

SUBJECT 8

SUBJECT 8: Air Handling Equipment

Re: Air Handling Equipment

Contact: Larissa A. Franklin

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Proponent: Freight Classification Development Council

Quick View

The Quick View feature is not intended to replace contextual information within this document. To understand the potential impact of the recommended changes shown here, please read the full proposal.

Subject 8: Air Handling Equipment

Quick View: Ten items related to air handling equipment are canceled with reference to a new item, naming “Air Conditioners, Air Coolers, Air Heaters, Air Handling Equipment, or Parts thereof, other than portable,” which provides a “viz.” format, and classes based on packaging and density.

- The “viz.” listings in items 25525 and 61700 amended
- Four Notes canceled with no further application
- Two Notes canceled and reestablished attendant to new item
- One packaging Note established attendant to new item

Transportation Characteristics Present:

- Handling ☒Yes ☐No Stowability ☒Yes ☐No Liability ☒Yes ☐No Density ☒Yes ☐No

Provisions based on:

- Packaging and density

SUBJECT 8

Present Classification Provisions

Item	Description	Class
	BOILERS, FURNANCES, STOVES AND RELATED ARTICLES GROUP: subject to item 25400	
25525*	Boilers, Furnaces, Radiators, Stoves, Related Articles or Parts thereof, viz.: Humidifiers , whole house, automatic, in boxes; [Other Articles Listed—Not Involved.] Subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2.....	300
Sub 3	2 but less than 4.....	250
Sub 4	4 but less than 6.....	175
Sub 5	6 but less than 8.....	125
Sub 6	8 but less than 10.....	100
Sub 7	10 but less than 12.....	92.5
Sub 8	12 but less than 15.....	85
Sub 9	15 but less than 22.5.....	70
Sub 10	22.5 but less than 30.....	65
Sub 11	30 but less than 35.....	60
Sub 12	35 but less than 50.....	55
Sub 13	50 or greater	50
25526	NOTE—Not Involved.	
25527	NOTE—Not Involved.	
25528	NOTE—Not Involved.	
25529	NOTE—Not Involved.	
25530	NOTE—Not Involved.	
25531	NOTE—Not Involved.	
25532	NOTE—Not Involved.	
25533	NOTE—Not Involved.	
25534	NOTE—Not Involved.	
25535	NOTE—Not Involved.	
25536	NOTE—Not Involved.	
25538	NOTE—Not Involved.	
25539	NOTE—Not Involved.	
25540	NOTE—Not Involved.	
25541	NOTE—Not Involved.	
25542	NOTE—Not Involved.	
25543	NOTE—Not Involved.	
25544	NOTE—Not Involved.	
25545	NOTE—Not Involved.	

SUBJECT 8

Present Classification Provisions—Continued

Item	Description	Class
57157*	Devices , terminal control, forced air distribution, see Note, item 57158, in boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1.....	400
Sub 2	1 but less than 2.....	300
Sub 3	2 but less than 4.....	250
Sub 4	4 but less than 6.....	175
Sub 5	6 but less than 8.....	125
Sub 6	8 but less than 10.....	100
Sub 7	10 but less than 12.....	92.5
Sub 8	12 but less than 15.....	85
Sub 9	15 but less than 22.5.....	70
Sub 10	22.5 but less than 30.....	65
Sub 11	30 but less than 35.....	60
Sub 12	35 but less than 50.....	55
Sub 13	50 or greater.....	50
57158*	NOTE—Applies on terminal devices for controlling air pressure, temperature or volume in forced air cooling or heating systems, with or without heating or cooling coils or electric resistance grids.	
	ELECTRICAL EQUIPMENT GROUP: subject to item 60500	
61700*	Electrical Appliances, Equipment or Instruments, or Parts thereof, viz.: Fresheners, Cleaners or Purifiers , air, portable, with or without night-light, in boxes or crates; Humidifiers or Vaporizers , portable, NOI, in boxes; [Other Articles Listed—Not Involved.] Subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1.....	400
Sub 2	1 but less than 2.....	300
Sub 3	2 but less than 4.....	250
Sub 4	4 but less than 6.....	175
Sub 5	6 but less than 8.....	125
Sub 6	8 but less than 10.....	100
Sub 7	10 but less than 12.....	92.5
Sub 8	12 but less than 15.....	85
Sub 9	15 but less than 22.5.....	70
Sub 10	22.5 but less than 30.....	65
Sub 11	30 but less than 35.....	60
Sub 12	35 but less than 50.....	55
Sub 13	50 or greater.....	50
61702	NOTE—Not Involved.	
61703	NOTE—Not Involved.	
61704	NOTE—Not Involved.	
61705	NOTE—Not Involved.	

