

The logo consists of a large, stylized letter 'M' formed by two thick, curved lines. The upper part of the 'M' is dark blue, and the lower part is a dark green. The background of the logo is a solid grey.

# MASTER CHEMICAL SERVICE Srl



Master Chemical Service Srl was founded in 2003 by its current sole managing director Antonio Di Campi, with the aim of bringing to the market a serious and experienced company in the industrial chemical cleaning market.

Today, the company continues to offer innovative and quality services in both the chemical cleaning and cryogenic cleaning marketplace.



Chemical Cleaning - Cryogenic Cleaning



# THE VALUES WE SHARE WITH OUR CUSTOMERS

## TRANSPARENCY, INTEGRITY, HONESTY

We respect the highest  
ethical principles

## TRUST

We build strong and  
lasting relationships  
based on mutual esteem  
and concrete results

## INNOVATION

We work to anticipate  
needs and develop new  
processes to meet them

## QUALITY

We strive for excellence  
in all the commitments  
we make



## ORGANISATIONAL CHART



Our team is always ready to listen to the customer's needs and propose the best technical and economic solutions, which are the result of the continuous improvement of our operational procedures and intervention techniques combined with the search for innovative solutions.

*There is nothing wrong with staying small. You can do great things with a small team” (Jason Fried)*

## CHEMICAL CLEANING

► Master Chemical Service Srl has developed a significant number of chemical cleaning procedures and ensures their execution in full safety of operators and equipment. We always guarantee the effectiveness and minimal environmental impact of our activities.

► We operate in the pre-commissioning, routine and extraordinary maintenance phases, removing oily residues, corrosion products, cooling water and other deposits from process equipment without creating surface damage.





# CHEMICAL CLEANING

- ▶ Careful planning of activities with the customer allows us to minimize plant downtime and complete tasks on time.
- ▶ We perform continuous monitoring of all chemical and physical parameters during the execution of the washings.
- ▶ The method and composition of the cleaning solutions used are always carefully selected to be compatible with water treatment systems and to minimize final volume of waste and disposal costs.
- ▶ We always work with a view to reduce the impact of our activity on the environment.



# CRYOGENIC CLEANING

Since 2016, we have included cryogenic cleaning in our services as an alternative and more ecologically sustainable cleaning method.

Cryogenic cleaning uses dry ice as a cleaning medium (non-abrasive) in the form of pellets, which are accelerated to very high speeds by a flow of compressed air.

- ▶ Kinetic effect
- ▶ Thermal shock

This technology has many applications and enables the removal of grease deposits, bitumen, dust and various incrustations.

***“There must be a better way to do the things we want, a way that doesn't pollute the sky, or the rain, or the earth”  
(Paul McCartney)***



# CRYOGENIC CLEANING

- ▶ Non-abrasive method
- ▶ Does not cause corrosion
- ▶ Eco-friendly, creates no secondary waste for disposal
- ▶ Allows most equipment to be cleaned without disassembly  
*Clean-in-place.*
- ▶ Does not damage electrical or mechanical parts
- ▶ The removed product is not contaminated and can be returned to the production cycle.





## SOME OF OUR EQUIPMENT




- ▶ Pumping and re-circulation stations from 50mc/h up to 1100mc/h with spill containment sheets
- ▶ Tanks from 300l up to 4mc
- ▶ Mobile storage tanks up to 120mc
- ▶ Cryogenic blasting machines
- ▶ Air dryers up to 10000l/min
- ▶ Air compressors from 5000l/min 7bar up to 22000l/min - 20bar

## OUR SUCCESS...

### PATENTED MASTER CHEMICAL “TUBE-TO-TUBE” CONDENSERS CHEMICAL CLEANING SYSTEM

Our founder Mr. Antonio Di Campi invented and patented a technique for “tube-to-tube” chemical cleaning of condensers. The method has been successfully applied in various coal fired plants in Italy and in a nuclear power plant in Belgium.

  
*Ministero dello Sviluppo Economico*  
*Direzione generale per la lotta alla contraffazione*  
*Ufficio Italiano Brevetti e Marchi*

**ATTESTATO DI BREVETTO PER INVENZIONE INDUSTRIALE**

N. 0001392650



Il presente brevetto viene concesso per l'invenzione della domanda sotto specificata:

num. domanda	anno	C.C.I.A.A.	data pres. domanda	classifica
1231	2008	MILANO	04/07/2008	B08B9

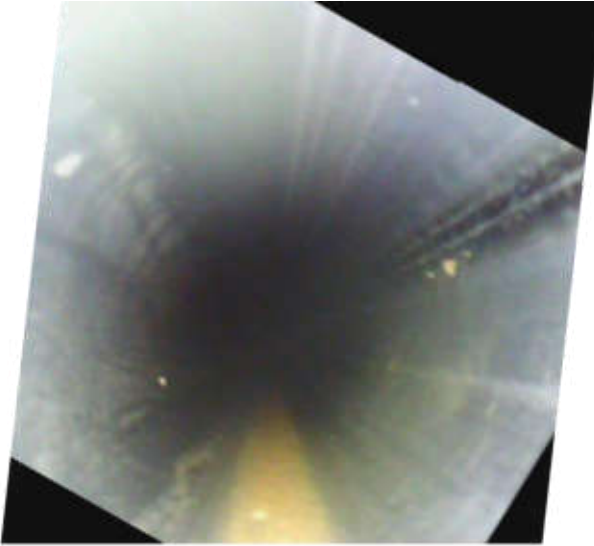
VI MASTER CHEMICAL SERVICE S.R.L.  
BRINDISI

