



RATA™

Since 1949

The Refrigeration & Air Conditioning Trades Association Ltd.
110, Unique Industrial Estate. 1 st Floor Bombay Dyeing Compound.
Off Veer Savarkar Marg, Prabhadevi . Mumbai 400 025
Tel : 022 24381140 Email : info@rataindia.com
Website : www.rataindia.com

Rata - Newsletter

15th August 2018 | Issue 56

(For Private Circulation Only)



Mr Harshal Surange
ACR PROJECT CONSULTANTS PVT LTD



Mr Pankaj Dharkar
Pankaj Dharkar & Associates
(MEP Consultants)



Mr Shubham Srivastav
Bitzer India Pvt. Ltd.



Mr Parth Vinod Thakkar
Polifrost Air-Con Pvt. Ltd.

RATA brings together 8 Industry stalwarts to help trade grow their business and have knowledge of

Coldchain 
Vyapaar



Mr. Harshal Ganjawalla
Ganjawalla Fabripro Pvt Ltd
(MGPRO)



Mr. Vijay Kumar Roy
Danfoss Cooling



Mr. Rajat Gupta
Tessol



Mr. S. Hari Nagendra Prasad
Tecumseh Products India Pvt. Ltd.



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Contents

Overview Of RATA

The Refrigeration & Air-Conditioning Trades Association Ltd. (RATA) is one of the oldest association working for the development of Air-Conditioning & Refrigeration industry in India. Established in the year 1949, the association brings together people from the entire industry and gives them a central forum to help them accomplish their common goal of making progress and achieving success.

To bring this vision to reality, RATA with its base of ethics and a strong code of conduct, actively and responsibly helps its members to grow and has also encouraged new entries for the expansion and betterment of the industry.

RATA believes in providing a platform to its members to showcase their offerings which in turn will promote internal as well as external trade. In this constantly evolving industry and changing market trends, the association contributes towards the promotion and an overall development of its members and the industry by encompassing companies and traders to organize promotional, educative and informative events.

Details of Committee Members of Year 2017-2020

Name Of Member	Name Of Company	Post
Mr. Ajit Panicker	Nova HVAC Systems (India) Pvt Ltd	Hon. President
Mr. Mihir Sanghavi	Auro Engineering Company	Hon. Secretary
Mr. Jasprit Singh	H. J. International	Hon. Jt. Secretary
Mr. Akash Varma	Ishwar Trading	Hon. Treasurer
Mr. Parasmal Sirohia	Cruise Appliances (I) Pvt Ltd	Immediate Past President
Mr. Pankaj Choria	Boulton Trading Corporation	Committee Member
Mr. Hitendra Morakia	Industrial Metals	Committee Member
Mr. Pritesh Shah	Filko Engineering Co	Committee Member
Mr. Harshal Padia	T J Controls	Committee Member
Mr. Nasir Khan	Airofrost HVAC Systems Pvt Ltd	Committee Member
Mrs Subha Prasannan	Anshutech Airconditioning Pvt Ltd	Committee Member
Mr Rajendra Joshi	Arkk Consulting	Committee Member
Mr Amod Dikshit	Dikshit Consultants & Engineers Pvt Ltd	Committee Member
Mr. Jasprit Singh Saini	Dasmesh Airconditioning Engineers Pvt. Ltd.	Action Committee
Mr Bhavesh Mehta	Mr Bhavesh Mehta	Action Committee
Mr Harshal Ganjawalla	Ganjawala Fabripro Pvt Ltd	Action Committee
Mr Parth Thakkar	Polfrost Air-Con Pvt Ltd	Action Committee
Mr Shawn Rebello	Aircare Technologies India Pvt Ltd	Action Committee

Content

04 -05 Cold Chain Vyaapar

07 Acrex Ad

Edited & Compiled: Ajit Panicker, President RATA, ap@novainitiative.com

Administrative Support : Ms Rinal Vira, info@rataindia.com

Circulation: Monthly to every member randomly every quarter to non members reaching over 5000+ small and medium enterprises in the field of airconditioning and refrigeration.

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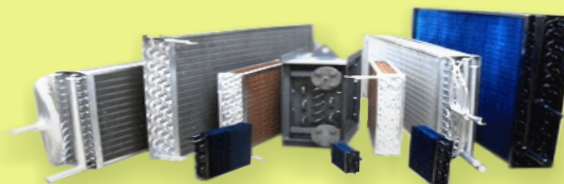
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We never compromise on quality

