

05
**DEFROSTER
SYSTEMS**

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REV 0108

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Defroster systems are used to eliminate the mist which is produced on glazed areas/windows when the surface reaches temperatures below the atmospheric dew point temperature.

By way of the combination of air handling units/fans, heating coils, ducts and nozzles, different defroster systems can be designed.

Our defroster systems are tailor-made to meet the project requirements, based always on International Standards, with analysis of:

- Size of glazed areas
- Available heating means
- Decorative architecture in the glazed area
- Climatic conditions

The basic elements which make up the configuration of a defroster system are:

- **Air impulsion**

In some cases the equipment in charge of the impulsion of the air in a defroster system is the air handling unit itself, which services the wheelhouse or area to be handled, although conventional design is by way of an independent fan.

- **Heating of the air**

The impelled air is heated when passing through heating coils inserted in the ducts. The power of the coils is determined in line with the service involved. Although design is normally based on electrical resistances, exchange coils can also be used for any thermal fluid, upon request.

When electrical resistances are used, these have protection devices such as manual reset and automatic reset kluxons.

- **Air direction**

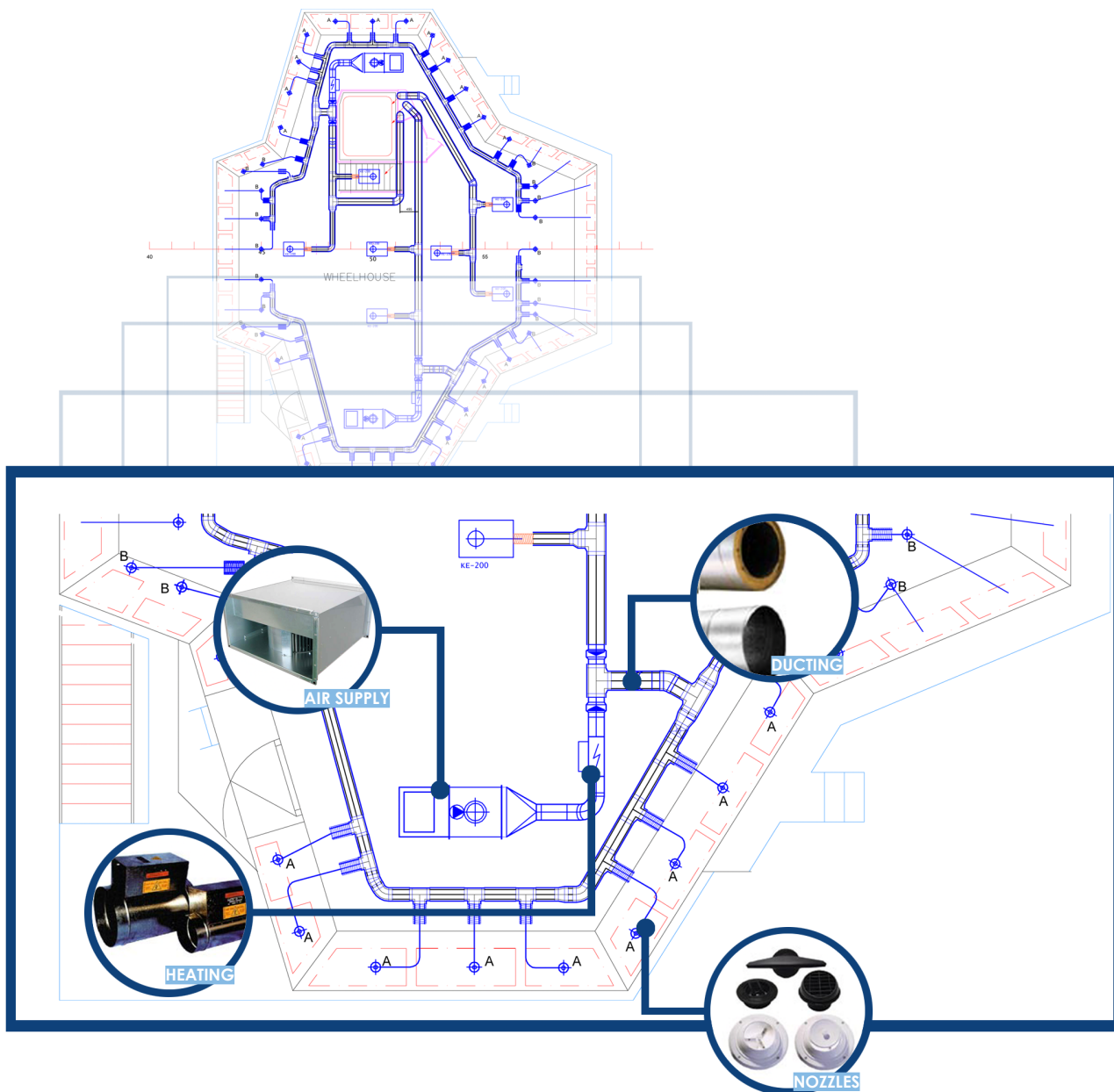
The air is blown towards the glazed area where the mist needs to be eliminated, using impulsion nozzles. There is a wide range of models and nozzle sizes for adaptation to the needs of each installation.



Defroster Systems in Wheelhouse



DEFROSTER SYSTEM: TYPICAL CONFIGURATION IN WHEELHOUSE



- **Air Supply**
 - Duct Fans
 - Centrifugal Fans
 - Air Handling Units
- **Ducting**
 - Circular Ducts

- **Heating**
 - Duct Heaters
- **Nozzles**
 - Nozzles

Items Brochure in Catalogue

For more information, please contact with our Technical Department.

