

Information requirements for high temperature process chillers

Model: UC 8

Type of condensing: Air-cooled

Refrigerant fluid: R410A

Item	Symbol	Value	Unit
Operating temperature	t	7	°C
Seasonal energy performance ratio	SEPR	6,44	[-]
Annual electricity consumption	Q	9554	kWh/a

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

Rated refrigeration capacity	P_A	8,30	kW
Rated power input	D_A	3,39	kW
Rated energy efficiency ratio	$EER_{DC,A}$	2,44	[-]

Parameters at rating point B

Rated refrigeration capacity	P_B	7,75	kW
Rated power input	D_B	2,01	kW
Rated energy efficiency ratio	$EER_{DC,B}$	3,84	[-]

Parameters at rating point C

Rated refrigeration capacity	P_C	7,19	kW
Rated power input	D_C	1,18	kW
Rated energy efficiency ratio	$EER_{DC,C}$	6,08	[-]

Parameters at rating point D

Rated refrigeration capacity	P_D	6,64	kW
Rated power input	D_D	0,75	kW
Rated energy efficiency ratio	$EER_{DC,D}$	8,79	[-]

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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