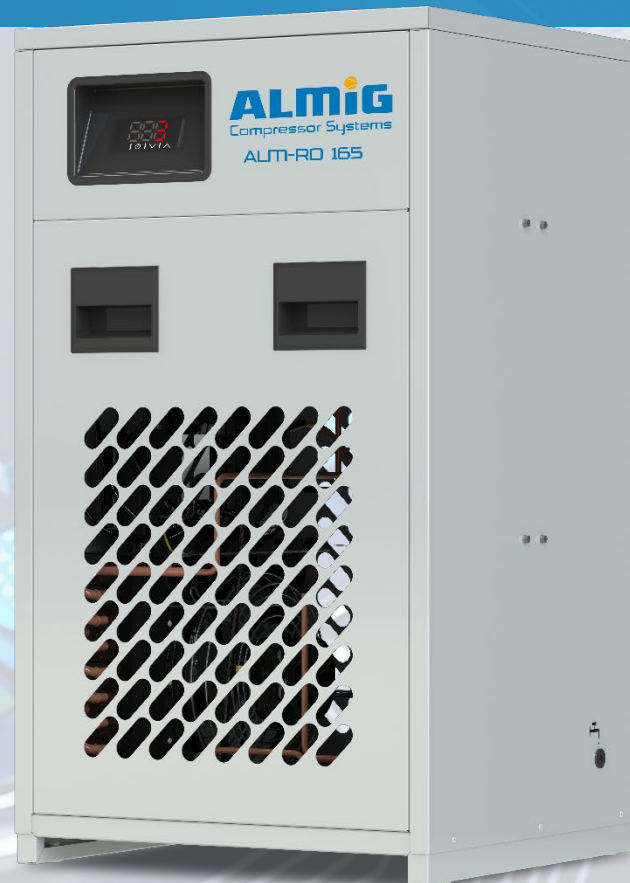


# Refrigerant dryer

ALM RD 25 – 13300

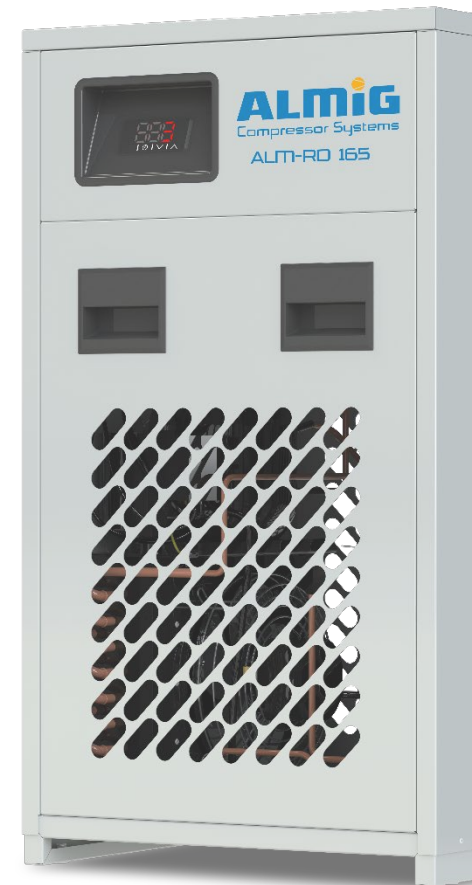
Removal of moisture from compressed air



Refrigerant dryer ALM-RD

# Content

- **Advantages**
- **Overview ALM-RD**
- **Function**
- **Technical Data**
- **Warranty**

