

TYPE WC

WATER COOLING COILS

GENERAL FEATURES

FINS

New design for uniform air turbulence over fin surface assuring higher heat transfer performance. Fins are aluminum plate type, 6, 9 or 12 fins per inch, mechanically bonded to tubes; available in 2 and more rows. Optional: Copper fins.

TUBES

Copper, 5/8" O.D. staggered from row to row for optimum air turbulence over fins and around tubes where heat transfer is at its maximum. Ball expander insures perfect mechanical bond between fins and tubes. Tubes are brazed to headers and silver soldered to return bends. Tested at 200 PSIG.

CASING

Ruggedly constructed of galvanized steel with reinforcing support plates on longer lengths. Fastening holes provided.

SIZES

Type WC: Finned heights from 12" to 48" in 3" increments.
Finned lengths from 24" to 144" in 1" increments.

HEADERS

Type WC: 2" or 2 1/2" nominal diameter male threaded steel pipes, coated with zinc chromate red oxide for corrosion protection, plugs for air vent and drain. Coils are drainable.

CIRCUITS

Type WC: Half, full or double circuits available.

CAPACITIES

Capacities are certified ARI code number 410-91.

GUARANTEE

One year regular manufacturer's warranty against material or manufacturing defects.

GENERAL SPECIFICATIONS

CASING

Casing shall be constructed of 16 gauge galvanized steel.

Type WC: Coils 48" and over in length shall be provided with reinforcing plate with 48" distance maximum between each of them. Fastening holes, 5/16" diameter shall be provided around frame, on 6" centres.

FINS

Fins shall be aluminum, or copper (optional) and shall be Series 6, 9 or 12, in 2 and more rows.

TUBES

Tubes shall be copper, 5/8" O.D. and 0.020 inch thick. Mechanical bond shall be insured by a ball expanded process.

HEADERS

Type WC: Headers shall be steel, pipe threaded, and coated with zinc chromate red oxide against corrosion. Threaded plugs for air vent and drain shall be provided. Coils shall be drainable.

CIRCUITS

Type WC: Shall be half, full or double circuits.

WELDING

Coils shall be tested for 200 PSIG.

Type WC: Tubes shall be brazed to headers and silver soldered to return bends.

COIL IDENTIFICATION

Example 1 : WC-2472-4R6-HC-L

WC = Coil type
2472 = 24" fin. height x 72" fin. length
4R = 4 row coil
6 = 6 fins/inch
HC = Half circuit (FC = Full, DC = Double)
LH = Left hand supply

NOTE

LH or RH connections are determined by facing air stream.

TYPE WC DIMENSIONS

HEADERS SAME END

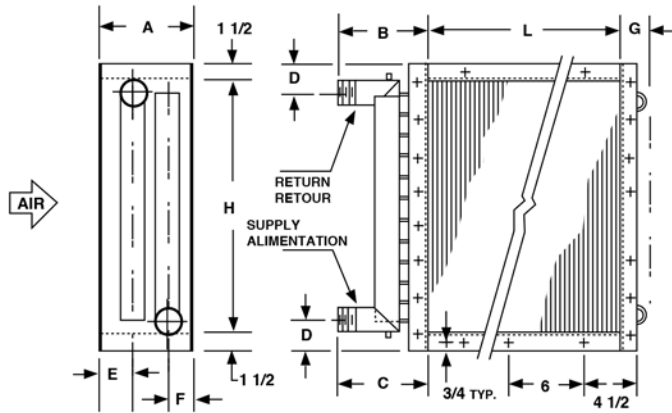


TABLE 1

ROWS	CIRCUITS	CONN. DIA.	DIMENSIONS						
			A	B	C	D	E	F	G
4	FULL	2	8	9	9	2 5/16	1 3/4	1 3/4	2 1/2
6			11						
8			14						
4	DOUBLE	2 1/2	8	10 1/4	10 1/4	2 9/16	2 1/2	2 1/2	2 1/2
8			14						
3	HALF	2	8	9	9	2 5/16	3 1/2	2	2 1/2
4			11				1 3/4	1 3/4	
5			14				4	2 1/2	
6			11				1 3/4	1 3/4	
7			14				4	2 1/2	
8			11				1 3/4	1 3/4	

