

Capacity	kW	182.080	----- sensible:	151.582
Surface reserve	%	0.745	latent:	29.687
Present surface	m2	2206.150	frost:	0.812
Required surface	m2	2189.827		
k-coeff.	W/m2K	25.753		
Average temp. diff.	K	3.229		



Company
Branch
Street
Country / ZIP / City

Phone: xxxxxxxxxx
Fax: xxxxxxxxxx
E-Mail
Homepage

City, 09.04.2021
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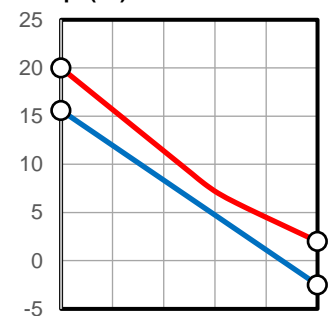
Representative
Direct dialing
xxxxxxxxxx

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.	°C	20.000	2.000	20.000
Rel. humidity	%	40.000	99.724	40.000
Abs. humidity	g/kg	5.784	4.361	5.784
Density humid	kg/m3	1.200	1.279	1.200
Enthalpy humid	kJ/kg	34.805	12.933	34.805
Volume flow humid	m3/h	25000.000	23411.834	25000.000
Mass flow dry	kg/h	29819.521	29819.521	29819.521
Condensate flow	kg/h		35.575	
Surface temperature	°C	17.379	-0.680	
Velocity	m/s	1.984	1.858	1.984
Pressure drop (dry 143 Pa)	Pa		145.382	

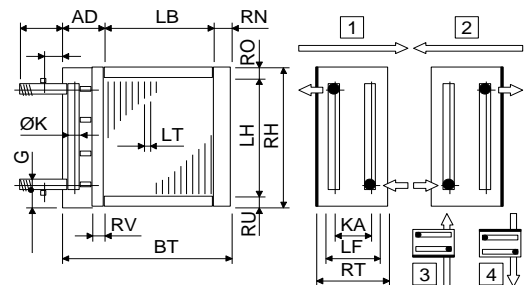
25 V% Et.glycol (ff=0.00005 m2K/W)		Inlet	Outlet	Selection
Temp.	°C	-2.500	15.600	1.573
Density	kg/m3	1044.521	1039.177	1043.458
Spec. heat	kJ/kgK	3.673	3.720	3.684
Heat cond.	W/mK	0.444	0.469	0.450
Viscosity	Pas	3.812E-03	2.112E-03	3.285E-03
Volume flow	m3/h	9.407	9.455	9.416
Velocity	m/s	0.989	0.994	0.990
Reynolds	---	3143.193	5672.994	3647.393
Pressure drop	kPa		198.885	

Temp. (°C)



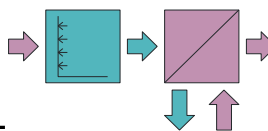
Technical data

Tubes total	Piece	1200	Tubes:	Cu
Tubes blank	Piece	0	Tubes:	smooth
Int. vent./drains	Piece	11	Tubes:	in line
Tube rows on the depth	Piece	24	Tubes:	circular
Tube rows on the height	Piece	50	Collectors:	1.28 m/s Cu
Tube coupling in series	Piece	48	Connections:	1.28 m/s Rg7
Number of circuits (NC)	Piece	25	Fins:	Al
Volume	l	275	Fins:	smooth
Weight	kg	955	Frame:	2.00 mm AlMg3
Connections	G	---	Circulations:	1 Default
Frame height	RH	mm 1830	Protection:	without
Frame width	BT	mm 2196	Protection:	---
Frame depth	RT	mm 900	Air flow direction:	horizontal
Finned height	LH	mm 1750		
Finned width	LB	mm 2000		
Finned depth	LF	mm 840		
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-Diameter	K	mm 54		
Collector covering	AD	mm 143		
Collector distance	KA	mm 822		
Fin spacing	LT	mm 2.500		
Fin thickness	LD	mm 0.200		
Tube diameter	DA	mm 12.400	Delivery:	5-6 weeks
Tube diameter	da	mm 12.400	Validity:	12 weeks
Tube thickness	S	mm 0.400	Condit.:	net, prepaid address
Tube interval on the height	S1	mm 35.000	Payment:	30 days net
Tube interval on the depth	S2	mm 35.000	Price net:	EUR 14152.00





