



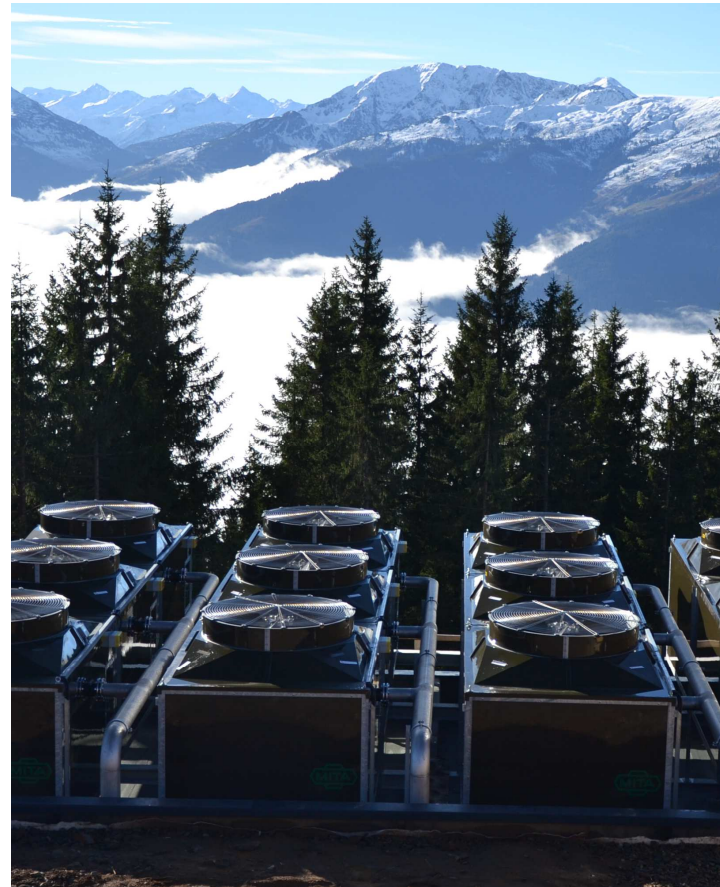
**SUSTAINABILITY,
RELIABILITY AND
INNOVATION.**

Our added value for **cooling**.



MITA Group is made up of four companies that express real excellence in their reference markets.

These four independent companies have embraced the same philosophy, the same values and the same style of positioning of the Group on market:



OUR HISTORY

MITA COOLING TECHNOLOGIES



- 1960 Company set up – sale of equipment for cold-storage rooms and warehouses as main activity
- 1964 **MITA** started to sell fiberglass evaporative cooling towers, imported from Germany (EWK - Escher Wyss Kühlturm - Lindau)
- 1967 **MITA** began its own production of cooling towers in the center of Milan
- 2003 **MITA** and **MITA Biorulli** moved to the new headquarters of Siziano (MI)
- 2012 **MITA** acquires **TORRAVAL Cooling**, a well-known Spanish company founded in 1967 operating in industrial evaporative cooling field
- 2015 **TORRAVAL Cooling** opens a new branch in Colombia.
- 2018 **MITA GROUP** is created – Name changed to **MITA COOLING TECHNOLOGIES**



OUR HISTORY

MITA COOLING TECHNOLOGIES



Today MITA Group employs over 100 people
Of which more than 40 in MITA COOLING TECHNOLOGIES

