

REFERENCE

Deutsche Bahn AG – IC Train „Metropolitan“



1. The Intercity trains number 930 and 931 were equipped with 9 units VARIONIX UEM1 with Bentax technology and integrated in the existing air conditioning system (HVAC) of the train.
2. The ventilation of the passenger compartment is made by HVAC cabinets (outside air 100%). The supply air flows through the ventilation ducts of the side wall into the passenger compartment and in the adjacent corridors and toilets.
3. The UEM1 Module integrated in the air duct ionizes air from the passenger compartment, and is then prepared before inlet to the toilet. The UEM1 module produces a certain ion excess which flows back into the passenger area, and so neutralizes the odor gases occurring in the toilet. The exhaust air passes through wall grids and the air duct system to the outside.
4. WC - air supply channel  
UEM1 installation modules 24V/3W  
Flow 25 m<sup>3</sup> / h  
Room size 7 m<sup>3</sup>
5. The HVAC System and the UEM1 Modules will be operated (ON/OFF) from the train staff