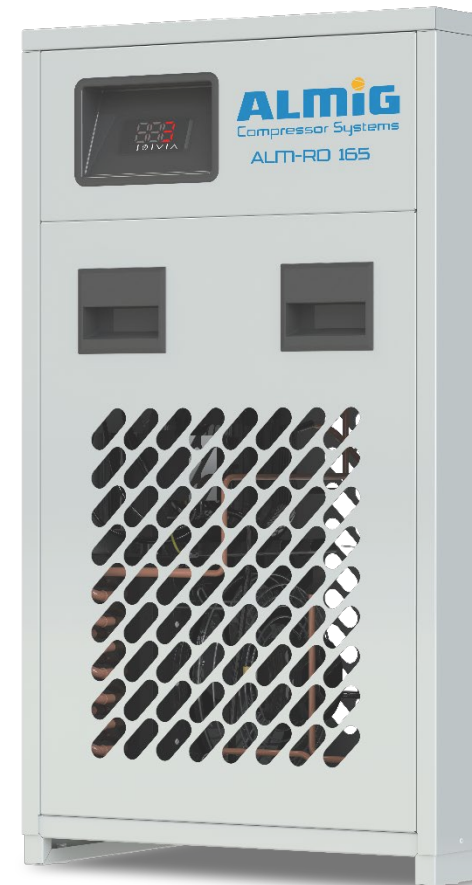


# Advantages ALM-RD

## Refrigerant dryer ALM-RD

# Advantages

- **Compact Design**
- **Easy to access to all installed components**  
(Screw free connectors and plastic handles on the panels allow to access the refrigerant components in a few seconds)
- **Integrated Filters**  
(Including alarm for filter change)
- **Reliable Performance**
- **High cost savings due to a state-of-the-art heat exchanger design**



# Overview ALM-RD

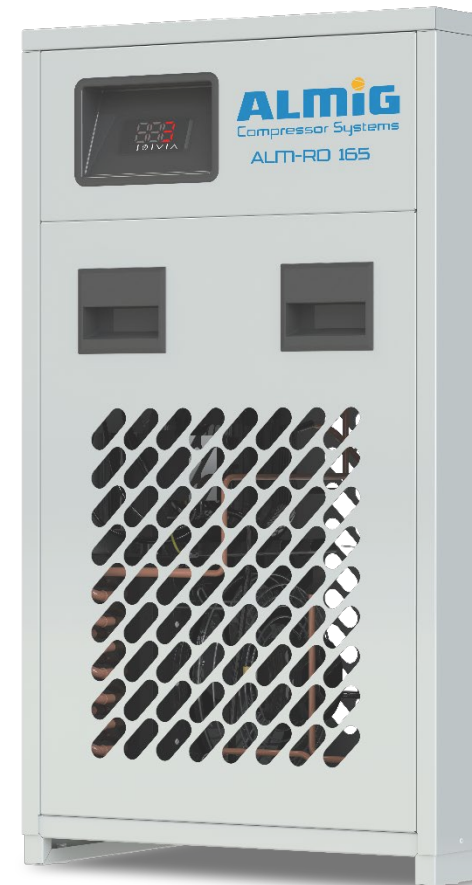
## Refrigerant dryer ALM-RD

# Overview

**Pressure dew point:** + 3 °C

**Operating pressure:** 16 bar

**Desiccant:** R134a



## Refrigerant dryer ALM-RD

# Overview

<b>RD-25</b>	<b>RD-200</b>	<b>RD-990</b>	<b>RD-3540</b>	
<b>RD-40</b>	<b>RD-225</b>	<b>RD-1280</b>	<b>RD-4160</b>	<b>RD-9580</b>
<b>RD-56</b>	<b>RD-325</b>	<b>RD-1480</b>	<b>RD-5400</b>	<b>RD-11200</b>
<b>RD-75</b>	<b>RD-400</b>	<b>RD-1920</b>	<b>RD-6200</b>	<b>RD-13300</b>
<b>RD-110</b>	<b>RD-525</b>	<b>RD-2660</b>	<b>RD-7420</b>	
<b>RD-165</b>	<b>RD-660</b>	<b>RD-2950</b>	<b>RD-8380</b>	

