AMERISTAR LABELING REQUIRMENTS FOR SERVICE PARTS

1.0 SCOPE

1.1 Purpose - This Standard defines the Brand label information to be applied to Ameristar parts.

1.2 Applicability - This Standard applies to both pre-packaged purchased components used for service parts that are packaged and marked by the component supplier and pre-packaged purchased components shipped direct to customers by the component supplier for Trane Technologies.

2.0 APPLICABLE DOCUMENTS

All documents listed in this Section are the latest revision.

2.1 Referenced Documents

Industry

AIAG B10	- Trading Partner Labels Implementation Guidelines, Using Linear and 2D Symbologies
ISO/IEC 18004	- Information Technology – Automatic Identification and Data Capture Techniques – QR Code Bar Code Symbology Specification

2.2 Related Documents

None.

3.0 GLOSSARY

3.1 Individually Packaged and Labeled / Finished Part – Interchangeable terms based on the ship to location, each term has the part individually packaged and labeled for resale. Finished Part and Individually Packaged and Labeled part numbers may have one of the following Item Types: **PACKAGED & LABELED, FINISHED MDC**, **AUTO WIP**.

3.2 Master Label – Label identifying a part number and quantity of several like parts.

3.3 Pallet Label - Label identifying a part number, quantity and PO of several like parts on one pallet.

3.4 Mnemonic Part Number - A type of finished Trane part number consisting of three alpha and five numeric characters.

3.5 Part Label - Label on individually finished packaged part.

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Authorized By: *Charlie Lipke*
Engineering Leader, Parts

4.0 REQUIREMENTS FOR PURCHASED COMPONENT PACKAGING

4.1 General - Label size shall be selected by the parts supplier to be compatible with the package size and shape and approved by the Supply Management manager. All label information defined in this Standard shall be on the same surface of the package. Specific field information for each part will be supplied on the purchase order or within this Engineering Standard. Overall label size must retain the height to width specified in this Standard. When package size or configuration prohibits this, labels must be approved by Trane Technologies Supply Management manager.

4.1.1 Exceptions to this Standard such as product photos and additional descriptions shall have prior approval of Trane Technologies Supply Management manager.

4.2 Label Material - The supplier shall select a paper quality that is suitable for printing sharp images for Bar Code scanning.

4.2.1 Preferred Facestock Material - 60 Uncoated Kraft White Paper.

4.2.2 Release Liner - The vendor's standard material that compliments the Facestock Material.

4.2.3 Label should have permanent pressure sensitive adhesive P5250.

4.3 Label Format – The Ameristar Label is 2.00 inches x 3.00 inches, and is shown below.

4.3.1 Label Format has PMS color 2768C and tagline ("Heating & Cooling") is 75% black.

4.3.2 Camera ready artwork and color samples will be provided by Supply Management upon request.

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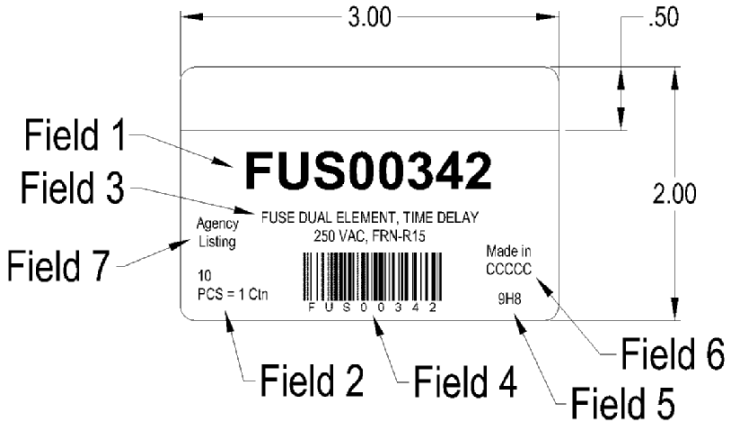
4.4 Information Fields - The printable area of the label consists of seven fields of information. Refer to Figure 1. Fields 1 through 6 are required. Lettering shall be sans serif. Contact the Supply Management category manager for approval of any alteration in label format.



Note: Position and size text approximately as shown, black on white, adhesive backed.

