

Information requirements for high temperature process chillers

Model: UC 100

Type of condensing: Air-cooled

Refrigerant fluid: R410A

Item	Symbol	Value	Unit
Operating temperature	t	7	°C
Seasonal energy performance ratio	SEPR	6,20	[-]
Annual electricity consumption	Q	95538	kWh/a

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

Rated refrigeration capacity	P _A	80,00	kW
Rated power input	D _A	29,88	kW
Rated energy efficiency ratio	EER _{DC,A}	2,67	[-]

Parameters at rating point B

Rated refrigeration capacity	P _B	74,67	kW
Rated power input	D _B	19,35	kW
Rated energy efficiency ratio	EER _{DC,B}	3,85	[-]

Parameters at rating point C

Rated refrigeration capacity	P _C	69,33	kW
Rated power input	D _C	12,49	kW
Rated energy efficiency ratio	EER _{DC,C}	5,54	[-]

Parameters at rating point D

Rated refrigeration capacity	P _D	64,00	kW
Rated power input	D _D	7,29	kW
Rated energy efficiency ratio	EER _{DC,D}	8,76	[-]

Other items

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