

SPEC SHEET
PURY-RP * * * YJM-B
For Europe Regulation (Lot6)

Table 11

Information requirements for air-to-air air conditioners

Model(s): Information to identify the model(s) to which the information relates to: PURY-RP200YJM-B							
Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Type: compressor driven vapour compression							
if applicable: driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	22.40	kW	Seasonal space cooling efficiency	$\eta_{s,c}$	239.4	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = +35\text{ °C}$	P_{dc}	22.40	kW	$T_j = +35\text{ °C}$	EER_d	4.52	%
$T_j = +30\text{ °C}$	P_{dc}	16.52	kW	$T_j = +30\text{ °C}$	EER_d	4.41	%
$T_j = +25\text{ °C}$	P_{dc}	10.62	kW	$T_j = +25\text{ °C}$	EER_d	8.02	%
$T_j = +20\text{ °C}$	P_{dc}	10.15	kW	$T_j = +20\text{ °C}$	EER_d	11.70	%
Degradation coefficient air conditioners**							
	C_d	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.000	kW	Crankcase heater mode	P_{CK}	0.035	kW
Thermostat-off mode	P_{TO}	0.089	kW	Standby mode	P_{SB}	0.084	kW
Other items							
Capacity control	variable			For air-to-air air conditioner: Nominal air flow rate, outdoor measured		13500	m ³ /h
Sound power level, outdoor	L_{WA}	76.0	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan						
** If C_d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit.							

Table 14

Information requirements for heat pumps

Information to identify the model(s) to which the information relates to: PURY-RP200YJM-B							
Outdoor heat exchanger of heat pump: air							
Indoor heat exchanger of heat pump: air							
Indication if the heater is equipped with a supplementary heater: no							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	25.00	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	153.0	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = -7\text{ °C}$	P_{dh}	20.70	kW	$T_j = -7\text{ °C}$	COP_d	2.17	%
$T_j = +2\text{ °C}$	P_{dh}	13.48	kW	$T_j = +2\text{ °C}$	COP_d	3.42	%
$T_j = +7\text{ °C}$	P_{dh}	8.67	kW	$T_j = +7\text{ °C}$	COP_d	6.25	%
$T_j = +12\text{ °C}$	P_{dh}	5.64	kW	$T_j = +12\text{ °C}$	COP_d	8.03	%
$T_j =$ bivalent temperature	P_{dh}	21.15	kW	$T_j =$ bivalent temperature	COP_d	2.61	%
$T_j =$ operation limit	P_{dh}	15.13	kW	$T_j =$ operation limit	COP_d	1.99	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	P_{dh}	-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-6.0	°C	For water-to-air heat pumps: Operation limit T_{ol} temperature		-	°C
Degradation coefficient of heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.000	kW	Electric back-up heating capacity *	$elbu$	0.000	kW
Thermostat-off mode	P_{TO}	0.089	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.035	kW	Standby mode	P_{SB}	0.084	kW
Other items				For air-to-air heat pumps: Nominal air flow rate, outdoor measured			
Capacity control	variable				13500	m ³ /h	
Sound power level, indoor / outdoor measured	L_{WA}	76.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	m ³ /h	
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit.							

Table 11

Information requirements for air-to-air air conditioners

Model(s): Information to identify the model(s) to which the information relates to: PURY-RP250YJM-B							
Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Type: compressor driven vapour compression							
if applicable: driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	28.00	kW	Seasonal space cooling efficiency	$\eta_{s,c}$	222.2	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = +35\text{ °C}$	P_{dc}	28.00	kW	$T_j = +35\text{ °C}$	EER_d	4.10	%
$T_j = +30\text{ °C}$	P_{dc}	20.64	kW	$T_j = +30\text{ °C}$	EER_d	3.81	%
$T_j = +25\text{ °C}$	P_{dc}	13.27	kW	$T_j = +25\text{ °C}$	EER_d	7.11	%
$T_j = +20\text{ °C}$	P_{dc}	8.93	kW	$T_j = +20\text{ °C}$	EER_d	11.29	%
Degradation efficient conditioners**	co-air C_d	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.000	kW	Standby mode	P_{SB}	0.084	kW
Thermostat-off mode	P_{TO}	0.089	kW				
Other items				For air-to-air air conditioner: Nominal air flow rate, outdoor measured			
Capacity control	variable					13500	m³/h
Sound power level, outdoor	L_{WA}	77.0	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan						
** If C_d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit.							

