



# MSD TECHNOLOGIES

**SPAZE TECH PARK, TOWER - B, 1051 B, SECTOR-49,  
GURGAON, HARYANA, INDIA**

**[WWW.MSDTECH.IN](http://WWW.MSDTECH.IN)**

# COMPANY PROFILE

- MSD Technologies is an engineering service provider in the field of **HVAC & R, COLD CHAIN & AUTOMOTIVE AIR-CONDITIONING** Industries.
- MSD helps its customers to choose right technology to enhance their productivity and also help to minimize product cost.

## MAIN ACTIVITIES :-

- SOLUTIONS
- TRAINING
- COUNSLTING



# FOUNDER OVERVIEW

- Company founder **Ajay Mehndiratta** started **MSD Technologies** in 2002 with pioneering vision of “**Bringing Industry and Technology Together.**”
- Having 34 years of wide experience in **HVAC and R** industry.
- Started his career with **BRY-AIR (ASIA) PVT. Ltd.**, A flagship company under PAHWA group.

## EXPERIENCE REVOLVES AROUND:-

- New business development
- Business strategy
- Strategic partnerships
- International business.
- Global sourcing
- Market research
- Market management



# SOLUTIONS

## **HVAC&R PRODUCTS SOFTWARE**

- MSD team of experts aims to provide thermal design software for **HVAC& R** industry to enhance productivity and efficiency.

## **HEAT EXCHANGER MACHINERY**

- MSD helps its customer to choose right machineries for **automotive , HVAC and power industry.**

## **PRODUCT TESTING & CERTIFICATIONS**

- MSD helps manufacturers to achieve product certification of **HVAC& R PRODUCT**

## **CONSULTING**

- MSD provides consulting services in the field of Heat transfer and Air Management.



# HVAC&R SOFTWARE

- Coils
- Air handling units
- Micro channel
- Shell & tube heat exchanger
- Radiator suite
- Shark (chiller)
- Fan coil selector
- Unit selector
- Heat pipe
- EHE and many more...

- MSD TECHNOLOGIES promotes Heat Transfer software developed by UNILAB Which are widely used by many manufacturers of HVAC&R products worldwide.
- Trusted partner for many leading domestic and overseas companies & installed hundreds of these software in India, Malaysia, Middle East, Australia & North America.



# Unilab Software

## Finned Pack Heat Exchanger

- **Coils:** Verify, & Select Coils Heat Exchanger
- **Easy:** Create circuitry, Export metal sheet drawings
- **LT HT:** Simulates coils in series on air side, fed singly
- **Free cooling:** Simulating of a free cooling coil plus a condensing coil



## Chillers – Air water & water-water (Comfort & process cooling)

- **Shark:** Desktop based simulation software for air water or water-water chillers.
- **X-Shark:** Desktop based selection software for Air water or Water-water chillers.
- **X-Shark** can be developed as Online selector according to your needs



## Heat Pumps – Air Water & Water-Water

- **Heat Pumps:** Our new simulation software specially designed for heat pump manufacturers.
- **X-Shark:** Desktop based selection software for heat pumps manufactures.



## Precision Air Conditioning / Close Control Units (Water & DX)

- **Shark:** Desktop based simulation software for Precision Air Conditioning.
- **X-Shark:** Desktop based selection software for Precision Air Conditioning.
- **X-Shark** can be developed as Online selector according to your needs

## Air Conditioning for Comfort Applications

- **Shark:** Desktop based simulation software for Air Conditioners.
- **X-Shark:** Desktop based selection software for Air Conditioners.
- **X-Shark** can be developed as Online selector according to your needs

## ROOFTOP Units

- **Rooftop:** Desktop based simulation software for rooftop units.
- **X-Shark for ROOFTOP UNITS:** Desktop based selection software for Rooftop.



## Plate Heat Exchanger

- **PHE:** Desktop based software allowing the design, rating and selection of Gasketed and Brazed PHE.
- PHE Select: Desktop based commercial selector
- PHE WEB: Online selector for Gasketed and Brazed PHE.

## Shell & Tube Heat Exchangers

- **SHELL:** Desktop based design, rating, selection software for shell & Tube.
- **SHELL SELECT:** Desktop based commercial selector for shell & tube.
- **SHELL SELECT** can be developed as an online tool.

