



# DIPHUSAIR-DVP

Displacement ventilation  
air panels





## Conventional ventilation



Conventional ventilation, or dilution / mixture ventilation, are based in the principle that heat and pollution are homogeneous mixed in a room, until temperature and pollution levels are reduced to suitable limits.

In this systems, air is supplied at high speeds and levels.

Contaminants concentration and temperature will be uniform in the whole room.

## Natural ventilation procedure



Heat sources and most of pollution ones, produce convection flows, and if they are not interfered by another air flows, they go up to the ceiling.

DIPHUSAIR-DVP panels have a lot of advantages successful tested in several plants recently.

These advantages are, for example:

- They locally supply big air flows.
- Low pollution level are maintained.
- They get effective "free cooling" with external air supply.
- Cooling power is reduced.
- Puntual ventilation and cooling "FLOW FREE".



## Displacement ventilation



DIPHUSAIR-DVP panels get placed on the floor, supplying clean and fresh air directly to busy working areas.

The air moves over the floor, and goes up when its temperature increases because of human presence or another heat sources.

DIPHUSAIR-DVP panels specifically ventilate the occupied area, resulting an efficient ventilation system, supplying fresher and cleaner air.

Heat and pollution are displaced to the ceiling.

Working area confort is widely improved in industries with big heat sources because of their proces or machines.

## Efficient cooling with DIPHUSAIR-DVP



DIPHUSAIR-DVP panels produce a more efficient cooling using external air that has been previously evaporative cooled.

When DIPHUSAIR-DVP are used in cool air systems , they get power savings because of using higher impulsion temperature.

DIPHUSAIR-DVP panels create a fresh working area, displacing the hot air to the ceiling.

With dilution standard systems, hot air is uniformly distributed in the room, resulting a higher temperature for the same air flow supplied.

Meeting rooms, theatres, offices, cafes or show rooms are good examples of DIPHUSAIR-DVP applications, giving better enviroment conditions in comparison with others systems.





Range



PR1 / PR3



PC2  
PC3  
PC4



PH3



PH6



MOT



MSN



MUC

Series	Number of models	Active supply surface	Airflows at 0,42 m/s initial speed
PR1 / PR3	6	One / three rectangular faces	1.100 a 6.300 m <sup>3</sup> /h
PC2 / PC3 / PC4	9	Two / three / four rectangular faces	4.800 a 14.400 m <sup>3</sup> /h
PH3 / PH6	6	Three / six rectangular faces	7.200 a 21.600 m <sup>3</sup> /h
MOT	6	Cylindrical side, 360°	1.800 a 5.500 m <sup>3</sup> /h
MUC	6	Semi - cylindrical side, 180° (prolonged)	1.500 a 6.000 m <sup>3</sup> /h
MSN	4	Cylinder quarter side, 90°	900 a 2.800 m <sup>3</sup> /h