



*Premium ASME Pressure Vessels  
from the Industry Leader*

asme pressure vessels [highlandtank.com](http://highlandtank.com)

## air receiver vessels

**HT-1127**

### PRODUCT DETAILS

Air Receiver Tanks (ART) are used in compressed air systems to store the compressed air and to permit pressure to be equalized in the system.

ART are sized to best supplement the air compressor operation, typically one gallon of storage for each Actual Cubic Feet per Minute (ACFM), for the rated compressor output:

A more exact sizing method is:

$$V = Cr \times (Ci / Co)$$

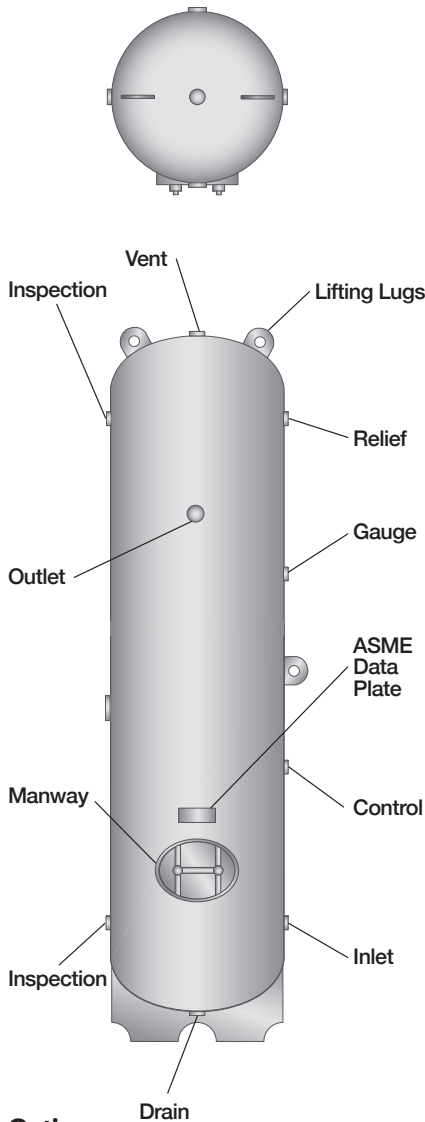
$V$  = Air Receiver Volume (ft<sup>3</sup>)  
 $Cr$  = Compressor rating (ft<sup>3</sup> / min. free air)  
 $Ci$  = Compressor Inlet Free Air (psia)  
 $Co$  = Compressor Outlet Pressure (psia)

After calculating the air receiver capacity, inlet and outlet connections can be determined based on the size of the compressor outlet connection.

#### Standard Features

- » Manufactured to ASME Code Standard design pressures are 125 and 150 psi. (Other pressure ratings are available.)
- » Inlet and Outlet connections (based on the compressor outlet connection dimensions)
- » Bottom Drain Outlet
- » Pressure Gauge connection
- » Safety relief valve connection
- » Inspection openings
- » Exterior alkyd shop primer

## Vertical Air Receiver

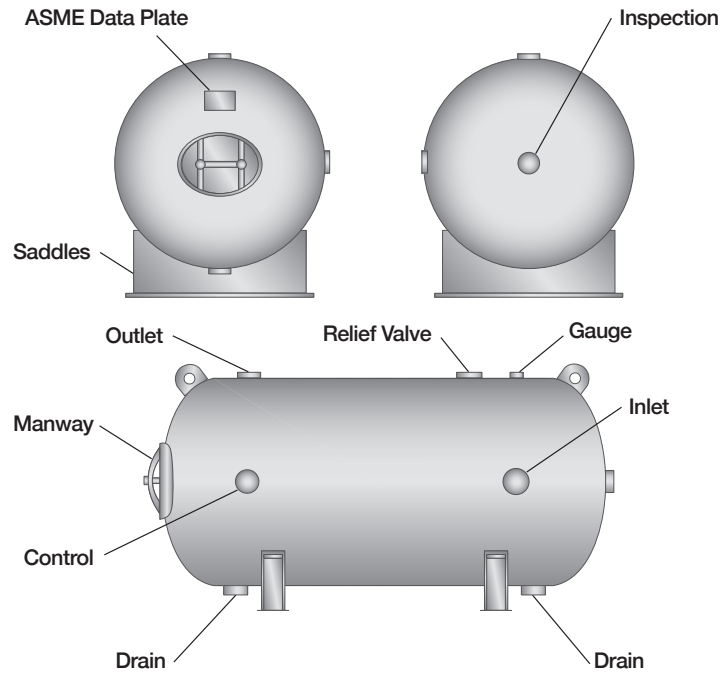


### Options

- » Tank Support Systems:
- » Horizontal - UL Saddles
- » Vertical - Ring Bases, Angle Legs  
12" X 16" minimum elliptical manway

All Highland Tank storage tank drawings are available for viewing or downloading in PDF or AutoCAD DXF format at [highlandtank.com](http://highlandtank.com)

## Horizontal Air Receiver



Airflow Capacity	Recommended Receiver Volume				
	CFM	m <sup>3</sup> /hr.	ft. <sup>3</sup>	Gallons	m <sup>3</sup>
100		170	13	100	0.4
200		340	27	200	0.8
300		510	40	300	1.1
400		680	54	400	1.5
500		850	67	500	1.9
750		1,275	101	750	2.9
1,000		1,700	134	1,000	3.8
1,500		2,550	201	1,500	5.7
2,000		3,400	268	2,000	7.6
3,000		5,100	402	3,000	11.4
4,000		6,800	536	4,000	15.2
5,000		8,500	670	5,000	19.0
7,500		12,750	1,005	7,500	28.5
10,000		17,000	1,340	10,000	38.0



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