor de eficiencia energética declarado a la temperatura exterior Tj = 25°C
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	Indice di efficienza energetica dichiarato con temperatura esterna Tj = +20°C	Coefficient d'efficacité énergétique déclaré à la température extérieure Tj = 20°C	Angegebene Leistungszahl bei Teillast und einer Außentemperatur Tj = 20°C	Factor de eficiencia energética declarado a la temperatura exterior Tj = 20°C
Power consumption in modes other than active mode	Consumo di energia in modi diversi dal modo attivo	Consommation d'énergie dans les modes autres que le mode actif	Stromverbrauch in anderen Betriebsarten als dem „aktiven Betrieb“	Consumo de energía en modos distintos del modo activo
Off mode	Modo «spento»	Mode arrêt	AUS-Zustand	Modo desactivado
Thermostat-off mode	Modo «termostato spento»	Mode arrêt par thermostat	Thermostat-AUS- Zustand	Modo desactivado por termostato
Crankcase heater mode	Modo «riscaldamento del carter»	Mode résistance de carter active	Betriebszustand mit Kurbelwannenheizung	Modo de calentador del cárter activado
Standby mode	Modo «stand-by»	Mode veille	Bereitschaftszustand	Modo de espera
Other items	Altri elementi	Autres caractéristiques	Sonstige Produktdaten	Otros elementos
Capacity control	Dispositivo di controllo della capacità	Régulation de la puissance	Leistungsregelung	Control de la potencia
Sound power level, outdoor	Livello di potenza sonora esterno	Niveau de puissance acoustique, à l'extérieur	Schalleleistungspegel, außen	Nivel de potencia acústica (exterior)
Annual electricity consumption for cooling	Consumo di elettricità annuale per il raffreddamento	Consommation annuelle d'électricité pour le refroidissement	Jahresstromverbrauch für die Kühlung	Consumo anual de electricidad para refrigeración
GWP of the refrigerant	GWP del refrigerante	PRP du fluide frigorigène	Treibhausgaspotenzial des Kältemittels	PCA del refrigerante
Outdoor heat exchanger	Scambiatore di calore esterno	Echangeur de chaleur côté extérieur	Wärmetauscher außen	Intercambiador de calor de exterior
Air flow rate, outdoor measured	Portata aria, misurata all'esterno	Débit d'air, mesuré à l'extérieur	Luftdurchsatz, außen gemessen	Caudal de aire (exterior)
Notes:	Note:	Remarques:	Hinweise:	Notas:

ENGLISH	ITALIANO	FRANCAISE	DEUTSCH	ESPAÑOL
The parameters are declared for	I parametri sono dichiarati per	Les paramètres sont déclarés	Die Parameter sind für eine	Los parámetros se declararán
Unit in standard configuration/execution, without optional accessories.	Unità in configurazione ed esecuzione standard, priva di accessori opzionali.	Unité en configuration et exécution standard, sans accessoires optionnels.	Gerät mit Standard-Konfiguration und -Ausführung, ohne wunschweises Zubehör.	Unidad en configuración y ejecución estándar, sin accesorios opcionales.



for a greener tomorrow

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



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