SUBJECT 8


Present Classification Provisions—Continued

Item	Description	Class
	ELECTRICAL EQUIPMENT GROUP: subject to item 60500	
61706	NOTE—Not Involved.	
61707	NOTE—Not Involved.	
61708	NOTE—Not Involved.	
61709	NOTE—Not Involved.	
61710	NOTE—Not Involved.	
61711	NOTE—Not Involved.	
61712	NOTE—Not Involved.	
61713	NOTE—Not Involved.	
61714	NOTE—Not Involved.	
61715	NOTE—Not Involved.	
61716	NOTE—Not Involved.	
61717	NOTE—Not Involved.	
61718	NOTE—Not Involved.	
61719	NOTE—Not Involved.	
61721	NOTE—Not Involved.	
61722	NOTE—Not Involved.	
61723	NOTE—Not Involved.	
61724	NOTE—Not Involved.	
61725	NOTE—Not Involved.	
61726	NOTE—Not Involved.	
61727	NOTE—Not Involved.	
61728	NOTE—Not Involved.	
61729	NOTE—Not Involved.	
61731	NOTE—Not Involved.	
61732	NOTE—Not Involved.	
61733	NOTE—Not Involved.	
61734	NOTE—Not Involved.	
61735	NOTE—Not Involved.	

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SUBJECT 8



Present Classification Provisions—Continued

Item	Description	Class
	MACHINERY GROUP: subject to item 114000	
114100*	Air Cleaners or Air Filtering Machines , electrostatic or mechanical, without blowers or fans, other than portable, other than fume or gas scrubbers and other than using renewable roll-type filtering media, in boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2	300
Sub 3	2 but less than 4	250
Sub 4	4 but less than 6	175
Sub 5	6 but less than 8	125
Sub 6	8 but less than 10	100
Sub 7	10 but less than 12	92.5
Sub 8	12 but less than 15	85
Sub 9	15 but less than 22.5	70
Sub 10	22.5 but less than 30	65
Sub 11	30 but less than 35	60
Sub 12	35 but less than 50	55
Sub 13	50 or greater	50
114110*	 Air Cleaners, Dehumidifiers, NOI, or Washers , with blowers or fans:	
Sub 1	In boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 6	200
Sub 3	6 but less than 10	110
Sub 4	10 or greater	77.5
Sub 5	In packages other than boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 6	Less than 6	250
Sub 7	6 but less than 10	125
Sub 8	10 or greater	85

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SUBJECT 8

Present Classification Provisions—Continued

Item	Description	Class
	MACHINERY GROUP: subject to item 114000	
114125*	 Air Conditioners, Air Coolers or Air Handling Equipment, viz.: Air Conditioners or Air Coolers , NOI, with or without compressors or heating apparatus; Air Handlers , with or without heating apparatus; Heat Pumps , air heating or cooling; Refrigeration Condensers , NOI; Refrigeration Evaporators (Cooling Coils or Cooling Units) , NOI;	
Sub 1	In boxes, crates or Packages 2475 or 2476, see Note, item 114128, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 6	200
Sub 3	6 but less than 10.....	125
Sub 4	10 or greater.....	77.5
Sub 5	In packages other than boxes, crates or Packages 2475 or 2476, see Notes, items 114128 and 114129, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 6	Less than 6	250
Sub 7	6 but less than 10.....	150
Sub 8	10 or greater.....	85
114128	NOTE—Accompanying parts for installation may be in boxes.	
114129	NOTE—Exposed coils or other components or parts liable to damage must be protected by wood, corrugated fiberboard, expanded plastic or similar material.	
114130*	 Air Coolers , water evaporative type, with blowers or fans, with or without heating action:	
Sub 1	In boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 4	250
Sub 3	4 but less than 6	200
Sub 4	6 or greater.....	110
Sub 5	In packages other than boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 6	Less than 4	300
Sub 7	4 but less than 6	250
Sub 8	6 or greater.....	125

