

KOLBI

PIPE MARKER CO.

2024

AMMONIA

IDENTIFICATION CATALOG

2024 EDITION

www.kolbipipemarkers.com | 800-499-8450 | sales@kolbipipemarkers.com

Welcome to Our Catalog

Kolbi has specialized in the manufacturing of identification products for over 50 years. Our manufacturing lead times, product quality, and customer service are unmatched in the industry, earning us a reputation for excellence and integrity. Our foundation is built on these three values:

Quality

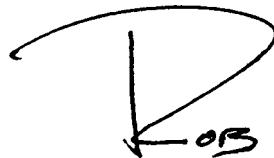
We guarantee your satisfaction with every order and care too much to have it any other way. Our products exceed industry standards and are made to last. We strive to do it right the first time, but on those rare occasions we do not...we promise to make it right.

Service

Our job is to make you look good. With over half a million products in stock, we go all out to ship your order the same day it's placed. We are here to assist you in any way we can and to make every transaction seamless. Whomever takes your order in our office or manufactures it in our factory, it will be someone who really cares.

Simplicity

Your job is complicated enough, so we try to make ordering as simple as possible. Place orders the way you want and get exactly what you ordered. When you use Kolbi, you're dealing directly with the manufacturer. We really know our business and work hard to understand yours.



Rob Seitz
President and Owner
Kolbi Pipe Marker Co.



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Ammonia Identification

IIAR-2-2021

Guidelines for Ammonia Refrigeration Pipe Markers

Bulletin 114 was developed and published in 1991 as means to establish uniformity among ammonia refrigeration users and practitioners in identifying refrigerant piping. The basis of the guidelines was ANSI Standard A1.1-1981 "Scheme for Identification of Piping systems". In 2007 ANSI A13.1 was released to indicate that orange backgrounds, rather than yellow should be used to indicate toxic and corrosive fluids (i.e. Ammonia). Bulletin 114 was updated in 2014 to reflect this standard. IIAR-2-2021 appendix Q is the most recent standard.



Pipe Marker Components

Pipe Marker Body

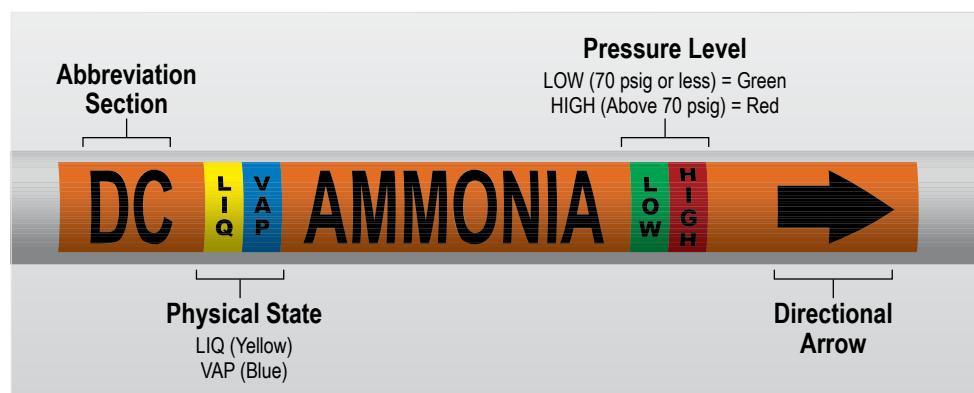
- The body of the marker should be "SAFETY ORANGE" and the text to be BLACK.
- Should follow ANSI 13.1 sizing chart (see bottom right corner of this page).
- Should Include the Pipe System in the Abbreviation Section.

Pressure Level

- If the pressure level exceeds 70 psig the pressure should be indicated as HIGH printed black on a red band.
- If the pressure level is at or below 70 psig the pressure should be indicated as LOW printed black on a green band (as seen in the above example).

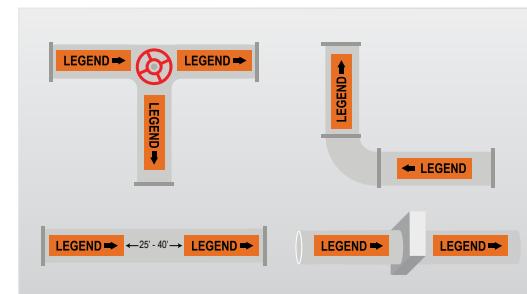
Physical State

- If refrigerant state is liquid, LIQ should be printed black on a yellow band.
- If refrigerant is in the vapor state, VAP should be printed black on a sky blue band.
- If the refrigerant is in both vapor and liquid states both VAP and LIQ bands should be present.



Pipe Marker Placement

- Before and after a change in piping direction.
- Before and after piping penetrates walls, ceilings and floors.
- On extended horizontal or vertical runs of pipe, with a maximum spacing of 40ft between markers.



