INSTALLATION AND SERVICE INSTRUCTIONS

These instructions are for the installation and service of Chilled Water Cooling Coils of 2C family manufactured by Tecam.

MODEL NUMBER NOMENCLATURE

To enable us to quickly identify the relevant design details of our coils they have been provided with a MODEL NUMBER.

EXAMPLE:

2 C C W 5 0 0	- 0 4	- 3 0 . 0	- 1 0	- 1 0	- 0 3 3 . 0
1a | 1b | 1c (1)	2	3	4	5	6

1	COIL LINE DESIGNATION 1a : 2C = Trade Name 1b : CW = Chilled Water Cooling Coils 1c : 500 = 1/2" OD Coils
2	NUMBER OF ROWS
3	COIL HEIGHT (Inch)
4	FIN PER INCH (FPI)
5	NUMBER OF CIRCUITS
6	COIL LENGTH (Inch)

The number of Tubes Face will be the Coil Height (3) divided by the tube pitch. The tube pitch for 1/2" is 1.25".

The Number of Circuits (5) is the number of Nipples in each Header (See Fig.1).

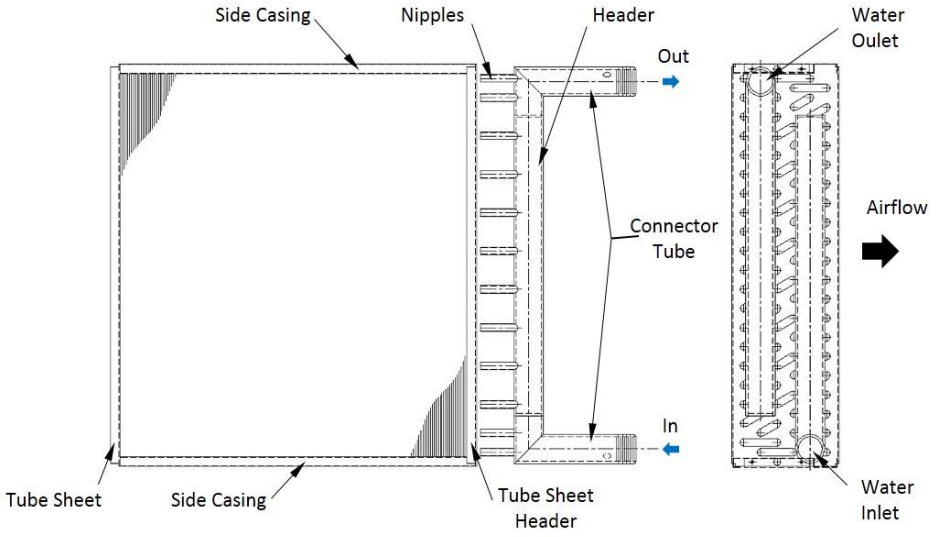

Fig. 1

INSTALLATION

- Unpack the coil using suitable tool and security devices to protect life and the coil integrity.
- The coil leaves the factory without any fluid inside.

⚠ ADVERTENCIA ⚠
The coil leaves the factory without any fluid inside.

- Remove the packing material and place the coil near the site of operation.
- Check that the coil fins are not damaged, if necessary use a suitable comb to restore them.
- Check that the handing of the coil is correct for your application. The handing is determined while looking in the direction of airflow and relates to the position of the connections (See Fig.2).

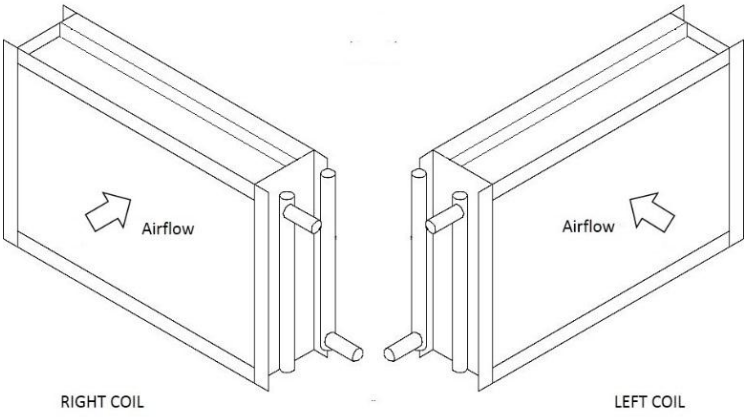

Fig.2

- Install the coil with the horizontal tubes and level to ensure proper drainage and more effective ventilation.
- Install condensate pan drip tray below coil (sold separately) (Fig. 3).
- On the lines of the drip tray drain condensate should incorporate appropriate size traps.

