

ARIA COMPRESSA P.E.D.

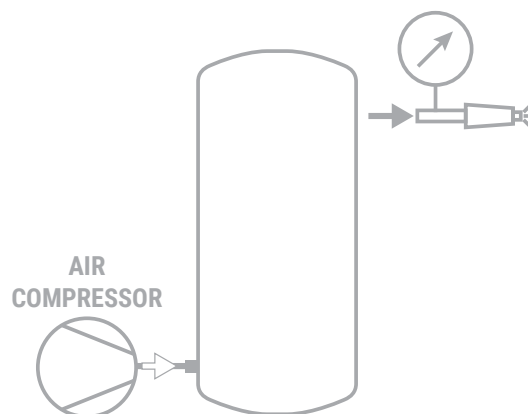
COMPRESSED AIR / NITROGEN RECEIVERS (DIRECTIVE 2014/68/UE - P.E.D.)



CE

WORKING TEMPERATURE

Tmax
-10/+100 °C



TECHNICAL DESCRIPTION

Compressed air receivers allow to extract more air than the quantity produced by the compressor, this without causing an under-pressure in the unit. Built in mild steel, either painted, galvanized and painted with food internal coating Polywarm® according to D.M. nr. 174 dated 06/04/2004.

APPLICATION

Storage and distribution of compressed air.

MATERIAL

- Painted mild steel (standard colour RAL 5002-Blue)
- Other colours on demand:
 - RAL 5015 - Light Blue
 - RAL 3000 - Red
 - RAL 1021 - Yellow
- Galvanized mild steel
- Painted mild steel version with internal food coating (Polywarm®)

CERTIFICATIONS

- Compressed air receivers are produced according to European Directive 2014/68/UE - (PED) for items with a "volume x pressure" over than 10.000 Bar • Liter. These tanks are marked CE under the monitoring of an external control agency.
- Liquid in pressure: air / nitrogen
 - Liquid group: 2
 - Maximum working pressure: (See tab)
 - Temperature: 0/+100 °C

DOCUMENTS ATTACHED

- CE certification - User Instructions

GALVANIZED / PAINTED



(*) Other colours on demand: RAL 5015 Light Blue / RAL 3000 Red / RAL 1021 Yellow

2014/68/CE-P.E.D.

VERTICAL COMPRESSED AIR RECEIVER

Model	Pressure [Bar]	Galvanized	PAINTED - RAL 5002 BLU (*)
		Art. Nr.	Art. Nr.
1500	8	3054171990001	3054172240001
2000		3054171990002	3054172240002
3000		3054171990054	3054172240054
4000		3054171990005	3054172240005
5000		3054171990006	3054172240006
8000		3054171990007	/
10000		3054171990008	/
1000	12	3054171990067	3054172240067
1500		3054171990011	3054172240011
2000		3054171990012	3054172240012
2500		3054171990013	3054172240013
3000		3054171990064	3054172240064
4000		3054171990015	3054172240015
5000		3054171990016	3054172240016
8000		3054171990027	/
10000		3054171990028	/
1000	15	3054171990167	3054172240151
1500		3054171990118	3054172240102
2000		3054171990168	3054172240152

FOOD INTERNAL COATING



(*) Other colours on demand: RAL 5015 Light Blue / RAL 3000 Red / RAL 1021 Yellow

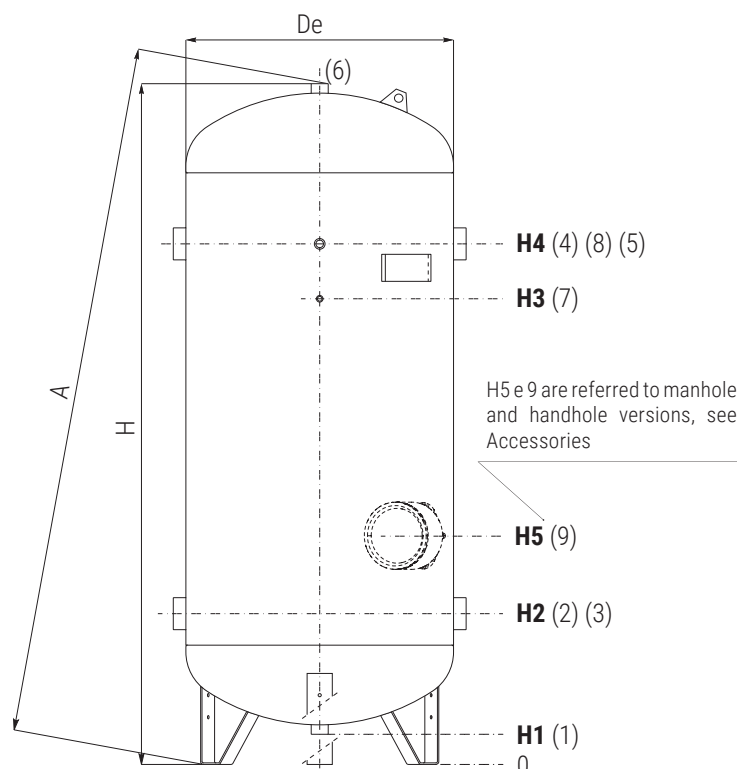
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VERTICAL COMPRESSED AIR RECEIVER