ANSI/IIAR Pipe Marker Size Minimums (Per ANSI 13.1)

Diameter (O.D.) Range	Marker Width	Marker Length	Letter Size	Physical State	Pressure Level
Up to 1-1/4"	1"	8"	1/2"	1/2"	1/2"
Greater than 1-1/4"-2"	1-1/2"	8"	3/4"	3/4"	3/4"
Greater than 2"-7"	2-1/2"	12"	1-1/4"	1"	1"
Greater than 7"-10"	3-1/2"	24"	2-1/2"	1-1/2"	1-1/2"
Over 10"	4-1/2"	32"	3-1/2"	2"	2"

Ammonia Identification

Yellow Ammonia Markers Available Upon Request



CO2 and Other Refrigerant Legends Available Upon Request



Ammonia Legends

Item #	Legend	Abbr.	State	Pressure
A1	BOOSTER DISCHARGE	BD	VAP	LOW
A1A	BOOSTER SUCTION	BS	VAP	LOW
A2	CONDENSER DRAIN	CD	LIQ	HIGH
A3	DEFROST CONDENSATE	DC	LIQ	HIGH
A3A	DEFROST CONDENSATE	DC	LIQ VAP	HIGH
A4	ECONOMIZER SUCTION	ES	VAP	LOW
A5	EQUALIZER	EQ	VAP	HIGH
A6	FOUL GAS	FG	VAP	LOW
A6A	FOUL GAS	FG	VAP	HIGH
A7	HIGH PRESSURE LIQUID	HPL	LIQ	HIGH
A8	HIGH STATE DISCHARGE	HSD	VAP	HIGH
A9	HIGH STATE SUCTION	HSS	VAP	LOW
A10	HIGH TEMP RECIRCULATED LIQUID	HTRL	LIQ	LOW
A11	HIGH TEMP RECIRCULATED SUCTION	HTRS	LIQ VAP	LOW
A12	HIGH TEMP SUCTION	HTS	VAP	LOW
A13	HOT GAS	HG	VAP	HIGH
A14	HOT GAS DEFROST	HGD	VAP	HIGH
A15	INTERMEDIATE PRESSURE LIQUID	IPL	LIQ	LOW
A15A	LIQUID DRAIN	LD	LIQ	LOW
A16	LIQUID INJECTION COOLING	LIC	LIQ	HIGH
A17	LIQUID TRANSFER	LT	LIQ	LOW
A18	LOW STAGE SUCTION	LSS	VAP	LOW

Item #	Legend	Abbr.	State	Pressure
A18A	LOW TEMPERATURE LIQUID	LTL	LIQ	LOW
A18B	LOW LOW TEMPERATURE LIQUID	LLTL	LIQ	LOW
A19	LOW TEMP RECIRCULATED LIQUID	LTRL	LIQ	LOW
A19A	LOW LOW TEMPERATURE RECIRCULATED LIQUID	LLTRL	LIQ	LOW
A20	LOW TEMP RECIRCULATED SUCTION	LTRS	LIQ VAP	LOW
A20A	LOW LOW TEMPERATURE RECIRCULATED SUCTION	LLTRS	LIQ VAP	LOW
A21	LOW TEMP SUCTION	LTS	VAP	LOW
A22	MEDIUM TEMP RECIRCULATED LIQUID	MTRL	LIQ	LOW
A23	MEDIUM TEMP RECIRCULATED SUCTION	MTRS	LIQ VAP	LOW
A24	MEDIUM TEMP SUCTION	MTS	VAP	LOW
A24A	OIL DRAIN	OD	N/A	N/A
A25	PUMP OUT	PO	N/A	N/A
A25A	PURGE	PRG	VAP	HIGH
A26	PURGE LINE	PL	VAP	HIGH
A27	RELIEF VENT	RV	VAP	LOW
A28	RELIEF VENT	RV	VAP	HIGH
A28A	SUB-COOLED LIQUID	SCL	LIQ	HIGH
A29	THERMOSYPHON RETURN	TSR	LIQ VAP	HIGH
A30	THERMOSYPHON SUPPLY	TSS	LIQ	HIGH
A31	THERMOSYPHON VENT	TSV	VAP	HIGH
A32	SUB COOLED HIGH PRESSURE LIQUID	SCHPL	LIQ	HIGH
A33	DEFROST RETURN	DR	LIQ VAP	LOW

Arrow Banding Tape

The most effective way to install adhesive pipe markers. Arrow Banding Tape indicates directional flow to your pipe marker installation and provides additional adhesion in any environment.

