

COOLING TOWER

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TECHNOALPIN®

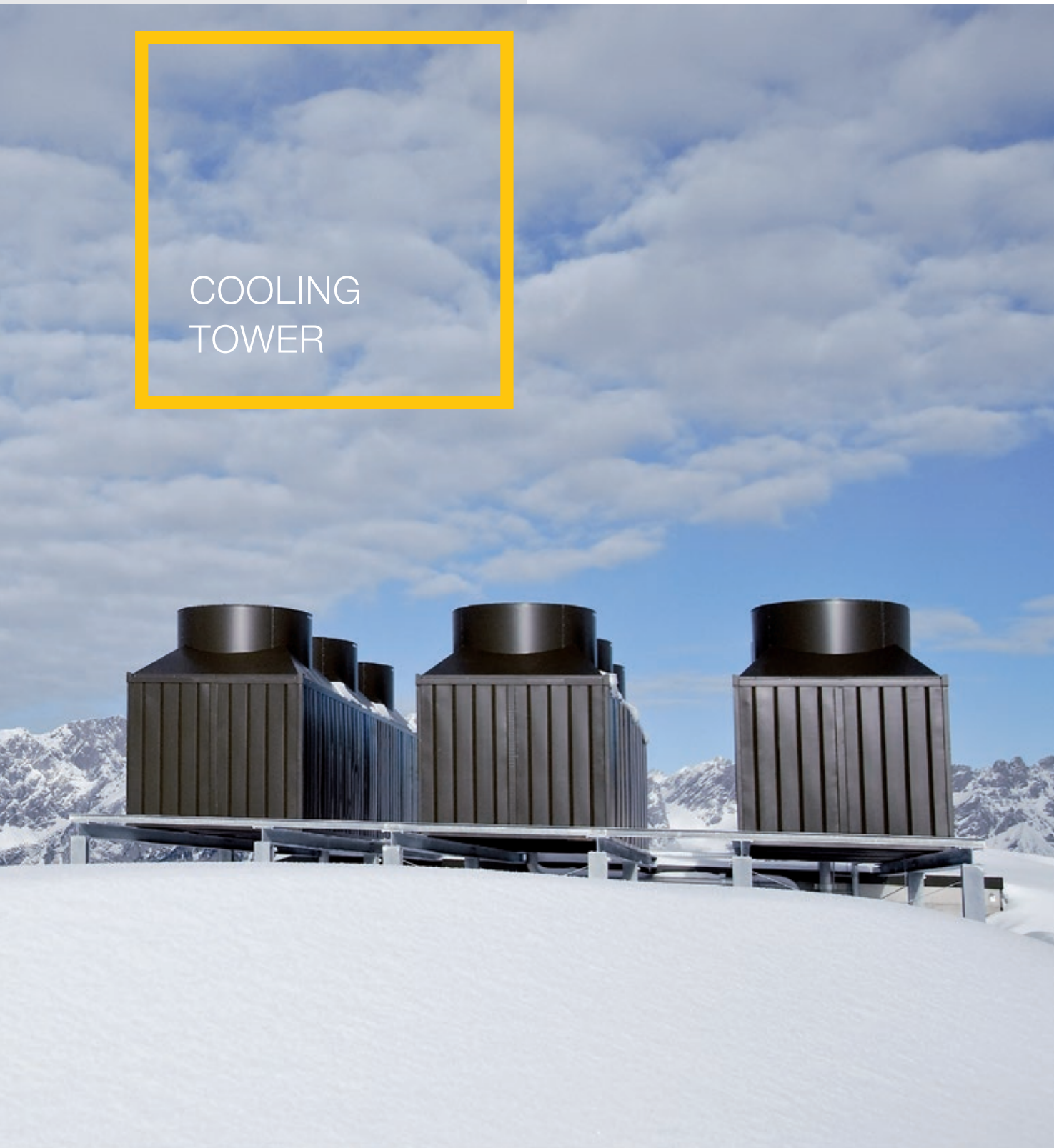
OPTIMAL WATER TEMPERATURE – HIGHER SNOW OUTPUT

The temperature of the snowmaking water plays a key role when it comes to the efficiency of a snowmaking system. A water temperature just above freezing enables optimum operation and ensures higher snow output, especially in the limit temperature range.

TechnoAlpin cooling towers have a sophisticated operating principle in which the water is cooled as it is distributed over a large area in a honeycomb system. This honeycomb principle keeps energy consumption low and output incredibly high. The throughput ranges from 30 to 90 l/sec., depending on the model. Sixteen nozzles ensure optimal water distribution. The increased water surface maximizes temperature exchange and increases cooling capacity.

