

Information requirements for comfort chillers

Model(s): Information to identify the model(s) to which the information relates: EACV-P900YA(-N)(-BS), EACV-P900YAL(-N)(-BS), EACV-P900YAF(-N)(-BS)							
Outdoor side heat exchanger of chiller: air							
Indoor side heat exchanger chiller: water							
Type: compressor driven vapour compression							
if applicable: driver of compressor: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	90.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	192.0	%
Declared cooling capacity for part load at given outdoor temperatures T_j				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T_j			
$T_j = +35\text{ }^\circ\text{C}$	P_{dc}	90.0	kW	$T_j = +35\text{ }^\circ\text{C}$	EER_d	3.08	%
$T_j = +30\text{ }^\circ\text{C}$	P_{dc}	66.3	kW	$T_j = +30\text{ }^\circ\text{C}$	EER_d	4.34	%
$T_j = +25\text{ }^\circ\text{C}$	P_{dc}	45.0	kW	$T_j = +25\text{ }^\circ\text{C}$	EER_d	5.81	%
$T_j = +20\text{ }^\circ\text{C}$	P_{dc}	45.0	kW	$T_j = +20\text{ }^\circ\text{C}$	EER_d	7.08	%
Degradation coefficient for chillers(*)							
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Power consumption in modes other than 'active mode'				Crankcase heater mode			
Off mode	P_{OFF}	0.200	kW	Standby mode	P_{SB}	0.200	kW
Thermostat-off mode	P_{TO}	0.200	kW				
Other items				For air-to-water comfort chillers: air flow rate, - outdoor measured			
Capacity control	Variable					27720	m ³ /h
Sound power level, outdoor	L_{WA}	77.0	dB				
if engine driven: Emissions of nitrogen oxides	NO_x	-	mg/kWh input GCV				
GWP of the refrigerant		2088	kg CO _{2eq} (100years)				
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.							

Information requirements for high temperature process chillers

Information to identify the model(s) to which the information relates: EACV-P900YA(-N)(-BS), EACV-P900YAL(-N)(-BS), EACV-P900YAF(-N)(-BS)			
Type of condensing: air-cooled			
Refrigerant fluid(s):R410A			
Item	Symbol	Value	Unit
Operating temperature	t	7	°C
Seasonal energy performance ratio	SEPR	6.11	[-]
Annual electricity consumption	Q	108040	kWh/a
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P _A	90.00	kW
Rated power input	D _A	29.22	kW
Rated energy efficiency ratio	EER _{DC,A}	3.08	[-]
Parameters at rating point B			
Declared refrigeration capacity	P _B	84.00	kW
Declared power input	D _B	18.71	kW
Declared energy efficiency ratio	EER _{DC,B}	4.49	[-]
Parameters at rating point C			
Declared refrigeration capacity	P _C	78.00	kW
Declared power input	D _C	12.23	kW
Declared energy efficiency ratio	EER _{DC,C}	6.38	[-]
Parameters at rating point D			
Declared refrigeration capacity	P _D	72.00	kW
Declared power input	D _D	10.64	kW
Declared energy efficiency ratio	EER _{DC,D}	6.77	[-]
Other items			
Capacity control	Variable		
Degradation co-efficient chillers*	C _{dc}	0.9	[-]
GWP of the refrigerant		2088	kg CO _{2eq} (100years)
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan		
* If C _{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.			