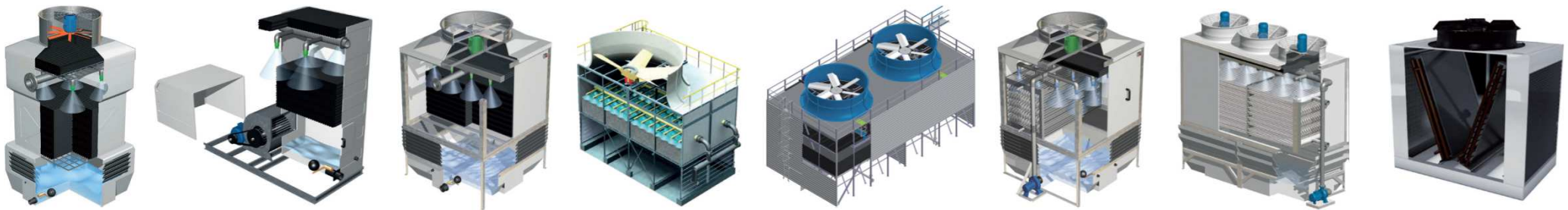
Today MITA COOLING TECHNOLOGIES produces over 600 units a year with a turnover in excess of 10M€

In 2018 MITA COOLING TECHNOLOGIES became part of very selected group of companies



MITA Cooling Technologies was established in Milan in 1960 and immediately distinguished itself in the production and marketing of:

- Open and closed circuit cooling towers for civil and industrial water
- Evaporative condensers
- Adiabatic coolers and condensers
- Complete cooling systems



In 60 years of activity, over 30,000 systems have been installed throughout Europe. What distinguishes MITA Cooling Technologies is its methodical approach to each project.

WHERE TO FIND US

MITA COOLING TECHNOLOGIES



Via del Benessere, 13 - 27010 Siziano (PV) - Italy
Ph. +39 0382 67599 - Fax +39 0382 617640 - info@mitact.it
www.mitacoolingtechnologies.com

GPS coordinates
45°19'39.0"N 9°12'25.2"E



OUR MAIN MARKETS

MITA COOLING TECHNOLOGIES



More than 15 Agents in Italy, more than 30 agents/distributors across Europe



OUR EXPORT ORGANISATION

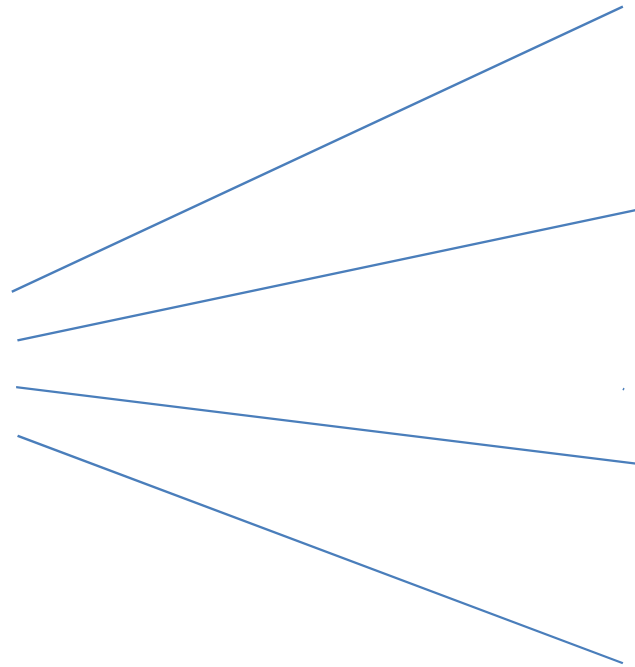
MITA COOLING TECHNOLOGIES



A dedicated team for export sales and after-sales



Sales Manager
Tommaso Fontana



Export Area Manager
Nicolò Passaro



Export Area Manager
Matteo Pojaghi



Proposal Engineer
Diego Mercurio



Customer Service
Lara Rodino



FIELDS OF APPLICATION

MITA COOLING TECHNOLOGIES



INDUSTRIAL
PROCESS



HVAC



INDUSTRIAL
REFRIGERATION



COMMERCIAL
REFRIGERATION



INDUSTRIAL
PROCESS

REQUIREMENTS:

- criticality of cooling temperatures
- variability of water quality
- operational continuity (24H/365 days)
- energy efficiency
- limited water consumption
- accessibility for maintenance operations

SOLUTIONS:

- resistance to high and low temperatures
- multiplicity of heat exchange packs
- corrosion-free and long-lasting
- high-efficiency motors and fans
- hybrid and adiabatic solutions, free cooling
- extensive access to the internal components of the machines



