

1.8.2.1: Practice Pressure Units

Exercise 1.8.2.1.1

The cabin on a passenger airplane at 30,000 feet is "pressurized" so passengers experience 586 mm Hg of air pressure. This is necessary because outside the air pressure is only 226 mm Hg, and your body can't get enough oxygen at that pressure! What are these pressures in atm? (Remember 1 atm = 760 mm Hg exactly)

Answer

Inside = 0.771 atm; outside = 0.297 atm.

Exercise 1.8.2.1.1

The pressure limit on a class D oxygen tank is 4000.0 psi. What pressure is that in kPa? Some relationships are listed below.

$$1.00000 \text{ atm} = 101.325 \text{ kPa} = 14.6959 \text{ psi}$$

Answer

27579 kPa

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