23 m<sup>3</sup>/h

**Volume flow**

12500 m<sup>3</sup>/h

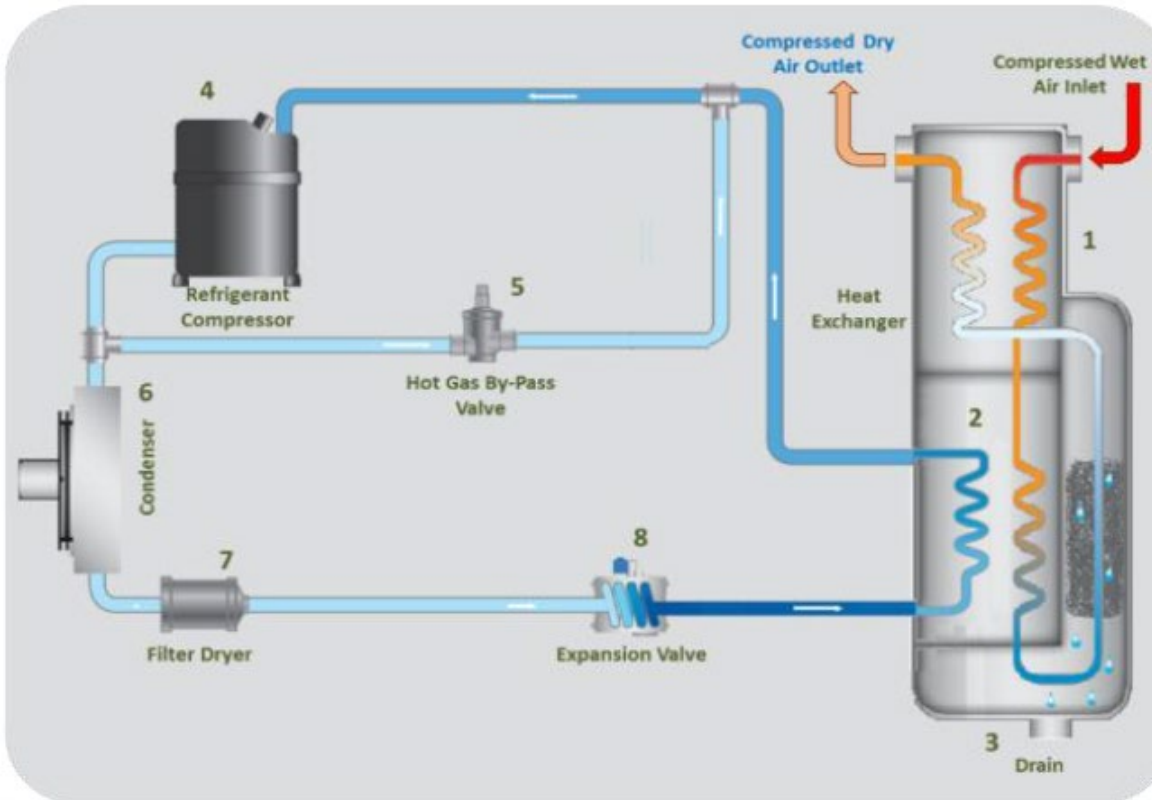
# Function



# Refrigerant dryer ALM-RD

# Function

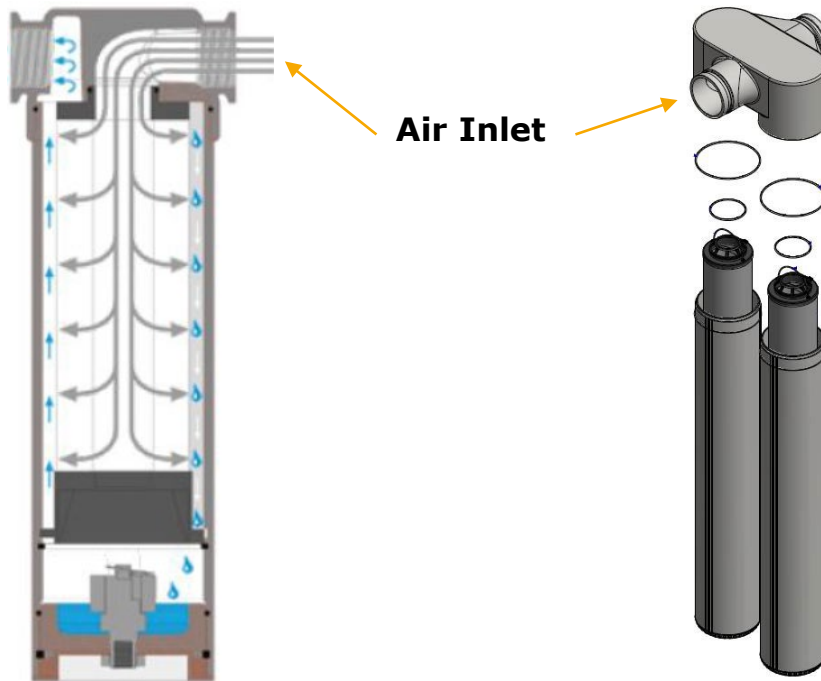
## The Air Circuit (in the Heat Exchanger)



