

Capacity	kW	211.040	----- sensible:	152.633
Surface reserve	%	3.639	latent:	58.406
Present surface	m2	652.622	frost:	0.000
Required surface	m2	629.706	0.5 % Oil ISO VG32	
k-coeff.	W/m2K	34.111		
Average temp. diff. (100.00 %)	K	9.825		



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Plant

Object

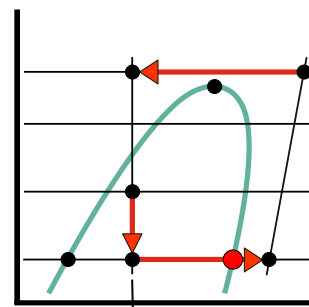
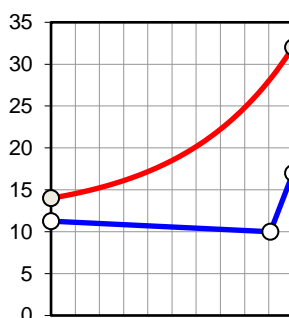
Position

Air humid (ff=0.00005 m2K/W)

Height over sea level	m			0.000
Pressure	hPa			1013.250
Temp.	°C	32.000	14.000	20.000
Rel. humidity	%	40.000	91.527	40.000
Abs. humidity	g/kg	11.860	9.105	5.784
Density humid	kg/m3	1.148	1.222	1.200
Enthalpy humid	kJ/kg	62.569	37.091	34.805
Volume flow humid	m3/h	26275.113	24617.842	25000.000
Mass flow dry	kg/h	29819.521	29819.521	29819.521
Condensate flow	kg/h		82.150	
Surface temperature	°C	14.001	11.677	
Velocity	m/s	1.975	1.850	
Pressure drop (dry 38 Pa)	Pa		41.948	

R744 (CO2) Evaporation 45.022 bar (ff=0.00005 m2K/W)

Cooler: Pressure supercritical	bar	90.000
Cooler: Inlet	°C	130.000
Cooler: Outlet	°C	30.000
Evaporation	°C	10.000
Superheating	°C	17.000
Mass flow	kg/h	4721.954
Volume flow	m3/h	34.950
Velocity	m/s	5.829
Pressure drop Evaporation (1.25 K)	bar	1.390
Pressure drop Capillary	bar	2.913

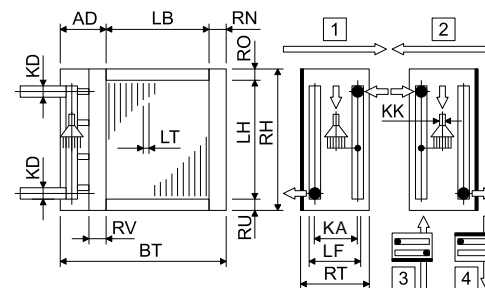


Part of steam on the inject point 25.65 %

Technical data

Tubes total	Piece	384
Tubes blank	Piece	0
Tube rows on the depth	Piece	8
Tube rows on the height	Piece	48
Tube coupling in series	Piece	16
Number of circuits (NC)	Piece	24
Volume	l	67
Weight	kg	605
Cond. connection	KK mm	35
Steam connection	KD mm	64
Frame height	RH mm	1760
Frame width	BT mm	2388
Frame depth	RT mm	340
Finned height	LH mm	1680
Finned width	LB mm	2200
Finned depth	LF mm	280
Frame on top	RO mm	40
Frame on bottom	RU mm	40
Frame in front	RV mm	30
Frame on back (~53mm)	RN mm	53
Collector covering	AD mm	135
Collector distance	KA mm	245
Fin spacing	LT mm	3.000
Fin thickness	LD mm	0.200
Tube diameter	DA mm	12.400
Tube thickness	S mm	1.500
Tube interval on the height	S1 mm	35.000
Tube interval on the depth	S2 mm	35.000

Tubes:	Cu
Tubes:	smooth
Tubes:	in line
Collectors:	Cu
Connections:	Cu
Fins:	Al
Fins:	smooth
Frame:	2.0 mm AlMg3
Circulations:	1 Default
Capillary:	6.00 x 1.00 x 1880.00 mm
Protection:	without
Protection:	---
Air flow direction:	horizontal



