Technical data

ef cooling
Ernst H. Furrer AG
Hüttenwiesenstrasse 8
CH-8108 Dällikon

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info@efcooling.com
www.efcooling.com

Unit type: ***EVO 90 - WKW 770 FC*** **Serial number:** ***0770.001 / 29767***

Refrigeration data

Updated 07.06.2018 MILI

Cooling capacity			***92.4***	kW	at	(to / tc)	***03/56***	°C
Condensing capacity			***127.6***	kW				
Number of refrigeration circuits			***2***					
Refrigerant			***7.5 kg / R407c***					
Compressor		Quantity	***4***					
		Type	***ZR125KCE-TFD***					
		Power consumption	***9.28***	kW		total	***37.12***	kW
		Current consumption	***16.43***	A		total	***65.72***	A

Operating media

Medium to be cooled		***Propylenglykol***	***34% / 66%***					
Tank capacity		***intern***	***400 L***					

Hydraulic data (Producer circuit)

Pump	***Verdampferpumpe***	Type	***CM15-1 / Grundfos***						
		Quantity	***1***						
		Flow rate	***250***	l/min		at	***1.4***	bar	
		Max. delivery height	***1.8***	bar					
		Power consumption	***1***	kW		total	***1.2***	kW	
		Current consumption	***3***	A		total	***3***	A	
Pump	***RKK / FC - Pumpe***	Type	***CR20-2 / Grundfos***						
		Quantity	***1***						
		Flow rate	***350***	l/min		at	***2***	bar	
		Max. delivery height	***2.8***	bar					
		Power consumption	***2.2***	kW		total	***2.2***	kW	
		Current consumption	***4.45***	A		total	***4.45***	A	
Heat exchanger	***Verdampfer***	Type	***DV200Hx70/1P / SWEP***						
		Quantity	***1***						
		Flow rate	***250***	l/min	Pressure loss		***32.8***	kPa	
Heat exchanger	***Kondensator***	Type	***DB300Hx102/1P / SWEP***						
		Quantity	***1***						
		Flow rate	***350***	l/min	Pressure loss		***23.2***	kPa	
Heat exchanger	***Free-Cooling***	Type	***B439Hx70/1P / SWEP***						
		Quantity	***1***						
		Flow rate	***256 / 255***	l/min	Pressure loss		***51/48***	kPa	
Re-cooler	***extern / Thermofin***	Type	***X-TDH.3-091-12***						
		Airflow	***54000***	m^3/h					
		Quantity of fans	***2***	Type					
		Power consumption	***2.95***	kW		total	***5.9***	kW	
		Current consumption	***4.6***	A		total	***9.2***	A	

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Hydraulic data (consumer circuit)

Pump	***Verbraucherpumpe***	Type	***CM 10-5 / Grundfos***							
		Quantity	***2***							
		Flow rate	***120***	l/min			at	***7***	bar	
		Max. delivery height	***8***	bar						
		Power consumption	***4***	kW			total		***8***	kW
		Current consumption	***8***	A			total		***16***	A

Control

High pressure control	Typ	***efcooltronic***	Set	***40***	°C	P-Band	***10***	K	
Temperature control	Typ	***efcooltronic***	Set	***6***	°C	P-Band	***1***	K	

Safety device

High pressure monitoring	Typ	***efcooltronic***	OFF	***26***	bar	ON	***man***	bar	
High pressure safety switch	Typ	***PS3W6S***	OFF	***27***	bar	ON	***man***	bar	
Low pressure monitoring	Typ	***efcooltronic***	OFF	***1***	bar	ON	***man***	bar	
Antifreeze monitoring	Typ	***efcooltronic***	OFF	***-18***	°C	ON	***-15***	°C	
Flow switch	Typ	***DBSF-1K-PL***	OFF	***60***	l/min	ON	***man***	l/min	

Limitation of use (consumer circuit)

Cooling circuit	***Verbraucherpumpe***	from	***5***	°C	to	***7***	°C	
Cooling circuit	***RKK Sommer***	from	***46***	°C	to	***40***	°C	
Cooling circuit	***RKK Winter***	from	***10***	°C	to	***4***	°C	

Limitation of use (refrigeration circuit)

Ambient temperature		from	***-10***	°C	to	***45***	°C	
Evaporating temperature		from	***-5***	°C	to	***15***	°C	
Condensing temperature		from	***35***	°C	to	***60***	°C	
max. operation pressure (PS)			***28***	bar			PED category	**II**

Electrical data

Power supply	Voltage	***3 * 400***	V		Fuse:	***125***	A
	Frequency	***50***	Hz		Starting current:	***200***	A
	Contol	***24***	Vdc				
Total power consumption	$P_{Operation}$	***54.42***	kW		P_{MAX}	***62.1***	kW
Total curent consumption	$I_{Operation}$	***98.37***	A		I_{MAX}	***108.7***	A

Dimensions

Weight	***1700***	kg
Length	***2000***	mm
Width	***1300***	mm
Height	***2000***	mm

Circuit joints

Circuit	***Verbraucherpumpe***	Forward	***2 x 1 1/2"***
		Return	***2 x 1 1/2"***
Circuit		Forward	***DN 50 / 2"***
		Return	***DN 50 / 2"***

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