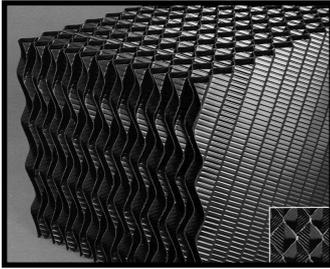


## CONSTRUCTION DETAILS

### CASING

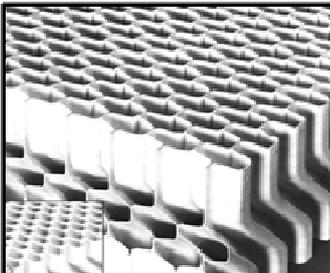
Manufactured in Fiberglass Reinforced Polyester (FRP) and in self supporting type, with inside reinforcement in polyester without iron structures, thus highly resistant to all aggressive environments. Equipped with circular or rectangular access door. All inside screws, clamps and fixation profiles are in stainless steel AISI 304. Grey is the standard colour, but the request may be made in any colour.

### WET DECK SURFACE (FILL)



Film type fill formed by PVC (polyvinyl chloride) sheets of small, medium or large wave, with diagonal and overlapping waves with alternating tilt to cause turbulence in both fluids (water and air) in counterflow. It is resistant to corrosion, degradation and biological attacks. In the standard version it can work with water until a temperature of 55 °C. For dirtier water and / or higher water temperatures (up to 75 °C) it may be provided other film and / or SPLASH Fill type.

### DRIFT ELIMINATORS



The drift eliminators are manufactured with PVC sheets with three changes of direction and drift losses lower than 0,002% of the design flow rate.

### ELECTRIC MOTORS

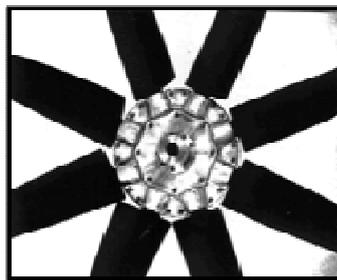
The electric motor of the fan is of closed type with ventilated housing, TEFC and IP55 protection. The application may be supplied with two speeds. This motor is designed specifically for Cooling Towers with ARGUS 55 protection, anterior and posterior reinforced bearings and an anticondensation system that operates when the motor is stopped, thereby avoiding corrosion.

### WATER DISTRIBUTION SYSTEM

Comprises a header and branches with spray nozzles in ABS with low pressure and large orifice openings to eliminate clogging. Allows an easy disassembly for inspection and cleaning. The inlet and outlet water connections are equipped with standard PVC flanges.



### FAN SECTION



The fans are axial type with blades in PPG (Glass reinforced polypropylene) of high mechanical resistance to corrosion and can support temperature up to 90 °C. They are equipped with angle adjustable blades and were designed to allow a direct air admission and to minimize the peripheral losses in order to obtain an optimal performance of the fan.

In models TA-K-55 to TA-R-799, the fans are driven by electric motors directly coupled. In models TA-S-304 to TA-S-1233, the fans are driven by electric motors through the system UNIDRIVE.

### TRANSMISSION SYSTEM UNIDRIVE

The transmission system UNIDRIVE developed by UNICLIMA consists of a set of pulleys and belts actuated by an electric motor. It is characterized by:

- High energy efficiency electric motor, mounted outside of the airflow and of easy access for maintenance.
- Bearings: applied to the shaft of the axial fan, with long life. The lubrication points are located outside the unit and easily accessible for maintenance.
- Low speed fan and consequent low acoustic level.

### STRAINER

It has a large dimension and configured to prevent cavitation. It is easily removable for cleaning and it may be in stainless steel.

### CIRCULAR OR RECTANGULAR ACCESS DOOR

Allows access for inspection and maintenance of internal components.

### WATER MAKE-UP VALVE

Allows automatic reintegration of water. It is equipped with plastic or copper float ball stainless steel valve.

### OPTIONAL ACCESSORIES

- **TWO SPEED MOTOR** to reduce the number of fan rotations and the consequent adjustment of capacity.
- **ELECTRIC WATER LEVEL CONTROL** may be provided instead of the float valve. Allows precise control of water level and possibility of remote warning of water shortages.
- **ELECTRIC IMMERSION HEATERS** with control and safety thermostat, to avoid basin water freezing.
- **TRANSMISSION SYSTEM UNIDRIVE** an alternative to direct coupling system models TA-R-159 to TA-R-799. May be coupled:
  - Normal Silent Fans
  - Silent Fans
  - Ultra Silent Fans