

Receiver Tank

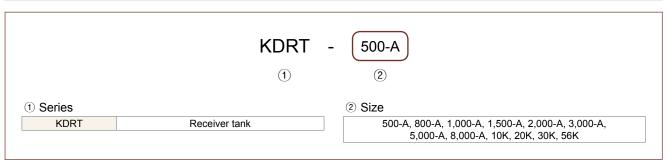
KDRT series



Features

- Service tank is assential at the outlet of compressor for provide air in uniform pressure without pulsation.
- · Capacity of tank is determined by the usage of compressor such as capacity, working pressure and etc.
- Tank is corresponding with occupation safety and health acts, user shall use the product after inspection by occupation safety and heatlh admisistration.
- The whole tank's design and performance is after inspection of occupation safety and heatlh admisistration.

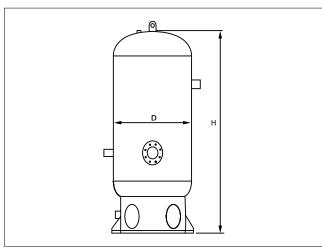
How to Order



Specifications

Model	Flow Capacity (m³)	In/Out Connection	Dimensions (mm)		Weight
			D	Н	(kg)
KDRT-500-A	0.5	PT 50A	660	1,733	184
KDRT-800-A	0.8	PT 50A	760	2,088	306
KDRT-1,000-A	1.0	PT 50A	850	2,132	392
KDRT-1,500-A	1.5	PT 50A	946	2,486	521
KDRT-2,000-A	2.0	FL 80A	1,110	2,567	764
KDRT-3,000-A	3.0	FL 80A	1,310	2,666	993
KDRT-5,000-A	5.0	FL 100A	1,485	3,361	1,628
KDRT-8,000-A	8.0	FL 125A	1,845	3,539	2,528
KDRT-10K	10.0	FL 150A	2,025	3,648	3,020
KDRT-20K	20.0	FL 200A	2,400	5,200	5,500
KDRT-30K	30.0	FL 250A	2,800	5,950	6,500
KDRT-56K	56.0	FL 350A	2,620	11,232	19,000

Dimensions



 $^{\ \ \, \}Box \ \, \text{Operating pressure: 9.9kgf/cm}^2 \, \text{(Custom made of other specification is available upon customer request)}$

How to Select Receiver Tank

- Air receiver tank capacity formula
- ٧ Volume of the receiver tank (m3)
- Time allowed for pressure drop to occur (min)
- Q₁ Air demand by compressor (m³)
- Q2 Surplus air volume from compressor (m3)
- P₁ Free air pressure (kgf/cm²)
- P₂ Receiver tank proof pressure (kgf/cm²)
- P₃ Compressor working pressure (kgf/cm²)

$$V = \{P_1 \times (Q_1 - Q_2) \times t\} / (P_2 - P_3)$$

■ Air discharge by compressor is 550 l/min and the pressure of discharged air is 8.5kgf/cm², what is the size of receiver should be selected if the compressor eject 1500l air in 40 seconds?

1.03323 kgf/cm² P₂ 9.53323kgf/cm²(a) P₃ 6.03323kgf/cm²(a) Q_1 1.5m³ 0.55m3×40sec/60sec=0.37m3 0.67min(40sec)

{1.0332×(1.5-0.37)×0.67} / (9.5332-6.0332)

 $0.223(\text{m}^3) = 230\ell = 0.23\text{m}^3$

Install a receiver tank which the volume is greater than 0.23m3

Dryer

Reference Data

KDHR

KDHR-W

KDHT

KDAH

KDAE

KDAE-S

KDAO

KDAB

KDNP

KDH-C

KDRC

KDRT

KDHAD

EZ-1

KDXF

KDXE