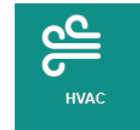
INDUSTRIAL
REFRIGERATION

REQUIREMENTS:

- criticality of condensation temperatures
- variability of refrigerants
- tendency towards the use of natural refrigerants
- operational continuity (24H/365 days)
- energy efficiency
- limited water consumption
- accessibility for maintenance operations

SOLUTIONS:

- selection of the optimum cooler
- specific models for the various refrigerants
- gas cooler and adiabatic subcoolers
- corrosion-free and long-lasting
- high-efficiency motors and fans
- hybrid and adiabatic solutions, free cooling
- extensive access to the internal components of the machines



HVAC

REQUIREMENTS:

- low noise impact
- limited size and weight
- visual impact
- energy efficiency
- limited water consumption
- reliable performance

SOLUTIONS:

- low noise solutions
- compact configurations, extensive use of light materials
- attention to product design
- high-efficiency motors and fans
- hybrid and adiabatic solutions, free cooling
- Eurovent/CTI Certified product line



COMMERCIAL
REFRIGERATION

REQUIREMENTS:

- low noise impact
- limited size and weight
- visual impact
- energy efficiency
- tendency towards the use of natural refrigerants
- operational continuity (24H/365 days)
- limited water consumption

SOLUTIONS:

- low noise solutions
- compact configurations, extensive use of light materials
- attention to product design
- high-efficiency systems (adiabatic subcoolers)
- adiabatic gas coolers and subcoolers
- corrosion-free and long-lasting
- hybrid and adiabatic solutions, free cooling

REFERENCES: INDUSTRIAL APPLICATION

MITA COOLING TECHNOLOGIES



INDUSTRIAL PROCESS



POWER GENERATION



CHEMICALS



PHARMA



FOOD & BEVERAGES



INDUSTRIAL
PROCESS



INDUSTRIAL
REFRIGERATION



COMMERCIAL
REFRIGERATION

REFERENCES: CIVIL APPLICATION - HVAC

MITA COOLING TECHNOLOGIES



HVAC



HVAC SPECIAL PROJECTS WITH SPECIAL PARTNERS



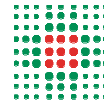
HVAC SPECIAL PROJECTS: HOSPITAL



SUNDSVALL HOSPITAL SWEDEN



VIENNA OPEN MEDICAL INSTITUTE



SERVIZIO SANITARIO REGIONALE EMILIA-ROMAGNA
Azienda Unità Sanitaria Locale di Bologna

Ospedale Maggiore di Bologna



AZIENDA OSPEDALIERA UNIVERSITA'



Ambulatori Genova Salute



Sistema Socio Sanitario



Regione Lombardia

ASST Ovest Milanese

Ospedale di Legnano



Servizio Sanitario della Toscana

Ospedale di Prato



Servizio Sanitario della Toscana

Ospedale di Lucca



Servizio Sanitario della Toscana

Ospedale di Pistoia



Servizio Sanitario della Toscana

Ospedale di Grosseto



HVAC

OUR APPROACH

MITA COOLING TECHNOLOGIES



What distinguishes MITA Cooling Technologies is its **methodical approach** to each project. **Personal solutions** are provided for each customer, according to their actual needs.

A preliminary **consultancy service** that ends with the selection of the product, always focusing on energy saving and respect for the environment.



