Non-corroding cooling towers

PME-E Series





PME-E series cooling tower









■ PME-E series cooling tower

The PME-E series cooling towers are manufactured with a high thickness (3-5 mm) steel bearing frame, which is hot-dip galvanized after all works and with fibreglass sandwich panels of 22 mm thickness. This kind of panel is made by a double laminated layer with supporting expanded material in between. This construction grants, also on large surfaces, a great mechanical strength and a good dropping water noise absorption. The surface of the fibreglass, moreover, is protected by a gel-coat that is resistant to UV rays, hot and cold water and abrasion due to weather and chemicals.

The filling material is made of self-extinguishing PVC with 20 mm wide flute, particularly suitable for industrial applications. In case of applications with very clean water, the tower version with 12 mm flute fill pack is also available.

The multi-blade axial fan grants high performances with low electrical power input.

A manhole for easy inspection inside the cooling tower is included in the standard equipment.

The basin has a sloping bottom with rounded off corners, to enable an easy emptying to simplify its cleaning.

With 16 different models, all available with or without water basin, this series covers a capacity range between 580 and 2.600 kW (approximate cooling capacity referred to 5°C water temperature range).

Special versions

The **PME-E** series is also available in a special "Container" version, designed and built for easy shipment, to optimize the transport volumes and to reduce the costs.

For all basic models the following special versions are available:

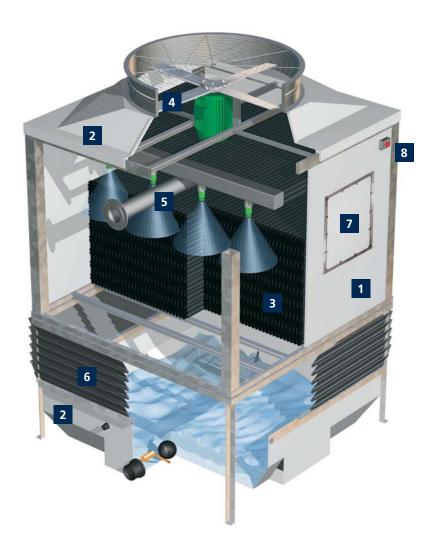
- ATT high temperature water, with max peaks of 80 °C.
- N for water containing low quantities of suspended solids.
- N-ATT for high temperature water (with max peaks of 80 °C) containing low quantities of suspended solids.
- GS for water containing large quantities of suspended solids.

Accessories and construction variants

The following accessories and/or construction variants are available for all models on request:

- three-phase heating element with control thermostat
- minimum level cut-out switch
- two-speed motor with graduated thermostat, automatic cascade
- control panel
- stainless steel metal parts (instead of hot-dip galvanized steel)
- removable side-walls to allow inspection, easy cleaning and maintenance to the internal components of the cooling tower.

Construction details



Structure and casing

Material:

bearing frame in hot-dip galvanized steel after all works, fibreglass sandwich panels, thickness 22 mm.

Characteristics:

- great mechanical strength
- external fibreglass gel-coat protection resistant to UV rays, hot and cold water and abrasion due to weather and chemicals
- good noise absorption
- non-corroding.

Water basin (optional) and top cap

orthophthalic polyester resin, reinforced with several layers of glass fibre matting.

Characteristics

- external fibreglass gel-coat protection resistant to UV rays, hot and cold water and abrasion due to weather and chemicals
- internal waterproof protection thanks to an impermeable, water repellent, paraffincontaining orthophthalic gelcoat
- sloping bottom with rounded off corners, to enable an easy emptying to simplify its cleaning
- light-weight
- non-corroding

Filling material (or heat exchange surface) Material:

Self-extinguishing PVC.

Characteristics:

- 20 mm wide flute (air/water passage),
- particularly suitable for industrial applications reinforced top layer to better absorb dynamic stress caused by the under pressure sprayed water from the nozzles.

Multi-blade axial fan 4

Material:

Motor support: hot dip galvanized steel (after all works), fan blades: plastic material reinforced with glass fibre, or aluminium, fan screening grid: stainless steel.

Characteristics:

- high performance, low electrical power input
- directly coupled to the electric motor
- unalterable safety over time thanks to the fan screening grid non-corroding.

Hot water distribution system

PN 10 unified PVC pipes, polypropylene

Characteristics:

- non-corroding
- uniform and total spraying of the heat exchange filling pack
- MITA exclusive nozzles design, with nonclogging wide passages for a full cone spray.

Anti-splash louvers on air intake openings . Material:

Fibreglass louvers (on request: PVC panels in a suitable galvanized steel frame).