- Durable pressure sensitive vinyl with permanent adhesive
- Long 30 yard rolls
- Up to 3 years outdoor life expectancy
- Application: Clean and dry surface above 50° F
- Used with adhesive markers to meet IIAR-2-2021 standards

BANDING TAPE CHART	
Diameter*	Markers**
1"	130
2"	74
3"	52
4"	40
5"	32
6"	27
7"	23
8"	21
9"	18
10"	17

* Diameter includes insulation
** Includes 1" overlap per band

CUT TO LENGTH ROLLS
FIT ANY APPLICATION



Roll Size	Pipe Diameter (includes insulation)	Arrow Size	PRICING			CUSTOM		
			1-9	10-24	25+	3-9	10-24	25+
1" Tape	For less than 1.3"	0.5"	22.22	19.82	17.46	31.13	27.76	24.44
1" Tape	1.4" - 2.4"	0.75"	22.22	19.82	17.46	31.13	27.76	24.44
2" Tape	2.5" - 6.7"	1.3"	42.56	37.94	33.35	59.58	53.18	46.69
3" Tape	6.8" - 10"	2.5"	60.96	54.10	47.68	82.31	73.35	64.63
4" Tape	Over 10"	3.5"	78.75	70.22	61.39	106.32	94.75	83.45

Combine quantities for best pricing.



Ammonia Identification

Wrap Around Ammonia Markers

Our pre-coiled markers simply snap onto pipes, significantly reducing install time. These markers easily go over dirty/greasy pipes or insulation without any cleaning or preparation.

- Outdoor life expectancy up to 5 years
- Ideal for indoor installation
- Standard orange background color
- Yellow background available
- Meets IIAR-2-2021 Appendix Q Specifications
- Temperature range -40°F to 180°F



Style	Pipe OD including insulation	Shape	Marker Width	Letter Size	PRICING		
					1-49	50-99	100+
AWA	3/4" to 1 1/2"	Coiled	8"	1/2"	9.37	7.43	6.44
AWB	1-1/8" to 2-1/4"	Coiled	8"	3/4"	9.98	7.92	6.87
AWC	2-1/2" to 3-1/4"	Coiled	12"	1-1/4"	11.91	9.45	8.17
AWD	3-3/8" to 4-1/2"	Coiled	12"	1-1/4"	15.11	11.96	10.39
AWE	4-5/8" to 5-7/8"	Coiled	12"	1-1/4"	16.54	13.10	11.36
AWFF*	6" to 7-7/8"	Flat	12"	1-1/4"	16.54	13.10	11.36
AWF**	6" to 7-7/8"	Coiled	12"	1-1/4"	24.75	21.57	17.96
AWGF*	8" to 10"	Flat	24"	2-1/2"	22.05	17.47	13.85
AWG**	8" to 10"	Coiled	22-1/2"	2-1/2"	32.42	28.17	23.80
AWHF*	10"+	Flat	32"	3-1/2"	23.65	18.73	14.87
AWH**	10"+	Coiled	22-1/2"	3-1/2"	35.72	32.14	28.96

Additional Nylon Ties 36" (WF) .65 48" (WG/WH) .90

*Ships flat with nylon ties included. **Styles AWF, AWG and AWH include adhesive strip - these are full Wrap Arounds.

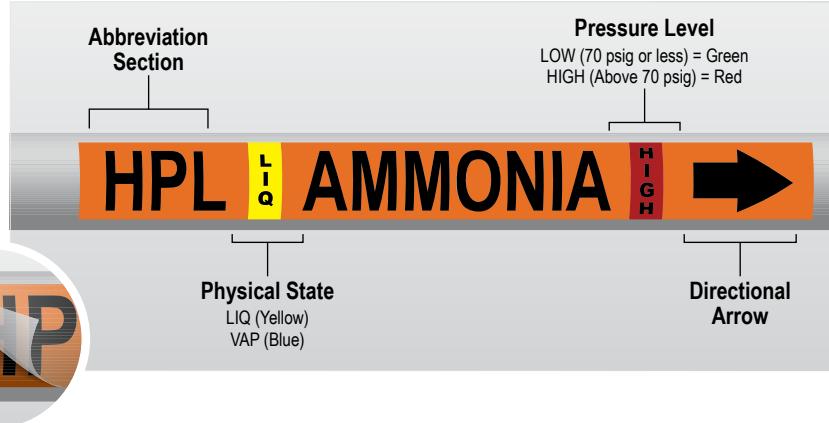
Combine quantities for best pricing.

Adhesive Ammonia Markers

Easy to install pressure-sensitive vinyl markers. All of our markers are designed for easy removal from the liner and quick installation in the field. Standard Adhesive Ammonia Markers come with a weatherproof UV resistant overlaminates to ensure longevity in the label's intended environment.

