

Information requirements for high temperature process chillers

Model: UC 4

Type of condensing: Air-cooled

Refrigerant fluid: R410A

Item	Symbol	Value	Unit
Operating temperature	t	7	°C
Seasonal energy performance ratio	SEPR	5,23	[-]
Annual electricity consumption	Q	5388	kWh/a

Parameters at full load and reference ambient temperature at rating point A

Rated refrigeration capacity	P <sub>A</sub>	3,80	kW
Rated power input	D <sub>A</sub>	1,58	kW
Rated energy efficiency ratio	EER <sub>DC,A</sub>	2,40	[-]

Parameters at rating point B

Rated refrigeration capacity	P <sub>B</sub>	3,55	kW
Rated power input	D <sub>B</sub>	1,00	kW
Rated energy efficiency ratio	EER <sub>DC,B</sub>	3,53	[-]

Parameters at rating point C

Rated refrigeration capacity	P <sub>C</sub>	3,29	kW
Rated power input	D <sub>C</sub>	0,68	kW
Rated energy efficiency ratio	EER <sub>DC,C</sub>	4,85	[-]

Parameters at rating point D

Rated refrigeration capacity	P <sub>D</sub>	3,04	kW
Rated power input	D <sub>D</sub>	0,45	kW
Rated energy efficiency ratio	EER <sub>DC,D</sub>	6,74	[-]

Other items

Capacity control	Variable		
Degradation co-efficient chillers	C <sub>dc</sub>	0,90	[-]
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq (100 years)
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