## Tube in Tube Heat Exchanger

- **TUBE IN TUBE:** Desktop based design, rating, selection software for tube in tube heat exchangers.

## Plate & Shell Heat Exchanger

- **Plate & Shell:** Desktop based design & rating software for plate & shell/Disk & Shell heat exchanger





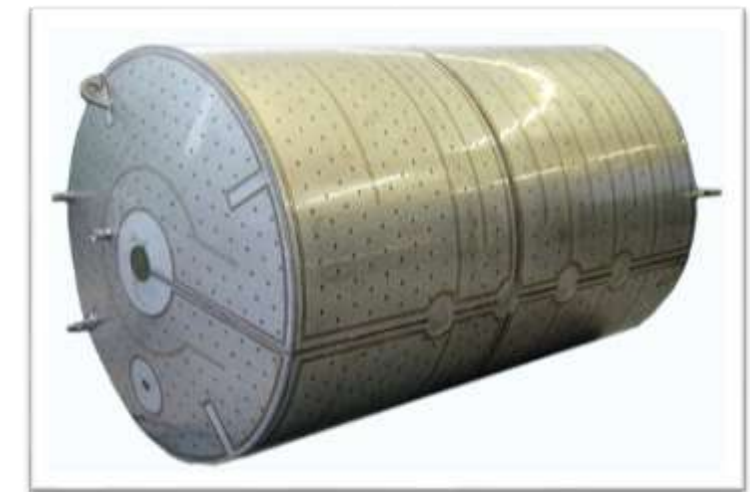
## Pillow Plate banks Or Bundles

- **PCOIL:** Design and rate Pillow plate banks according to different applications, namely energy recovery, falling film chiller, air heater & air cooler.



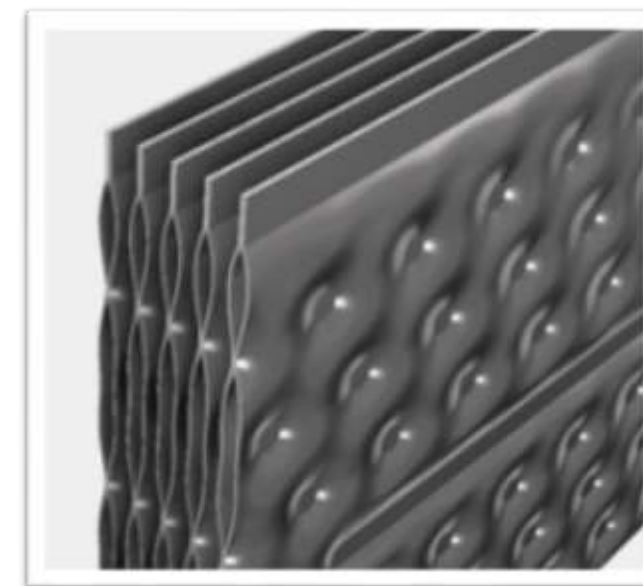
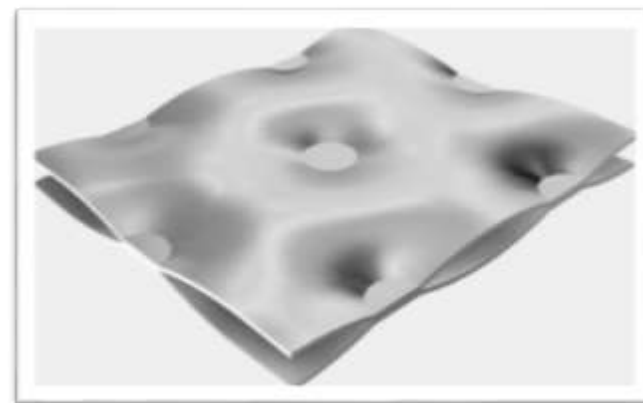
## Bulk milk cooling tanks

- **BMC:** Batch application for milk cooling, allowing the calculation of Bulk Milk Tank Coolers using the pillow plate Heat exchanger typology, in DX & Glycol.



## Pillow Plate Heat Exchanger Inside a Tank

- **PILLOW:** Batch calculation of Pillow plate heat exchangers inside a circular or rectangular tank.



## **GAS Coolers**

- **Trans critical Gas Cooler:** Trans critical Calculation of CO2 Gas Coolers.