Figure 1

4.4.1 Field 1 - Part Number

Example: 8 characters (3 alpha, and 5 numeric) provided by Supply Management, Part Number shown on purchase order.

4.4.2 Field 2 - Quantity

Single item pack, use “1 Ea”
Multi-pack use: Number of pieces = 1 Ctn (Carton), CS (Case), etc.
Example: 10 PCS = 1 Ctn

4.4.3 Field 3 - Description

Maximum 40 characters per line, 3 lines total. Description shown on purchase order.

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4.4.4 Field 4 - Bar Code

The part number in Field 4 is to be expressed in Code 128, with a character density of 8 and a minimum element size of 0.01 inch. (Element size may be reduced to 0.005 inch if printed by an offset or thermal transfer printer capable of printing readable code with elements as narrow as 0.005 inch.)

The preferred bar code height is 0.5 inch and the minimum height is 0.25 inch.

There must be at least 0.25 inch of white space in either end of the bar code.

The part number in field 1 written in the space in-between the barcode and the bottom of the label as shown in Figure 1.

Bar code must be readable by Standard Bar Code reader/scanners and follow the specifications in AIAG B10.

4.4.5 Field 5 -Package Code

Three character code consisting of alpha and numeric characters. Package Code can be printed horizontally or vertically on the label. The three digit code denotes month, decade and year. An alpha symbol will be used for month, and Numeric symbols will be used for decade and year. The alpha (month) symbol will be the second character of the code, and the numeric (decade and year) symbols reversed in the first and third character positions.

Example: Packaged in January 2006. Package Code 6A0

Year	Month	Decade
6	A	0

4.4.5.1 The alpha code for calendar months is as follows:

Alpha Code	Month	Alpha Code	Month
A	January	G	July
B	February	H	August
C	March	J	September
D	April	K	October
E	May	L	November
F	June	M	December

4.4.6 Field 6 – Country of Origin

Designation of country of origin. This field can be designated as “Assembled in CCCCC” or “Made in CCCCC” as appropriate. “CCCCC” is the country of origin.

4.4.7 Field 7 – Agency Listing or Listings (Optional)

This field is optional. It can be used to list any agency certifications or listings such as UL, CE or other as needed.

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4.5 Label Placement - Labels should be placed in a consistent location from package to package for parts that are the same or similar.

4.5.1 Labels must not cover information such as part number, description, barcode, or other information intended to provide detail about the product(s) inside.

4.5.2 In order to best position parts for display on store shelves, the following label placement guidelines apply.

4.5.2.1 The required label location is the smallest vertical surface of the box, where the depth of the box is 18” or less. If the smallest vertical surface is such that the depth of the box is greater than 18”, place label on next smallest vertical surface, where the depth of the box is 18” or less.

4.5.2.2 If information noted in this standard prevents the application of the label, the label should be placed on surface not covering important part information, or on the next smallest face of the package.

4.5.2.3 In cases where the smallest vertical surface of the box is too small for the label, use the next smallest vertical surface that will fit the label.

4.6 2D-Bar Code

If a 2D-Bar code is applied to the package, the size, format, placement and content must be approved by the Supply Management manager. In particular, if a QR barcode references a website, the Trane Technologies Supply Management manager must approve all content.

A sample must be submitted for this approval.

The preferred bar code height is 1.0 inches and the minimum height is 0.5 inches. The barcode must be readable by Standard Bar Code reader/scanners, and follow the specifications in the International Standard ISO/IEC 18004.

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5.0 REQUIREMENTS FOR MASTER AND PALLET LABELING

5.1 Master Label - At a minimum, each box must be labeled with a Master Label on two adjacent sides of the box as indicated by the green labels on the pallet below. Additionally, one of those labels should be faced toward the outside of the pallet to facilitate access to the barcodes. Master labels will contain the part number and quantity.

