ABAC
AIR COMPRESSORS

# Air Receivers

Air. Anytime. Anywhere.

# Air Receivers
## Functionalities

Suitable for any application using compressed air.

- Storage function in order to handle high air consumption.
- Stabilize pressure peaks and provide a stable air flow
- Perform a preliminary separation and removal of condensate.

Moreover, installing an air receiver allows you to **avoid the following risks**:

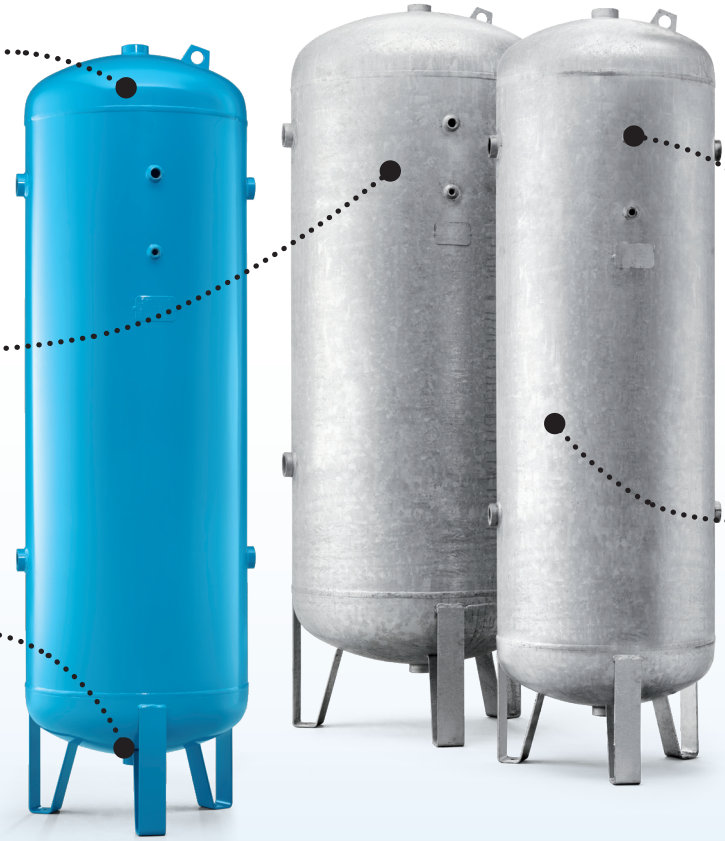
- Unstable pressure peaks
- Multiple start/stop of the compressor
- More condensate risk.

# Main benefits

**Pressure stabilization**
benificial for the pneumatic tools using the compressed air

**Storage**
for handling high air consumption

**Condensate separation**



**Pulsation reduction**
**Velocity reduction**
**Temperature reduction**

**Improvement**
of the life, reliability and functionality of your compressor

# Types

### Painted vessels
Painted vessels are used in the majority of the cases, where the air receiver is not submitted to extreme weather conditions and perfectly clean air is not an absolute prerequisite. The paint job ensures protection against corrosion.

### Galvanized vessels
Galvanization is used to protect steel against corrosion. The process itself is simple: the vessel is completely submerged in a zinc liquid bath. As a result, the zinc coating perfectly adheres to the entire surface of the tank, ensuring full protection of the steel.

### Vitrified vessels (vitroflex)
These vessels are treated with vitreous enamel, making them water and steam resistant. The complete reliability of this type of treatment is the result of the inorganic composition and the link created between the enamel and metal surface. After having been baked at 850°C, the enamel no longer absorbs water and fully protects the vessel against corrosion.

# Air receiver capacity

## How to select the size of my receiver?

There is no one rule that fits all as some applications require larger air tanks because of the process.

However, two rules of thumb that can help to finetune:

- Your air receiver capacity should be at least 1/4 of your free air delivery expressed in m³/min.
- Base yourself on the compressor's motor power and calculate the capacity:

  Motorpower in HP x 30

  Example: If you install a 10HP screw compressor, your receiver capacity should be minimally 300 liter.

