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IIAR Pipe Markers

Ammonia Refrigeration Pipe Markers

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Label size, text height, and label placement for ammonia pipe markers should conform to ANSI / ASME A13.1 guidelines.

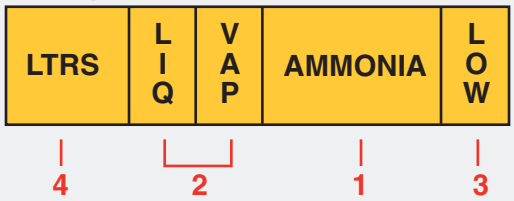
The International Institute of Ammonia Refrigeration (IIAR) standardized ammonia pipe labeling when it published its bulletin #114, "Guidelines for Identification of Ammonia Refrigeration Piping and System Components."

Brady offers a variety of ammonia pipe markers that comply with the IIAR's established guidelines, including self-adhesive markers, snap-around marker styles, and pipe markers recommended for harsh environments (both indoors and outside).

Summary of IIAR Standard

Purpose: To create a uniform system for identification of ammonia refrigeration piping and system components. Brady also offers a selection of abbreviations not currently covered in the IIAR standard, see* below.

Example:



Pipe Markers
The pipe marker should have four sections plus arrows:

1. **Marker Body** – "Ammonia" - black letters on yellow background
2. **Physical State** – the physical state of the refrigerant located to the left of "Ammonia":
   a. If Liquid – "LIQ" - black or white on orange background
   b. If Vapor – "VAP" - black or white on sky blue background
   c. If Both – "LIQ" "VAP" - both printed in colors above
3. **Pressure Level** – the pressure level of the refrigerant located to the right of "Ammonia":
   a. If High Pressure – "HIGH" - black or white on red background
   b. If Low Pressure – "LOW" - black or white on green background

Directional Arrows – Brady markers use stock arrow tape to indicate flow direction.

4. **Ammonia Piping Abbreviation**

Abbr.	System
BD	Booster Discharge
CD	Condenser
DC	Defrost Condensate
EQ*	Equalizer
ES	Economizer Suction
HGD	Hot Gas Defrost
HPL	High Pressure Liquid
HSD	High Stage Discharge
HSS	High Stage Suction
HTS*	High Temperature Suction
HTRL	High Temperature Recirculated Liquid

Abbr.	System
HTRS	High Temperature Recirculated Suction
LTRL	Low Temperature Recirculated Liquid
LTS*	Low Temperature Suction
LTRS	Low Temperature Recirculated Suction
LIC	Liquid Injection Cooling
LSS	Low Stage Suction
PO*	Pump Out
PU*	Purge
RV	Relief Vent
TSR	Thermosyphon Return
TSS	Thermosyphon Supply

*Not currently covered in the IIAR standard