

## Information requirements for comfort chillers

Model(s): Information to identify the model(s) to which the information relates: <b>EACV-P1800YB(L)(-N)(-BS)</b>							
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	$P_{rated,c}$	<b>177.76</b>	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	<b>180.2</b>	%
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 $T_j$			
$T_j = +35\text{ °C}$	$P_{dc}$	<b>177.76</b>	kW	$T_j = +35\text{ °C}$	$EER_d$	<b>2.90</b>	%
$T_j = +30\text{ °C}$	$P_{dc}$	<b>130.98</b>	kW	$T_j = +30\text{ °C}$	$EER_d$	<b>4.06</b>	%
$T_j = +25\text{ °C}$	$P_{dc}$	<b>84.20</b>	kW	$T_j = +25\text{ °C}$	$EER_d$	<b>5.45</b>	%
$T_j = +20\text{ °C}$	$P_{dc}$	<b>74.66</b>	kW	$T_j = +20\text{ °C}$	$EER_d$	<b>6.59</b>	%
Degradation coefficient for chillers(*)	co-efficient for $C_{dc}$	<b>0.9</b>	-				
Power consumption in modes other than 'active mode'							
Off mode	$P_{OFF}$	<b>0.102</b>	kW	Crankcase heater mode	$P_{CK}$	<b>0.335</b>	kW
Thermostat-off mode	$P_{TO}$	<b>0.239</b>	kW	Standby mode	$P_{SB}$	<b>0.335</b>	kW
Other items							
Capacity control	<b>Variable</b>			For air-to-water comfort chillers: air flow rate, outdoor measured	<b>63600</b>		$m^3/h$
Sound power level, outdoor if engine driven:	$L_{WA}$	<b>86</b>	dB				
Emissions of nitrogen oxides	$NOx$	-	mg/kWh input GCV				
GWP of the refrigerant	<b>2088</b>		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-P1800YB(L)(-N)(-BS)			
Type of condensing: air-cooled			
Refrigerant fluid(s):R410A			
Item	Symbol	Value	Unit
Operating temperature	t	<b>7</b>	°C
Seasonal energy performance ratio	SEPR	<b>6.31</b>	[-]
Annual electricity consumption	Q	<b>206786</b>	kWh/a
Parameters at full load and reference ambient temperature at rating point A			
Rated refrigeration capacity	P <sub>A</sub>	<b>177.76</b>	kW
Rated power input	D <sub>A</sub>	<b>61.25</b>	kW
Rated energy efficiency ratio	EER <sub>DC,A</sub>	<b>2.90</b>	[-]
Parameters at rating point B			
Declared refrigeration capacity	P <sub>B</sub>	<b>165.91</b>	kW
Declared power input	D <sub>B</sub>	<b>39.75</b>	kW
Declared energy efficiency ratio	EER <sub>DC,B</sub>	<b>4.17</b>	[-]
Parameters at rating point C			
Declared refrigeration capacity	P <sub>C</sub>	<b>154.06</b>	kW
Declared power input	D <sub>C</sub>	<b>25.47</b>	kW
Declared energy efficiency ratio	EER <sub>DC,C</sub>	<b>6.05</b>	[-]
Parameters at rating point D			
Declared refrigeration capacity	P <sub>D</sub>	<b>142.21</b>	kW
Declared power input	D <sub>D</sub>	<b>17.76</b>	kW
Declared energy efficiency ratio	EER <sub>DC,D</sub>	<b>8.01</b>	[-]
Other items			
Capacity control	<b>Variable</b>		
Degradation co-efficient chillers*	C <sub>dc</sub>	<b>0.9</b>	[-]
GWP of the refrigerant		<b>2088</b>	kg CO <sub>2eq</sub> (100years)
Contact details	MITSUBISHI ELECTRIC CORPORATION AIR-CONDITIONING & REFRIGERATION SYSTEMS WORKS 5-66,Tebira 6 Chome,Wakayama-City 640-8686,Japan		
* If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.			