## **Unit Cooler, Air Cooler, Dry Coolers, Remote Condenser**

- **Unit Selector Hybrid:** Desktop based selection software for ventilation Units.



## **Fan Coil Unit**

- **Fan Coil Selector:** Desktop based selection software for FCU.
- **Fan Coil WEB:** our standard online selector for FCU, which can be customized according to your needs.



## Air Handling Unit

- **Smart-Air:** Desktop based selection & quotation software for AHUs. Additional modules include Compact AHUs, Custom AHUs, and creation of the drawings to start the production design of the Unit.
- Smart Air is the best tool to certify your AHU with-

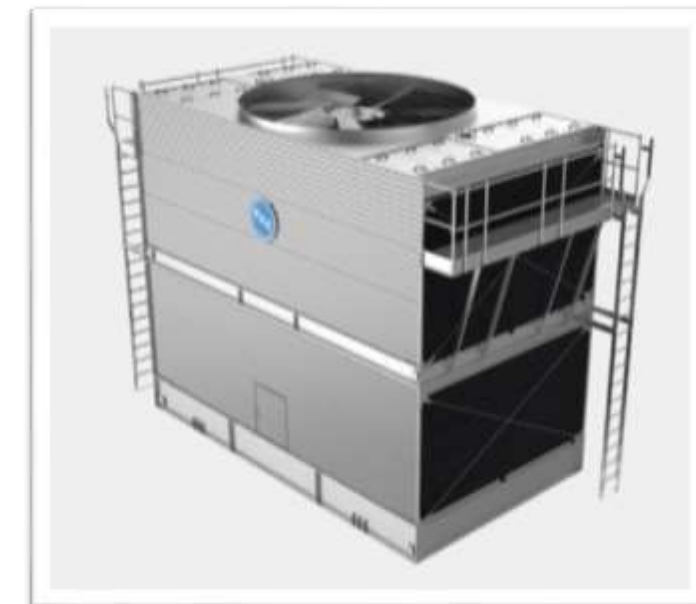


## Wrap-Around or Mono Flat heat Pipe

- **DHP:** Desktop based selection software for the selection and rating of wrap –around or monoflat dehumidifier heat pipe exchangers.

## Closed Circuit Cooling Tower

- **Tower Suite Evaporative Condenser & Evaporative Cooling:** Desktop based software allowing the rating of **evaporative condenser** and **evaporative cooling tower**.



## Microchannel Heat Exchanger

- **Microchannel:** Desktop based software allowing the rating of Microchannel condenser and Microchannel Evaporators.



## Automotive Radiators, Compact Heat Exchangers

- **Automotive Suite:** Desktop based rating software with dedicated modules for plate & bar, Single and Multiport tube radiators, Oil Coolers, Change air Coolers, Combi Coolers, Intercoolers & Brass Copper Radiators.



## Cold Room

- **Cold Storage:** Desktop based software allowing the calculation of the thermal capacity of a cold storage.





## Controlled Mechanical Ventilation (CMV)

- **BREEZE:** Online quotation of the controlled mechanical ventilation system. Possibility to create a basic quote with part list and prices, or an advanced quotation with floor plan image loading. Possibility of use by your sales network, designer, loyal customers.



## Diffuser, Grilles

- **Online Diffuser Selector:** Our specialized online software for the selection of air diffuser and grilles.



## Fire & Smokes Dampers

- **Online Fire Dampers Selector:** Our specialized online tool for the selection of fire & smoke dampers.



# CERTIFICATION

- MSD Technologies also helps its costumers to acheive product certification in accordance to the performance rating of HVAC & R products.
- These tests are done independently by third parties.

- AHRI
- EUROVENT
- INTERTEK
- AMCA
- UL



# What is Product Certification?

- **Product certification** is the process of certifying that a certain product has passed performance tests and quality assurance tests, and meets qualification criteria stipulated in contracts, regulations, or specifications

## Why Certification?

- Certification program helps you, as equipment and component manufacturers
- Sell more products
- Win bids
- Differentiate yourselves from competitors
- Comply with government requirements



# KEY CERTIFICATION PROGRAMS

- Forced circulation air Cooling & air heating coils
- Room fan- coil air conditioners
- Variable air volume terminals - fan powered, modulating diffuser, non-fan powered
- Air handling unit (AHU)
- chilled beams
- Air filter
- Variable refrigerant flow (VRF)
- axial and centrifugal fans
- Air curtains , dampers louvers & many more . . .