SUBJECT 8

Present Classification Provisions—Continued

Item	Description	Class
MACHINERY GROUP: subject to item 114000		
114142*	Air Heaters , other than portable, with blowers or fans, with or without accompanying hardware or accessories, in packages, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2	300
Sub 3	2 but less than 4	250
Sub 4	4 but less than 6	175
Sub 5	6 but less than 8	125
Sub 6	8 but less than 10	100
Sub 7	10 but less than 12	92.5
Sub 8	12 but less than 15	85
Sub 9	15 but less than 22.5	70
Sub 10	22.5 but less than 30	65
Sub 11	30 but less than 35	60
Sub 12	35 but less than 50	55
Sub 13	50 or greater	50
114145*	 Air Humidifiers , NOI, with blowers or fans:	
Sub 1	In boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 6	200
Sub 3	6 but less than 10	125
Sub 4	10 or greater.....	85
Sub 5	In packages other than boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 6	Less than 6	250
Sub 7	6 but less than 10	150
Sub 8	10 or greater.....	92.5
122865	Heaters , air, solar, window, roof or wall mounting, NOI, with solar collectors, blowers or fans, and thermostat, with or without mounting hardware or accessorial equipment, in boxes	250
122866	Heaters , air, wall mounting, with thermal energy storage rods, blowers or fans, and thermostat, with or without mounting hardware, see Note, item 122867, on pallets, see Note, item 122868	85
122867	NOTE—Applies only on air heaters that collect and store solar energy by means of thermal energy storage rods, which consist of a salt compound permanently enclosed in plastic pipe or tubing.	
122868	NOTE—Exposed portions of fan/filter assembly must be covered by lumber of sufficient width to prevent damage by mechanical handling equipment. Top glazed surface must be protected by fiberboard wallboard reinforced with cleats.	

SUBJECT 8

Present Classification Provisions—Continued

Item	Description	Class
	MACHINERY GROUP: subject to item 114000	
	Ice Making or Refrigerating Machinery or Machines: subject to item 123200	
123280*	Compressors , refrigeration or air conditioning, in boxes or crates, see Note, item 123272, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2	300
Sub 3	2 but less than 4	250
Sub 4	4 but less than 6	175
Sub 5	6 but less than 8	125
Sub 6	8 but less than 10	100
Sub 7	10 but less than 12	92.5
Sub 8	12 but less than 15	85
Sub 9	15 but less than 22.5.....	70
Sub 10	22.5 but less than 30.....	65
Sub 11	30 but less than 35	60
Sub 12	35 but less than 50	55
Sub 13	50 or greater.....	50
123281*	NOTE—Refrigeration or air conditioning compressors may be shipped secured on lift truck skids or pallets without being boxed or crated when having an additional lift truck skid or pallet on top of the handling unit to permit stacking. Entire handling unit must be secured together with strapping in both directions so as to withstand the normal rigors of the less-than- truckload environment.	

Package 2475

1. Articles having a gross weight not exceeding 100 pounds and not exceeding 90 united inches (see Note) may be shipped in corrugated fiberboard boxes testing not less than 200 pounds, **OR**

2. Articles having a gross weight not exceeding 250 pounds and not exceeding 100 united inches (see Note) may be shipped in either doublewall corrugated fiberboard boxes testing not less than 200 pounds or in singlewall corrugated fiberboard boxes testing not less than 275 pounds.

3. Articles having a gross weight not exceeding 250 pounds and not exceeding 100 united inches (see Note) may be shipped in singlewall corrugated fiberboard boxes testing not less than 200 pounds provided that a 1/2-inch clearance is maintained between article and inner walls and ends of box by interior forms or pads.

Note—'United inches' refers to the sum of the length, width and height of the article as packaged for shipment.

SUBJECT 8

Present Classification Provisions—Concluded**Package 2475 Continued**

4. Articles having a gross weight exceeding 250 pounds must be mounted on or rest on a lift truck skid or pallet, or be designed having integral skid base or runners suitable for mechanical handling.

(a) Exposed coil surface area must be fully covered by wood, fiberboard or ³/₄-inch thick expanded plastic foam.

