

Cell cooling towers

M-CTI cell cooling towers in the glass-fibre reinforced plastic MNK-MAXI range

The “MNK-MAXI” series represents our most powerful cooling towers. They are designed to meet the requirements in heavy industry.

More than a quarter of a century of experience reflects our design of cooling towers. Today, we build these large cooling tower units in the shape of a framework using our own GRP profiles. This guarantees many years of corrosion-free operation.

Depending on the requirements of our customers, the plant shut down period for our cell cooling towers in the MNK-MAXI series can be reduced to just a few days. We first assemble the new cooling tower next to your old system. With a specially designed hoist, we then position it on the existing cooling tower basin, for example.



Cell cooling towers in detail:

- Structure made of GRP profiles
- Stainless steel hardware
- GRP cladding
- Cooling tower deck made of GRP panels with anti-slip coating
- Guard rails made of GRP profiles
- Staircases and cage ladders made of GRP profiles
- Drift eliminators made of PP material
- Flanged water distribution made from PP material
- High-performance cooling fill made of PP or PVC

The mechanical part of the cooling towers

- Induced fans with blades made from GRP or aluminium
- Fanstacks made of reinforced GRP partitions with stainless steel hardware
- Bevel helical gearbox with recirculating oil lubrication system
- All-steel couplings in stainless steel with composite spacer sleeves for connection to motor and gearbox
- Drive motors in cooling tower design

The advantages of induced draft cell cooling towers

- No corrosion
- Strong structure
- Short installation times
- Fast availability
- Short downtimes for servicing work
- Cost-optimisation

Technical data

MNK	640	800	1.000	1.200	
Length in mm	8.000	8.000	10.000	10.000	
Width in mm	8.000	10.000	10.000	12.000	
Water inlet height in mm	5.600	5.600	6.000	6.000	
Height of air intake in mm and number of intakes	2.600/2	2.600/2	3.000/2	3.000/2	
Fan deck height	7.500	7.600	8.100	8.300	
Diameter of fan	4.870	5.545	6.090	6.700	
Total height incl. fan stack in mm max.	11.700	11.800	12.300	12.500	
Circulating volume in m³/hr	400 - 1.800	500 - 2.200	600 - 2.600	700 - 3.200	800 - 3.600

Technical data

MNK	1.680	1.960	2.240	
Length in mm	12.000	14.000	14.000	
Width in mm	14.000	14.000	16.000	
Water inlet height in mm	6.800	6.800	7.500	
Height of air intake in mm and number of intakes	3.800/2	3.800/2	4.500/2	
Fan deck height	9.500	9.700	10.500	
Diameter of fan	7.920	8.530	9.140	

MNK	1.680	1.960	2.240	
Total height incl. fan stack in mm max.	13.700	13.900	14.700	
Circulating volume in m³/hr	900-4.800	1.000-5.600	1.100-6.600	1.200-7.400