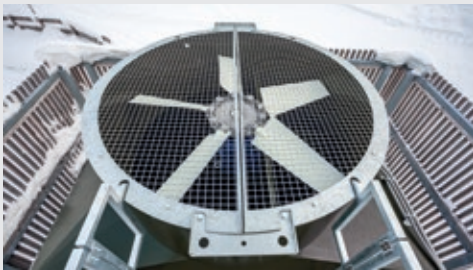


COOLING
TOWER



HIGH-QUALITY DETAILS INCREASING SAFETY

All materials were selected for use under difficult on-site conditions. Meticulous technical details ensure a high level of safety as well as straightforward installation and handling.



AIR OUTLET AND COVER GRID

A hot-dip galvanized cover grid protects the fan from damage and external elements. The fan is adapted to the temperature, keeping the noise level low. The air outlet is equipped with a heating system to prevent icing.

MAINTENANCE PLATFORM

The maintenance platform allows safe inspection of the cooling tower as well as safe removal of snow deposits.

LADDER HOOKING POINTS

The ladder can be fixed to the designated hooking points for safe access.

INSPECTION DOOR

The removable inspection door facilitates inspection of the interior. The water-bearing parts are designed for guaranteed drainage.

CRANE LIFTING POINTS

Hot-dip galvanized lifting points provide support for the cooling tower to be lifted safely.

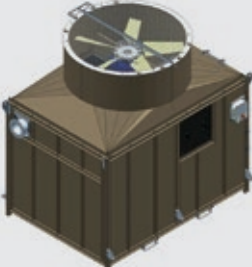
FORKLIFT LIFTING POINTS

Removable guides for forklifts also ensure maximum safety when transporting the cooling tower.

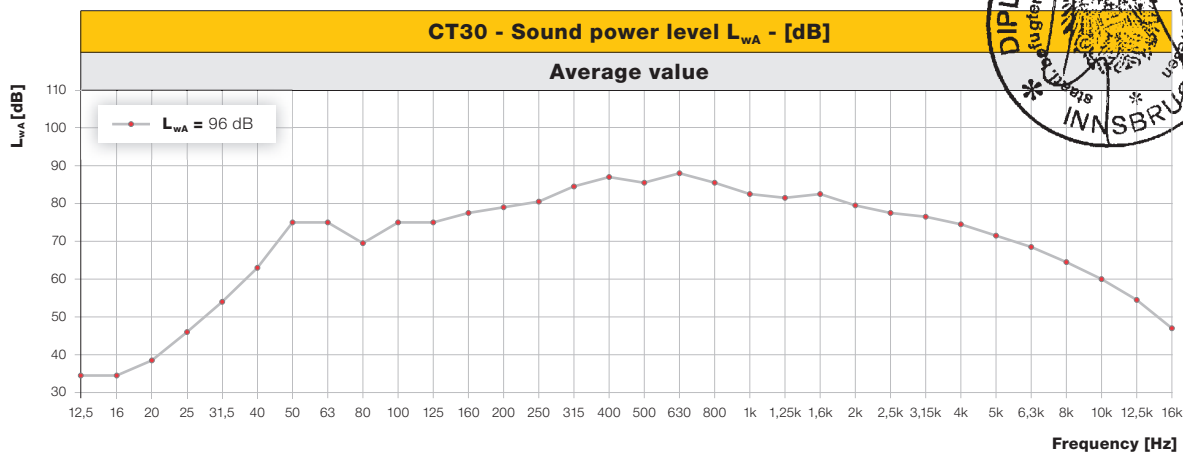
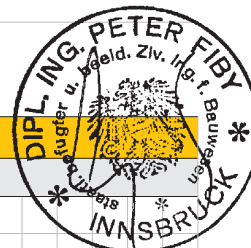
ELECTRIC SWITCHBOARD

All electrical connections, motors and heaters are wired in a separate box. One electric switchboard is provided per cooling tower to ensure optimum modularity.

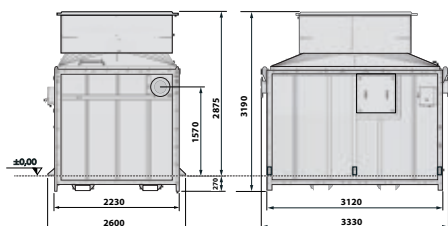
CT30 - Sound pressure level L_A - [dB]	
Distance [m]	[dB]
20	61
25	59
50	53
100	46
200	41
300	38



CT30 - Test at 50 Hz full load and water discharge
Test report: 30-464-1 22.12.2020
Altitude above sea level: approx. 1,750 m
Air temperature: -0.3°C
Air humidity: 90%
Electric power: 15 kW
Number of revolutions: 730 rpm