(b) Articles individually outfitted with bases designed for forklift handling, in lieu of in boxes or crates, must have tops protected by a full-dimension wooden framework or doublewall sheet of corrugated fiberboard or a material of equivalent protective properties. When sides and ends of article are not fully protected by wood or fiberboard, vertical corners must be protected by full-height corner posts of wood, fiberboard, expanded plastic foam or any combination thereof.

(c) When packaging components are not secured by an outer fiberboard container, packaging components must be secured in position by banding, pressure-sensitive adhesive, or by wrapping with plastic shrink or stretch film, total plies not less than 2.5 mils in thickness.

Package 2476

Air conditioning units having a gross weight not exceeding 450 pounds and not exceeding 135 united inches may be shipped in either doublewall corrugated fiberboard boxes testing not less than 200 pounds or in singlewall corrugated fiberboard boxes testing not less than 275 pounds.

* Published in Supplement 1 to NMF 100-AY, effective July 19, 2025.

SUBJECT 8

Proposed Classification Provisions

Item	Description	Class
	BOILERS, FURNACES, STOVES AND RELATED ARTICLES GROUP: subject to item 25400	
25525	Boilers, Furnaces, Radiators, Stoves, Related Articles or Parts thereof, viz.: ⇒ Humidifiers, whole house, automatic, etc; [Other Articles Listed—No Change.] Subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2.....	300
Sub 3	2 but less than 4.....	250
Sub 4	4 but less than 6.....	175
Sub 5	6 but less than 8.....	125
Sub 6	8 but less than 10.....	100
Sub 7	10 but less than 12.....	92.5
Sub 8	12 but less than 15.....	85
Sub 9	15 but less than 22.5.....	70
Sub 10	22.5 but less than 30.....	65
Sub 11	30 but less than 35.....	60
Sub 12	35 but less than 50.....	55
Sub 13	50 or greater.....	50
25526	NOTE—No Change.	
25527	NOTE—No Change.	
25528	NOTE—No Change.	
25529	NOTE—No Change.	
25530	NOTE—No Change.	
25531	NOTE—No Change.	
25532	NOTE—No Change.	
25533	NOTE—No Change.	
25534	NOTE—No Change.	
25535	NOTE—No Change.	
25536	NOTE—No Change.	
25538	NOTE—No Change.	
25539	NOTE—No Change.	
25540	NOTE—No Change.	
25541	NOTE—No Change.	
25542	NOTE—No Change.	
25543	NOTE—No Change.	
25544	NOTE—No Change.	
25545	NOTE—No Change.	
57157	Devices , terminal control, forced air distribution, etc	⇒ Cancel; see item A-NEW




SUBJECT 8

Proposed Classification Provisions—Continued

Item	Description	Class
57158	NOTE— ⇒ Cancel; see item B-NEW.	
	ELECTRICAL EQUIPMENT GROUP: subject to 60500	
61700	Electrical Appliances, Equipment or Instruments, or Parts thereof, viz.: ⇒Air Conditioners, Heaters, Dehumidifiers, Humidifiers, Cleaners, Purifiers or Vaporizers, portable, NOI, in boxes; ⇒Fresheners, Cleaners or Purifiers, air, portable, with or without night light, etc; ⇒Humidifiers or Vaporizers, portable, NOI, etc; [Other Articles Listed—No Change.] Subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1	400
Sub 2	1 but less than 2.....	300
Sub 3	2 but less than 4.....	250
Sub 4	4 but less than 6.....	175
Sub 5	6 but less than 8.....	125
Sub 6	8 but less than 10.....	100
Sub 7	10 but less than 12.....	92.5
Sub 8	12 but less than 15.....	85
Sub 9	15 but less than 22.5.....	70
Sub 10	22.5 but less than 30.....	65
Sub 11	30 but less than 35.....	60
Sub 12	35 but less than 50.....	55
Sub 13	50 or greater.....	50
61702	NOTE—No Change.	
61703	NOTE—No Change.	
61704	NOTE—No Change.	
61705	NOTE—No Change.	
61706	NOTE—No Change.	
61707	NOTE—No Change.	
61708	NOTE—No Change.	
61709	NOTE—No Change.	
61710	NOTE—No Change.	
61711	NOTE—No Change.	
61712	NOTE—No Change.	
61713	NOTE—No Change.	
61714	NOTE—No Change.	
61715	NOTE—No Change.	
61716	NOTE—No Change.	
61717	NOTE—No Change.	
61718	NOTE—No Change.	
61719	NOTE—No Change.	


