

Information requirements for high temperature process chillers

Model: UC 14

Type of condensing: Air-cooled

Refrigerant fluid: R410A

Item	Symbol	Value	Unit
Operating temperature	t	7	°C
Seasonal energy performance ratio	SEPR	6,41	[-]
Annual electricity consumption	Q	15497	kWh/a

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

Rated refrigeration capacity	PA	13,40	kW
Rated power input	DA	5,15	kW
Rated energy efficiency ratio	EERDC,A	2,59	[-]

Parameters at rating point B

Rated refrigeration capacity	PB	12,51	kW
Rated power input	DB	3,35	kW
Rated energy efficiency ratio	EERDC,B	3,72	[-]

Parameters at rating point C

Rated refrigeration capacity	PC	11,61	kW
Rated power input	DC	2,09	kW
Rated energy efficiency ratio	EERDC,C	5,53	[-]

Parameters at rating point D

Rated refrigeration capacity	PD	10,72	kW
Rated power input	DD	1,09	kW
Rated energy efficiency ratio	EERDC,D	9,78	[-]

Other items

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