- Durable pressure sensitive vinyl material with permanent adhesive
- Includes weather proof UV resistant overlaminates
- Outdoor life expectancy up to 5+ years
- Temp range of -40°F to 176°F
- Standard orange background
- Yellow background available
- Meets IIAR-2-2021 Appendix Q Specifications
- Apply to a clean and dry surface above 50°F

OVERLAMINATED FOR EXTRA PROTECTION (at no extra cost)



Kolbi Style	Pipe OD (including insulation)	Letter Size	Marker Size	PRICING		
				1-49	50-99	100+
AA	3/4" to 1-1/4"	1/2"	1" x 9"	3.73	3.47	3.30
AB	1-1/2" to 2-1/4"	3/4"	1-1/2" x 12"	5.16	4.80	4.56
AC	2-1/2" to 7-7/8"	1-1/4"	2-1/2" x 16"	6.46	6.01	5.71
AD	8" to 10"	2-1/2"	3-1/2" x 24"	8.40	7.81	7.42
AE	Over 10"	3-1/2"	4-1/2" x 32"	10.53	9.79	9.30

Combine quantities for best pricing.

Ammonia Identification

High Performance Pipe Markers

Kolbi High Performance Markers are manufactured to withstand high temperatures, harsh chemicals and intense UV exposure. No surface preparation, cleaning or drying of the pipes is necessary. Allowing for quicker installation than self-adhesive markers.

- Made of polyester, UV resistant ink and Polyester overlaminates to ensure chemical and UV resistance
- Average outdoor life expectancy up to 5+ years
- Rated from -40°F to 248°F (-40°C to 120°C)
- Sizes AHPA through AHPG coil completely around the pipe and are secured tight with an attached adhesive strip
- 360° View on pipes for sizes AHPA through AHPG
- Arrows included on every marker to indicate flow direction
- Meets IIAR-2-2021 Appendix Q Specifications



Pipe OD (Incl. Insulation)	Kolbi Style	Marker Length around the pipe (circumference)	Marker Width	Letter Size	Type	Installation Method	PRICING		
							1 - 99	100 - 249	250 +
Less than 0.5"	AHPA	2"	4"	0.25"	Precoiled	Adheres to itself with adhesive strip	4.20	3.95	3.79
0.5" - 1.3"	AHPB	5"	8"	0.5"	Precoiled	Adheres to itself with adhesive strip	6.25	5.88	5.64
1.4" - 2.4"	AHPC	9"	8"	0.75"	Precoiled	Adheres to itself with adhesive strip	8.40	7.90	7.58
2.5" - 4.75"	AHPD	17"	12"	1.25"	Precoiled	Adheres to itself with adhesive strip	11.39	10.70	10.27
5" - 7.875"	AHPE	26"	12"	1.25"	Precoiled	Adheres to itself with adhesive strip	14.87	13.98	13.42
8" - 10"	AHPF*	34"	24"	2.5"	Flat - coil on site	Adheres to itself with adhesive strip	28.00	26.32	25.27
10" - 14"	AHPG*	46"	32"	3.5"	Flat - coil on site	Adheres to itself with adhesive strip	32.00	30.08	28.88

*AHPF & AHPG markers come flat and wrap completely around the pipe by the installer.

Aluminum Ammonia Carriers

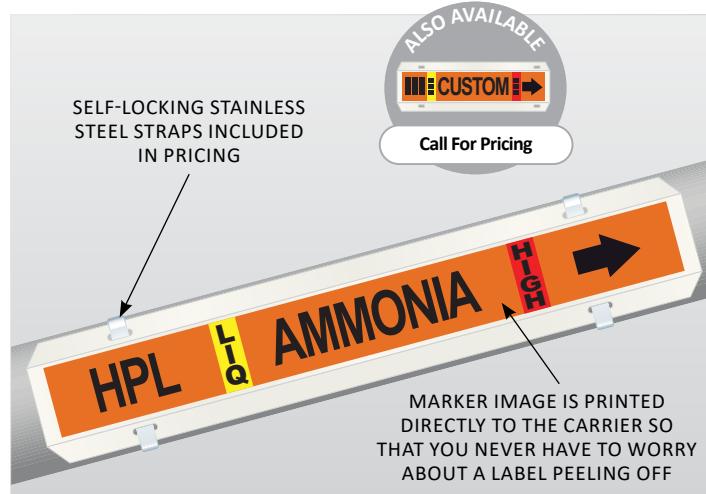
Engineered to last in the harsh environment of your facility's roof.

Aluminum carrier markers are crack-resistant and weatherproof and are installed with stainless steel straps to ensure your marker stays fastened to the pipe during high winds. The pipe's system information is protected with a UV and chemical resistant polyester overlamine.