# CONSULTING

- MSD Technologies operates as an independent consulting organization that helps the buyer & seller in the field of heat transfer & Air Management
- Our team of expert understand first the complete concept of the buyer, then draw complete technical specification of the job & finally select the suitable companies that can fulfil these requirements.

## **MSD TECHNOLOGIES CONSULTANCY SERVICES INCLUDE:-**

- Designing of the components like that heat exchangers
- Witness testing of HVAC products as third party consultants.
- Offers a set of manual calculations.
- Preparing the reports
- New product development
- Technology upgradation
- Working on problematic areas
- International tie-ups / overseas business
- Other HVAC solutions.



# CONSULTING

- We help **Overseas manufacturers** facilitate their entry into the Indian HVAC market smoother and cost effective especially for HVAC products like **Coils, AHU, Filters, Heat Exchangers** etc.

## WE CAN ALSO SUPPORT WITH: -

- Market surveys
- Accompany their personnel for Indian market assessment
- Establishing a represented office
- Open your own office with minimum overheads
- Introduction to consultants for product approval
- Assistance in setting up distribution network
- Enable selection of trained manpower

# TRAINING MODULES

- Introduction to HVAC
- Basic of Refrigeration System
- Properties of Air and Moisture
- Heat load Calculation
- Air handling Units
- Heat Exchanger / Coil
- Fans, Motors & Drives
- Noise and Vibration
- Relevant codes and Standards
- Introduction of HVAC Software



# TRAINING FOR COIL MANUFACTURER

- Introduction to HVAC
- Properties of air and moisture
- Coil heat exchanger
- Intro to coil software





# TRAINING FOR AHU MANUFACTURER

- Introduction To HVAC
- Properties Of Air And Moisture
- Coil Heat Exchanger
- Intro To Coil Software
- Fan & Blowers
- Air Filter
- Air Handling Units
- Intro To Ahu Software



# MACHINES

- **FIN MILL**
- **CORE BUILD SYSTEM**
- **TUBE MILL**

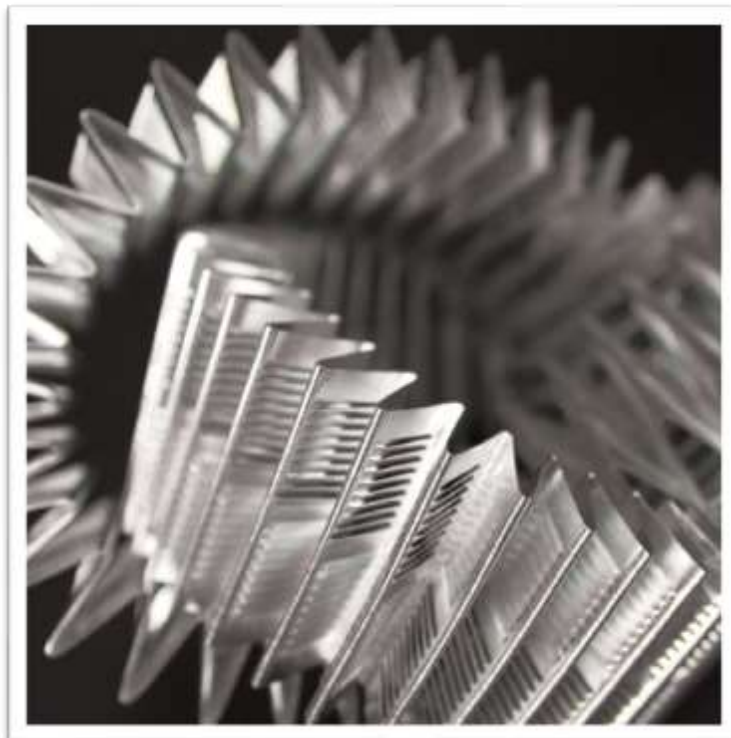


- MSD TECHNOLOGIES collaborated with M/s Schoeler GmbH, Germany to promote their machines for Automotive, HVAC & Power Industry/s Schoeler came into existence in the design and manufacture of Heat Exchanger Machinery for the automotive industry for more than 85 years.
- Scholar envisioned as the leader with world class products including core assembly machines, Evaporators, Condensers etc.