Correctly sizing your air receiver brings following benefits for your compressors' operations:

- Less waste during unloading period
- Overall smoother operation
- Avoid mechanical stress on several components

**Connection kit**

## Painted standard vessels

| Capacity (L) | 100 | 200 | 270 | 500 | 720 | 900 | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pressure (bar) | 11 | 11 | 11 | 11 | 10,8 | 11 | 12 | 11,5 | 11,5 | 11,5 | 11,5 | 11,5 |
| Diameter Ø | 370 | 446 | 500 | 600 | 800 | 800 | 800 | 1000 | 1000 | 1200 | 1450 | 1450 |
| H tot (mm) | 1172 | 1570 | 1668 | 2055 | 2030 | 2120 | 2315 | 2305 | 2805 | 2965 | 3070 | 3570 |
| h (mm) | 124 | 174 | 170 | 155 | 150 | 130 | 115 | 180 | 180 | 185 | 180 | 180 |
| a | 3/4” | 1” | 1” | 1” | 2” | 1”1/2 | 2” | 2” | 2” | 3” | 3” | 3” |
| b | 3/4” | 1” | 1” | 1” | 2” | 1”1/2 | 2” | 2” | 2” | 3” | 3” | 3” |
| c | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” |
| d | 3/8” | 3/8” | n.a. | n.a. | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” |
| e | 1/2” | 1/2” | 1/2” | 2” | 2” | 2” | 2” | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 |
| f | 1/2” | 1/2” | 1/2” | 2” | 2” | 2” | 2” | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 |
| l (mm) | 298 | 397 | 599 | 775 | 895 | 860 | 745 | 590 | 595 | 700 | 780 | 780 |
| m (mm) | 998 | 1222 | 1304 | 1560 | 1705 | 1780 | 1685 | 1860 | 2355 | 2410 | 2430 | 2930 |
| Kit type included | 1 | 2 | 3 | 4 | 4 | 6 | 7 | B | B | B | Not included | |
| Weight (kg) | 37 | 51 | 62 | 127 | 180 | 200 | 204 | 278 | 352 | 537 | 802 | 923 |
| Norm & standards | 2014/29/UE | | | | | | 2014/68/EU (PED) | | | | | |

## Zinc standard vessels

| Capacity (L) | 100 | 200 | 270 | 500 | 720 | 900 | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pressure (bar) | 11 | 11 | 11 | 11 | 10,8 | 11 | 11,5 | 11,5 | 11,5 | 11,5 | 11,5 | 11,5 |
| Diameter Ø | 370 | 430 | 500 | 600 | 790 | 790 | 790 | 1000 | 1000 | 1200 | 1450 | 1450 |
| H tot (mm) | 1229 | 1530 | 1685 | 2077 | 1863 | 2213 | 2345 | 2305 | 2805 | 2965 | 3070 | 3570 |
| h (mm) | 176 | 135 | 192 | 174 | 200 | 200 | 200 | 180 | 180 | 185 | 180 | 180 |
| a | 3/4” | 3/4” | 3/4” | 1”1/2 | 1”1/2 | 2” | 2” | 2” | 2” | 3” | 3” | 3” |
| b | 3/4” | 3/4” | 3/4” | 1”1/2 | 1”1/2 | 2” | 2” | 2” | 2” | 3” | 3” | 3” |
| c | 3/8” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” |
| d | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” |
| e | 2” | 2” | 2” | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 |
| f | 2” | 2” | 2” | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 |
| l (mm) | 447 | 397 | 442 | 689 | 690 | 800 | 725 | 590 | 595 | 700 | 780 | 780 |
| m (mm) | 1055 | 1280 | 1422 | 1689 | 1440 | 1800 | 1725 | 1860 | 2355 | 2410 | 2430 | 2930 |
| Kit type included | 1 | A | A | A | A | A | B | B | B | B | Not included | |
| Weight (kg) | 40 | 55 | 66 | 143 | 184 | 209 | 224 | 306 | 387 | 591 | 882 | 1025 |
| Norm & standards | 2014/29/UE | | | | | | 2014/68/EU (PED) | | | | | |