- High Temperature range of up to 300°F
- Outdoor life expectancy up to 8+ years
- Highly resistant to UV exposure
- Crack resistant powder coated aluminum carrier
- Easy to install
- Includes two pre-cut 316 stainless steel self-locking straps
- Meets IIAR-2-2021 Appendix Q Specifications
- Extra arrow included



Strapping Tool 139.50



Style	Pipe OD (Incl. Insulation)	Letter Size	Carrier Size	Carrier Dimensions	PRICING			Additional Arrow Price	SS Strap Length	Additional SS Straps
					1-49	50-99	100+			
CAB	1-3/8" to 2"	3/4"	Extra Small	2-1/2"H x 14"W	14.37	13.51	12.97	0.58	33"	.80
CAC	2-1/8" to 7"	1-1/4"	Small	3-1/2"H x 20"W	18.40	17.30	16.60	1.59	33"	.80
CAD	7-1/8" to 10"	2-1/2"	Medium	4-7/8"H x 26"W	22.93	21.56	20.69	2.12	47"	1.20
CAE	Over 10"	3-1/2"	Large	6-3/16"H x 33"W	26.26	24.68	23.69	2.92	60"	1.50

Combine quantities for best pricing.

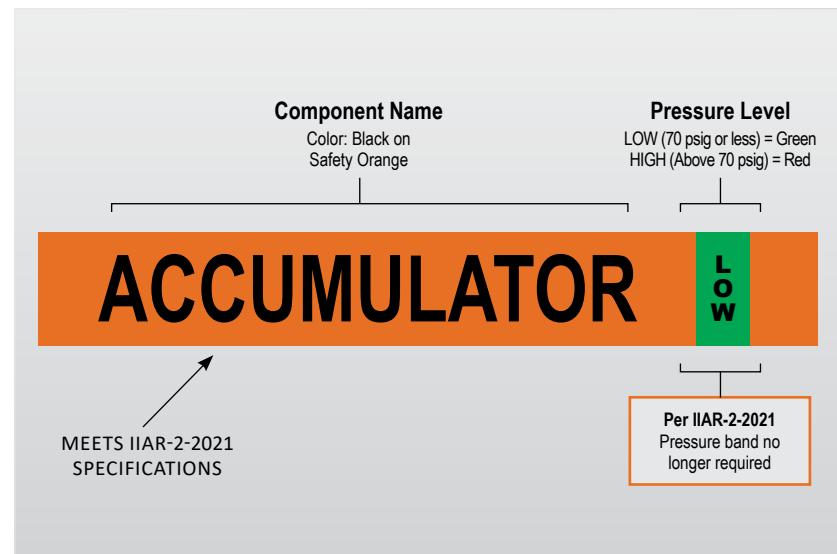


Ammonia Identification

Component Markers

For easy identification of all your Ammonia Refrigeration System Components. We offer component markers in the standard IIAR legends as well as custom solutions to your specialized component marker needs.

- Durable pressure-sensitive vinyl material with permanent adhesive
- Component markers are manufactured with UV resistant ink and laminated with a UV resistant overlaminates to reduce fading in the sun.
- Temperature range of -40°F to 176°F
- Standard background color is orange (Yellow backgrounds are available upon request)
- Indicate pressure level when ordering (Note: per current IIAR-2-2021 the pressure label is no longer required)
- Apply to clean/dry surface above 50°F
- For a higher temperature rating (up to 250°F) polyester component markers are available



Style	Letter Size	Marker Size	1-49	50-99	100+
ACM	2-1/2"	3-1/2" x 24"	7.70	6.13	5.51

Combine quantities for best pricing.

STANDARD COMPONENT MARKER LEGENDS

Item#	Legend	ABBR
AC1	ACCUMULATOR	ACC
AC2	AIR COOLED CONDENSER	AC
AC3	AIR HANDLING UNIT	AHU
AC4	AIR UNIT	AU
AC5	BOOSTER COMPRESSOR	BC
AC6	CONTROLLED PRESSURE RECEIVER	CPR
AC7	EVAPORATIVE CONDENSER	EC
AC8	HEAT EXCHANGER	HEX
AC9	HIGH PRESSURE RECEIVER	HPR

Item#	Legend	ABBR
AC10	HIGH STAGE COMPRESSOR	HSC
AC11	HIGH TEMPERATURE RECIRCULATOR	HTR
AC12	INTERCOOLER	IC
AC13	LIQUID TRANSFER UNIT	LTU
AC14	LOW TEMPERATURE COMPRESSOR	LTC
AC15	LOW TEMPERATURE RECIRCULATOR	LTR
AC16	LOW LOW TEMP RECIRCULATOR	LLTR
AC17	OIL POT	OP
AC18	OIL SEPARATOR	OS