Characteristics:

- Non-corroding
- easy to remove even after many years of use.

fibreglass sandwich panel, thickness 22 mm, in a suitable hot dip galvanized steel frame.

Junction box Material:

technopolymer.

Characteristics: easy connection of the electric motor to the stream supply line.

Bolts, nuts and washers

Material:

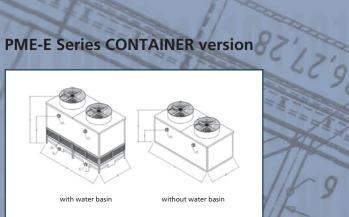
stainless steel 304. Characteristics:

non-corroding

- easy to remove even after many years of use.



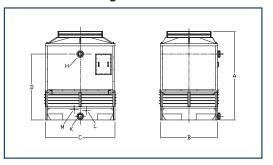
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	FANS	FAN	AIR VOLUME PER FAN	ELECTRIC MOTOR DATA						
TYPE	TAINS	DIAMETER	AIN VOLUME PEN PAIN	INSTALLE	INSTALLED POWER		R.P.M.			
	no.	mm	m³/h	kW	HP	no.	no.			
PME 2053 E	1	1500	59.000	4	5,5	8	720			
PME 2054 E	1	1500	59.000	5,5	7,5	8	720			
PME 2403 E	1	1500	70.000	5,5	7,5	8	720			
PME 2404 E	1	1500	70.000	7,5	10	8	720			
PME 2853 E	1	1750	85.000	7,5	10	8	720			
PME 2854 E	1	1750	85.000	11	15	8	720			
PME 3353 E	1	1750	99.000	11	15	8	720			
PME 3354 E	1	1750	99.000	11	15	8	720			
PME 4103 E	2	1500	118.000	4 x 2	5,5 x 2	8	720			
PME 4104 E	2	1500	118.000	5,5 x 2	7,5 x 2	8	720			
PME 4803 E	2	1500	140.000	5,5 x 2	7,5 x 2	8	720			
PME 4804 E	2	1500	140.000	7,5 x 2	10 x 2	8	720			
PME 5703 E	2	1750	170.000	7,5 x 2	10 x 2	8	720			
PME 5704 E	2	1750	170.000	11 x 2	15 x 2	8	720			
PME 6703 E	2	1750	198.000	11 x 2	15 x 2	8	720			
PME 6704 E	2	1750	198.000	11 x 2	15 x 2	8	720			



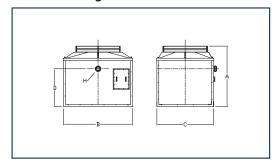


7	TVDE	DIN	1ENSIONS (n	nm)	BODY SH	IIPPING DIN WEIGH		nm) AND	BASIN SH	IIPPING DIM WEIGH		nm) AND	FANS			
1	TYPE	HEIGHT	LENGHT	WIDTH	HEIGHT	LENGHT	WIDTH	WEIGHT (EMPTY)	HEIGHT	LENGHT	WIDTH	WEIGHT (EMPTY)	N.	INSTALLED POWER (kW)	Ø (mm)	HEIGHT (mm)
9	2053	3800	2245	2195	2220	2230	2100	895	2240	2250	1250	250	1	4	1500	650
	2054	3800	2245	2195	2220	2230	2100	930	2240	2250	1250	250	1	5,5	1500	650
e,	2403	3800	2595	2195	2220	2580	2100	950	2240	2600	1250	285	1	5,5	1500	650
	2404	3800	2595	2195	2220	2580	2100	985	2240	2600	1250	285	1	7,5	1500	650
ľ	2853	3800	2945	2195	2220	2930	2100	1070	2240	2950	1250	325	1	7,5	1750	650
	2854	3800	2945	2195	2220	2930	2100	1120	2240	2950	1250	325	1	11	1750	650
8	4103	3800	4510	2195	2220	4500	2100	1640	2240	4520	1250	510	2	4	1500	650
N	4104	3800	4510	2195	2220	4500	2100	1710	2240	4520	1250	510	2	5,5	1500	650
	4803	3800	5210	2195	2220	5200	2100	1790	2240	5220	1250	540	2	5,5	1500	650
6	4804	3800	5210	2195	2220	5200	2100	1860	2240	5220	1250	540	2	7,5	1500	650
	5703	4100	5910	2195	2220	5900	2100	1965	2240	5920	1250	720	2	7,5	1750	650
	5704	4100	5910	2195	2220	5900	2100	2064	2240	5920	1250	720	2	11	1750	650