## Vitroflex standard vessels

| Capacity (L) | 100 | 200 | 270 | 500 | 720 | 900 | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pressure (bar) | N.A. | 11 | 11 | 11 | 10,8 | 11 | 11,5 | 11,5 | 11,5 | 11,5 | 11,5 | 11,5 |
| Diameter Ø | N.A. | 430 | 500 | 600 | 790 | 790 | 790 | 1000 | 1000 | 1200 | 1450 | 1450 |
| H tot (mm) | N.A. | 1530 | 1685 | 2077 | 1863 | 2213 | 2345 | 2305 | 2805 | 2965 | 3070 | 3570 |
| h (mm) | N.A. | 135 | 192 | 174 | 200 | 200 | 200 | 180 | 180 | 185 | 180 | 180 |
| a | N.A. | 3/4” | 3/4” | 1”1/2 | 1”1/2 | 2” | 2” | 2” | 2” | 3” | 3” | 3” |
| b | N.A. | 3/4” | 3/4” | 1”1/2 | 1”1/2 | 2” | 2” | 2” | 2” | 3” | 3” | 3” |
| c | N.A. | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” |
| d | N.A. | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” |
| e | N.A. | 2” | 2” | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 |
| f | N.A. | 2” | 2” | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 | 1”1/4 |
| l (mm) | N.A. | 397 | 442 | 689 | 690 | 800 | 725 | 590 | 595 | 700 | 780 | 780 |
| m (mm) | N.A. | 1280 | 1422 | 1689 | 1440 | 1800 | 1725 | 1860 | 2355 | 2410 | 2430 | 2930 |
| Kit type included | N.A. | A | A | A | A | A | B | B | B | B | Not included | |
| Weight (kg) | N.A. | 50 | 60 | 130 | 167 | 190 | 204 | 278 | 352 | 537 | 802 | 932 |
| Norm & standards | N.A. | 2014/29/UE | | | | | 2014/68/EU (PED) | | | | | |

## Painted high pressure vessels

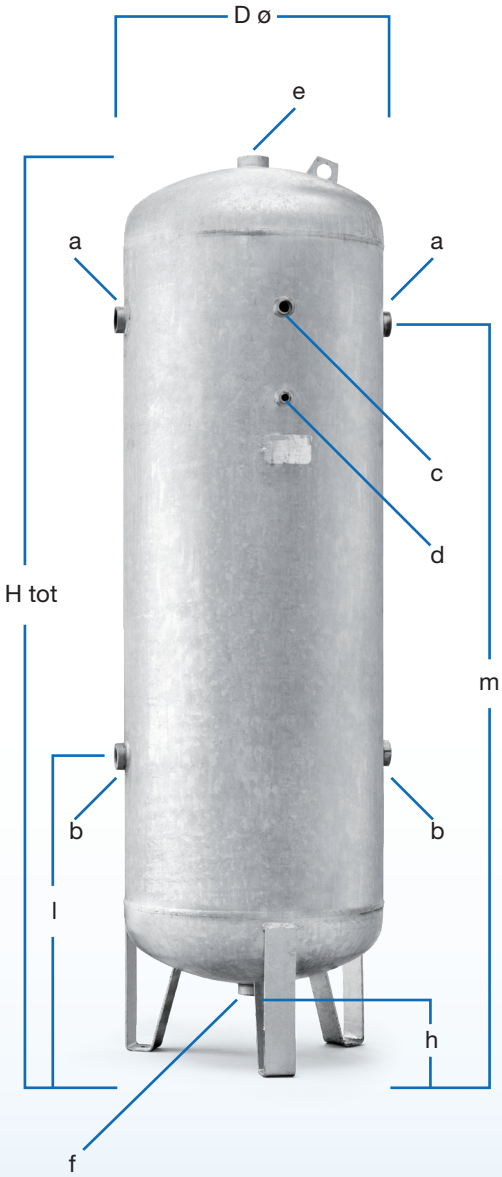
| Capacity (L) | 500 | 1000 | 2000 | 3000 | 4000 | 5000 |
|---|---|---|---|---|---|---|
| Pressure (bar) | 16 | 16 | 16 | 16 | 16 | 16 |
| Diameter Ø | 600 | 800 | 1000 | 1200 | 1430 | 1430 |
| H tot (mm) | 2055 | 2315 | 2810 | 2930 | 3110 | 3610 |
| h (mm) | 155 | 115 | 175 | 170 | 190 | 190 |
| a | 1” | 2” | 2” | 2” | 2” | 2” |
| b | 1” | 2” | 2” | 2” | 2” | 2” |
| c | 3/8” | 3/8” | 3/4” | 3/4” | 3/4” | 3/4” |
| d | n.a. | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” |
| e | 2” | 2” | 2” | 2” | 2” | 2” |
| f | 2” | 2” | 2” | 2” | 2” | 2” |
| l (mm) | 775 | 745 | 565 | 645 | 765 | 765 |
| m (mm) | 1560 | 1685 | 2340 | 2370 | 2450 | 2950 |
| Kit type included | 5 | 8 | C | C | not included | |
| Weight (kg) | 159 | 246 | 490 | 620 | 905 | 1055 |
| Norm & standards | 2014/68/EU (PED) | | | | | |