1. Compressed air enters the air-to-air heat exchanger
2. In the air-refrigerant heat exchanger, the air is cooled by the refrigerant to the required dew point. The water vapour condenses into water droplets.
3. The integrated water separator directs the resulting condensate out of the system through a condensate drain

# Refrigerant dryer ALM-RD

# Function



## **The Air Circuit** **(*after* the Heat Exchanger)**

Each refrigeration dryer has two integrated filters.

The integrated filters are used to remove oil and water from the compressed air.

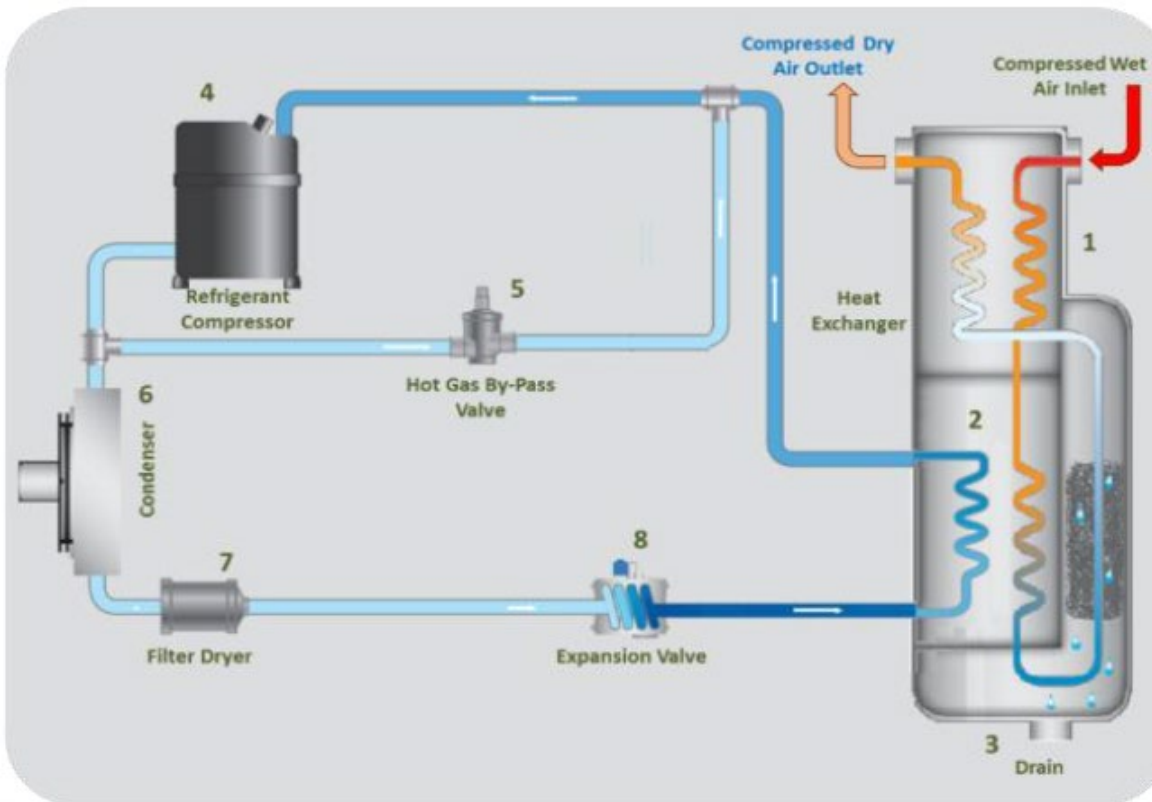
After filtration, the compressed air is fed into the pipeline.

No extra filtration is necessary.

# Refrigerant dryer ALM-RD

# Function

## The Refrigerant Circuit



4. The refrigerant compressor will compress the refrigerant to a higher pressure.
5. The hot gas bypass valve prevents the dryer from freezing when the load is too low.
6. The refrigerant condenser cools the gaseous refrigerant so that it liquefies again.
7. The refrigerant filter protects the expansion valve from damaging particles
8. The thermostatic expansion valve is used to increase the pressure and further cool the refrigerant.

