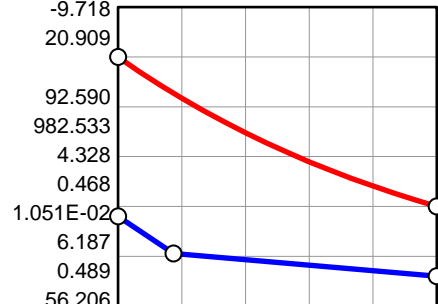
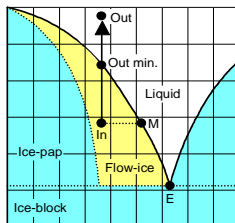


**Flow ice: 40/35/15-16R-42T-2000A-3.0PA-21C-Cu/Al/AlMg3** Software by www.zcs.ch

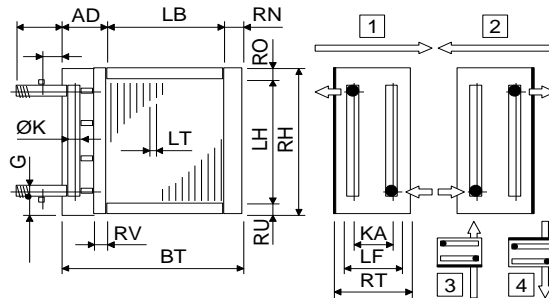
Capacity	kW	156.350	----- sensible:	123.577
Surface reserve	%	9.017	latent:	28.696
Present surface	m2	1135.329	frost:	4.076
Required surface	m2	1041.427		
k-coeff.	W/m2K	12.721	----- ffi:	5.000E-05
Average temp. diff.	K	11.802	ffa:	5.000E-05

Air humid		Inlet	Outlet	Definition
Height over sea level	m			450.000
Pressure	hPa			960.075
Temp.	°C	10.000	-5.000	10.000
Rel. humidity	%	50.000	100.000	50.000
Abs. humidity	g/kg	4.004	2.605	4.004
Density humid	kg/m3	1.178	1.245	1.178
Enthalpy humid	kJ/kg	20.147	1.461	20.147
Volume flow humid	m3/h	25000.000	23622.806	25000.000
Mass flow dry	kg/h	29335.598	29335.598	29335.598
Condensate flow	kg/h		41.013	
Surface temperature	°C	6.127	-6.694	
Velocity	m/s	2.067	1.953	
Pressure drop (dry 185 Pa)	Pa		197.883	

Flow-ice C2H5(OH)		Inlet	Outlet	Process
Temp.	°C	-12.000	-6.000	-9.718
Agent content	M.-%	16.727	16.727	20.909
Ice crystals	M.-%	20.000	0.000	
Enthalpy difference	kJ/kgK			92.590
Density	kg/m3			982.533
Spec. heat	kJ/kgK			4.328
Heat cond.	W/mK			0.468
Viscosity	Pas			1.051E-02
Volume flow	m3/h			6.187
Velocity	m/s			0.489
Pressure drop	kPa			56.206

**Technical data**

Tubes total	Piece	672	Tubes:	smooth	Cu
Tubes blank	Piece	0		staggered	
Internal venting	Piece	0	Collectors:	0.84 m/s	Cu
Internal drains	Piece	0	Connections:	0.84 m/s	Rg7
Tube rows on the depth	Piece	16	Fins:	smooth	Al
Tube rows on the height	Piece	42	Frame:	2.00 mm	AlMg3
Tube coupling in series	Piece	32	Circulations:	1	Default
Number of circuits (NC)	Piece	21	Caution!	Fin spacing 2x3.0 + 10x3.0 mm	
Volume	l	244		Frost thickness 0.228 mm	
Weight	kg	660	El. heat rods:	---	
Connections	G	2"	Air flow direction:	horizontal	
Frame height	RH	mm	Special:	Bottom plate perforated for perfect condensate drain	
Frame width	BT	mm			
Frame depth	RT	mm			
Finned height	LH	mm			
Finned width	LB	mm			
Finned depth	LF	mm			
Frame on top	RO	mm			
Frame on bottom	RU	mm			
Frame in front	RV	mm			
Frame on back (~50mm)	RN	mm			
Collector-Diameter	K	mm			
Collector covering	AD	mm			
Collector distance	KA	mm			
Fin spacing	LT	mm			
Fin thickness	LD	mm			
Tube diameter	DA	mm			
Tube thickness	S	mm			
Tube interval on the height	S1	mm			
Tube interval on the depth	S2	mm			



Delivery:	5-6 weeks
Validity:	12 weeks
Condit.:	net, prepaid address
Payment:	30 days net
Price net: Non el. rods	EUR 8183.00