

Interim Critical Amendment (ICA) Request

Final Report

September 8, 2025| Updated: NA

REF: Interim Critical Amendment (ICA) TSG-000001 (ASHRAE-TOTO)

Under the guidelines of CP 28, Section 2.3.2.7, ICA TSG-00001 ASHRAE-TOTO has achieved the required two-thirds of the CSC members to vote in the affirmative to pass.

Per CP, Section 2.3.2.8 ICA TSG-000001 is now effective. ICAs shall be distributed as a separate document and shall not be incorporated into the text of a published code until such time that the ICA has been approved by the full code development process, following submittal as a proposal in accordance with Section 2.3.2.11.

I-Code(s) 2024 IMC (International Mechanical Code)
Impacted

Sections of 2024 IMC Table 1103.1-REFRIGERANT CLASSIFICATION, AMOUNT AND OEL
the selected I-
Code
Impacted

Revised
Language

Revise Table 1103.1 as follows:

TABLE 1103.1-REFRIGERANT CLASSIFICATION, AMOUNT AND OEL-continued												
CHEMICAL REFRIGERANT	FORMULAS	CHEMICAL NAME OF BLENDS	REFRIGERANT SAFETY GROUP CLASSIFICATION	AMOUNT OF REFRIGERANT PER OCCUPIED SPACE								
				RCL			LFL			OEL		
				Lb/Mcf	ppm	g/m³	Lb/Mcf	ppm	g/m³		ppm	
R-444A	zeotrope	R-32/152a/1234ze(E) (12.0/5.0/83.0)	A2L	5.15.0	21,000	8180	19.9	82,000	324.8319.4	850		
R-444B	zeotrope	R-32/152a/1234ze(E) (41.5/10.0/48.5)	A2L	4.3	23,000	6970	17.3	93,000	277.3278.1	930		
R-445A	zeotrope	R-744/134a/1234ze (E) (6.0/9.0/85.0)	A2L	4.25.4	16,000	6787	2.721.6	63,000	347.4	930		
R-446A	zeotrope	R-32/1234ze(E)/600 (68.0/29.0/3.0)	A2L	2.53.7	46,000	23,000	3959	43.514.8	62,000	93,000	217.4237.7	960
R-447A	zeotrope	R-32/125/1234ze(E) (68.0/3.5/28.5)	A2L	2.65.2	46,000	32,000	4283	48.920.6	65,000	128,000	303.6331.4	960
R-447B	zeotrope	R-32/125/1234ze(E) (68.0/8.0/24.0)	A2L	2.64.8	46,000	30,000	4278	20.619.5	121,000		312.7	970
R-451A	zeotrope	R-1234yf/134a (89.8/10.2)	A2L	5.05.3	18,000	81	20.321.3	70,000	74,000		326.6341	530
R-451B	zeotrope	R-1234yf/134a (88.8/11.2)	A2L	5.0	18,000	81	20.321.3	70,000	74,000		326.6341.6	530
R-454A	zeotrope	R-32/1234yf (35.0/65.0)	A2L	3.24.4	46,000	21,000	5270	48.317.5	63,000	84,000	293.9281.4	690
R-454B	zeotrope	R-32/1234yf (68.9/31.1)	A2L	3.14.6	49,000	29,000	4974	22.018.5	77,000	115,000	352.6296.8	850
R-454C	zeotrope	R-32/1234yf (21.5/78.5)	A2L	4.44.6	19,000	7173	48.018.2	62,000	77,000		289.5291.7	620
R-455A	zeotrope	R-744/32/1234yf (3.0/21.5/75.5)	A2L	4.96.8	22,000	30,000	79108	26.9	118,000		432.1	650

(portions of table not shown remain unchanged)

This Interim Critical Amendment will only affect the 2024 IMC. Code change proposal M64-24, for the 2027 IMC, was recommended for approval by this IMC CDC to correct this error and will be on the consent agenda for the Public Comment Hearings to be held in the spring of 2026.

cc:

Russ Manning PhD, LEED AP, CRL, CEFP, FHFI, Senior Vice President of Technical Services Group;
Beth Tubbs PE, FSFPE, Vice President of Codes; Dr. LaToya Carraway, IMC Secretariat

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				Lb/Mcf	ppm	g/m ³	Lb/Mcf	ppm	g/m ³	ppm
R-444A	zeotrope	R-32/152a/1234ze(E) (12.0/5.0/83.0)	A2L	5-15.0	21,000	8+80	19.9	82,000	324-8319.4	850
R-444B	zeotrope	R-32/152a/1234ze(E) (41.5/10.0/48.5)	A2L	4.3	23,000	6970	17.3	93,000	277-3278.1	930
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R-447A	zeotrope	R-32/125/1234ze(E) (68.0/3.5/28.5)	A2L	2-65.2	46,000 32,000	4283	48.9 20.6	66,000 128,000	303-5331.4	960
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