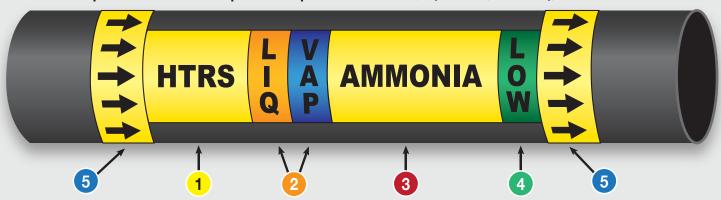
# **AMMONIA REFRIGERATION SYSTEM**

PIPE MARKING GUIDE In compliance with the International Institute of Ammonia Refrigeration (IIAR) Standards

Ammonia Pipe Markers have five important components: Abbreviations, Physical State, Marker Body, Pressure Level & Flow Direction



#### ABBREVIATIONS

- Abbreviations for Ammonia System Components
- Printed in black on yellow

#### 2 PHYSICAL STATE

- LIQ = Liquid (black or white printed on orange)
- VAP = Vapor (black or white printed on blue)
- LIQ/VAP If both states exist, use both

# 3 MARKER BODY 4

- AMMONIA
- Printed in black on yellow

# 4 PRESSURE LEVEL

- HIGH (black or white printed on red)
- LOW (black or white printed on green)

BD	=	Booster Discharge
CD	=	Condenser
DC	=	Defrost Condensate
ES	=	Economizer Suction
HGD	=	Hot Gas Defrost
HPL	=	High Pressure Liquid
HSD	=	High Stage Discharge
HSS	=	High Stage Suction
HTRL	=	High Temp Recirculated Liquid
HTRS	=	High Temp Recirculated Suction
LIC	=	Liquid Injection Cooling
LSS	=	Low Stage Suction
LTRL	=	Low Temp Recirculated Liquid
LTRS	=	Low Temp Recirculated Suction
RV	=	Relief Vent
TSR	=	Thermosyphon Return

# VAP LIQ LIQ VAP VAP LIQ VAP VAP LIQ LIQ/VAP LIQ **VAP** LIQ LIQ/VAP VAP LIQ/VAP LIQ

# LOW HIGH HIGH LOW HIGH HIGH HIGH LOW **AMMONIA** LOW LOW HIGH LOW LOW LOW HIGH HIGH HIGH

# 5 FLOW DIRECTION

**TSS** = Thermosyphon Supply

- Indicates the direction of flow of the system contents
- Place arrows at one or both ends of the Pipe Marker

This guide is for general information purposes only. It is not a substitute for review of applicable laws and standards.

#### PIPE MARKER SIZE SPECIFICATIONS

Label size, text height, and placement should follow ANSI / ASME A13.1 guidelines.

OUTSIDE PIPE DIAMETER (including covering)	. <b>75" - 1.25"</b> (19mm - 32mm)	<b>1.5" - 2"</b> (38mm - 51mm)	<b>2.5" - 6"</b> (64mm - 152mm)	<b>8" - 10"</b> (203mm - 254mm)	<b>OVER 10"</b> (over 254mm)
MINIMUM LENGTH OF LABEL (field color)	8" (203mm)	8" (203mm)	12" (305mm)	<b>24"</b> (610mm)	<b>32"</b> (813mm)
MINIMUM HEIGHT OF LETTERS	<b>0.5"</b> (13mm)	<b>0.75"</b> (19mm)	1.25" (32mm)	<b>2.5"</b> (64mm)	3.5" (89mm)



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- Repositionable
- · Tear-Resistant Tag Stock
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Pipe marking arrows come in a variety of colors & sizes.