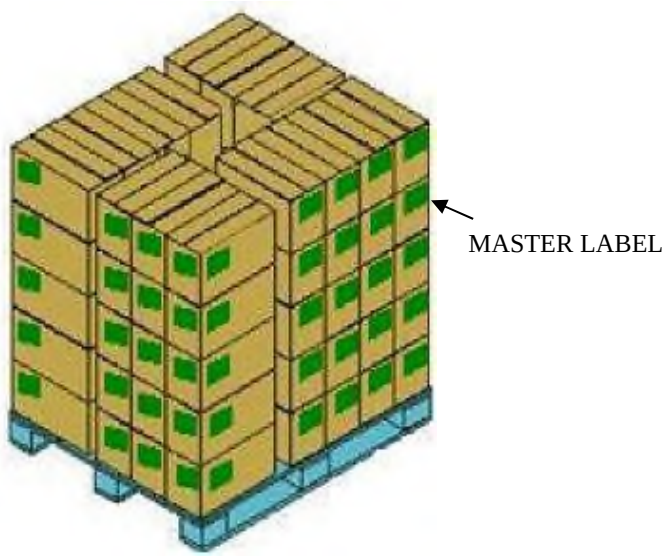
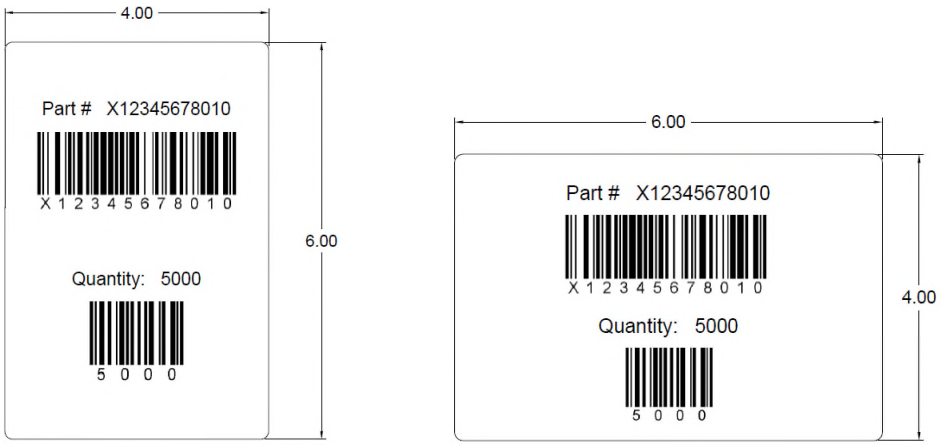


Figure 2



Note: Position and size text are approximate as shown, black on white, adhesive backed.

Figure 3 - Master Label (Portrait and Landscape)

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5.2 Pallet Label (for both Bulk and Finished Parts) - The pallet label is applied to two sides of the pallet. If the pallet contains multiple Part Numbers/PO Numbers, there will be two pallet labels for each Part Number/PO Number. The pallet label will contain the part number, quantity and PO for the pallet. An example is shown below where the blue rectangles represent the pallet labels.

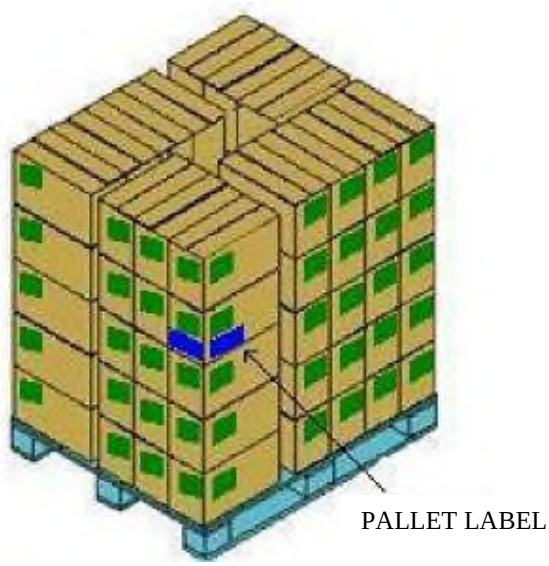
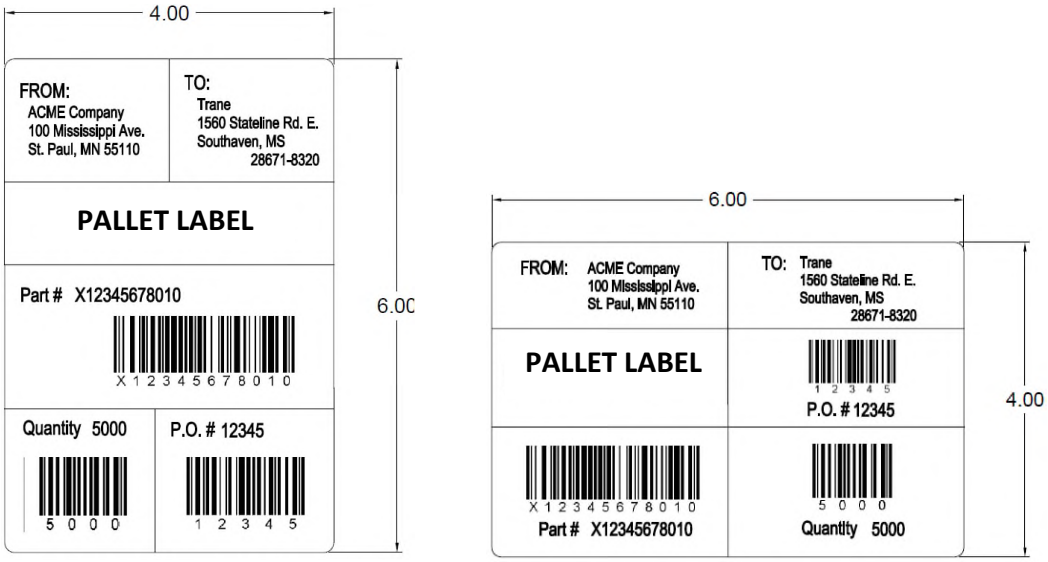