SUBJECT 8

Proposed Classification Provisions—Continued

Item	Description	Class
	ELECTRICAL EQUIPMENT GROUP: subject to item 60500	
61721	NOTE—No Change.	
61722	NOTE—No Change.	
61723	NOTE—No Change.	
61724	NOTE—No Change.	
61725	NOTE—No Change.	
61726	NOTE—No Change.	
61727	NOTE—No Change.	
61728	NOTE—No Change.	
61729	NOTE—No Change.	
61731	NOTE—No Change.	
61732	NOTE—No Change.	
61733	NOTE—No Change.	
61734	NOTE—No Change.	
61735	NOTE—No Change.	
	MACHINERY GROUP: subject to item 114000	
114100	Air Cleaners or Air Filtering Machines , electrostatic or mechanical, without blowers or fans, other than portable, other than fume or gas scrubbers and other than using renewable roll-type filtering media, etc.....	⇒Cancel; see item A-NEW
114110	 Air Cleaners, Dehumidifiers, NOI, or Washers , with blowers or fans, etc	⇒Cancel; see item A-NEW
114125	 Air Conditioners, Air Coolers or Air Handling Equipment, viz.: Air Conditioners or Air Coolers , NOI, with or without compressors or heating apparatus; Air Handlers , with or without heating apparatus; Heat Pumps , air heating or cooling; Refrigeration Condensers , NOI; Refrigeration Evaporators (Cooling Coils or Cooling Units) , NOI, etc.....	⇒Cancel; see item A-NEW
114128	NOTE—⇒Cancel; see Note, item C-NEW.	
114129	NOTE—⇒Cancel; no further application.	
114130	 Air Coolers , water evaporative type, with blowers or fans, with or without heating action, etc	⇒Cancel; see item A-NEW
114142	Air Heaters , other than portable, with blowers or fans, with or without accompanying hardware or accessories, etc	⇒Cancel; see item A-NEW

SUBJECT 8


Proposed Classification Provisions—Continued

Item	Description	Class
	MACHINERY GROUP: subject to item 114000	
114145	 Air Humidifiers , NOI, with blowers or fans, etc	⇒Cancel; see item A-NEW
122865	Heaters , air, solar, window, roof or wall mounting, NOI, with solar collectors, blowers or fans, and thermostat, with or without mounting hardware or accessorial equipment, etc	⇒Cancel; see item A-NEW
122866	Heaters , air, wall mounting, with thermal energy storage rods, blowers or fans, and thermostat, with or without mounting hardware, etc	⇒Cancel; see item A-NEW
122867	NOTE—⇒Cancel; no further application.	
122868	NOTE—⇒Cancel; no further application.	
	Ice Making or Refrigerating Machinery or Machines: subject to item 123200	
123280	Compressors , refrigeration or air conditioning, etc	⇒Cancel; see item A-NEW
123281	NOTE—⇒Cancel; no further application.	

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SUBJECT 8

Proposed Classification Provisions—Continued

Item	Description	Class
	MACHINERY GROUP: subject to item 114000	
⇒A-NEW	 Air Conditioners, Air Coolers, Air Heaters, Air Handling Equipment, or Parts thereof , other than portable, viz.: Air Cleaners, Dehumidifiers, Humidifiers, Purifiers or Washers , NOI; Air Conditioners or Air Coolers , with or without compressors or heating apparatus; Air Handlers , with or without heating apparatus; Air Heaters , NOI; Compressors , refrigeration or air conditioning; Devices , terminal control, forced air distribution, including Variable Air Volume Systems Terminal Units (VAVs), Constant Air Volume Systems Terminal Units (CAVs) or Fan Powered Terminal Units (FPTUs) , see Note, item B-NEW; Energy Recovery Ventilators (ERVs) or Heat Recovery Ventilators (HRVs) ; Heat Pumps , air heating or cooling; Refrigeration Condensers , NOI; Refrigeration Evaporators (Cooling Coils or Cooling Units) , NOI;	
Sub 1	In boxes or crates, see Note, item C-NEW, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 6	200
Sub 3	6 but less than 10.....	125
Sub 4	10 but less than 15.....	92.5
Sub 5	15 or greater.....	70
Sub 6	In packages other than boxes or crates, see Notes, items C-NEW and D-NEW, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 7	Less than 6	250
Sub 8	6 but less than 10.....	150
Sub 9	10 or but less than 15	100
Sub 10	15 or greater	77.5
⇒B-NEW	NOTE—Applies on terminal devices for controlling air pressure, temperature or volume in forced air cooling or heating systems, with or without heating or cooling coils or electric resistance grids.	
⇒C-NEW	NOTE—Accompanying parts for installation may be in boxes.	
⇒D-NEW	NOTE—Articles tendered for shipment on lift truck skids, pallets or platforms must be securely fastened to and must not overhang the edges of the lift truck skid, pallet or platform deck. Exposed surfaces and edges must be protected by packing forms or other packaging materials so as to withstand the normal rigors of the less-than-truckload environment.	