## Zinc high pressure vessels

| Capacity (L) | 500 | 1000 | 2000 | 3000 | 4000 | 5000 |
|---|---|---|---|---|---|---|
| Pressure (bar) | 16 | 16 | 16 | 16 | 16 | 16 |
| Diameter Ø | 600 | 790 | 1000 | 1200 | 1430 | 1430 |
| H tot (mm) | 2120 | 2365 | 2810 | 2930 | 3110 | 3610 |
| h (mm) | 175 | 200 | 175 | 170 | 190 | 190 |
| a | 2” | 2” | 2” | 2” | 2” | 2” |
| b | 2” | 2” | 2” | 2” | 2” | 2” |
| c | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” |
| d | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” |
| e | 2” | 2” | 2” | 2” | 2” | 2” |
| f | 2” | 2” | 2” | 2” | 2” | 2” |
| l (mm) | 485 | 725 | 565 | 645 | 765 | 765 |
| m (mm) | 1745 | 1725 | 2340 | 2370 | 2450 | 2950 |
| Kit type included | C | C | C | C | not included | |
| Weight (kg) | 176 | 308 | 539 | 682 | 995 | 1160 |
| Norm & standards | 2014/68/EU (PED) | | | | | |

## Vitroflex high pressure vessels

| Capacity (L) | 500 | 1000 | 2000 | 3000 | 4000 | 5000 |
|---|---|---|---|---|---|---|
| Pressure (bar) | 16 | 16 | 16 | 16 | 16 | 16 |
| Diameter Ø | 600 | 790 | 1000 | 1200 | 1430 | 1430 |
| H tot (mm) | 2120 | 2365 | 2810 | 2930 | 3110 | 3610 |
| h (mm) | 175 | 200 | 175 | 170 | 190 | 190 |
| a | 2” | 2” | 2” | 2” | 2” | 2” |
| b | 2” | 2” | 2” | 2” | 2” | 2” |
| c | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” | 3/4” |
| d | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” | 3/8” |
| e | 2” | 2” | 2” | 2” | 2” | 2” |
| f | 2” | 2” | 2” | 2” | 2” | 2” |
| l (mm) | 485 | 725 | 565 | 645 | 765 | 765 |
| m (mm) | 1745 | 1725 | 2340 | 2370 | 2450 | 2950 |
| Kit type included | C | C | C | C | not included | |
| Weight (kg) | 160 | 280 | 490 | 620 | 905 | 1055 |
| Norm & standards | 2014/68/EU (PED) | | | | | |



# The world of ABAC

ORIGINAL PART

## Care. Trust. Efficiency.

### Care.

Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

### Trust.

Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

### Efficiency.

Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.

Your Authorized Distributor

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