Delivery:	5-6 weeks
Validity:	12 weeks
Condit.:	net, prepaid address
Payment:	30 days net
Price net:	EUR 9372.00

Capacity	kW	365.918
Surface reserve	%	2.804
Present surface	m2	652.622
Required surface	m2	634.823
k-coeff.	W/m2K	30.191
Average temp. diff.	K	19.092



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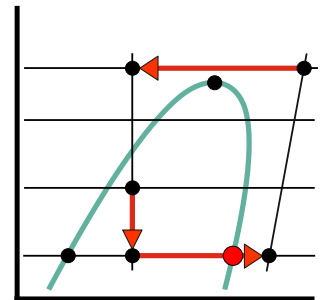
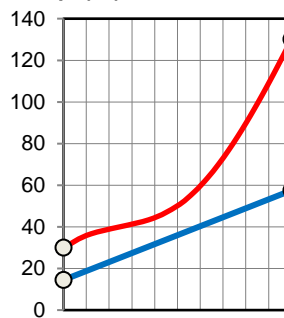
Plant
Object
Position

Air humid (ff=0.00005 m2K/W)		Inlet	Outlet	Definition
Height over sea level	m			0.000
Pressure	hPa			1013.250
Temp. (20.000)	°C	14.469	57.500	20.000
Rel. humidity (55.000)	%	100.000	9.328	40.000
Abs. humidity (7.981)	g/kg	10.273	10.273	5.784
Density humid	kg/m3	1.219	1.061	1.200
Enthalpy humid	kJ/kg	40.523	84.698	14.463
Volume flow humid	m3/h	24703.666	28399.476	25000.000
Mass flow dry	kg/h	29819.521	29819.521	29819.521
Velocity	m/s	1.857	2.134	
Pressure drop	Pa		39.566	
Moistening temperature	°C	15.000		

Carbon dioxide R744 (CO2) supercritical (ff=0.00005 m2K/W)

Pressure	bar	90.000
Inlet	°C	130.000
Outlet	°C	30.000
Mass flow	kg/h	4775.436
Density in	kg/m3	140.310
Density out	kg/m3	744.310
Volume flow in	m3/h	34.035
Volume flow out	m3/h	6.416
Velocity in	m/s	5.676
Velocity out	m/s	1.070
Pressure drop	bar	0.803

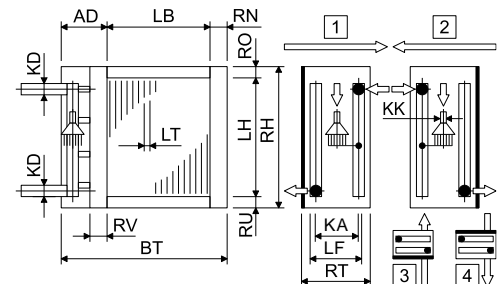
Temp. (°C)



Technical data

Tubes total	Piece	384
Tubes blank	Piece	0
Tube rows on the depth	Piece	8
Tube rows on the height	Piece	48
Tube coupling in series	Piece	16
Number of circuits (NC)	Piece	24
Volume	l	67
Weight	kg	605
Connections in	KD	---
Connections out	KD	---
Frame height	RH	mm 1760
Frame width	BT	mm 2388
Frame depth	RT	mm 340
Finned height	LH	mm 1680
Finned width	LB	mm 2200
Finned depth	LF	mm 280
Frame on top	RO	mm 40
Frame on bottom	RU	mm 40
Frame in front	RV	mm 30
Frame on back (~53mm)	RN	mm 53
Collector covering	AD	mm 53
Collector distance	KA	mm 245
Fin spacing	LT	mm 3.000
Fin thickness	LD	mm 0.200
Tube diameter	DA	mm 12.400
Tube thickness	S	mm 1.500
Tube interval on the height	S1	mm 35.000
Tube interval on the depth	S2	mm 35.000

Tubes:	Cu
Tubes:	smooth
Tubes:	in line
Collectors:	Cu
Connections:	Cu
Fins:	Al
Fins:	smooth
Frame:	2.00 mm AlMg3
Circulations:	1 Default
Protection:	without
Protection:	---
Air flow direction:	horizontal



Delivery:	5-6 weeks
Validity:	12 weeks
Condit.:	net, prepaid address
Payment:	30 days net
Price net:	EUR 9372.00