Water spraying nozzle - type DIATR

The water spraying nozzles DIATR type are designed for **counter flow cooling towers**, with natural or forced draft, provided with water distribution pipes.

The water spraying nozzle that equip the **distribution system** of the tower are placed on the water distribution pipes, above the tower fill, at a certain distance (optimized), toward the upper level of the fill.
The water spraying nozzles that equip the **frost protection system** are placed under the fill, all over the tower.
The water spraying nozzle DIATR type can be used also for the **cross flow cooling towers**, if they are equipped with water distribution pipes (instead of distribution tanks).

The water spraying nozzle DIATR type is composed of:
- disperser (various forms, depending on each application),
- nozzle,
- pipe fixing elements,
- support with arms,
- extension tube (in order to increase the hydrostatic pressure of the water).






Technical characteristics		
Type	DIATR1 -"D"-"d"; DIATR1C -"D"-"d"	DIATR2 -"D"-"d"; DIATR2C -"D"-"d"
Working fluid	cooling circuit water	
Nozzle presure	0,5 ÷ 3	
Air temperature(^{0}C)	-30 ÷ +50	
Water temperature (^{0}C)	+5 ÷ +80	
Atmosphere	with or without industrial emissions	
Nozzle outer diameter "d" (mm)	Φ21 ÷ Φ37	Φ18 ÷ Φ24
Hole diameter from the distribution pipe (mm)	Φ63 ÷ Φ65	Φ40 ÷ Φ42
Outer diameter of the distribution pipe "D" (mm)	Φ140, 160, 180, 240	Φ125, 140, 160, 200
Distribution pipe thickness (mm)	3 ÷ 18	max. 10