



Rittal LCP Calculation for energy-efficient IT climatisation



Rittal LCP T3+ EC (2 circuit), 3300.23X

costumer:	creation date:	2012-11-14
project:	created by:	
location:		

unit data

type:	Rittal LCP T3+ EC (2 circuit)	air volume:	5000 ml/h
width:	300 mm	server air out temperature:	41 °C
depth:	1000 mm	relative server air out humidity:	21 %
height above floor:	2200 mm	medium inlet temperature:	17 °C
weight:	215 kg	medium outlet temperature:	27,5 °C
voltage:	230/50 V/Hz	medium:	Glycol (~33%)
		total cooling capacity:	25 kW
		sensible cooling capacity:	25 kW

cooler data (full redundancy)

quantity:	1	
medium volumetric flow:	42 l/min (*)	
server air in temperature:	25 °C	
relative server air in humidity:	55 %	
total pressure drop:	0,81 bar (*)	
connection:	1 inch (OT)	
fill-quantity:	4 l (*)	(*) = per circuit

fan data

electric current:	4,6 A	max. electric current:	5,2 A
fan power, normal:	1050 W	fan power, maximum:	1200 W
max. sound power free field (1m):	64 dB(A)		