

## M-CTI induced draft, cell type, GRP cooling tower MNK-MAXI series

Based on our 25 years of experience in cooling tower design, our previous involvement in planning and supply of structural built cooling towers, we have extended and completed our MNK-SMALL and MNK-MIDI series with the MNK-MAXI series.

Previously, on cooling towers with a performance beyond the MNK-SMALL and MIDI series, we applied either timber or concrete structures.

As a result of research and development, we developed our own GRP structured cooling tower design.

For owner and operator, a long and corrosion free operation is guaranteed.

Because of this development, we succeeded in reducing the erection period considerably in case of cooling tower replacement, using the already existing basin.

The new cooling tower is to be erected adjacent to the cooling tower to be demolished, and then lifted by heavy crane on the existing basin.

This procedure provides a considerably reduced shut down period for the owner.

### SERIES DESCRIPTION:

The cell's foot print of the MNK-MAXI series depends on whether the concrete basin exits or is to be designed.

### MATERIALS:

- GRP structure
- stainless steel hardware
- GRP cladding
- anti slip GRP fan deck
- GRP railing
- GRP stairway and cage ladder
- PP drift eliminators
- flanged PP water distribution
- efficient in fill in PP or PVC

### FAN GROUP:

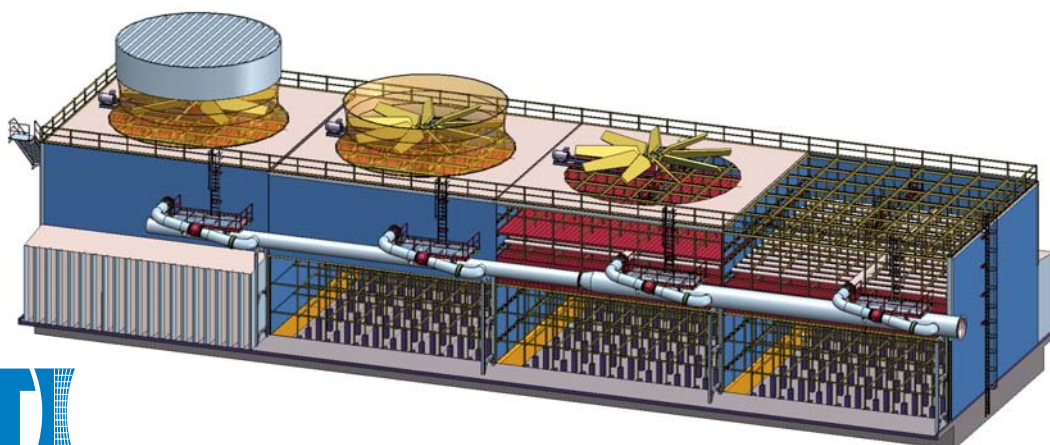
- induced draft fans with aluminium or GRP blades
- diffusors and fan stacks in GRP with stainless steel hardware
- double helical, oil lubricated right angle gearboxes

- free floating composite shaft with stainless steel couplings between motor and gearbox.
- e-motor in proper enclosures, suitable for cooling towers



### ADVANTAGES

- no corrosion
- rigid construction
- shorter erection period
- shorter delivery times
- minimal shut down periods
- continuous operation of process (in case of multiple cell replacement)
- minimal costs



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### TECHNICAL DATA:

MNK	Length in mm	Width in mm	Height in mm	Height inlet in mm and number	Height fan deck in mm	Diameter fan in mm	Total height incl. stack in mm max.	Water flow in m <sup>3</sup> /h
640	8000	8000	5600	2600/2	7500	4870	11700	400 - 1800
800	8000	10000	5600	2600/2	7600	5545	11800	500 - 2200
1000	10000	10000	6000	3000/2	8100	6090	12300	600 - 2600
1200	10000	12000	6000	3000/2	8300	6700	12500	700 - 3200
1440	12000	12000	6800	3800/2	9100	7310	13300	800 - 4100
1680	12000	14000	6800	3800/2	9500	7920	13700	900 - 4800
1960	14000	14000	6800	3800/2	9700	8530	13900	1000 - 5600
2240	14000	16000	7500	4500/2	10500	9140	14700	1100 - 6600
2560	16000	16000	7500	4500/2	10700	10360	14900	1200 - 7400