For more info you may visit [www.schoeler.de](http://www.schoeler.de)

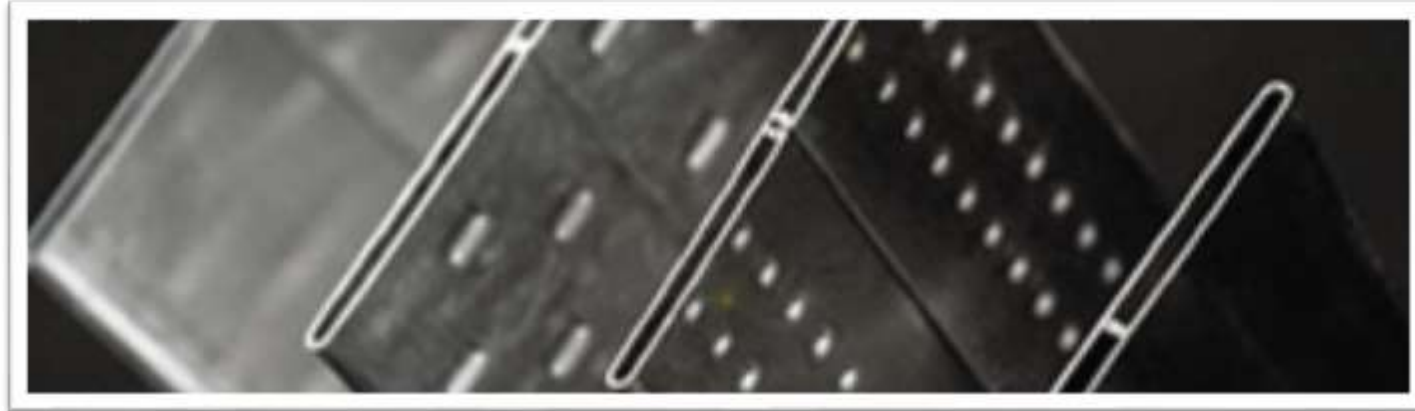
# Fin Mill



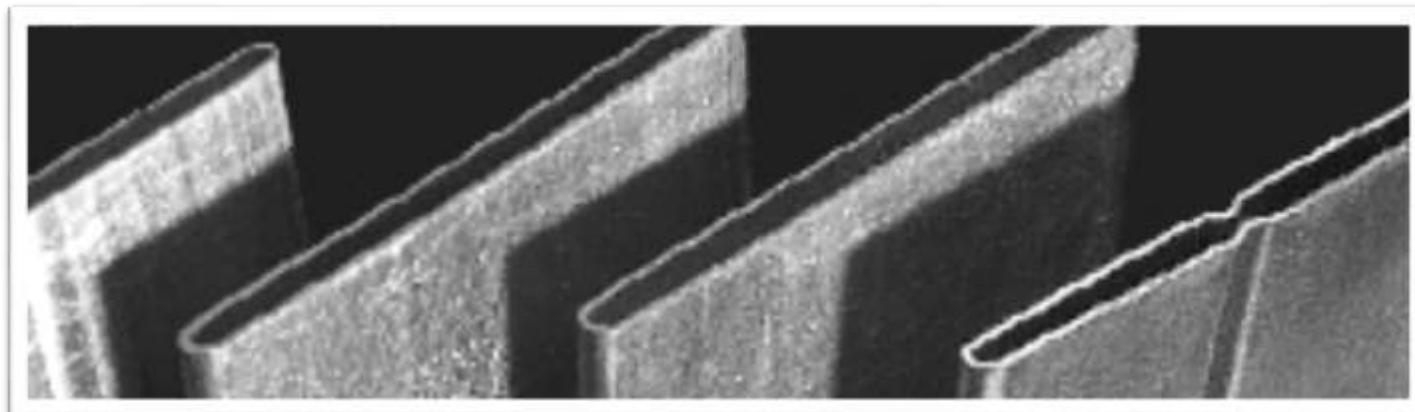


# Tube Mill

## Tube Folding Machines



## Tube welding Machines





# Core Builder System



# OUR CUSTOMERS



HYDRO



citizen industries





# OUR CUSTOMERS





**THANK YOU**

[www.msdtch.in](http://www.msdtch.in)