



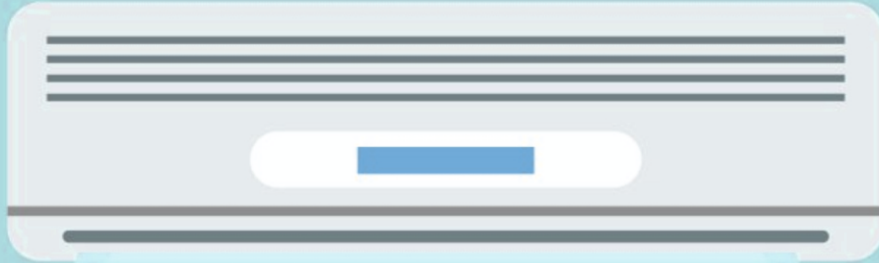
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Rata - Newsletter

15th October 2019 | **Issue 70**

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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. Pritesh Shah	Filko Enggineering 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

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05 - 07 Safety in Welding and Brazing

Edited & Compliled: 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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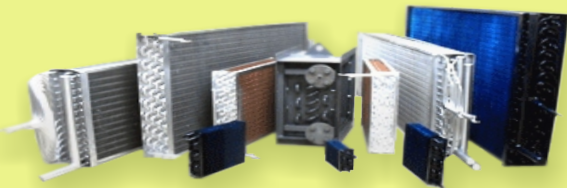
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We never compromise on quality



BEE Notification

Source: MINISTRY OF POWER NOTIFICATION New Delhi, the 29th October, 2019 S.O. 3897(E).

HIGHLIGHTS OF THE NOTIFICATION

All brands and types of star labelled room air conditioners, namely, Multi-Stage Capacity Air Conditioners, Unitary Air Conditioner and Split Air Conditioner which are rated from one star to five star, based on their relative energy efficiencies up to a rated cooling capacity of 10,465 Watts (9,000 kcal/hour) and manufactured, commercially purchased or sold in India, shall ensure default setting of temperature in the room air conditioners at twenty-four degree celsius with effect from the 1 st January 2020

रजिस्ट्री सं० डी० एल०-33004/99

REGD. NO. D. L.-33004/99



भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 3518]

नई दिल्ली, बुधवार, अक्टूबर 30, 2019/कार्तिक 8, 1941

No. 3518]

NEW DELHI, WEDNESDAY, OCTOBER 30, 2019/KARTIKA 8, 1941

विद्युत मंत्रालय

अधिसूचना

नई दिल्ली, 29 अक्टूबर, 2019

का.आ. 3897(अ).—केन्द्रीय सरकार, ऊर्जा संरक्षण अधिनियम, 2001 (2001 का 52) की धारा 14 के खंड (क) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, ऊर्जा दक्षता ब्यूरो के परामर्श से, भारत सरकार के विद्युत मंत्रालय की अधिसूचना संख्या का.आ. 2528(अ), तारीख 8 अगस्त, 2017 में निम्नलिखित संशोधन करती है, अर्थात्:—

उक्त अधिसूचना में, -

(क) पैरा 1 में, उप-पैरा (2) के पश्चात् निम्नलिखित उप-पैरा अन्तः स्थापित किया जाएगा, अर्थात्:-

"(3) सभी ब्रांड और स्टार लेबल युक्त रूम एयर कंडीशनर की किस्म अर्थात् मल्टी-स्टेज कैपेसिटी एयर कंडीशनर, एकल एयर कंडीशनर और स्प्लिट एयर कंडीशनर, जो एक स्टार से पांच स्टार तक रेटेड हैं, को उनकी सापेक्ष ऊर्जा दक्षता के आधार पर, भारत में विनिर्मित वाणिज्यिक तौर पर खरीदे या बेचे गए और 10,465 वाट्स (9,000 किलो कैलोरी/घंटा) तक की रेटेड कूलिंग क्षमता की 01 जनवरी, 2020 से चौबीस डिग्री सेल्सियस पर रूम एयर कंडीशनर में तापमान की डिफ़ॉल्ट सेटिंग सुनिश्चित करेगा।";

(ख) पैरा 3 में, -

(i) उप-पैरा (1) में, -

(i) सारणी 3.1 में क्रम सं. 5 और उससे संबंधित प्रविष्टियों के स्थान पर निम्नलिखित क्रम संख्या और प्रविष्टियों को रखा जाएगा, अर्थात्:-