SUBJECT 8

Proposed Classification Provisions—Concluded**Package 2475**

⇒Cancel; no further application.

Package 2476

⇒Cancel; no further application.

Analysis**Introduction**

This proposal was docketed in response to a recommendation from the NMFTA's Weighing and Research Advisory Council, in which it notified the FCDC of several packaging issues related to item 114125. During the course of research, the FCDC expanded the scope to include the transportation characteristics of other types of air handling equipment, as shown in the Present Classification Provisions herein.

Transportation Characteristics

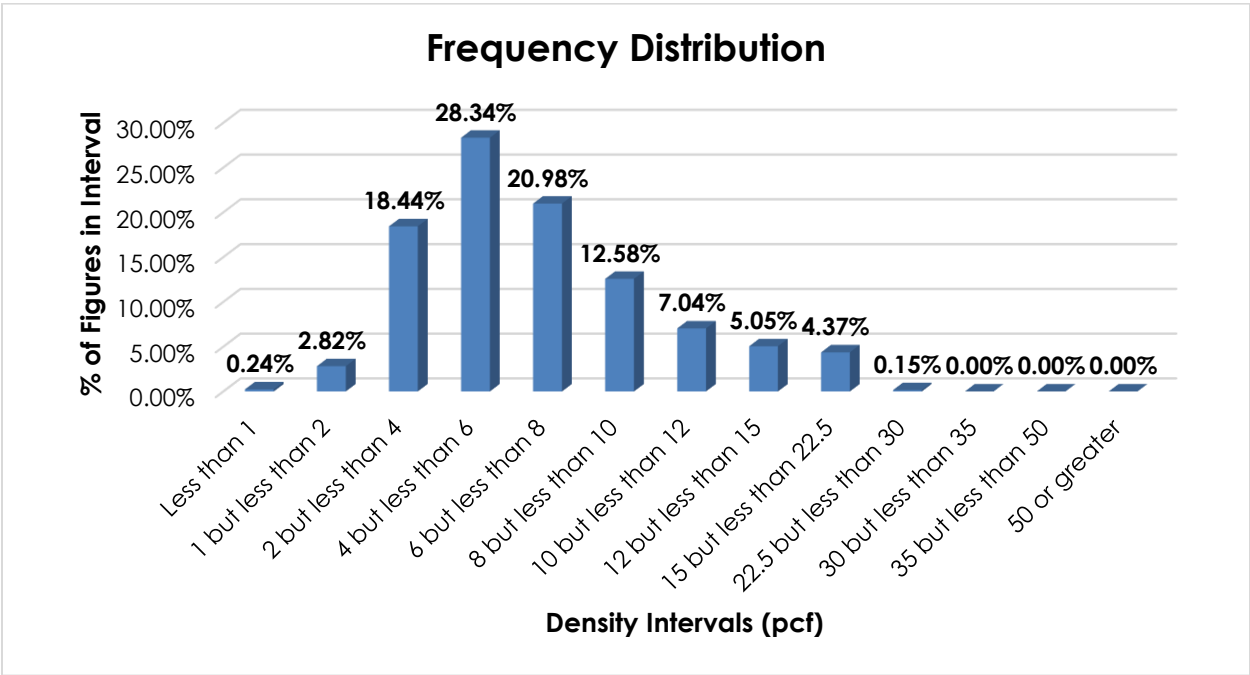
Density—The information of record¹³ includes 84,930 density observations obtained from the FCDC's Density Study¹⁴. The densities range from 0.32 to 23.06 pcf, with an overall average density of 6.88 pcf. As shown in the graph on the following page, the density distribution is right-skewed, with clustering around a distinct peak in the 4 but less than 6 pcf interval. Density breaks at 6, 10 and 15 pcf reflect the modality and spread of the distribution.

