

Information requirements for high temperature process chillers

Model: UC 50

Type of condensing: Air-cooled

Refrigerant fluid: R410A

Item	Symbol	Value	Unit
Operating temperature	t	7	°C
Seasonal energy performance ratio	SEPR	5,37	[-]
Annual electricity consumption	Q	58317	kWh/a

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

Rated refrigeration capacity	PA	42,30	kW
Rated power input	DA	15,02	kW
Rated energy efficiency ratio	EERDC,A	2,80	[-]

Parameters at rating point B

Rated refrigeration capacity	PB	39,48	kW
Rated power input	DB	10,28	kW
Rated energy efficiency ratio	EERDC,B	3,82	[-]

Parameters at rating point C

Rated refrigeration capacity	PC	36,66	kW
Rated power input	DC	7,23	kW
Rated energy efficiency ratio	EERDC,C	5,05	[-]

Parameters at rating point D

Rated refrigeration capacity	PD	33,84	kW
Rated power input	DD	5,06	kW
Rated energy efficiency ratio	EERDC,D	6,65	[-]

Other items

Capacity control	Variable		
Degradation co-efficient chillers	Cdc	0,90	[-]
GWP of the refrigerant		2088	kg CO ₂ eq (100 years)
Contact details	LAUDA Ultracool S.L. - C/ Colom 606, 08228 Terrassa (Barcelona), España		