"5.	1 जनवरी, 2018 से 31 दिसंबर, 2020 तक	(ड.)
6.	1 जनवरी, 2021 से 31 दिसंबर, 2023 तक	(च)";

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Safety in Welding and Brazing

Source: Sumant Mathure, Mathure Metal Works Pvt. Ltd., Thane

Continued from previous newsletter

Lighting a Gas Welding Torch

- First, purge the hoses.
- Open the valve on the acetylene cylinder – 3/4 of a turn is best, but never more than 1-1/2 turns.
- Open the acetylene torch valve 1/4 turn.
- Adjust the acetylene to working pressure (less than 15 psig or 30 psia) with the gas regulator screw.
- Close the acetylene torch valve.

Follow this procedure with oxygen cylinders and torches:

- Slowly open the oxygen cylinder valve all the way.
- Open the oxygen torch valve 1/2 turn.
- Use the gas regulator screw to adjust the oxygen to working pressure.
- Turn off the oxygen torch valve.

To light the torch:

- Reopen the acetylene torch valve 1/4 turn and light the gas with a friction lighter. Never use matches.
- Open the oxygen valve 1/4 turn and adjust the flame.

To shut off the torch:

- Close the torch valves – acetylene first, then oxygen.
- Close the cylinder valves again – acetylene first, then oxygen.
- Open both torch valves to release the pressure.
- Shut off the regulator adjusting handle until you can no longer feel any spring tension.
- Close the torch valves.

This procedure reduces the chance of leaks and possible fire:

- Leave the valve wrench on the acetylene cylinder whenever the valves are open; this permits emergency shut-off of the gas.
- Do not leave pressure in the hoses. If you must leave the area, shut off the oxygen and acetylene at the cylinder.
- Hard, sharp tools should not be used for cleaning tips, except where such tools are specifically recommended by the tip manufacturer. Use appropriate tip cleaner or softer metal wire, like brass.
- Never weld or cut on drums, tanks, barrel or any other containers until they have been thoroughly cleaned to eliminate all flammable substances. First use an appropriate cleaning agent and then water or steam.
- Check out and vent all hollow spaces before preheating, cutting or welding.
- Do not weld or cut pipes or other metals that are in contact with combustible wall, partitions, ceilings or roofs if the work is close enough to start a fire by conducting heat through the metal.

Preventing Gas Welding Flashback – Gas Explosion

Oxy-acetylene torches have been used for many years for cutting, welding, brazing, and heating of metals. The equipment used today is safe, but every year, hundreds of employees are injured or die as a result of improper use. Knowledge and precautions can prevent fires and violent explosions.

Safety in Welding and Brazing

Source: Sumant Mathure, Mathure Metal Works Pvt. Ltd., Thane

Gas pressure: One cause of fires and explosions is high acetylene pressure. When more than 15 pounds of pressure is used, acetylene becomes unstable and decomposes explosively. This is the major reason for using other fuel gases such as propylene, propane, and natural gas which may be safely used at higher operating pressures.

Burnback: If the oxygen cylinder is low or empty, reverse flow of gas may occur. The fuel gas, being at a higher pressure, can travel up the oxygen line and mix with gas in the hose, regulator and cylinder. If you light your torch without purging the lines, a burnback may occur with explosions in the hose, regulator, or cylinder.

Backfire: The same thing can happen with high oxygen pressure and low fuel gas pressure if a backfire occurs, which is usually caused by holding the cutting torch too close to the work. This causes gas starvation of the cutting flame and results in the flame being sucked into the torch head. Usually there is a popping sound that turns to a whistle when this happens.

Flashback: When a backfire takes place in a mixing chamber, unless you shut off the oxygen valve, the flame burning in the torch head may ignite gases in the hoses and result in a flashback. A flashback is an explosion that progresses through the torch, hoses, regulators, and into the cylinders. Consequence can range from a burst hose to a violent explosion of the regulator and cylinders.

There are several things you can do to help prevent flashbacks, fires and explosions:

1. If using acetylene, keep the pressure below 15 pounds.
2. Purge the hoses before lighting the torch.
3. Never light your torch with a mixture of fuel and oxygen. After purging the lines, light the torch with only the fuel gas valve open.
4. No-return valves (NRVs) should be installed on both torch inlets and operating properly. NRV can stop the reverse flow of gases, but will not prevent flashbacks.
5. To prevent flashbacks, flashback arrestors must be installed on the outlets of both regulators, and/or torch inlets.

