



**BSR/ASHRAE Addendum e to
ANSI/ASHRAE Guideline 28-2016**

Public Review Draft

Proposed Addendum e to Guideline 28-2016, Air Quality within Commercial Aircraft

**First Public Review (October 2019)
(Draft shows Proposed Changes to Current Guideline)**

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ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305

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FOREWORD

Proposed Addendum e provides conversion factors to be used in concentration calculations detailed in ASHRAE Guideline 28 edition 2016. This is a revision to Table 4.1.1 (Conversion Factors for Concentrations Calculations) and will be included in later revisions of Guideline 28.

Note: In this addendum, changes to the current guideline are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum e to Guideline 28-2016

Revise Table 4.1.1 as shown below.

TABLE 4.1.1 Conversion Factors for Concentration Calculations

Cabin Altitude		Cabin Pressure				1000 P/RT
ft	M	atm	psi	kPa	<u>mmHg</u>	mol/m ³
0	0	1.0	14.696	101.33	<u>760</u>	40.9
1000	305	0.965	14.175	97.74	<u>733</u>	39.4
2000	610	0.930	13.664	94.21	<u>707</u>	38.0
3000	914	0.896	13.173	90.83	<u>681</u>	36.6
4000	1219	0.863	12.682	87.44	<u>656</u>	35.3
5000	1524	0.832	12.230	84.33	<u>633</u>	34.0
6000	1829	0.801	11.778	81.21	<u>609</u>	32.8
7000	2134	0.772	11.341	78.20	<u>587</u>	31.6
8000	2438	0.743	10.914	75.25	<u>564</u>	30.4
9000	2743	0.715	10.506	72.44	<u>543</u>	29.2
10,000	3048	0.688	10.108	69.70	<u>523</u>	28.1