VIO MITTLER ANDREA  
MITTLER & C. S.R.L.  
VIALE LOMBARDIA 20  
20131 MILANO

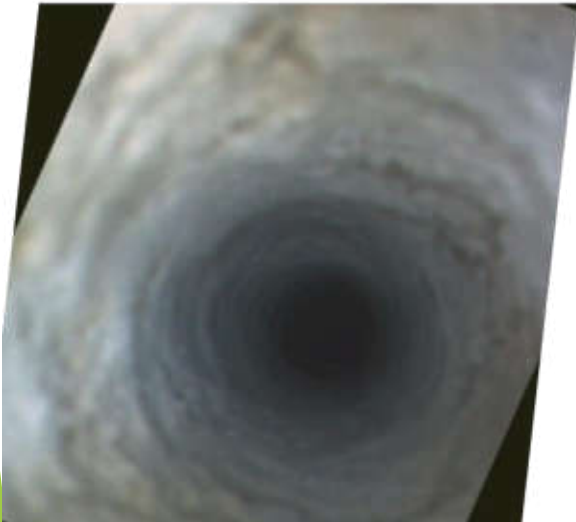
APPARATO PER LA PULIZIA DI GRANDI SCAMBIATORI DI CALORE  
DI CAMPI ANTONIO

 CAMERA DI  
COMMERCIO  
MILANO  
12 APR. 2012  
L'Ufficiale Rogante  
M. ADAMI  


# MASTER CHEMICAL “TUBE-TO-TUBE” CONDENSERS CHEMICAL CLEANING SYSTEM

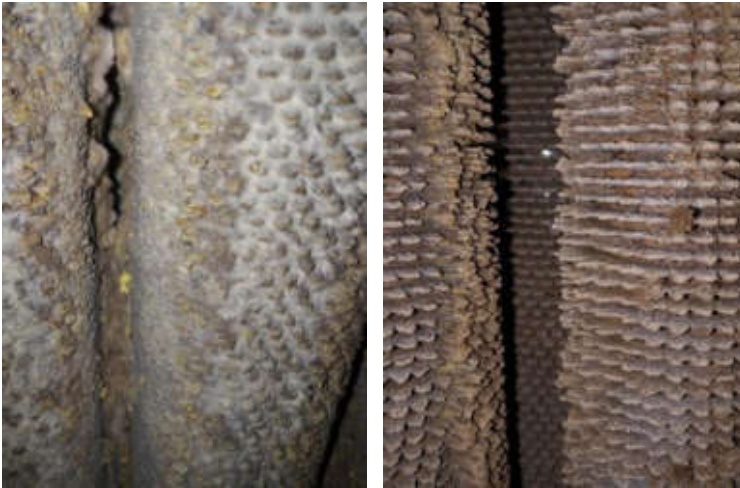


- ▶ Reduced energy and water consumption
- ▶ Calcareous scale removal
- ▶ No corrosion on the tube plate
- ▶ Reduction in wastewater volume
- ▶ Homogeneous cleaning of the tube internal surface
- ▶ Easy leak detection during the circulation in the tubes



# CRYOGENIC CLEANING

## HRSG TUBES AND AIR-COOLED CONDENSER



Cryogenic cleaning of HRSG tubes allows the removal of deposits that constitute an obstruction to the air/fume passage, resulting in a decrease in efficiency and an increase in Differential Back pressure

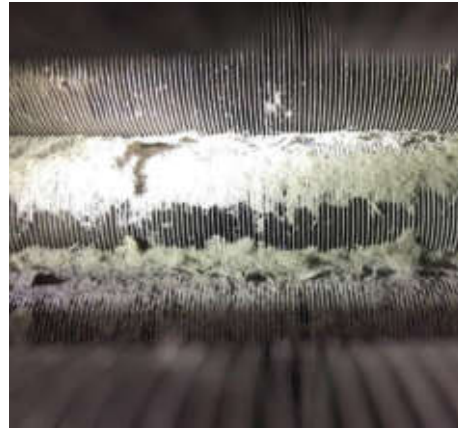
Does not create corrosion and damage on tubes and fins





# CRYOGENIC CLEANING

## HRSG TUBES AND AIR-COOLED CONDENSER



We successfully and safely apply cryogenics for tube cleaning on GVRs of power plants and for finned tube cleaning of Air-Cooled Condensers on power plants, geothermal plants and waste heat recovery plants with ORC (Organic Rankine Cycle) technology



Head quarter: Via G. Boldini n. 7 - 72100  
Brindisi (ITALIA)

Tel/Fax +39 0831 581231

Ing. Di Campi Danilo

Technical Manager

+39 347 9721804

[masterchemical@masterchemical.it](mailto:masterchemical@masterchemical.it)

[www.masterchemical.it](http://www.masterchemical.it)

