

Climaveneta Technical Documentation  
WSM2-Y\_0052\_0152\_202005\_ML

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

Ecodesign requirements for cooling products

REVERSIBLE AIR COOLED ROOFTOP UNIT

**WSM2-Y 0052 - 0152**

Cooling Capacity Range 15,8 - 46,7 [kW] - (EN14511 VALUE)  
Nominal Cooling Capacity at TdesignC Range 15,8 - 47,7 [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 (CO<sub>2</sub>).

## 2. CLIMAVENETA CONTENTS UNIT

### 2.1 Table index

REVERSIBLE AIR COOLED ROOFTOP UNIT

#### WSM2-Y 0052 - 0152

Cooling Capacity Range 15,8 - 46,7 [kW]

Nominal Cooling Capacity at TdesignC Range 15,8 - 47,7 [kW]

Units	Version	Size					Pag.
WSM2-Y		0052	0062	0082	0092	0102	5
		0122	0132	0152			

WSM2-Y 0052			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	15,8
Seasonal energy efficiency of the space cooling	eta_s	[%]	175,4
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]	15,8
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	11,7
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	10,5
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	10,9
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	[%]	3,48
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,51
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,54
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	6,34
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,044
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,045
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	76,0
Annual electricity consumption for cooling	QCE	[kWh]	2128
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	12000

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

WSM2-Y 0062			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	18,1
Seasonal energy efficiency of the space cooling	eta_s	[%]	164,6
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]	18,1
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	13,3
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	13,1
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	13,6
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	[%]	3,22
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,37
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,20
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	5,93
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,092
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,045
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	79,0
Annual electricity consumption for cooling	QCE	[kWh]	2595
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	15000

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

WSM2-Y 0082			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	21,0
Seasonal energy efficiency of the space cooling	eta_s	[%]	170,6
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]	21,0
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	15,5
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	15,8
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	16,4
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	[%]	4,63
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,38
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	6,11
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,107
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,045
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	78,0
Annual electricity consumption for cooling	QCE	[kWh]	2903
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	13000

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

WSM2-Y 0092			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	27,6
Seasonal energy efficiency of the space cooling	eta_s	[%]	159,8
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]	27,6
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	20,3
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	20,3
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	21,1
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	[%]	2,87
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,21
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,02
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	5,69
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,153
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,045
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	80,0
Annual electricity consumption for cooling	QCE	[kWh]	4065
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	12000

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



WSM2-Y 0102			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	33,7
Seasonal energy efficiency of the space cooling	eta_s	[%]	192,6
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]	33,7
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	24,8
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	21,9
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	22,5
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	[%]	3,42
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,70
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	6,07
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	6,79
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,121
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,045
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	79,0
Annual electricity consumption for cooling	QCE	[kWh]	4138
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	21000

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

WSM2-Y 0122			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	37,9
Seasonal energy efficiency of the space cooling	eta_s	[%]	170,2
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]	37,9
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	27,9
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	24,8
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	25,6
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	[%]	3,16
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,20
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,26
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]	0,147
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,045
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	79,0
Annual electricity consumption for cooling	QCE	[kWh]	5255
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	21000

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

WSM2-Y 0132			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	43,5
Seasonal energy efficiency of the space cooling	eta_s	[%]	162,6
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]	43,5
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	32,1
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	28,4
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	29,2
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	[%]	3,08
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,03
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	4,96
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	5,54
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,159
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,045
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	83,0
Annual electricity consumption for cooling	QCE	[kWh]	6307
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	21000

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

WSM2-Y 0152			
Air-to-air air conditioner	yes / no		yes
Rated cooling capacity	Prated =Pdesignc	[kW]	47,7
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]	47,7
Declared cooling capacity with outdoor temperature Tj = +30°C	Pdc	[kW]	35,1
Declared cooling capacity with outdoor temperature Tj = +25°C	Pdc	[kW]	31,1
Declared cooling capacity with outdoor temperature Tj = +20°C	Pdc	[kW]	32,1
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	[%]	3,18
Declared energy efficiency ratio with outdoor temperature Tj = +30°C	EERd	[%]	4,14
Declared energy efficiency ratio with outdoor temperature Tj = +25°C	EERd	[%]	5,09
Declared energy efficiency ratio with outdoor temperature Tj = +20°C	EERd	[%]	5,69
Power consumption in modes other than active mode			
Off mode	POFF	[kW]	0,000
Thermostat-off mode	PTO	[kW]	0,141
Crankcase heater mode	PCK	[kW]	0,000
Standby mode	PSB	[kW]	0,045
Other items			
Capacity control	fixed/variable/staged		Staged
Sound power level, outdoor	LWA	[dB(A)]	83,0
Annual electricity consumption for cooling	QCE	[kWh]	6707
GWP of the refrigerant		[Kg CO2eq]	2088
Outdoor heat exchanger			
Air flow rate, outdoor measured	Qairsorce	[m³/h]	21000

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
<b>Declared cooling capacity for partial load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj</b>	<b>Capacità di raffreddamento dichiarata a carico parziale alla temperatura interna 27°C/19°C (Tbs/Tbu) con temperatura esterna Tj</b>	<b>Puissance frigorifique déclarée à charge partielle pour des températures extérieures données Tj et intérieure de 27 °C/19 °C (bulbe sec/ bulbe humide)</b>	<b>Angegebene Kühlleistung bei Teillast und bestimmten Außentemperaturen Tj und der Raumtemperatur 27 °C/19 °C (Trocken-/Feuchtkugel)</b>	<b>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)</b>
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
<b>Declared energy efficiency ratio for part load at indoor temperature 27°C/19°C (dry/wet bulb) and outdoor temperature Tj</b>	<b>Indice di efficienza energetica dichiarato a carico parziale alla temperatura interna 27°C/19°C (Tbs/Tbu) con temperatura esterna Tj</b>	<b>Coefficient d'efficacité énergétique déclaré ou rendement de la consommation de gaz/indice énergétique auxiliaire à charge partielle pour des températures extérieures données Tj</b>	<b>Angegebene Leistungszahl oder Gaswirkungsgrad/Hilfsenergiefaktor bei Teillast und bestimmten Außentemperaturen Tj</b>	<b>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</b>
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
<b>Power consumption in modes other than active mode</b>	<b>Consumo di energia in modi diversi dal modo attivo</b>	<b>Consommation d'énergie dans les modes autres que le mode actif</b>	<b>Stromverbrauch in anderen Betriebsarten als dem „aktiven Betrieb“</b>	<b>Consumo de energía en modos distintos del modo activo</b>
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
<b>Other items</b>	<b>Altri elementi</b>	<b>Autres caractéristiques</b>	<b>Sonstige Produktdaten</b>	<b>Otros elementos</b>
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
<b>Outdoor heat exchanger</b>	<b>Scambiatore di calore esterno</b>	<b>Echangeur de chaleur côté extérieur</b>	<b>Wärmetauscher außen</b>	<b>Intercambiador de calor de exterior</b>
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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