4101:2-11-01 Refrigeration.

Chapter 11 of the International Mechanical Code, <u>2021</u> <u>2024</u> edition, <u>is as</u> incorporated by reference and modified in Section 101.1.1 of this code-, is further modified as follows:

(A) Modify the refrigerant concentration limit (RCL) and lower flammability limit (LFL) values in Table 1103.1 as indicated for the set of chemical refrigerants identified in the chart below:

Modifications to Table 1103.1a per ICA-TSG-000001-Toto-ASHRAE-2024 IMCb						
CHEMICAL	AMOUNT OF REFRIGERANT PER OCCUPIED SPACE					
<u>REFRIGERANT</u>	<u>RCL</u>			<u>LFL</u>		
	<u>Lb/MCf</u>	<u>ppm</u>	g/m^3	<u>Lb/MCf</u>	<u>ppm</u>	g/m^3
<u>R-444A</u>	<u>5.0</u>	<u>21,000</u>	<u>80</u>	<u>19.9</u>	<u>82,000</u>	<u>319.4</u>
<u>R-444B</u>	<u>4.3</u>	23,000	<u>70</u>	<u>17.3</u>	93,000	<u>278.1</u>
<u>R-445A</u>	<u>5.4</u>	<u>16,000</u>	<u>87</u>	<u>21.6</u>	63,000	<u>347.4</u>
<u>R-446A</u>	<u>3.7</u>	23,000	<u>59</u>	<u>14.8</u>	93,000	<u>237.7</u>
<u>R-447A</u>	<u>5.2</u>	32,000	<u>83</u>	<u>20.6</u>	128,000	<u>331.4</u>
<u>R-447B</u>	<u>4.8</u>	30,000	<u>78</u>	<u>19.5</u>	121,000	<u>312.7</u>
<u>R-451A</u>	<u>5.3</u>	18,000	<u>81</u>	<u>21.3</u>	74,000	<u>341</u>
<u>R-451B</u>	<u>5.0</u>	18,000	<u>81</u>	<u>21.3</u>	74,000	<u>341.6</u>
<u>R-454A</u>	<u>4.4</u>	21,000	<u>70</u>	<u>17.5</u>	84,000	<u>281.4</u>
<u>R-454B</u>	<u>4.6</u>	29,000	<u>74</u>	<u>18.5</u>	115,000	<u>296.8</u>
<u>R-454C</u>	<u>4.6</u>	<u>19,000</u>	<u>73</u>	<u>18.2</u>	<u>77,000</u>	<u>291.7</u>
<u>R-455A</u>	<u>6.8</u>	30,000	<u>108</u>	<u>26.9</u>	<u>118,000</u>	<u>432.1</u>

a. Portions of Table 1103.1 not shown remain unchanged.

(B) Replace exception #2 under section 1109.2.5 to read as follows:

2. Piping in a direct refrigeration system where the refrigerant quantity does not exceed the limits of Table 1103.1 for the smallest occupied space through which the piping passes.

b. The document referenced is an interim critical amendment (ICA) filed with, reviewed and approved by the International Code Council regarding the 2024 International Mechanical Code.

4101:2-11-01

Replaces: 4101:2-11-01

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CERTIFIED ELECTRONICALLY

Certification

09/30/2025

Date

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Statutory Authority: 3781.10(A)(1), 4104.43 (A)(1) Rule Amplifies: 3781.10, 3781.11, 3791.04

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