



delair[®]



Your benefits with RFB desiccant ambient air dryers

Eco-switch saves energy costs

Functional control for easy operation

Use of high quality parts results in lower maintenance needs

Big sized desiccant bed for high operational reliability

Desiccant drying system ensures high performance, even at low temperatures

Standard specification

Medium	: Ambient air, atmospheric
Drying system	: Adsorption in desiccant bed, rotating stepwise
Regeneration system	: Continuously, electric
Housing	: Steel
Colour, finish	: RAL 9001 (cream white), powder coated
Execution	: Indoor location, acc. CE
Eco control	: Economy switch, up to 20% lower energy use
Humidity control	: Hygrostat, wall mounted
Operating hour counter	: Built-in for RFB-250/500/1000
Power Supply	: 230V, 1 ph., 50 Hz for RFB-100/250 : 400V, 3 ph., 50 Hz for RFB-500/1000
Air connections	: 4 round connections incl. 2 air dampers : Flexible hoses (optional)
Filters	: Class G 2/3 filter for process and regeneration air inlet

Applications

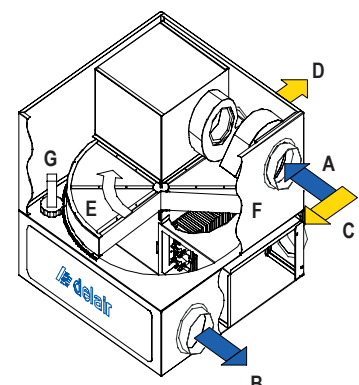
<input type="checkbox"/> Waterworks	<input type="checkbox"/> Pneumatic conveyer systems
<input type="checkbox"/> High voltage areas	<input type="checkbox"/> Silo filter sections
<input type="checkbox"/> Aircraft shelters	<input type="checkbox"/> Packing of hygroscopic food or pharmaceutical products
<input type="checkbox"/> Seed storage	<input type="checkbox"/> Powderised food drying systems
<input type="checkbox"/> Sugar storage	<input type="checkbox"/> Conservation of valuable products and/or equipment

Standard operating conditions

	min.	max.
Ambient temperature	-15°C	+40°C
Relative humidity	-	100%

Characteristics

Range	: 100 - 1.000 m ³
Principle	: stepwise rotating desiccant bed
Drying cycle	: 3,33 rev/h for RFB/100 and 1,33 rev/h for RFB 250/500/1000
Air velocity	: 0,4 m/s



- A Process air inlet
- B Process air outlet
- C Regeneration air inlet
- D Regeneration air outlet
- E Rotating desiccant bed
- F Regeneration air heater
- G Desiccant bed drive

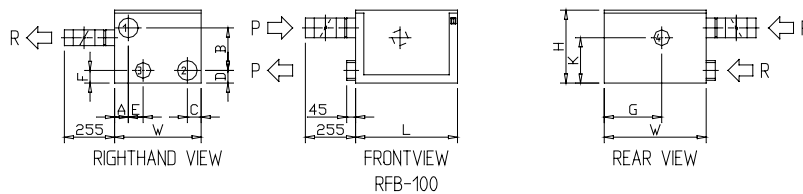
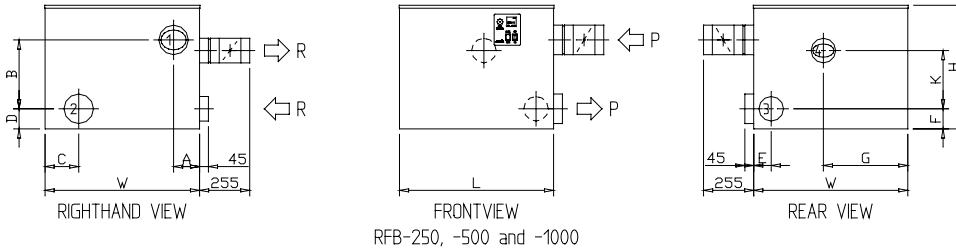
Technical data RFB desiccant ambient air dryers

Technical data

Model	Airflow		Stat.press.		Drying Capacity ¹⁾	Sound level ²⁾	Dimensions			Weight	In- and outlet		El. power		Desiccant quantity
	Process	Regen.	Process	Regen.			A	B	C		Pro-cess	Regen.	ECO	max.	
	m³/h	m³/h	Pa	Pa			kg/h	dB(A)	mm		mm	mm	kg	mm ø	
RFB 100	100	35	50	50	0,65	< 55	440	518	370	25	100	80	1,19	1,19	2,3
RFB 250	250	85	100	50	1,90	< 57	787	787	634	85	150	125	2,72	3,54	16
RFB 500	500	165	100	50	3,80	< 57	787	787	634	95	150	125	4,74	6,32	21
RFB 1000	1.000	335	100	50	7,60	< 60	1.169	1.169	823	150	250	150	9,96	12,86	50

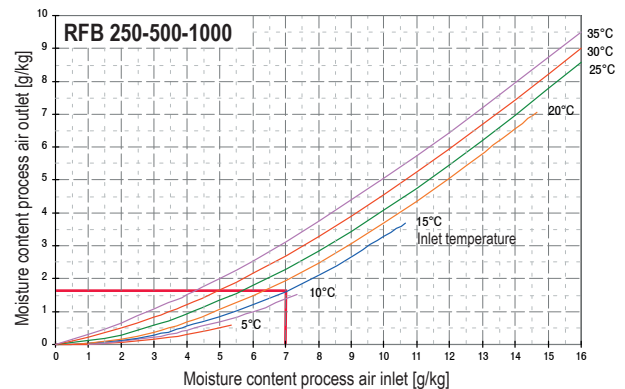
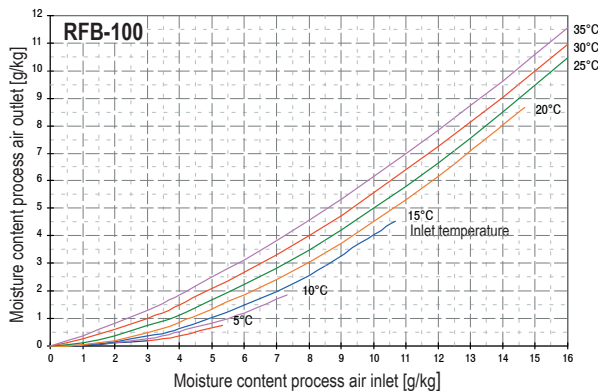
1) Inlet conditions : ambient temperature 20°C, relative humidity 70%

2) Measured L-equivalent at 1 m distance (free field)



Dimensions in mm								
	A	B	C	D	E	F	G	K
RFB-100	70	218	70	70	75	70	292	236
RFB-250	132	395	171	108	86	108	429	294
RFB-500	132	395	171	108	86	108	429	294
RFB-1000	137	378	292	240	102	201	639	334

Performance diagram



For more detailed selection information, please contact your nearest Delair location or the head office.

Selection example

Inlet: 15°C, 65% R.H. Δ 6.9 g/kg

Outlet: approx. 1.6 g/kg
this represents an efficiency of approx. 77%

Permanent improvement and research may cause changes in specifications without prior notice

DS-RFB-1203-EN

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