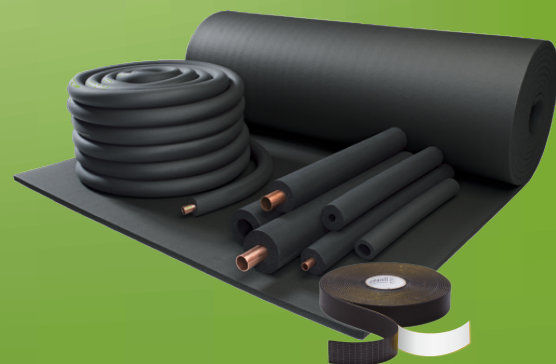


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Cold Chain Vyapaar

Date: 10th August, 2018

RATA held full day event for Cold Chain Vyapaar on 10th Aug 2018 at Hotel Mirador, Mumbai same was supported by ISHRAE / ASHRAE MUMBAI CHAPTER / HESAM / REFCOLD INDIA covering various topics by stalwarts from the industry, event was attended by more than 150 trade members from various part of Maharashtra. RATA plans to conduct Cold Chain Vyapaar across India in major cities like Ahmedabad, Hyderabad, Chennai, Bangalore etc.

Name of Speaker

Mr Harshal Surange
ACR Project Consultants Pvt Ltd

Mr Pankaj Dharkar
Pankaj Dharkar & Associates

Mr S Hari Nagendra Prasad
Tecumseh Products India Pvt Ltd

Mr Shubham Srivastav
Bitzer India Pvt Ltd

Mr Vijay Kumar Roy
Danfoss Cooling

Mr Parth Thakkar
Polifrost Air-Con Pvt Ltd

Mr Harshal Ganjawalla
Ganjawalla Fabripro Pvt Ltd (MGPRO)

Mr Rajat Gupta
Tessol

Topic Covered

Future Trends in India Cold Chain

Technologies in Cold Chain at Refcold India

Evolution of Condensint Unit & Compressor
for Refrigeration System

Speciality Negative Temperature Application

Variable Speed & Electronics in
Refrigeration & Cold Chain

Economics & Case Studies of Cold Rooms

Hospitality Refrigeration Projects & Requirements

The Next generation Cold Chain Distribution





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<https://youtu.be/FTJRq6crx6c>



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Metallised Polypropylene (MPP) motor application capacitors

Type: MPP (SH)

Range (IS 1709)	: 0.8mfd to 4mfd
Range (IS 2993)	: 4mfd to 60mfd
Range (IS 1569)	: 4mfd to 42mfd
Safety Class	: S0, S1, S2, S3
Life Rating	: <ul style="list-style-type: none">• Class A (30000hrs),• Class B (10000hrs),• Class C (3000hrs),• Class D (1000hrs)
Body Type	: <ul style="list-style-type: none">• PP (Cylindrical / Square)• Aluminium (Cylindrical)
Termination Type	: <ul style="list-style-type: none">• Pin type (L type / U type) /• Wire type (Insulated multi stranded)
Application	: <ul style="list-style-type: none">• Fan Motor• Motor RUN / START• Refrigerator• Air conditioner• Conventional lighting



WORLDTEK S3 (BURST PROOF) capacitor is an innovation in capacitor technology to Safeguard your electrical equipments and its surroundings,

A trusted name with various Original Equipment Manufacturer's now launches **S3** (Burst Proof) capacitors. An innovation towards safety. Worldtek S3 capacitor incorporates latest segmented film technology.

Capacitor is an essential part of any air conditioner, refrigerator, deep freezer, motor etc. It's a very small component but without it none of the above can start or run either. In short it's a very important part of the whole circuit. A capacitor is made up of an electrode (conductor) and a dielectric (insulator). Modern day capacitors are made up of polypropylene film (dielectric) and metal vapour sprayed over it (electrode). It is also known as metallised polypropylene capacitor or a MPP capacitor. These type of capacitors have self- healing property as a feature. This means that during a high voltage cycle or due to any spike etc. a puncture in the polypropylene (PP) film occurs but the capacitor heals on its own with some loss in its value after every self-healing (puncture).

In modern day times with increasing use of thyristorised drives in day to day lives, the electric supply that we are receiving from electricity board is increasingly having heavy harmonics leading to catastrophic failure of active components (such as capacitors) in the short circuit mode leading to fire hazard.

About metallised polypropylene capacitors, the technology has improved drastically thus leading to reliable capacitors. But still these capacitors have catastrophic failure leading to melting of dielectric & thus causing a fire hazard. If the capacitors are used in say domestic equipments like air conditioners etc. then a failure of capacitor in short circuit mode can easily lead to a fire hazard. In order to safeguard from such run away conditions in the application of the capacitors, Safe capacitors were created by using Fire Resistant Canisters (S1), Mechanized design of safe capacitors (S2), These type of capacitors use costly raw material and are not cost effective in giving protection to the application. Also these designs are not 100% safe.

New design (latest technology) capacitors use Pattern metallised Film where miniature fuses are incorporated during the metallisation process. This pattern metallised film is used in manufacture of capacitors leading to failure in open circuit only. This technology is such that one does not have to use costly raw material of S1 & S2 type capacitors & also this technology is more guaranteed to be safe than other designs.



True image of segmented film(MPP)



Pattern Film Segmented + T Margin



**Various application for
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Capacitors**



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