Figure 4



Note: Position and size text are approximate as shown, black on white, adhesive backed.

Figure 5 - Pallet Label (Portrait and Landscape).

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5.3 Palletization - When sending a pallet of multiple Part Numbers/PO Numbers, no boxes should be located in the middle of the pallet where it would require breaking down the pallet to reach the barcodes as indicated below. Any pallet of like parts containing Serial Numbers should have a list of all Serial Numbers listed on Master Label if all Serial Numbers are not accessible without breaking down pallet.

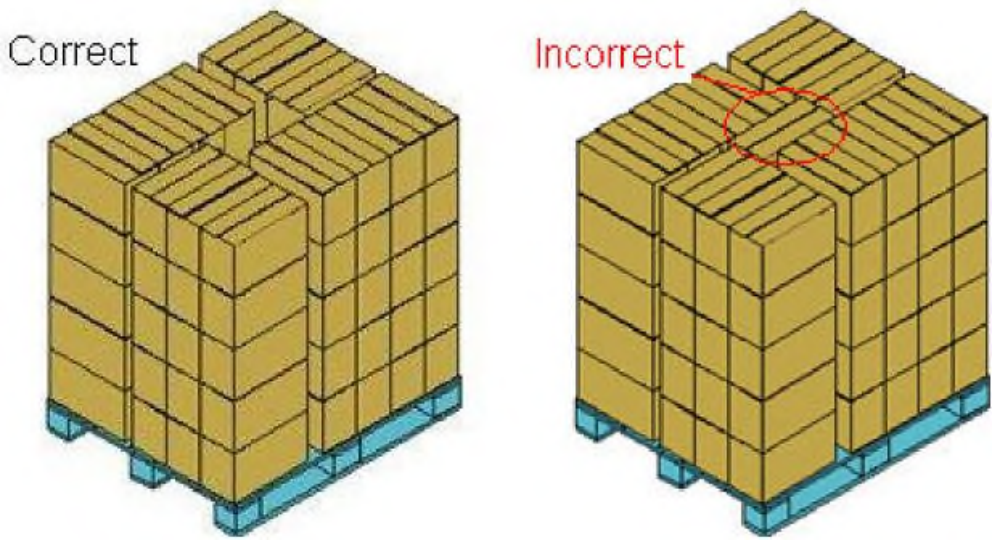

Figure 6

5.4 General Specifications of Product Identification Labels for Boxes and Pallets

5.4.1 Barcodes and labels presented in this document refer to AIAG standards as appropriate. This document takes precedence when discrepancies between this document and the AIAG standard exist.

5.4.2 Barcodes used for individual part identification (AIAG B-4) will be CODE 128 and will not contain data identifiers.

5.4.3 If stretch wrap is used on the pallets, please ensure that all Pallet Labels are clearly visible through the stretch wrap, placing labels on the outside of the stretch wrap when feasible.