LEFT HAND CONNECTION SHOWN

HEADERS OPPOSITE ENDS

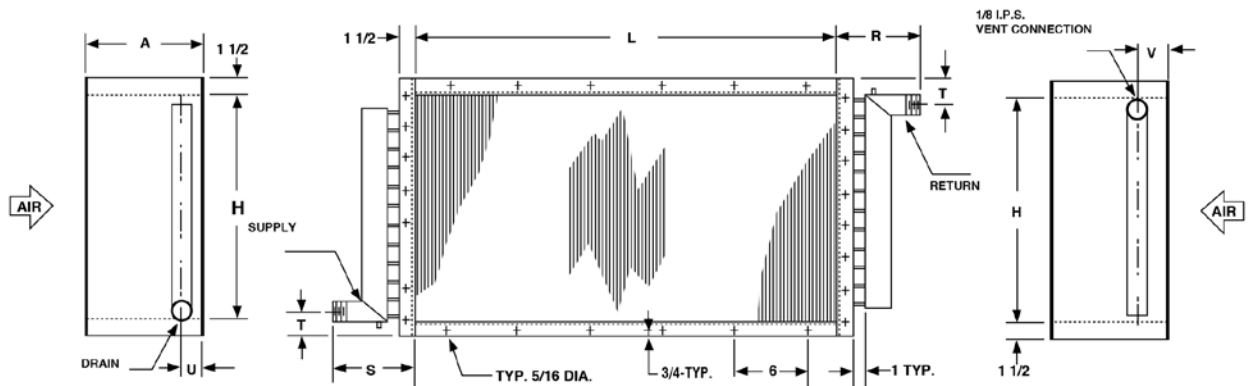


TABLE 2

ROWS	CIRCUITS	CONN. DIA.	DIMENSIONS						
			A	R	S	T	U	V	
3	FULL	2	8	9	9	2 5/16	2 1/2	4	
5			11						
7			14						
6	DOUBLE	2 1/2	11	10 1/4	10 1/4	2 9/16	2 1/2	2 1/2	

LEFT HAND SUPPLY, RIGHT HAND RETURN SHOWN

H - STD FIN HEIGHTS

12	15	18	21	24	27	30	33	36	39	42	45	48
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L - STD FIN LENGTHS

From 24" to 144" in 1" increments

LEFT HAND CONNECTIONS SHOWN

FULL

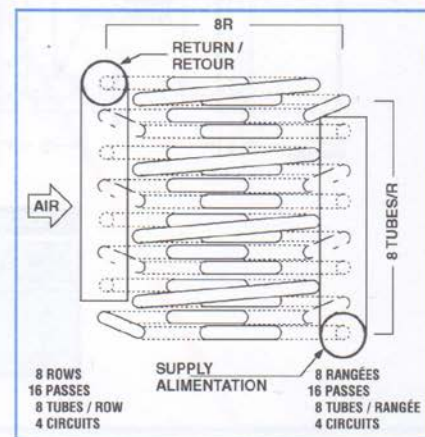
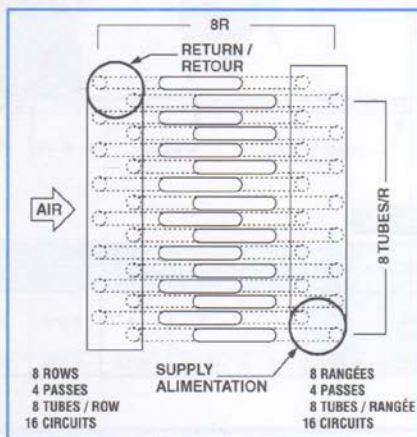
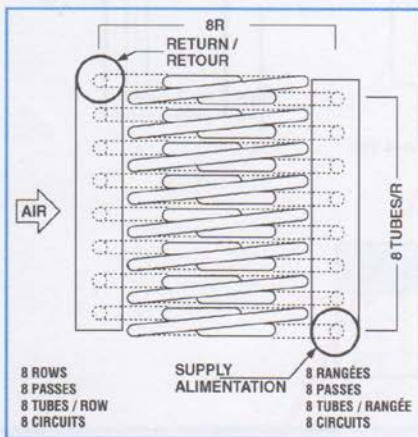
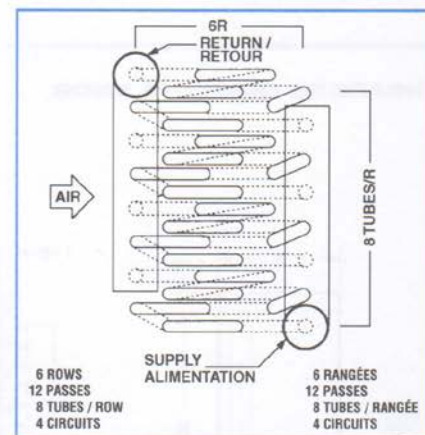
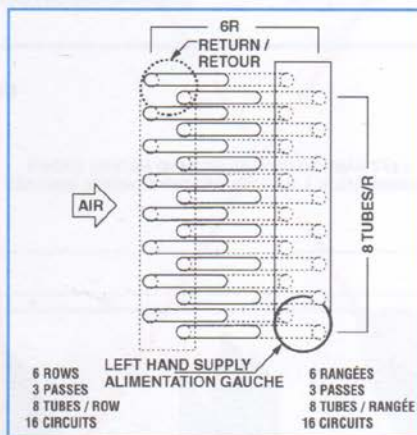
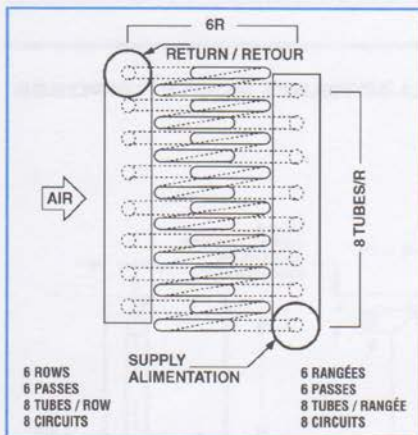
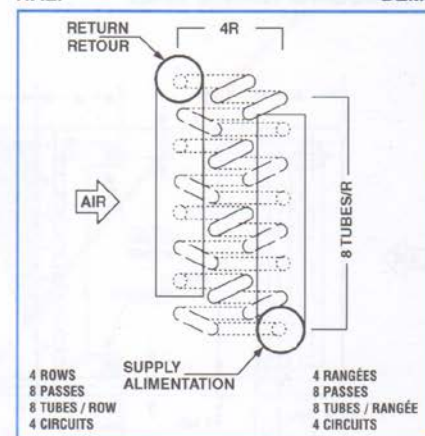
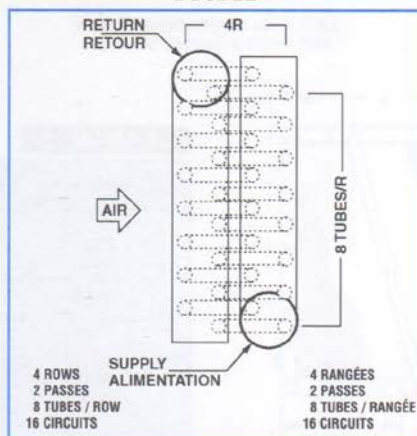
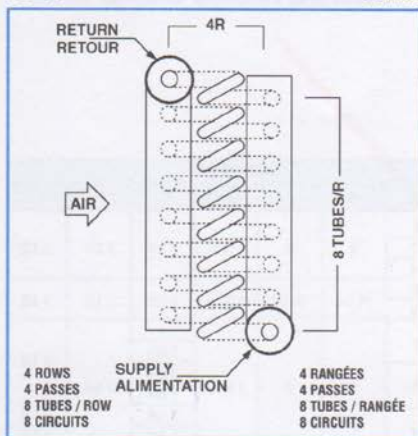
PLEIN