ENERGY
SAVING



WATER
SAVING



NON CORRODING
AND LONG LASTING



EASY
MAINTENANCE



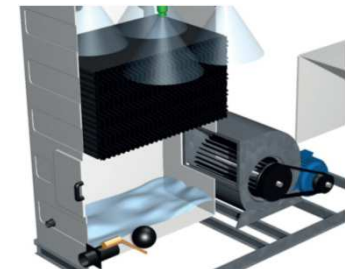
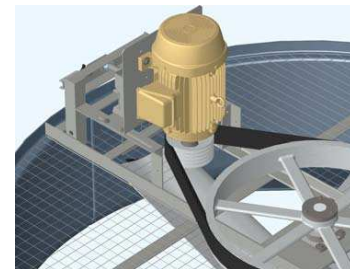
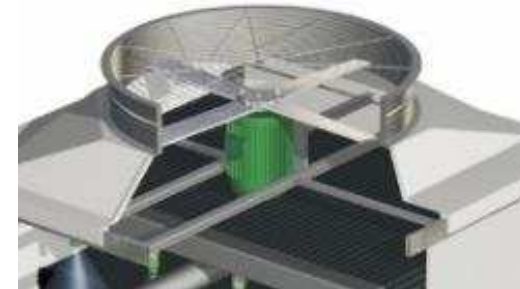
LIMITED
NOISE



RELIABILITY AND
QUALITY

1. MOTORS DIRECTLY COUPLED WITH AXIAL FANS

- ✓ High efficiency axial fans,
- ✓ Lower energy consumption compared to :
 - Belt driven axial fans need 2 times installed power
 - Centrifugal fans need it 3 timesFor the same performances;
- ✓ Electric motor protection IP56;
- ✓ No maintenance required;
- ✓ Possibility to reduce the energy consumption by use of frequency converter (MCS control panel);
- ✓ Possibility to reduce noise level;



ENERGY
SAVING



EASY
MAINTENANCE



LIMITED
NOISE



RELIABILITY AND
QUALITY

2. MCS CONTROL PANEL

All electric motor used by MITA are VSD ready

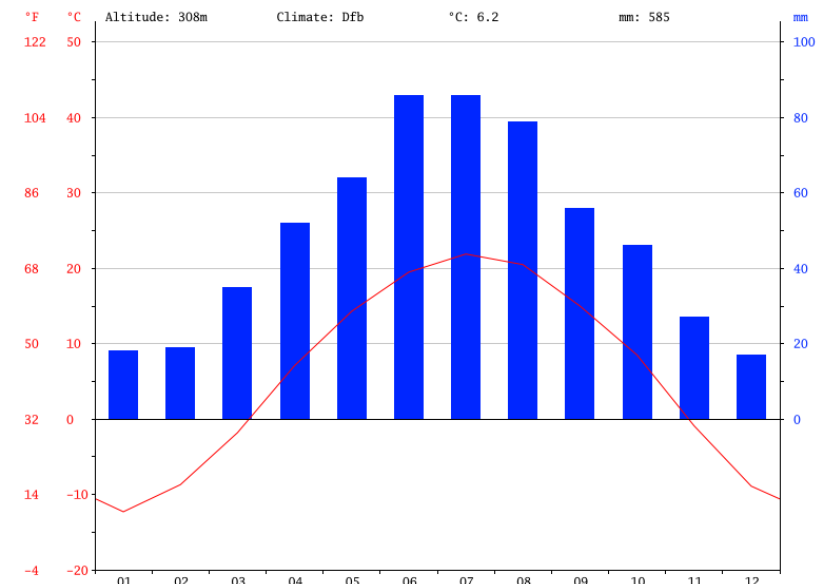
- ✓ Fan Speed (rpm) according output water temperature by mean of a temperature probe reading
- ✓ Lower energy consumption
- ✓ Lower mechanical parts wearing = longer life time
- ✓ In very cold climate reduced icing risks in the fill pack
- ✓ Lower noise emission when at lower rpm
- ✓ Possibility for basin heater and pump management