Item#	Legend	ABBR
AC19	PILOT RECEIVER	PR
AC20	PURGE UNIT	PRG
AC21	REFRIGERANT PUMP	RP
AC22	REFRIGERATED MAKE-UP AIR UNIT	RMAU
AC23	ROOFTOP AIR UNIT	RTU
AC24	SURGE DRUM	SD
AC25	SWING COMPRESSOR	SWC
AC26	THERMOSYPHON RECEIVER	TSR
AC27	WATER COOLED CONDENSER	WC

Ammonia Mini Carrier Markers

The only carrier marker designed for pipes less than 1-3/8 diameter. Engineered to last in the harsh environment of your facility's roof. Stainless steel carrier markers are crack-resistant and weatherproof and are installed with stainless steel straps to ensure your marker stays fastened to the pipe during high winds. The pipe's system information is protected with a UV and chemical resistant polyester overlaminates.

- The most durable solution for your pipes
- Resistant stainless steel
- Stainless steel straps included

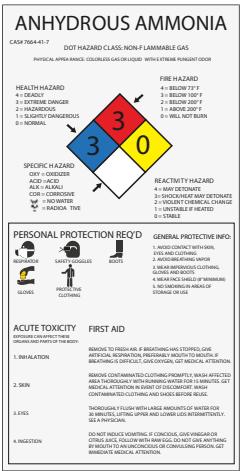
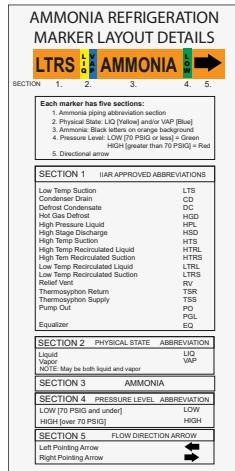


Style	Pipe OD (Incl. Insulation)	Letter Size	Carrier Size	Carrier Dimensions	1-49	50-99	100+	Additional Arrow Price	SS Strap Length	Additional SS Straps
CAA	1/2" to 1-1/4"	1/2"	Mini	1-1/2" x 10"	11.48	10.56	9.92	0.43	8"	0.37

Ammonia Identification

Ammonia Plant Signage

Kolbi offers standard cold storage plant signage or can produce signs for your custom needs.



Informational Signage

- Signs measure 24" x 12"
- UV resistant pressure-sensitive vinyl
- UV .040 plastic (adhesive backing)



PRICING

Style	PRICING
Pressure-Sensitive Vinyl	30.21
Plastic (.040)	36.57



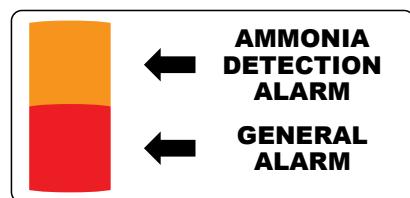
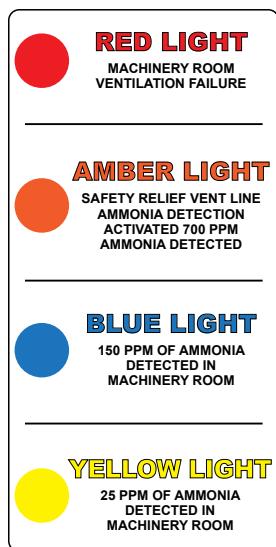
Standard Engine Room Signage

- Signs measure 7" x 12"
- 6 mil adhesive backed vinyl or .040 plastic
- Sold individually or in sets that include all 6 labels

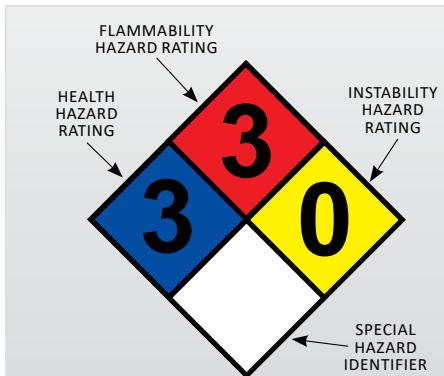
PRICING

Style	Individual	Set of 6
Pressure-Sensitive Vinyl	7.84	41.34
Plastic (.040)	9.54	50.35

Stack Light Signs



Custom NFPA Signs



HAZARD RATING SYMBOLS

Symbol	Description
OX	Oxidizing
SA	Simple Asphyxiants
W	Reacts violently or explosively with water

- Meets NFPA 704 requirements
- Select the appropriate rating numbers (0 – 4)
- Durable vinyl material with permanent, pressure sensitive adhesive
- Other materials available

PRICING

Size	1-9	10-24	25-49
10" x 10"	21.35	18.79	16.73
15" x 15"	28.82	25.07	21.75

Other sizes available. Call for Info.



