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## Technical News

# SULZER BROS. AT THE 1961 HEVAC

*The Stand of Sulzer Bros., at the 1961 HEVAC Exhibition at Olympia, has been designed to illustrate by means of models and photographs some part of the heating and ventilating interests of this international engineering company.*

*Included are high velocity air conditioning equipment with particular emphasis on the induction Klima Convectors and Dual-Duct mixing units; Uniturbo refrigeration equipment, weaving mill installations, Burgess-Sulzer heated acoustic ceilings, Hi-Strip radiant strip heating for large factories and works, electrode boilers and Dor-Less-Dor air curtains.*

*Sulzer Bros. offer to factory and building owners, their architects and engineers, a comprehensive organisation to design and install all mechanical services in connection with the provision of heating and cooling, both of the building itself and also any special processes which may be involved. They specialise in the field of high pressure hot water and have also carried out a large number of piping installations for the oil and chemical industries.*

## **Klima Convector**

Already successfully used in Germany, France, Belgium, Switzerland and Holland, and to be installed in this country, is this induction convector for high velocity air conditioning. The Klima Convector is also manufactured in this country. Quiet in operation, it can be either free-standing or built-in, and is available in narrow or wide, and high or low (12 in.), designs. A feature of all Klima Convector installations is the individual control available to the occupants of each room.

Two types of Sulzer control valves — for which patents are pending — are specially designed for these high velocity installations. Both incorporate an automatic change-over device which simplifies the control of the convector, whether supplied with heat or cooled water, which is especially desirable in intermediate seasons. One valve provides fully automatic thermostatic temperature control, requiring only selection of temperature to maintain constant conditions compensating for varying loads and the change from heating to cooling cycle. The other valve is hand-operated and provided with a hand-wheel so marked that the occupant of the room can vary the room temperature to suit his comfort requirements by turning the wheel in the conventional directions. The internal operation of this valve apart from the thermostatic control is the same as above.

## **Dual-Duct Mixing Units**

Outstanding reliability is a principal feature of the Sulzer design of these mixing units. In a Sulzer Dual-Duct air-conditioning installation, outside air is drawn into the central air-conditioning plant, where it is filtered, humidified or de-humidified, and warmed or cooled. Thence it is forced to the rooms at high velocity in two ducts — one for warm air, the other for cold. Concealed in the window recesses or the false ceilings, are the mixing units which connect the two ducts and blend the warm and cooled air as directed by a room thermostat.

The special pneumatic controls developed for the Dual-Duct units are also available for inspection on the stand.

## **Burgess-Sulzer Heated Acoustic Ceiling**

The requirements of a false ceiling which has acoustic properties of a high absorption coefficient over a wide

frequency range to which heating can be added, provides the architect with an economical and practical solution for offices, hospitals, schools, banks, conference rooms, etc.

A Burgess-Sulzer ceiling is installed on the stand with a section showing the heating coil in position. The suspension of the coils prevents distortion of the tiles when heat is applied. The tiles have an electrostatically stove-enamelled finish and are available in 16 different modules and 101 shades.

## **Hi-Strip Radiant Strip Heating**

Radiant strip heating has now achieved proven superiority over conventional systems in factory buildings such as rolling mills, steel works, industrial plants and so on, with the added advantages of clear working floor area and absence of draughts caused by temperature differences. The radiant panels can be mounted in buildings up to 100 feet high.

## **Weaving Machinery Installations**

Coupled with the world-wide success of Sulzer weaving machines, of which nearly 400 have been ordered for this country so far, is an interesting method of a special type of air distribution. Although designed with the needs of the Sulzer weaving machine in mind, this system is ideally suited to the textile industry generally. A particular feature is the special type of high-level air distribution, consisting of slots and involute scrolls developed for the purpose.

## **Dor-Less-Dor Air Curtain**

The photograph on the stand depicts the largest air curtain in the world — for Pan American Airways at Idlewild Airport. This Dor-Less-Dor, which is 89 feet long, was designed by Sulzer Bros.

Dor-Less-Dor installations are available in this country in both custom-built and package units.

## **Uniturbo Refrigeration Equipment**

The Uniturbo is a high-duty refrigeration unit designed for air-conditioning installations in large buildings but equally useful for refrigeration plants in chemical works, breweries and cold stores of all kinds. It is a Freon 12-package unit with automatic regulation from 100% to 10% load. Three Uniturbo plants have now been ordered for air-conditioning systems at Millbank Development — London's tallest building. Two, of 350 tons refrigeration capacity (4,200,000 B.T.U./Hr.) each, are for the 387 feet high tower block; the third, for the "Y" block, will have a capacity of 450 tons refrigeration (5,400,000 B.T.U./hr.).



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