Model	Pressure [Bar]	PAINTED RAL 5002 BLUE (*) - FOOD INTERNAL COATED	
			[€]
1500	8	on request	
2000			
3000			
4000			
5000			
1000	12	on request	
1500			
2000			
2500			
3000			
4000	15	on request	
5000			
1000			
1500	15	on request	
2000			

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1	Drain
2-3	Air entry
4-5	Utilizzo
6	Safety Valve
7-8	Instrumentation
9	Manhole / handhole (on request)

HORIZONTAL VERSION AVAILABLE ON DEMAND - surcharge +12%

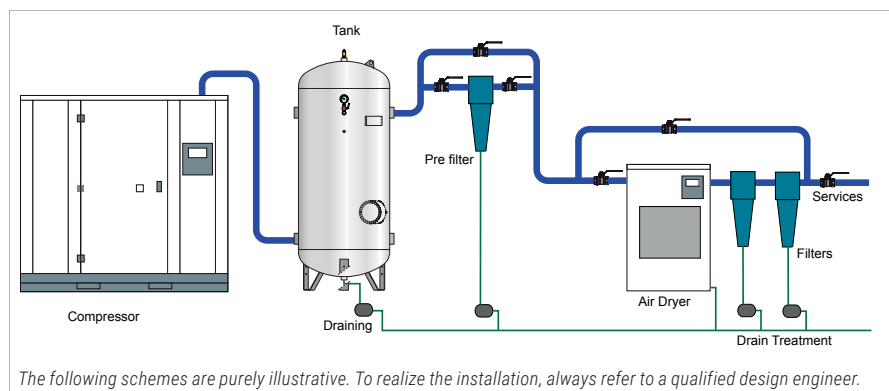


Model	Working Pressure [bar]	De	H	A	H1	H2	H3	H4	1-6	2-3-4-5	7	8
					[mm]					Connections Gas F		
1500	8	950	2470	2510	150	570	1470	1670	2"	2"	3/8"	3/4"
2000		1100	2545	2600	100	595	1495	1695	2"	2"	3/8"	3/4"
3000		1200	3000	3075	140	720	1620	1820	2"	3"	3/8"	3/4"
4000		1450	3000	3100	120	710	1610	1810	2"	3"	3/8"	3/4"
5000		1450	3505	3585	115	710	2100	2300	2"	3"	3/8"	3/4"
8000		1650	4200	4280	220	810	3310	3510	2"	4"	3/8"	3/4"
10000	12	1650	5200	5270	220	810	4310	4510	2"	4"	3/8"	3/4"
1000		790	2430	2450	180	575	1625	1825	2"	2"	3/8"	3/4"
1500		950	2490	2530	115	575	1480	1680	2"	2"	3/8"	3/4"
2000		1100	2545	2600	100	595	1495	1695	2"	2"	3/8"	3/4"
2500		1200	2660	2760	145	680	1580	1780	2"	3"	3/8"	3/4"
3000		1200	3000	3075	140	720	1620	1820	2"	3"	3/8"	3/4"
4000	15	1450	3000	3100	120	710	1610	1810	2"	3"	3/8"	3/4"
5000		1450	3505	3585	115	710	2100	2300	2"	3"	3/8"	3/4"
8000		1650	4200	4280	220	810	3310	3510	2"	4"	3/8"	3/4"
10000		1650	5200	5270	220	810	4310	4510	2"	4"	3/8"	3/4"
1000		790	2430	2450	180	575	1625	1825	2"	2"	3/8"	3/4"
1500		950	2490	2530	115	575	1480	1680	2"	2"	3/8"	3/4"
2000		1100	2545	2600	100	595	1495	1695	2"	2"	3/8"	3/4"

EXAMPLE OF COMPRESSED AIR RECEIVER PLANT

In compressed air production and distribution systems, tanks are used in production plants for the following functions:

- to store compressed air in order to use it when needed
- to ensure network air flow and constant pressure by limiting interventions to adjust the flow;
- to favour the separation of condensation through the release of the flow coming from the compressor in the bottom of the tank and connecting delivery in the upper.



Furthermore, the tanks are located near uses characterised by highly variable air requirements in order to limit pressure fluctuations along the distribution lines.

Optimum tank volume in a production system depends on the type of compressor, environmental conditions of operation and type of use.

In systems characterised by max operating pressure of 10 bar and flow rates from 1 to 100 Nm³/min, tank capacity is calculated, as a first approximation, with the following relationship:

$$V = 0.2 \text{ to } 0.6 Q$$

V = theoretical volume of the tank in m³

Q = intake flow rate from the compressor in m³/min

0.2 = coefficient for large plants

0.6 = coefficient for small plants