Ammonia Identification

Ammonia Valve Tags

Kolbi's high performance valve tags are engineered for the harsh conditions on your plant's roof.



Stainless Steel

- .030 Type 316 steel
- 3/16" top hole standard
- Temperature range: -40°F to 2400°F
- Barcode and QR codes available
- Outdoor durability

Size/Shape	SINGLE SIDED PRICING			DOUBLE SIDED PRICING		
	1-99	100-249	250+	1-99	100-249	250+
1-1/2" Round	5.38	4.93	4.67	7.26	6.65	6.30
2" Round	5.85	5.45	5.17	7.89	7.35	6.97
1-1/2" Square	5.38	4.93	4.67	7.26	6.65	6.30
2" Square	5.85	5.45	5.17	7.89	7.35	6.97

Plastic

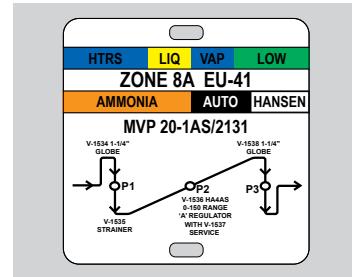
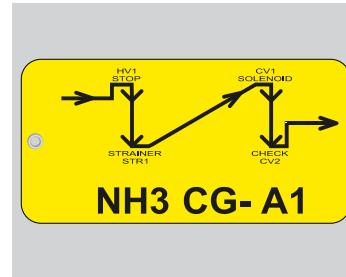
- Grommets included
- 1/8" top hole standard
- 2-ply, orange or yellow material
- 1/8" outdoor grade plastic
- Temperature range: -40°F to 175°F
- Barcode and QR codes available

Size/Shape	SINGLE SIDED PRICING			DOUBLE SIDED PRICING		
	1-99	100-249	250+	1-99	100-249	250+
1-1/2" Round	2.56	2.32	2.02	3.50	3.13	2.75
2" Round	3.07	2.87	2.57	4.10	3.87	3.47
1-1/2" Square	2.56	2.32	2.02	3.50	3.13	2.75
2" Square	3.07	2.87	2.57	4.10	3.87	3.47

Ammonia Multi-Valve Tags

Kolbi Multi-Valve tags can be made out of a wide variety of materials, in any shape and size to fit your needs.

PLEASE CONTACT US FOR YOUR CUSTOM TAG NEEDS!



Multi-Valve Tags

- Stainless Steel

Size	1-99	PRICING	100-249	250+
1-1/4" x 3"	6.93		6.17	5.61

Block Valve Tags

- Engraved Multi-ply Plastic

Size	1-99	PRICING	100-249	250+
2" x 4"	6.80		6.05	5.50

Combination Tags

- Stainless Steel & Aluminum

Size	1-99	PRICING	100-249	250+
3" x 3" SS	9.51		8.46	7.70
3" x 3" AL	6.47		5.75	5.24

Valve Tag Accessories

Stop using tie wire, make your valve tagging application quick and professional looking by using these valve tag accessories. Other accessories available by request.



Heavy Duty Self-Locking Ties

- Tamper Proof
- Galvanized Steel Cable
- No installation tools necessary

14" Stainless Steel 3.12 each
6" Stainless Steel 1.75 each



Aluminum 2 Hole Seal With Steel 12" Wire

- 12" long Galvanized Steel Cable
- Lightweight and can be easily sealed with pliers

100-Pack 156.16



Lead Meter Seals and Sealing Press

- 12" long
- Sold in packages of 100
- Seal with Sealing Press

Stainless Steel (4 Strand) 41.81
Steel Press 107.10

Ammonia Identification

Equipment Plates

Engraved equipment plates in the most commonly requested sizes for easy and economical ordering. Just select the size, material, color, and wording. These highly durable plates are professionally engraved for a long-lasting image and are recommended for the harsh conditions of an ammonia refrigerated facility.

Outdoor Grade Plastic

- 1/8" 2-ply plastic
- Beveled edges
- 4 Standard color combinations
- Temperature range: -40° F to 175° F
- Adhesive backed, mounting holes or both



Standard Color Combinations



Plastic

- Available sizes:
 - 1/16" 2-ply (standard)
 - 1/8" 2-ply
 - 1/16" 3-ply (Double Sided)
- Beveled edges
- 10 Standard color combinations
- Temperature range: -40° F to 175° F
- Adhesive backed, mounting holes or both



Standard Color Combinations



Stainless Steel

- .032 Type 316 stainless steel
- Standard hole size: 3/16"
- Temperature range: up to 2400° F
- Adhesive backed, mounting holes or both



Anodized Aluminum

- .020" anodized aluminum
- Available in four color combinations
- Base material with white characters
- Temperature range: up to 1400° F
- Standard hole size: 3/16"

Standard Color Combinations



Standard Color Combinations



1/16" 2-ply Plastic

Most commonly requested, general purpose indoor material.