DOUBLE

HALF

RACCORDS À GAUCHE MONTRÉS

DEMI



FULL CIRCUIT
NUMBER OF CIRCUITS IS
THE SAME AS THE NUMBER
OF TUBES IN ONE ROW
(CF = 1)

PLEIN CIRCUIT
LE NOMBRE DE CIRCUITS
EST ÉGAL AU NOMBRE DE
TUBES DANS UNE RANGÉE
(CF = 1)

DOUBLE CIRCUIT
NUMBER OF CIRCUITS IS
DOUBLE THE NUMBER OF
TUBES IN ONE ROW
(CF = 2)

DOUBLE CIRCUIT
LE NOMBRE DE CIRCUITS
EST LE DOUBLE DU NOMBRE
DE TUBES DANS UNE
RANGÉE: (CF = 2)

HALF CIRCUIT
NUMBER OF CIRCUITS IS
HALF THE NUMBER OF
TUBES IN ONE ROW
(CF = 0.5)

DEMI CIRCUIT
LE NOMBRE DE CIRCUITS
EST LA MOITIÉ DU NOMBRE
DE TUBES DANS UNE
RANGÉE: (CF = 0.5)

AVAILABLE CIRCUITS

CIRCUITS DISPONIBLES

CIRCUITS	ROWS - RANGÉES						CF
	3	4	5	6	7	8	
FULL / PLEIN	○	●	○	●	○	●	1
DOUBLE	—	●	—	○	—	●	2
HALF / DEMI	●	●	●	●	●	●	0.5

● = HEADERS SAME END / COLLECTEURS MÊME BOUTS
 ○ = HEADERS OPPOSITE ENDS / COLLECTEURS BOUTS OPPOSÉS
 — = NON AVAILABLE / NON DISPONIBLE

$$N_c = \frac{\text{FINNED HEIGHT}}{1.5} \times \text{CF} = \text{NUMBER OF TUBES} \times \text{CF}$$

IN ONE ROW

$$N_p = \frac{\text{NUMBER OF ROWS}}{\text{CF}}$$

$$N_c = \frac{\text{HAUTEUR D' AILETTES}}{1.5} \times \text{CF} = \text{NOMBRE DE TUBES} \times \text{CF}$$

DANS UNE RANGÉE

$$N_p = \frac{\text{NOMBRE DE RANGÉES}}{\text{CF}}$$

