

4101:2-11-01 Refrigeration.

Chapter 11 of the International Mechanical Code, ~~2021~~ 2024 edition, is as 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:

<u>Modifications to Table 1103.1^a per ICA-TSG-000001-Toto-ASHRAE-2024 IMC^b</u>						
<u>CHEMICAL REFRIGERANT</u>	<u>AMOUNT OF REFRIGERANT PER OCCUPIED SPACE</u>					
	<u>RCL</u>			<u>LFL</u>		
	<u>Lb/MCf</u>	<u>ppm</u>	<u>g/m³</u>	<u>Lb/MCf</u>	<u>ppm</u>	<u>g/m³</u>
<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>	<u>23,000</u>	<u>70</u>	<u>17.3</u>	<u>93,000</u>	<u>278.1</u>
<u>R-445A</u>	<u>5.4</u>	<u>16,000</u>	<u>87</u>	<u>21.6</u>	<u>63,000</u>	<u>347.4</u>
<u>R-446A</u>	<u>3.7</u>	<u>23,000</u>	<u>59</u>	<u>14.8</u>	<u>93,000</u>	<u>237.7</u>
<u>R-447A</u>	<u>5.2</u>	<u>32,000</u>	<u>83</u>	<u>20.6</u>	<u>128,000</u>	<u>331.4</u>
<u>R-447B</u>	<u>4.8</u>	<u>30,000</u>	<u>78</u>	<u>19.5</u>	<u>121,000</u>	<u>312.7</u>
<u>R-451A</u>	<u>5.3</u>	<u>18,000</u>	<u>81</u>	<u>21.3</u>	<u>74,000</u>	<u>341</u>
<u>R-451B</u>	<u>5.0</u>	<u>18,000</u>	<u>81</u>	<u>21.3</u>	<u>74,000</u>	<u>341.6</u>
<u>R-454A</u>	<u>4.4</u>	<u>21,000</u>	<u>70</u>	<u>17.5</u>	<u>84,000</u>	<u>281.4</u>
<u>R-454B</u>	<u>4.6</u>	<u>29,000</u>	<u>74</u>	<u>18.5</u>	<u>115,000</u>	<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>	<u>30,000</u>	<u>108</u>	<u>26.9</u>	<u>118,000</u>	<u>432.1</u>

- Portions of Table 1103.1 not shown remain unchanged.
- 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.

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

- 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.

Replaces: 4101:2-11-01

Effective:

Five Year Review (FYR) Dates:

Certification

Date

Promulgated Under: 119.03

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Rule Amplifies: 3781.10, 3781.11, 3791.04

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