**Supplied with a
in-depth
analysis of
yearly energy
savings**

**Can be
integrated with
existing BMS**



**DESIGN WET BULB T°C
1% of the year**



**ENERGY
SAVING**



**LIMITED
NOISE**



**RELIABILITY AND
QUALITY**

3. CORROSION FREE PRODUCTS

- ✓ Side walls, FRP sandwich panel 22mm thickness and protected on both sides by a layer of isophthalic gelcoat (neutral color), resistant to UV;
- ✓ top cover and water basin are one single piece FRP and smooth internally finished by means of water-repellent paraffin-based gelcoat, to grant perfect water proofness. External finish is made during the molding phase, using isophthalic gelcoat (neutral color) UV rays resistant;
- ✓ Steel frames hot dip galvanized steel (HDGS)
- ✓ Standard protection granted by hot galvanization process with UNI EN ISO 1461-99 standard, purity defined by UNI1179 (99.95 zn). Zinc thickness not less than 80 microns.
- ✓ All cuts and drillings of profiles and steel plates done before the hot-galvanization process, so to have a total protection against corrosion
- ✓ Nuts and bolts in stainless steel AISI 304
- ✓ No thermal expansion



NON CORRODING
AND LONG LASTING



EASY
MAINTENANCE



RELIABILITY AND
QUALITY

4. WATER TREATMENT SOLUTIONS

MITA SYSTEMS can provide tailor made solutions from:

- ✓ Dosing stations
- ✓ Concrete basin for temperature mitigation and higher thermal inertia
- ✓ Complete containerized pumping, dosing and control station with hot and cold water basin



Treatment type can be selected for given water quality available on site and for given process parameter such as concentration factor



NON CORRODING
AND LONG LASTING



EASY
MAINTENANCE



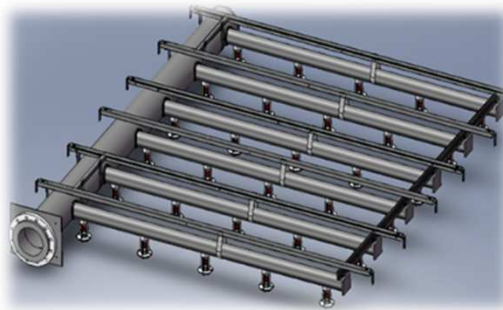
RELIABILITY AND
QUALITY

5. LOW TEMPERATURE OPERATION

- ✓ Fill pack and water distribution pipe in PP,
- ✓ PTC thermistor, temperature sensor, over-heating protection,
- ✓ Anticondensation heater for the electric motor,
- ✓ Water basin electric heater,
- ✓ Ring fan heater,
- ✓ only for PMM series, gearbox oil heater.



UMEÅ ENERGY, DÅVA PLANT, SWEDEN - model PME 2853 E – 4000kW



RELIABILITY AND
QUALITY

6. CUSTOMIZATION:

- ✓ Configuration
- ✓ Layout
- ✓ Air inlet height
- ✓ Colors



Complete with air inlet frame and basin - towers installed side by side, joined by the short side

Customized solution to fit specific space/layout restrictions or existing concrete basin.



Without air inlet frame and without basin (installation on concrete basin)



Special RAL and layout for environmental mitigation



EASY
MAINTENANCE

KEY FEATURES

MITA COOLING TECHNOLOGIES



7. ACCESS and EASY MAINTENANCE:

- ✓ Removable wall
- ✓ Man hole
- ✓ Basin access



EASY
MAINTENANCE

KEY FEATURES

MITA COOLING TECHNOLOGIES



8. NOISE REDUCTION:

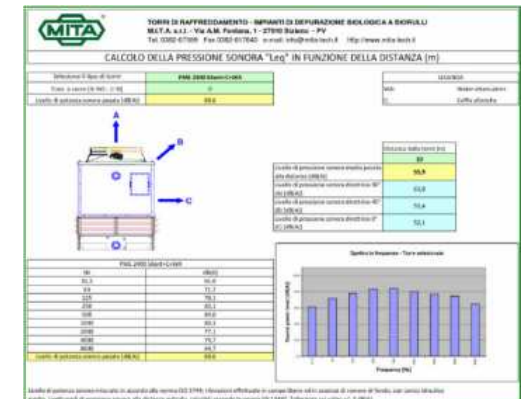
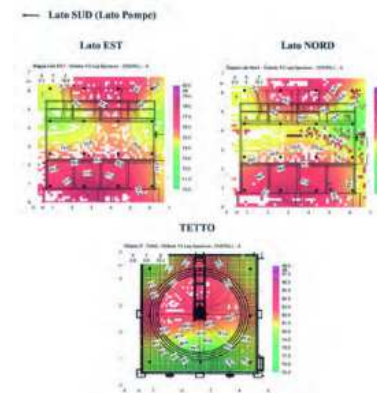


Low rpm electrical motors (with subsequent tip speed reduction of the blades).
Impellers (fans) with special blades profiles.