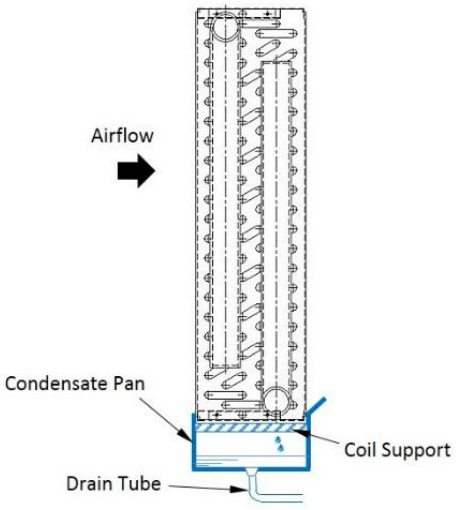

Fig.3

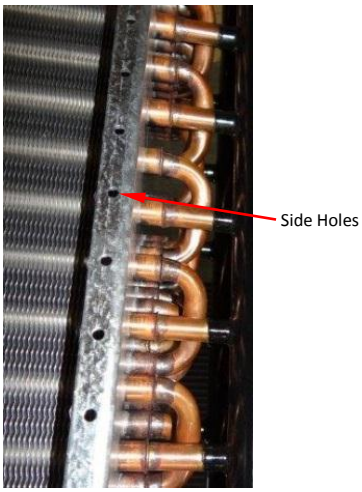

Fig.4

- Care should be taken when drilling or cutting near the coil so that the tubes and headers are not damaged.
- Where coils are incorporated into ducting, it is important that they are properly installed. Suitable sealing methods should be employed to prevent air bypassing the finned area of the coil.
- The ducting must be fitted to the coil, drilling and screwing through the coil casing using the side holes (Fig. 4). Care should be taken to protect the Headers and Return bends by using a piece of wood or metal sheet behind the casing being drilled so that the tips of the screws do not touch the tubes. A suitable sealant must be used to seal joints.
- Access should be provided to both ends of the coil, without the need to remove any of the external pipework, for the purpose of inspection, cleaning and maintenance.

PIPING

- Remove the rubber plugs that protect the threads of the connector tubes.
- The outer pipe must be connected to the coil such that the water flowing into the coil is at the end where the air leaves the coil (Fig.5). This will give counterflow and the greatest heat transfer.

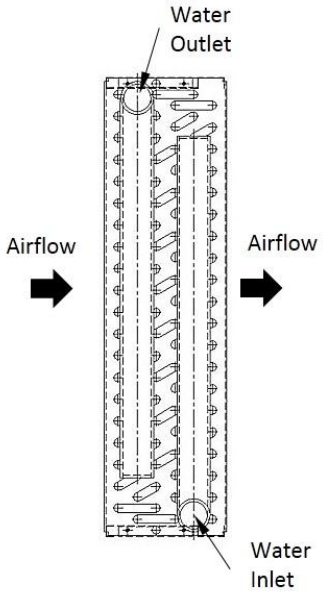

Fig.5

- The outer pipe must be connected to the coil according to any relevant local codes and good installation practices.
- Use a wrench on each terminal tube when tightening threaded connections, or the headers can be damaged.
- Use the method pipe jointing compound and hemp for connecting threaded pipe. The thread fitted to the coil is to be supported at all times whilst making joints. All external piping is to be supported independently from the coil.
- The use of filters in air flow and water flow is recommended before entering coil.
- The diagram below only intended to guide the location of some connection components, no intended on provide details for a specific installation

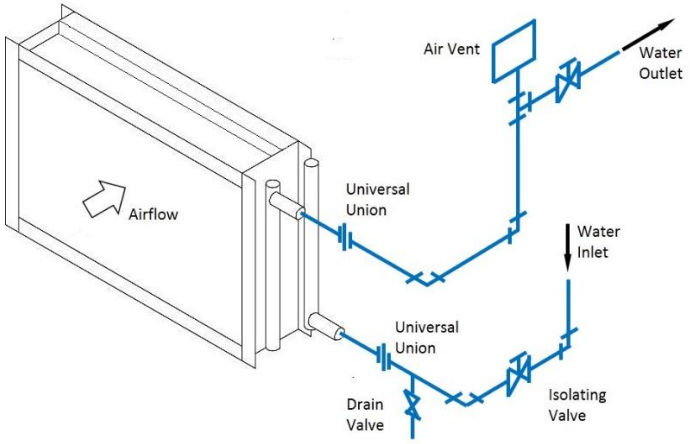

Fig.6 – Location of connection components in a coil with horizontal airflow.

SERVICE

- Finned surfaces should be inspected and cleaned regularly.
- The coils should be kept clean and free of obstacles. It is recommended to wash frequently with fresh water at a pressure less than 120 psi.
- Air filters should be changed regularly to maintain constant airflow.
- The coil should be inspected frequently for any signs of corrosion.
- The drain pan should be inspected and cleaned regularly.
- Circulating fluid should be kept free from impurities and corrosive elements.
- Vent the water system regularly. Automatic air vents are recommended.
- Check all connections and tighten if necessary.
- Coils contain no moving, electrical or other parts that are designed to be replaced in the field. If the coil is damaged beyond repair it must be replaced as a unit.
- If the coil is leaking, and is under warranty, obtain authorization from Commercial Area of Tecam before returning the coil or starting repairs.