PME-E Series, single fan with water basin

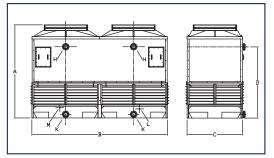


PME-E Series, single fan without water basin

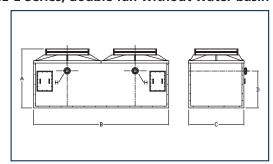


		DIMEN	ISIONS			WATER CO	NNECTIONS		Water basin	WEIGHTS	
TYPE	Α	В	С	D	H∅	ΚØ	LØ	ΜØ	volume	empty	in operation
	mm	mm	mm	mm	in	in	in	in	m³	kg	kg
					with water b	asin					
PME 2053 E	3650	2360	2030	2360	5"	6′′	1 ½"	1 ½"	1,6	885	2485
PME 2054 E	3650	2360	2030	2650	5"	6′′	1 ½"	1 1/2"	1,6	920	2520
PME 2403 E	3650	2360	2360	2350	6"	6''	1 ½"	1 ½"	1,9	965	2865
PME 2404 E	3650	2360	2360	2650	6"	6′′	1 ½"	1 1/2"	1,9	1000	2900
PME 2853 E	3650	2360	2870	2350	6"	6''	1 ½"	1 ½"	2,7	1115	3815
PME 2854 E	3650	2360	2870	2650	6"	6''	1 ½"	1 1/2"	2,7	1165	3865
PME 3353 E	3650	2360	3370	2350	6"	8''	2''	2''	3,1	1220	4320
PME 3354 E	3650	2360	3370	2650	6"	8''	2''	2''	3,1	1270	4370
				v	vithout water	basin					
PME 2053 E	2500	2010	2340	1200	5"					635	1195
PME 2054 E	2500	2010	2340	1500	5"					670	1230
PME 2403 E	2500	2340	2340	1200	6"					700	1335
PME 2404 E	2500	2340	2340	1500	6"					735	1370
PME 2853 E	2500	2850	2340	1200	6"					825	1600
PME 2854 E	2500	2850	2340	1500	6"					875	1650
PME 3353 E	2500	3350	2340	1200	6"					900	1790
PME 3354 E	2500	3350	2340	1500	6''					950	1840

PME-E Series, double fan with water basin



PME-E Series, double fan without water basin



		DIMEN	ICIONIC			MATER COL	VINIECTIONS			NA/EL	CUTC
		DIMENSIONS WATER CONNECTIONS						Water basin	WEIGHTS		
TYPE	Α	В	С	D	H∅	ΚØ	LØ	M∅	volume	empty	in operation
	mm	mm	mm	mm	in	in	in	in	m³	kg	kg
					with water b	asin					
PME 4103 E	3650	2360	4080	2350	2 x 5"	2 x 6"	2"	2''	3,2	1630	4680
PME 4104 E	3650	2360	4080	2650	2 x 5"	2 x 6"	2"	2''	3,2	1700	4750
PME 4803 E	3650	2360	4750	2350	2 x 6"	2 x 6"	2"	2''	3,8	1790	5430
PME 4804 E	3650	2360	4750	2650	2 x 6"	2 x 6"	2"	2''	3,8	1860	5500
PME 5703 E	3930	2360	5770	2630	2 x 6"	2 x 6"	2 1/2"	2 1/2"	5,4	2125	7325
PME 5704 E	3930	2360	5770	2930	2 x 6"	2 x 6"	2 1/2"	2 1/2"	5,4	2225	7425
PME 6703 E	3930	2360	6770	2630	2 x 6"	2 x 8"	2 1/2"	2 ½"	6,2	2375	8375
PME 6704 E	3930	2360	6770	2930	2 x 6"	2 x 8"	2 1/2"	2 1/2"	6,2	2475	8475
				v	without water	basin					
PME 4103 E	2500	4060	2340	1200	2 x 5"					1170	2290
PME 4104 E	2500	4060	2340	1500	2 x 5"					1240	2360
PME 4803 E	2500	4730	2340	1200	2 x 6"					1295	2570
PME 4804 E	2500	4730	2340	1500	2 x 6"					1365	2640
PME 5703 E	2500	5750	2340	1200	2 x 6"					1555	3080
PME 5704 E	2500	5750	2340	1500	2 x 6"					1655	3180
PME 6703 E	2500	6750	2340	1200	2 x 6"					1745	3525
PME 6704 E	2500	6750	2340	1500	2 x 6"					1845	3625

Technical data not binding - please contact MITA Technical Dept. for full details.



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