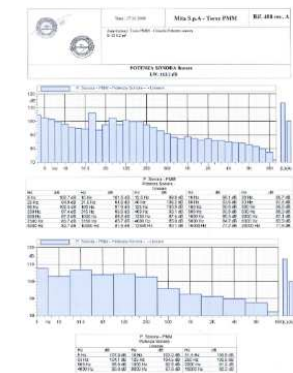
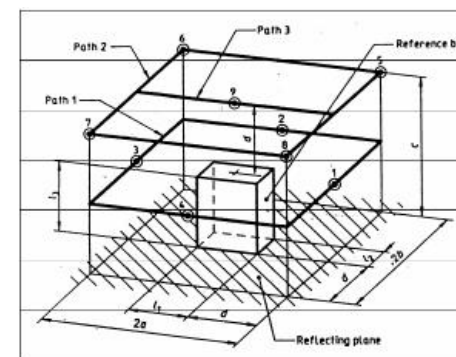


Polypropylene panels, to deaden the noise of the falling water, fixed on a suitable hot dip galvanized frame.

Air inlet silencers with soundproof material.
Stainless steel frame. Silencers made of galvanized steel sheets or stainless steel; easy to remove.



All solution are calculated in order to comply with sound restriction requirements so to address the issue with the best technical and economical combination.



LIMITED NOISE

9. CERTIFICATION:

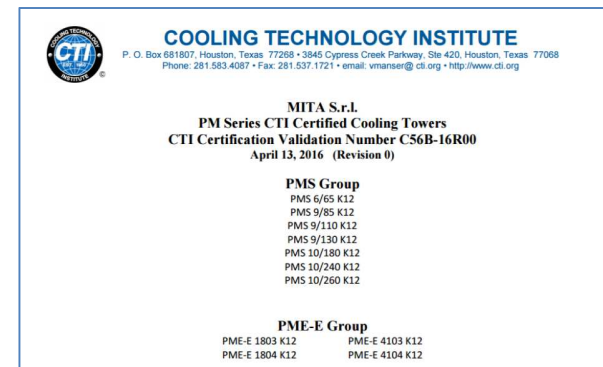
✓ EUROVENT/CTI CERTIFICATION Series PM (PMS K12, PME-E K12)
Performance certification is the basis for end-users, consultants, contractors, Manufacturers and government to ensure correct investment in quality products.



Look for the Series and the diploma number, otherwise products not certified

✓ COILS CERTIFIED according to
PRESSURE EQUIPMENT DIRECTIVE – PED 2014/68/UE (formerly 97/23/CE)

✓ QUALITY MANAGEMENT CERTIFICATION ISO 9001



RELIABILITY AND
QUALITY

KEY FEATURES

MITA COOLING TECHNOLOGIES



10. ANTI-LEGIONELLA SOLUTIONS:

- ✓ MITA follows Specific guidelines
- ✓ EUROVENT certified drift eliminators
- ✓ Corrosion free materials
- ✓ Corrosion free and basin with slope
- ✓ Easy access
- ✓ The user must maintain the c.t. clean (Eurovent 9/7 document)

**DRIFT
ELIMINATORS**
EUROVENT CERTIFIED



**AIR INLET
LOUVERS**
**Honeycomb PVC
louvers**
(OPTIONAL ITEM)
REDUCTION OF
SUNLIGHT ENTRANCE
TO LIMIT THE
GROWTH OF ALGAE
AND BACTERIA