Check the torch: How can you tell if the torch you are using has flashback arrestors and check valves? If you look at the torch, you will notice a small cylindrical valve on each inlet with the hoses screwed onto this valve instead of hooked directly to the torch. Most of these valves are combination flashback NRVs and will say so on the valve body. Often, combination valves are also installed on regulator outlets.

Before welding, take time to inspect the equipment you will be using to be sure NRVs and flashback arrestors have been installed. This precaution can prevent a deadly cylinder explosion.

Brazing/ Soldering Alloys

Alloys containing cadmium, nickel, arsenic, lead, etc. are potentially dangerous as these elements are health hazards. Proper MSDS of these metals and flux chemicals are necessary to understand the measures of prevention in case of accidents.

Managing Risks – Employer's Responsibilities

Employers in the Commonwealth countries have a statutory obligation to protect employee health and safety. The Occupational Health and Safety (Commonwealth Employment) Act 1991 [OHS(CE)] Act states that an employer must take all reasonably practicable steps to protect the health and safety of employees. The Occupational Health and Safety (Commonwealth Employment) (National Standard) Regulations 1994 [OHS(CE)(NS) regulations] complement the OHS(CE) Act by stating that an employer must ensure that appropriate steps are taken to identify all reasonable foreseeable hazards arising from work which may affect the health or safety of employees or other persons. If a hazard is identified, the employer must ensure that an assessment of the risk is made and a control measure is implemented.

Safety in Welding and Brazing

Source: Sumant Mathure, Mathure Metal Works Pvt. Ltd., Thane

Employee's Responsibilities

The OHS(CE) Act requires employees, while at work, to:

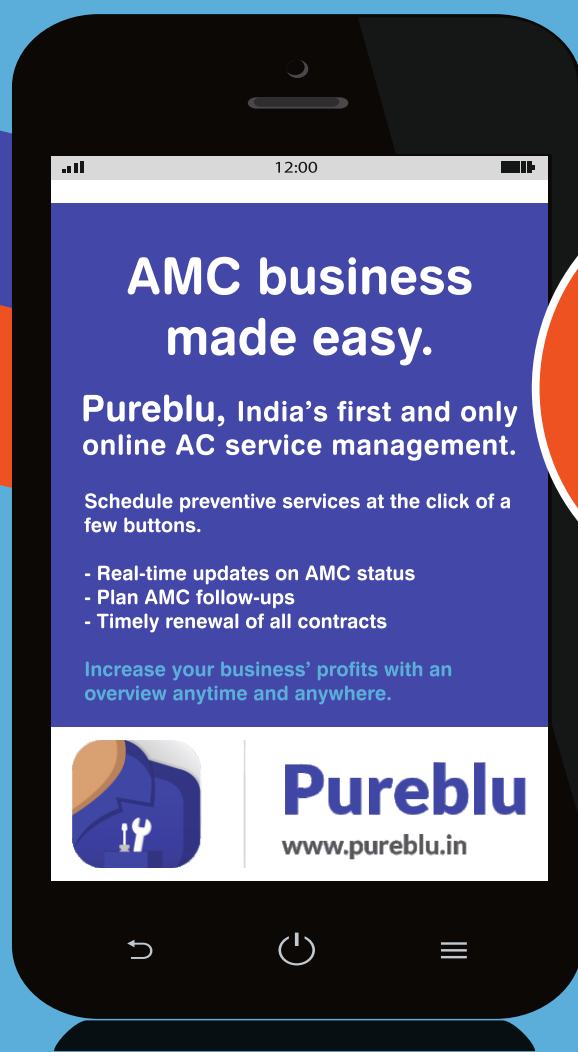
- Take all reasonably practicable steps to not take any action, or make any omission, that creates or increases a risk to their or others' health and safety.
- Cooperate with the employer to the extent necessary to enable the employer and other persons to fulfil the duties and obligations imposed on them.
- Use equipment supplied by the employer in accordance with any instructions given by the employer consistent with its safe and proper use. This is of particular importance in welding activities, as the use of PPE is essential in such activities.

References

Health and Safety in Welding and Allied Processes, fifth edition, edited by N. C. Balchin and Jane Blunt. ISBN 1 85573 538 5. £95/ US\$155/ Euro135.

The Facts About Fume, second edition, edited by N. Jenkins. ISBN 0 85300 167 7. £15/ US\$25/ Euro20

Safety Instruction Booklets: All these titles are produced in the same paperback format, 185x85mm, and are copiously illustrated with line drawings.



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