

Project Reference

Distrito de la Comunicación de Telefónica



TROX[®] **TECHNIK**

The art of handling air



Location

In the area of Las Tablas, to the north of Madrid, the Telefónica Group is building an important complex of offices and services in which they will regroup more than 14,000 employees.

Distrito de la Comunicación de Telefónica defines a new concept of business park in Spain. It is framed in an urban and architectural philosophy of open spaces, without enclosures or barriers, with low height buildings connected via external accesses and is designed with employees' functions and tasks in mind and not their positions.

Building Concept

The new Telefónica headquarters consist basically of four towers, with ten buildings unified beneath a glass roof and various free access services for Telefónica workers and the rest of the townsfolk. In this sense, it will count on diverse restaurants and cafeterias, gymnasium, nursery, health centre, auditorium, banking offices and small shops.

The concept embraces the provision of space to facilitate communication and promote the sharing of information, thus responding to the necessities of the workers. In addition, the light, space, materials, technological equipment and the surroundings play a fundamental role.

Air Conditioning Solution

After a detailed study carried out by the consultants regarding the different alternatives, the solution with Trox chilled beams was the one considered best for the project: besides guaranteeing the high standards of comfort required for a project of this significance, its calculated cost was even lower than that of a conventional installation with fan coils.

This study analysed in detail several HVAC alternatives: four-pipe fan coil units, displacement ventilation, variable cooling capacity, chilled ceilings, VAV, chilled beams, as well as various combinations of the above, individually evaluating air quality, comfort, noise, flexibility, space consumption, ecology, energy saving, maintenance and of course costs.



DID300B unit

Project details:

Project:	Distrito de la Comunicación de Telefónica
Architect:	Rafael de la Hoz
Consultant:	UTE Úrculo-PGI
Contractor:	UTE Atil-Cobra/Internacional Tecair & Elecnor

Project description:

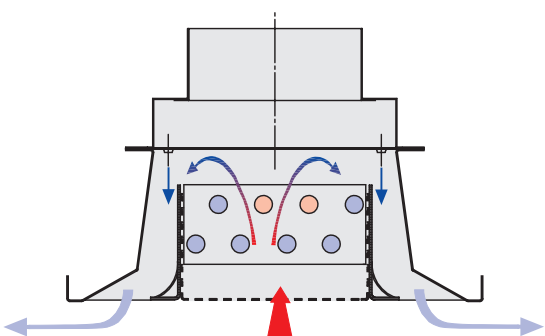
Location:	Madrid
Product:	DID300B
Quantity:	approx. 30,000 units
Manufacturing programme:	Jan. 2005 to Dec. 2006 supplied by Trox Española S.A. and Gebrüder Trox GmbH (Germany)



Trox Performance

In addition, the consultants evaluated the great reputation of Trox products, as well as their verified quality, the reliability of their technical documents and the professional support of their technical personnel in all project phases. The important existing references in Spain and Europe consolidated the choice of an innovative but sufficiently proven solution. Moreover, only a company like Trox could guarantee punctual and quality deliveries for such a huge project.

The promised performance of DID300B units was later verified, upon completion of laboratory tests simulating the specific project conditions. The results were excellent, not only in thermal capacity but in air stream stability, throw distance, temperature gradient and turbulence level.



Up to February 2005, more than 5,500 DID300B air-water units have been supplied jointly by Trox Española S.A. and Gebrüder Trox GmbH.



Trox Technology Network – Worldwide

By means of an effective internal programme of inter-change of experience and production abilities, along with the transference of knowledge and technology, the Trox group is able to guarantee the same product quality, independent of the production plant of origin, be it Zaragoza (Spain) or Neukirchen-Vluyn (Germany).

Furthermore, these group synergies have provided important scale economies that have been passed to the client as well as the assurance of being able to fulfil the short deadlines required. The combined productive capacities of Spain and Germany will allow us in future to continue guaranteeing the supply of these units for this and other projects.



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