TOTALLY REMOVABLE SIDE WALLS
TO FACILITATE THE CLEANING OF INTERNAL
COMPONENTS, OF THE CONDENSER AND THE
HEAT EXCHANGE COIL

FIBERGLASS BASIN WITH A SLOPING BASE

CONSTRUCTION MATERIAL: FIBERGLASS

- TO AVOID OXIDATION AND POROSITY (SITUATIONS WHICH SUPPLY «FOOD» FOR BIOLOGICAL GROW),
- ABSENCE OF SHARP CORNERS IN WHICH DIRT CAN ACCUMULATE,
- BASIN WITH SLOPING BASE WHICH ENABLES ITS COMPLETE EMPTYING FOR CLEANING



PAD-V model by **MITA COOLING TECHNOLOGIES**

is certified from:

Bureau de la qualité de l'air

Direction generale de la prevention des risques

Ministère de l'Écologie, du Développement durable

Rubrique 2921

in compliance with the directive to avoid the risk of aerosol



NON CORRODING
AND LONG LASTING



EASY
MAINTENANCE



RELIABILITY AND
QUALITY

KEY FEATURES

MITA COOLING TECHNOLOGIES



11. EASY TO TRANSPORT AND INSTALL:

MITA's equipment is designed:

- ✓ To fit a standard truck;
- ✓ To fit into an open top container;
(Transport dimension and weight specified on drawing)
- ✓ Fast & easy to assemble on site,
- ✓ Only 4 bolts and light to lift.
- ✓ MITA supervision is not necessary,
- ✓ Few days for installation and commissioning required.

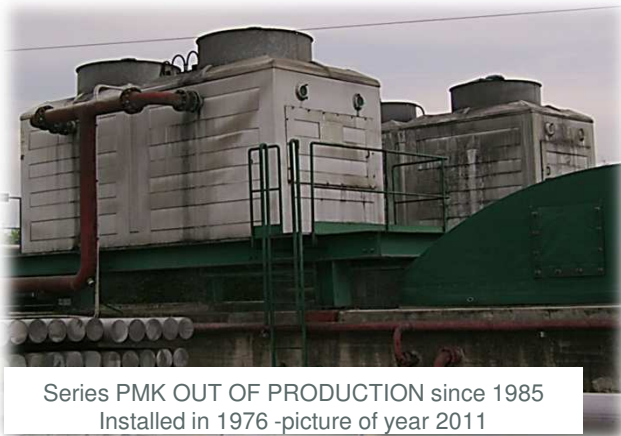


KEY FEATURES

MITA COOLING TECHNOLOGIES



12. RELIABLE



RELIABILITY AND
QUALITY

SPECIAL PRODUCTS

MITA COOLING TECHNOLOGIES



PMM series: STANDARD PROJECT / FAST INSTALLATION / FAST COMMISSIONING;



TAILOR MADE SOLUTIONS



*Open circuit cooling towers
model PME 6004 E SILENT vers. AGK
Cooling capacity 2500kW each*

PROJECT KEY POINT:

- *Easy to transport and fast to install,*
- *Modular construction,*
- *Personalization of connection to fit with other components*



SPECIAL PRODUCTS

MITA COOLING TECHNOLOGIES



TORRAVAL
cooling

Customer LUKOIL – Rumania Plant

*No. 8 units Model PU 8080
Modular Pultruded Technology
Water flow 8000 m³/h*



SPECIAL PRODUCTS

MITA COOLING TECHNOLOGIES



TORRAVAL
cooling

Customer CEPSA – Huelva, Spain

No.4 units Model OCPA 180 L

Technology: Concrete construction

Water flow 10.295 m³/h

GALLERY - INSTALLATIONS

MITA COOLING TECHNOLOGIES



GALLERY – OFFICES & FACTORY

MITA COOLING TECHNOLOGIES



GALLERY - EXHIBITS

MITA COOLING TECHNOLOGIES





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