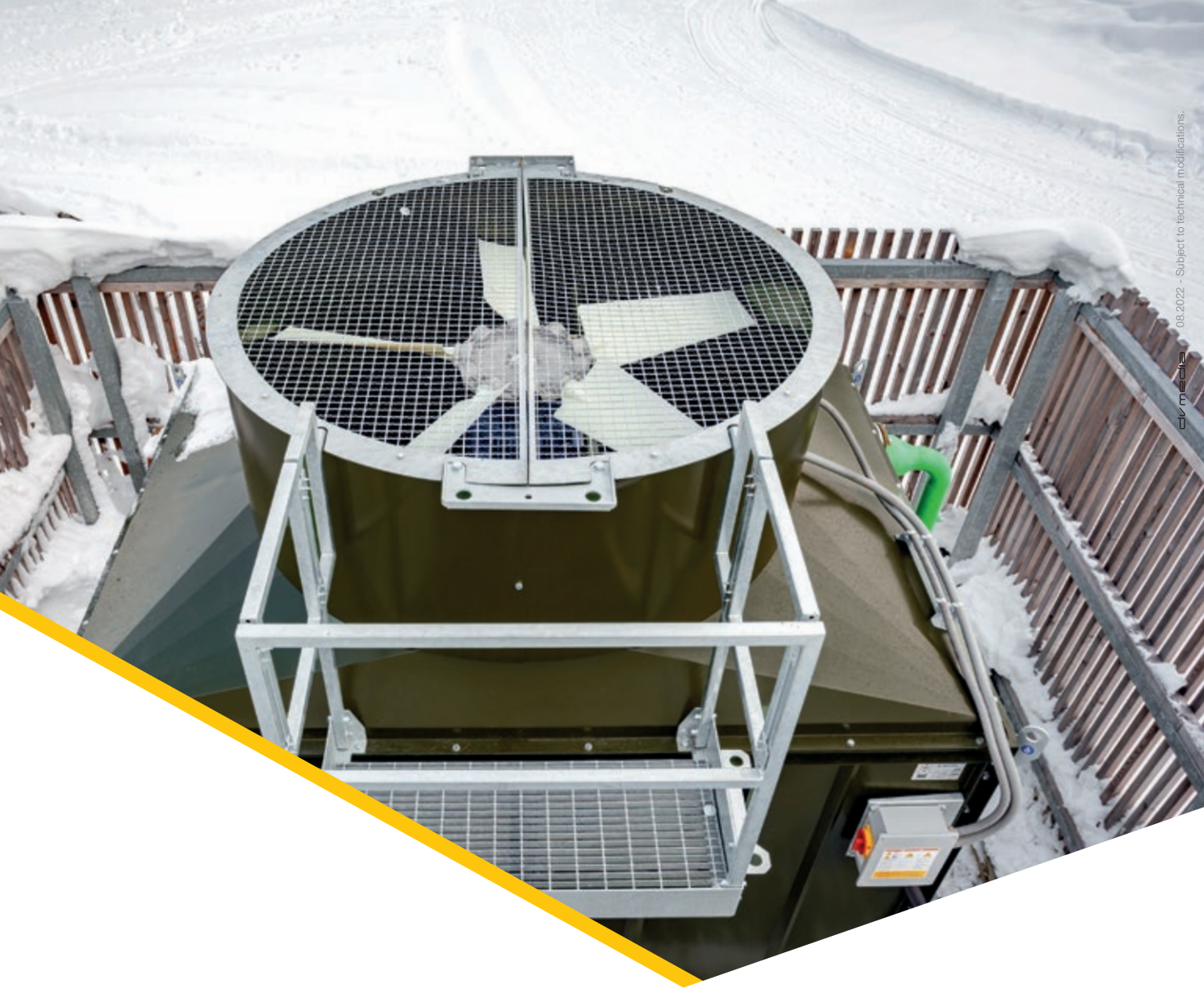
TECHNICAL DATA



	CT30		CT60		CT90	
	STD	MAX	STD	MAX	STD	MAX
Dimensions						
Flange size (IN)	DN200		DN200		DN200	
Flange size (IN)	PN10		PN10		PN10	
Weights						
Weight loadless [kg]	1,900		3,800		5,700	
Weight operating [kg]	2,500		5,000		7,500	
Electrical properties						
Installed power [kW]	15x1	15x1	15x2	15x2	15x3	15x3
Rated voltage [V]	400		400		400	
Nominal frequency [Hz]	50		50		50	
Nominal current [A]	30*		2x 30*		3x 30*	
Various						
Thermal power [kW]	621	558	621x2	558x2	621x3	558x3
Thermal power [kcal/h]	534,240	479,520	534,240x2	479,520x2	534,240x3	479,520x3
Air flow [m ³ /sec.]	38	38	38x2	38x2	38x3	38x3
Number of cells	1	1	2	2	3	3
Water						
Water flow [l/sec.]	30	40	60	80	90	120
Water flow [m ³ /h]	108	144	216	288	324	432
Temperatures - Water						
Temperature (IN) [°C]	7.3	5.7	7.3	5.7	7.3	5.7
Temperature (OUT) [°C]	2	2	2	2	2	2
Difference [°C]	5.3	3.7	5.3	3.7	5.3	3.7
Wet bulb temperature	-5	-5	-5	-5	-5	-5

* Values at nominal voltage at 1,000 m above sea level and at a temperature of 0°C.

Data are subject to change depending on the type of plant and/or the country of installation.



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