

# AMMONIA REFRIGERATION SYSTEM PIPE MARKING GUIDE

In compliance with the International Institute of Ammonia Refrigeration (IIAR) Standards Bulletin 11-42014 *Revision*

Label Elements



Ammonia pipe marking labels contain 5 important components: Abbreviations, Physical State, Marker Body, Pressure Level, and Flow Direction.

## 1 ABBREVIATIONS

- Abbreviations for Ammonia Systems Components
- Printed in black on orange

BD =	Booster Discharge
CD =	Condenser
DC =	Direct Condensor
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 Valve
TSR =	Thermosiphon Return
TSS =	Thermosiphon Supply

## 2 PHYSICAL STATE(S)

- LIQ = Liquid (black printed on a yellow)
- VAP = Vapor (black on white printed on black)
- LIQ/VAP = If both states exist, use both

VAP
LIQ
LIQ
VAP
VAP
LIQ
VAP
VAP
LIQ
LIQ/VAP
LIQ
VAP
LIQ
LIQ/VAP
VAP
LIQ/VAP
LIQ

## 3 MARKER BODY

- Always "AMMONIA"
- Printed in black on orange



## 4 PRESSURE LEVEL

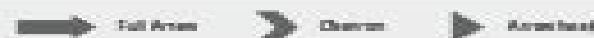
- HHS (black on white printed on red)
- LHS (black on white printed on green)

LOW
HIGH
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HIGH
HIGH

## 5 FLOW DIRECTION

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

Commonly used flow direction arrow styles



## Pipe Marker Size Specifications

OUTSIDE PIPE DIAMETER	.75" - 1.25" (19mm - 32mm)	1.5" - 2" (38mm - 51mm)	2.5" - 6" (64mm - 152mm)	8" - 10" (203mm - 254mm)	over 10" (or at 254mm)
MINIMUM LENGTH OF LABEL	6" (152mm)	6" (152mm)	12" (305mm)	24" (610mm)	36" (914mm)
MINIMUM HEIGHT OF LETTERS	0.5" (13mm)	0.75" (19mm)	1.25" (32mm)	2.5" (64mm)	3.5" (89mm)

# Ammonia Refrigeration Piping Identification Guide

**David Kirk**



## **Ammonia Refrigeration Piping Identification Guide:**

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**Heating, Piping, and Air Conditioning** ,1956 Vols for May 1929 Dec 1958 include the Journal of the American Society of Heating and Air Conditioning Engineers called in 1929 54 American Society of Heating and Ventilating Engineers in Journal section **The Ammonia Refrigeration Piping Handbook** International Institute of Ammonia Refrigeration,2014-01-01 The Ammonia Refrigeration Piping Handbook has been hailed as one of the best publications ever produced by IIAR IIAR s Ammonia Refrigeration Piping Handbook is the ultimate guide to modern ammonia refrigeration piping as well as a comprehensive introduction to piping design and installation as it is practiced in the field Analyzing risk through standardization enhances an ammonia refrigeration facilities ability to create an environment of safety

**Chemical Engineering Equipment Buyers' Guide** ,1981 *Modern Refrigeration Practice* Guy R. King,1971  
**Actual Specifying Engineer** ,1972

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web definition of beam optics beam optics the process of guiding a charged particle beam from A to B using magnets an array of magnets which accomplishes this is a transport system or magnetic lattice recall the Lorentz force on a particle  $f = ma = e c v B / \gamma m_0$  where  $m = \gamma m_0$  relativistic mass

**LHC bending magnet coil CERN document server** - Nov 06 2022

web LHC bending magnet coil description a short test version of coil of wire used for the LHC dipole magnets the high magnetic fields needed for guiding particles around the large hadron collider LHC ring are created by passing 12 500 amps of current through coils of superconducting wiring

**1 electromagnets fermilab** - Apr 30 2022

web the magnetic field that results from powering the coils is present whether the beam is there or not we are interested in finding the field in this aperture and also in knowing how to build a magnet to get the desired field typically accelerators and beamlines have magnets that serve individual functions

**pulling together superconducting electromagnets CERN** - Dec 07 2022

web pulling together superconducting electromagnets particles zipping round the LHC at close to the speed of light must follow precise paths powerful magnets keep the beams stable accurate and safe the large hadron collider LHC is currently operating at the energy of 6.5 TeV per beam

**magnetic coil an overview sciencedirect topics** - Jun 01 2022

web the electron beam is bent by a toroidal magnetic coil at the beginning and end of the overlap region collisions between the continuously renewed electron beam and the ions serve to reduce the random motions of the ions leading to a high energy resolution

**a simple method of coil design american journal of physics** - Aug 15 2023

web aug 1 2018 share tools in this article we present a method to design a coil producing an arbitrarily shaped magnetic field by restricting the path of the coil s wires to a regular grid the solution is then found by a simple least squares minimum

**linear accelerators linac springerlink** - Feb 09 2023

web two pairs of magnetic coils are usually placed near the entrance far end of the waveguide to bend the direction of electron beam radially and transversely these are called directional bending magnetic coils

**frontiers figure eight coils for magnetic stimulation from** - Feb 26 2022

web the coil is bent at an acute angle at the center between the left and right wings the bending forces the coil to conform to the shape of the human head moreover it results in an increased depth of the induced electric fields in the brain

**electromagnetic coil wikipedia** - Jun 13 2023

web an electromagnetic coil is an electrical conductor such as a wire in the shape of a coil spiral or helix electromagnetic coils are used in electrical engineering in applications where electric currents interact with magnetic fields in devices such as electric motors generators inductors electromagnets transformers and

**magnet design ictp** - Oct 05 2022

web number of conductor turns in a coil is  $n$  magnetic field strength  $h$  1 oe 103 4 a m 79 58 a m mmf magnetic flux 1 wb 1 vs assignment design a 90 degree bending magnet for beam analysis with the duoplasmatron

**the electromagnet magnetic coil and permeability** - Sep 04 2022

web where  $h$  is the strength of the magnetic field in ampere turns metre at  $m$   $n$  is the number of turns of the coil  $i$  is the current flowing through the coil in amps  $l$  is the length of the coil in metres  $m$  then to summarise the strength or intensity of a coils magnetic field depends on the following factors the number of turns of wire within the coil

**superconducting magnet wikipedia** - Mar 30 2022

web a superconducting magnet is an electromagnet made from coils of superconducting wire they must be cooled to cryogenic temperatures during operation in its superconducting state the wire has no electrical resistance and therefore can conduct much larger electric currents than ordinary wire creating intense magnetic fields