Capacity	kW	182.063	----- sensible:	182.063
Surface reserve	%	1.405	latent:	0.000
Present surface	m2	2206.150		
Required surface	m2	2175.589		
k-coeff.	W/m2K	25.824		
Average temp. diff.	K	3.241		



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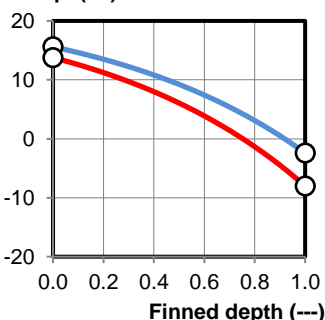
Plant
Object
Position

Air humid (ff=0.00005 m2K/W)		Inlet	Outlet	Definition
Height over sea level	m			0.000
Pressure	hPa			1013.250
Temp.	°C	-8.000	13.776	20.000
Rel. humidity	%	90.000	17.627	40.000
Abs. humidity	g/kg	1.708	1.708	5.784
Density humid	kg/m3	1.330	1.229	1.200
Enthalpy humid	kJ/kg	-3.803	18.177	34.805
Volume flow humid	m3/h	22465.466	24310.386	25000.000
Mass flow dry	kg/h	29819.521	29819.521	29819.521
Velocity	m/s	1.783	1.929	1.984
Pressure drop dry	Pa		129.408	
Pressure drop wet	Pa		129.408	
Evaporation total	kg/h		0.000	(15.000 °C)

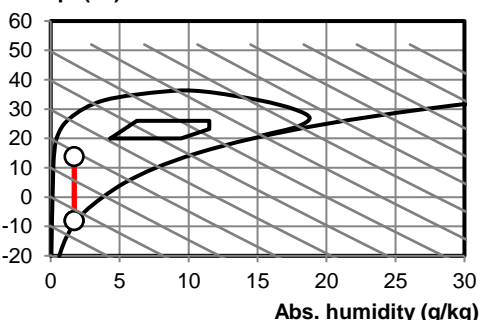
25 V% Et.glycol (ff=0.00005 m2K/W)

Temp. in	°C	15.600
Temp. out	°C	-2.400
Density	kg/m3	1042.034
Spec. heat	kJ/kgK	3.697
Heat cond.	W/mK	0.457
Viscosity	Pas	2.772E-03
Volume flow	m3/h	9.453
Velocity	m/s	0.994
Pressure drop	kPa	196.681

Temp. (°C)

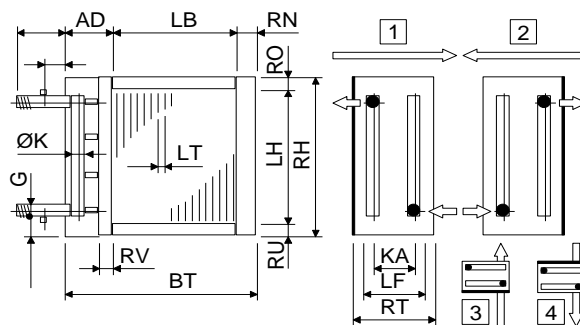


Temp. (°C)



Technical data

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Tube interval on the height	S1	mm 35.000		
Tube interval on the depth	S2	mm 35.000		



Delivery: 5-6 weeks
Validity: 12 weeks
Condit.: net, prepaid address
Payment: 30 days net
Price net: 0 EUR 14152.00