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INDUSTRY, LABOR AND HUMAN RELATIONS

mall 1,00 ppl Chapter Ind 45							
MECHANICAL REFRIGERATION							
Ind	45.01	Scope, purpose, applica-		$45.12 \\ 45.18$	Relief devices in general Relief devices for pres-		
	45.02	Definitions			sure vessels		
Ind	45.03	Building occupancy class-	Ind	$\begin{array}{r} 45.14 \\ 45.151 \end{array}$	Field tests		
Tnđ	45.04	ication Classification by type	Ind	45.154	Charging and discharging		
	45.05	Refrigerant classification			refrigerants		
Ind	45.06	Requirements for institu-	Ind	45.155	Refrigerants withdrawn		
		tional, public assembly, residential, and commer-			from refrigerating sys- tems		
		cial occupancies	Ind	45.156	Containers used for re-		
Ind	45.062	Group 1 refrigerants			frigerants withdrawn		
Ind	45.063	Group 2 refrigerants Group 3 refrigerants			from a refrigerating sys- tem		
Ind	45.07	Requirements for indus-	Ind	45.157			
		trial occupancies			refrigerant		
	45.08 45.09	Installation requirements	Ind	45.158	Refrigerant stored in a		
mu	40.09	Refrigerant piping, valves, fittings, and re-	Ind	45.159	machinery room Masks or helmets		
		lated parts; general Design and construction	Ind	45.16	Maintenance		
Ind	45.10	Design and construction	Ind	45.17	Responsibility as to oper-		
Ind	45.11	of equipment; general Construction, inspection,	Ind	45.18	ation of the system Pressure gauges		
		and stamping of pressure		45.20	Registration		
		vessels					

History: Chapter Ind 45 as it existed on March 31, 1963 was repealed and a new chapter Ind 45 was created effective April 1, 1963.

Ind 45.01 Scope; purpose; application. (1) The application of this / code is intended to insure the safe design, construction, installation, operation, and inspection of every refrigerating system employing a fluid which is vaporized and is normally liquefied in its refrigerating cycle, when employed under the occupancy classifications listed in Wis. Adm. Code section Ind 45.03. The provisions of this code are not intended to apply to the use of water or air as a refrigerant nor to refrigerating systems installed on railroad cars, motor vehicles, motor drawn vehicles or on shipboard.

(2) This code is intended to provide reasonable safeguards to life, limb, health, and property; to correct certain practices which are inconsistent with safety; and to prescribe standards of safety which will properly influence future progress and developments in refrigerating systems. Equipment listed by an approved, nationally recognized testing laboratory, as defined in Wis. Adm. Code section Ind 45.02 is deemed to meet the design, manufacture, and factory test requirements of this code or equivalent, for the refrigerant or refrigerants for which such equipment is designed.

(3) The provisions of this code shall apply to refrigerating systems installed subsequent to its adoption and to parts replaced or added to systems installed prior or subsequent to its adoption. In cases of practical difficulty or unnecessary hardship, the commission may grant exceptions from the literal requirements of this code or permit the use of other devices or methods, but only when it is clearly evident that equivalent protection is thereby secured.

Mistory: Cr. Register, March, 1963, No. 87, eff. 4-1-63.

Register, May, 1972, No. 197 Mechanical Refrigeration

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Ind 45.02 Definitions. (1) ABSORBER (adsorber) is that part of the low side of an absorption system used for absorbing (adsorbing) vapor refrigerant.

(2) ABSORPTION SYSTEM. See Refrigeration system (43) (a).

(3) APPROVED means acceptable to the Wisconsin industrial commission.

(4) An APPROVED NATIONALLY RECOGNIZED TESTING LABORATORY is one acceptable to the Wisconsin industrial commission that provides uniform testing and examination procedures under established standards, is properly organized, equipped, and qualified for testing, and has a follow-up inspection service of the current production of the listed products.

(5) BRAZED JOINT, for the purpose of this code, is a gas-tight joint obtained by the joining of metal parts with alloys which melt at temperatures higher than 1,000 F. but less than the melting temperatures of the joined parts.

(6) BRINE is any liquid, used for the transmission of heat without a change in its state, having no flash point or a flash point above 150 F.

(7) CHECK VALVE is a valve that permits a fluid flow in only one direction.

(8) COMPANION or BLOCK VALVES are pairs of mating stop valves, valving off sections of systems and arranged so that these sections may be joined before opening these valves or separated after closing them.

(9) COMPRESSOR is a specific machine, with or without accessories, for compressing a given refrigerant vapor.

(10) COMPRESSOR UNIT is a condensing unit less the condenser and liquid receiver.

(11) CONDENSER is a vessel or arrangement of pipe or tubing in which vaporized refrigerant is liquefied by the removal of heat.

(12) CONDENSING UNIT is a specific refrigerating machine combination for a given refrigerant, consisting of one or more powerdriven compressors, condensers, liquid receivers (when required), and the regularly furnished accessories.

(13) CONTAINER is a vessel for the transportation of refrigerant.

(14) DESIGN WORKING PRESSURE is the maximum allowable working pressure for which a specific part of a system is designed.

(15) DUCT is a tube or conduit used for conveying or encasing purposes as specifically defined below:

(a) Air duct is a tube or conduit used for conveying air. (The air passages of self-contained systems are not to be construed as air ducts.)

(b) *Pipe duct* is a tube or conduit used for encasing pipe.

(c) Wire duct is a tube or conduit used for encasing either moving or stationary wire, rope, etc.

Register, May, 1972, No. 197 Mechanical Refrigeration

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