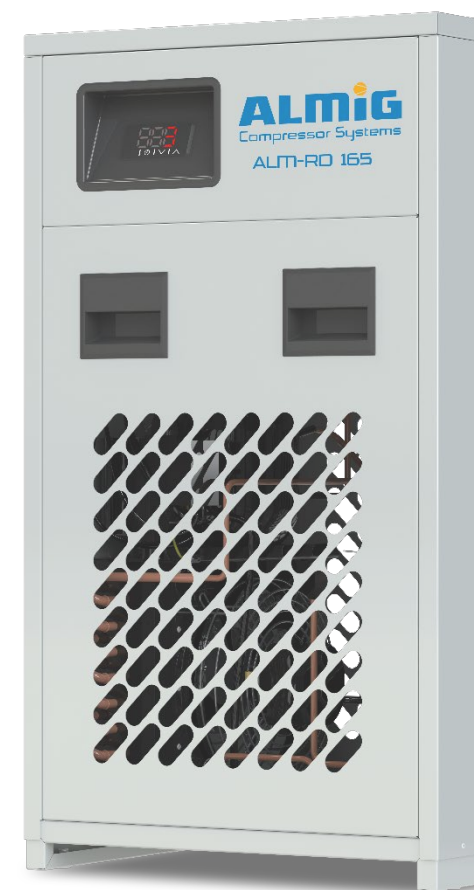
# Technical Data

# Refrigerant dryer ALM-RD

# Technical Data

## Refrigeration dryer ALM-RD

Type	Max. Volume flow*	Cooling air requirement	Compressed air connection	Power consumption**	Length	Width	Height	Weight
	m³/h	m³/h		kW	mm	mm	mm	kg
25	23	180	1/2"	0,34	372	369	707	32
40	38	180	1/2"	0,34	372	369	707	32
56	53	180	1/2"	0,37	372	369	707	32
75	70	180	1/2"	0,38	372	369	707	32
110	100	180	3/4"	0,39	473	454	832	51
165	155	700	3/4"	0,59	473	453	832	53
200	190	700	3/4"	0,68	473	453	832	55
225	210	700	1 1/2"	0,82	556	506	874	78
325	305	700	1 1/2"	1,07	556	506	874	83
400	375	700	1 1/2"	1,19	556	506	874	86
525	495	1100	2"	1,23	678	648	1157	160
660	623	1100	2"	1,32	678	648	1157	165
990	930	1350	2"	2,01	948	728	1370	220
1280	1200	1350	2"	2,59	948	728	1370	230
1480	1388	2800	3"	2,80	948	798	1460	270
1920	1800	2800	3"	3,21	948	798	1460	285
2660	2500	5000	3"	4,10	1163	778	1725	392
2950	2775	5000	3"	4,74	1163	778	1725	410
3540	3300	7000	DN100 Flange	5,74	1577	993	1906	690
4160	3915	7000	DN100 Flange	6,50	1577	993	1906	710
5400	5085	8500	DN100 Flange	8,25	1647	1077	2005	825
6220	5850	8500	DN100 Flange	9,55	1647	993	1959	835
7420	6975	8500	DN150 Flange	11,95	2188	1062	2024	900
8380	7875	12750	DN150 Flange	12,88	2188	1062	2024	925
9580	9000	12750	DN150 Flange	15,40	2247	1200	2043	975
11200	10500	12750	DN200 Flange	15,53	2247	1200	2043	1100
13300	12500	25500	DN200 Flange	20,70	2550	1550	2100	1400



# Warranty

## Warranty

# AirCare

**Certified warranty, covered by ALMiG**

**ALMiG AirCare** offers you a free 5-year warranty extension.

- The use of ALMiG original parts protects your investment.
  - Best service by authorized partners
  - Full warranty for:
    - ALMiG Compressors
- +**
- ALMiG Heat recovery modules
  - ALMiG Refrigerant Dryer
  - ALMiG Adsorption dryer
  - ALMiG Oil-water separator
  - ALMiG Condensate drain
  - ALMiG Filter



# THANK YOU FOR YOUR ATTENTION!

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