STA BRANCA IDEALAIR

"STA BRANCA IDEALAIR Climatic Units allow to obtain and maintain standard thermo-hygrometric conditions as specified by National and International norms."

- HISTORY OF THE COMPANY-

Samples and their analysis methods need specific thermo-hygrometric conditions to be tested. Constant values of Temperature and Relative humidity are also required by national and international norms in order to assure the validity of results in the following areas: textile, paper and cardboard, cements, metrology and tannery; after an experience of several years in Lyon Branca Alberto(1902) proposes its first version of Regain Tester in order to determine the regain of textile materials (seed, wool, cotton and etc). In the meantime he represents, sells and produces control instruments for textile and paper laboratories. As a consequence it emerges the importance of the Climatic Control. Since 1937 he begins to market air conditioning laboratories in Italy. From1945 Climatic control is required also by customer in other sectors like adhesive, dyes, glues, cements, dimensionals and in particular for high precision measurement till 10 nanometers in the metrological rooms, following norm UNI ISO 8928. After the publishing of the insert "La refrigerazione ed il recupero del calore perduto " (Barbieri editor - year 1945) there is an increase of requests of air conditioning systems, although all the providings are a product studied on the demands of the room that needs to be conditioned and customer choices. In 1970 the society proposes to its customers preventive servicing to be performed periodically to the Climatic Units in order to assure the maximum efficiency of the implant sold. In 1983, as a requirement of the company Branca Idealair, it was born STA Branca Idealair which represents an important upgrade for the company and receives in 1996 the certification of quality system.

PROBLEMS FOR THE REALIZATION OF A CONDITIONED LABORATORY ...

In order to project laboratories dedicated for dimensional measurements it is evident as temperature has a fundamental role and it is a magnitude that influences the errors for measures: for example the calculation of uncertainty of parallel blocks. It shows how the dimensions of climatic unit are important for the good functioning of air conditioning system. The metrological room requires the following thermo-hygrometric conditions of (20°C ±0, 5/0,5) °C for Temperature and (45/50 ±2%) for Relative Humidity and any structural choices of construction able to reduce thermal gradients in the laboratory improving the welfare of the people and the economy of the Climatic Unit itself.

Air flow distribution: air conditioning, introduced inside the cavity created by false ceiling and insulated ceiling, gets into the laboratory in the perimetral zone of 0,5 mt with air velocity inferior to 0,1 m/sec. The false ceiling inferior surface, crossed above by the immission of conditioned air, transmits part of the lost heat in the environment and the heat produced by the lighting of the lamps is recovered by the climatic unit itself. Humidification devices with ventilated evaporation; evaporators in copper/copper to prevent the oxidation due to the contact between fins and pipes for galvanic effect of different conductors (es. copper/aluminum) in presence of condensing water avid of ions. Bactericidal action of the copper fins in case of development of bacterial colonies and mushrooms under conditions of saturation. System of final filtration on the pushing side of the fan to capture every sort of dust or assembled bacterial (legionella, penicillio, alternaria, cladosporio, aspergillo, thermoactinomyces candidus and so on .), harmful to the respiratory apparatus of the people present in the laboratory, conform to the Art. 232-5-4 of the 09/05/85 of the French Labor Department. Climatic control operates through the action of heating and humidification performances with state relay in proportional band, train of impulses with cycles inferior to 10 sec.; Indicators and controllers with resolution to 0,01. The water's purification is given by the reverse osmosis system exempted by every type of regeneration. Optional device with economic planning for the exclusion of the normal regulation in continuous proportional band of temperature and relative humidity and performing the actions of minimum and maximum required tolerances during nighttimes or holidays. Optional energetic recovery device for sensible and latent heat through air cross flows of renewal and exhausted air inside a recover.

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