1/8" 2-ply Plastic

Thicker, more durable material designed for indoor use.

1/8" Outdoor Grade Plastic

Specifically designed for outdoor durability.

Anodized Aluminum

For projects that require metal tags to be color coded.

Stainless Steel

For projects requiring high durability and properties of stainless steel.

Size	1-99	100-249	250+	1-99	100-249	250+	1-99	100-249	250+	1-99	100-249	250+	1-99	100-249	250+
1" x 2"	3.10	2.85	2.50	4.34	3.99	3.50	5.58	5.13	4.50	4.75	4.50	3.70	5.70	5.40	4.44
1" x 3"	3.70	3.40	3.00	5.18	4.76	4.20	6.66	6.12	5.40	5.00	4.85	4.40	6.00	5.82	5.28
1" x 4"	4.10	3.75	3.25	5.74	5.25	4.55	7.38	6.75	5.85	6.10	5.20	4.75	7.32	6.24	5.70
1-1/2" x 4"	5.35	4.90	4.30	7.49	6.86	6.02	9.63	8.82	7.74	6.90	5.90	5.40	8.28	7.08	6.48
2" x 3"	5.35	4.90	4.30	7.49	6.86	6.02	9.63	8.82	7.74	6.90	5.90	5.40	8.28	7.08	6.48
2" x 4"	6.00	5.50	4.80	8.40	7.70	6.72	10.80	9.90	8.64	7.40	6.30	5.75	8.88	7.56	6.90
2-1/2" x 4"	6.40	5.90	5.10	8.96	8.26	7.14	11.52	10.62	9.18	7.88	6.79	6.17	9.46	8.15	7.40
2" x 6"	6.70	6.15	5.35	9.38	8.61	7.49	12.06	11.07	9.63	9.45	8.15	7.40	11.34	9.78	8.88
3" x 4"	6.70	6.15	5.35	9.38	8.61	7.49	12.06	11.07	9.63	9.45	8.15	7.40	11.34	9.78	8.88
3" x 5"	7.20	6.60	5.75	10.08	9.24	8.05	12.96	11.88	10.35	9.75	8.35	7.60	11.70	10.02	9.12
3" x 6"	7.70	7.10	6.15	10.78	9.94	8.61	13.86	12.78	11.07	11.45	9.77	8.91	13.74	11.72	10.69
4" x 6"	8.45	7.75	6.75	11.83	10.85	9.45	15.21	13.95	12.15	14.60	12.40	11.35	17.52	14.88	13.62

Any size option is available within up to 24" x 48". Call for pricing.



Ammonia Identification

Bracketed Control Bank Signs

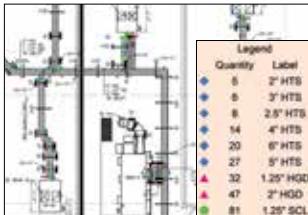
Kolbi's Bracketed Control Bank Signs make identifying zones fast and easy. A standard marker has limited visibility and viewing range. Using these bracketed signs solves that problem, provides extended viewing distance, and are designed to withstand the harsh environment of a rooftop.

- Increased durability for your rooftop
- Heavy-duty stainless steel brackets (installed)
- Price includes (2) 60" stainless steel straps

Size	1-24	PRICING	25-49	50+
4" x 12"	39.83		36.97	34.77



Free Kolbi Services



Identification Takeoff Service

This can be a time-consuming process and if not done correctly, it can result in excess material at the end of the job. The Kolbi Takeoff Service is designed to prevent that from happening. We offer the most comprehensive and accurate Takeoff service in the industry. Our Takeoffs will be developed based on the project specifications, drawings and ANSI/IIAR standards for ammonia identification.



Sort and Pack Service

We are sure that at one point or another you have received a pile of boxes containing identification products and spend hours sorting through them to prepare for installation...well, not anymore. Kolbi's Sort & Pack Service lets us do that work for you. Just tell us how you want to install the product and we will presort and package the order for easy installation. We can package by room, floor or however you would like. Every box is clearly labeled, both inner packages and outer boxes for easy distribution.



On-Site Lunch and Learns

The world of industrial refrigeration has many complexities, proper identification is just one of them. Kolbi offers expertise in the products and requirements for identifying ammonia systems. We would like to share our knowledge of the identification requirements in the current IIAR standard. Your time is valuable, so we will balance education and eating by providing your company with a Lunch & Learn. Along with reviewing the standards, we will demonstrate products that will last longer and eliminate the need to replace rooftop markers on a frequent basis. Give us a call and we will set up a Lunch (or breakfast) & Learn at your location.

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