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¹³ The data set only includes observations of non-portable air handling equipment and excludes figures moving under item 61700.

¹⁴ The Density Study is part of an ongoing effort by the FCDC to collect information on actual shipments across all product categories handled by the LTL industry. Carriers that choose to participate in the Study periodically submit shipment data captured through their respective freight auditing programs. The FCDC uses verifiable data points, identified by NMFC item, that include the weight and the dimensions and/or cube of the shipping unit.

SUBJECT 8



When the data is evaluated based on the proposed density breaks at 6, 10 and 15 pcf, the density ranges and averages shown in the table below emerge.

Density Groups (pcf)	Density Range (pcf)	Average Density (pcf)
Less than 6	0.32 – 5.99	4.10
6 but less than 10	6.00 – 9.99	7.68
10 but less than 15	10.00 – 14.99	11.88
15 or greater	15.00 – 23.06	18.12

Handling—Air handling equipment may be shipped in boxes or crates, or in packages other than boxes or crates. Articles shipped in boxes or crates should not typically present unusual or significant handling considerations.

When tendered in packages that provide minimal exterior protection, additional care must be taken when handling the freight to avoid damaging the products.

Stowability—When air handling equipment is tendered in boxes or crates, a flat load-bearing surface will typically be present, which can allow for loading other freight on top of the handling unit. There will typically be lateral support for adjacent freight as well.

When air handling equipment is tendered in packages other than boxes or crates, extra care and attention should be given to ensure that only compatible freight is loaded on top of or adjacent to the involved products. This can result in increased time and effort for the carrier to properly structure the vehicle load to mitigate the chance of damage to the commodities.

SUBJECT 8

Liability—As with most general commodities, when tendered for shipment fully enclosed within boxes or crates, air handling equipment should not be unusually susceptible to damage nor likely to damage other freight. However, when tendered in packages other than boxes or crates, air handling equipment exhibits greater susceptibility to damage.

Conclusion

Based on the foregoing analysis, this proposal would cancel items 57157, 114100, 114110, 114125, 114130, 114142, 114145, 122865, 122866, and 123280 with reference to a new item, naming “Air Conditioners, Air Coolers, Air Heaters, Air Handling Equipment, or Parts thereof, other than portable,” with a “viz.” format. The new item would provide classes predicated on packaging and density, with breaks at 6, 10 and 15 pcf¹⁵. The table below relates the information of record to the proposed density groupings and FCDC guidelines for the proposed classes when tendered in boxes or crates and a one-class adjustment from the density guidelines when the articles are tendered in packages other than boxes or crates to reflect the identified negative handling, stowability and liability characteristics.

Density Group (pcf)	Average Density (pcf)	CCSB Minimum Average Density Guideline (pcf)	Class Based on CCSB Density Guidelines	Class Adjustment Based on Handling, Stowability and Liability Considerations
Less than 6	4.10	4	200	250
6 but less than 10	7.68	7	125	150
10 but less than 15	11.88	10.5	92.5	100
15 or greater	18.12	15	70	77.5

Additionally, the “viz.” in item 61700 would be amended by removing two listings and adding, “Air Conditioners, Heaters, Dehumidifiers, Humidifiers, Cleaners, Purifiers or Vaporizers, portable, NOI.” Moreover, the listing for “Humidifiers, whole house, automatic,” would be removed from item 25525.

Furthermore, Notes, items 114129, 122867, 122868, and 123272 would be canceled with no further application. Notes, items 57158 and 114128 would be canceled with reference to two new Notes, attendant to the new item. Another new Note would also be established to provide additional packaging requirements for air handling equipment tendered in packages other than boxes or crates.

¹⁵ The density provisions would include reference to Item (Rule) 170, the inadvertence clause.