Table 14

Information requirements for heat pumps

Information to identify the model(s) to which the information relates to: PURY-RP250YJM-B							
Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Indication if the heater is equipped with a supplementary heater: no							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{\text{rated,h}}$	31.50	kW	Seasonal space heating energy efficiency	$\eta_{\text{s,h}}$	151.4	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = -7$ °C	P_{dh}	23.01	kW	$T_j = -7$ °C	COP_{d}	2.28	%
$T_j = +2$ °C	P_{dh}	16.96	kW	$T_j = +2$ °C	COP_{d}	3.28	%
$T_j = +7$ °C	P_{dh}	10.91	kW	$T_j = +7$ °C	COP_{d}	5.91	%
$T_j = +12$ °C	P_{dh}	5.87	kW	$T_j = +12$ °C	COP_{d}	9.38	%
$T_j =$ bivalent temperature	P_{dh}	25.71	kW	$T_j =$ bivalent temperature	COP_{d}	2.95	%
$T_j =$ operation limit	P_{dh}	15.35	kW	$T_j =$ operation limit	COP_{d}	2.00	%
For air-to-water heat pumps: $T_j = -15$ °C (if $T_{\text{OL}} < -20$ °C)	P_{dh}	-	kW	For water-to-air heat pumps: $T_j = -15$ °C (if $T_{\text{OL}} < -20$ °C)	COP_{d}	-	%
Bivalent temperature	T_{biv}	-5.2	°C	For water-to-air heat pumps: Operation limit T_{ol} temperature		-	°C
Degradation coefficient of heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.000	kW	Electric back-up heating capacity *	e_{elbu}	0.000	kW
Thermostat-off mode	P_{TO}	0.089	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.045	kW	Standby mode	P_{SB}	0.084	kW
Other items				For air-to-air heat pumps: Nominal air flow rate, outdoor measured			
Capacity control		variable				13500	m ³ /h
Sound power level, indoor / outdoor measured	L_{WA}	77.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m ³ /h
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit.							

Table 11

Information requirements for air-to-air air conditioners

Model(s): Information to identify the model(s) to which the information relates to: PURY-RP300YJM-B							
Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Type: compressor driven vapour compression							
if applicable: driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	33.50	kW	Seasonal space cooling efficiency	$\eta_{s,c}$	241.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = +35\text{ °C}$	P_{dc}	33.50	kW	$T_j = +35\text{ °C}$	EER_d	4.01	%
$T_j = +30\text{ °C}$	P_{dc}	24.70	kW	$T_j = +30\text{ °C}$	EER_d	4.28	%
$T_j = +25\text{ °C}$	P_{dc}	15.88	kW	$T_j = +25\text{ °C}$	EER_d	7.33	%
$T_j = +20\text{ °C}$	P_{dc}	11.25	kW	$T_j = +20\text{ °C}$	EER_d	13.20	%
Degradation efficient conditioners**	co-air C_d	0.25	-				
Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.000	kW	Standby mode	P_{SB}	0.084	kW
Thermostat-off mode	P_{TO}	0.090	kW				
Other items				For air-to-air air conditioner: Nominal air flow rate, outdoor measured			
Capacity control	variable					13500	m³/h
Sound power level, outdoor	L_{WA}	79.0	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh fuel input GCV				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66, Tebira 6 Chome, Wakayama-City 640-8686, Japan						
** If C_d is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25. Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit.							

Table 14

Information requirements for heat pumps

Information to identify the model(s) to which the information relates to: PURY-RP300YLM-B							
Outdoor heat exchanger of air conditioner: air							
Indoor heat exchanger of air conditioner: air							
Indication if the heater is equipped with a supplementary heater: no							
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	37.50	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	150.2	%
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = -7\text{ °C}$	P_{dh}	29.42	kW	$T_j = -7\text{ °C}$	COP_d	2.27	%
$T_j = +2\text{ °C}$	P_{dh}	20.21	kW	$T_j = +2\text{ °C}$	COP_d	3.27	%
$T_j = +7\text{ °C}$	P_{dh}	12.99	kW	$T_j = +7\text{ °C}$	COP_d	6.05	%
$T_j = +12\text{ °C}$	P_{dh}	7.45	kW	$T_j = +12\text{ °C}$	COP_d	8.84	%
$T_j =$ bivalent temperature	P_{dh}	31.80	kW	$T_j =$ bivalent temperature	COP_d	2.69	%
$T_j =$ operation limit	P_{dh}	19.93	kW	$T_j =$ operation limit	COP_d	1.87	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	P_{dh}	-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)	COP_d	-	%
Bivalent temperature	T_{biv}	-6.1	°C	For water-to-air heat pumps: Operation limit T_{ol} temperature		-	°C
Degradation coefficient of heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.000	kW	Electric back-up heating capacity *	$elbu$	0.000	kW
Thermostat-off mode	P_{TO}	0.090	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.045	kW	Standby mode	P_{SB}	0.084	kW
Other items				For air-to-air heat pumps: Nominal air flow rate, outdoor measured			
Capacity control	variable				13500	m ³ /h	
Sound power level, indoor / outdoor measured	L_{WA}	79.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	m ³ /h	
Emissions of nitrogen oxides (if applicable)	NO_x	-	mg/kWh				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
** If C_d is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25. Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit.							

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