



SARACCA

Quality and Compliance In Solidarity

Frigair 4 to 6 June 2025

Presenter: DS Botha



Who is SARACCA

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Quality and Compliance In Solidarity

The Association represents the interests of Air Conditioning, Refrigeration, Ventilation contractors and duct manufacturers.

SARACCA is recognised by the employers, contractors' organisations and professions in the construction industry.



HIGHER FLAMMABILITY	A3 R-50, R-170, R-290, R-600a, R-441a, R-1270	B3 R-1140
LOWER FLAMMABILITY	A2 R-142b, R-152a	B2 R-30, R-40, R-611, R-717
	A2L HFO-1234yf, HFO-1234ze	
NO FLAME PROPAGATION	A1 R-11–R-14, R-22, R-113, R-114, R-115, R-134a, R-410A, R-449B, R-1234zd	B1 R-10, R-21, R-123, R-764
	LOWER TOXICITY	HIGHER TOXICITY



TYPE OF APPLICATIONS OUR ASSOCIATIONS COVER



Domestic



Commercial



Industrial



Pharmaceutical



In short, anywhere refrigerant is used to cool, freeze, or heat the environment or products.



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- **Category 'A' practitioner**
- **Category 'B' practitioner**
- **Category 'C' practitioner**



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CATEGORY 'A' PRACTITIONERS

1. Refrigeration plant Operator

“The card holder is authorised to operate a refrigeration plant and is aware of safety regulations and requirements.”

2. Domestic and light commercial Refrigeration Practitioner – Up to 10Kw

“The card holder is authorised to install and maintain domestic (R290 & R600a) and light commercial refrigeration.”



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CATEGORY 'A' PRACTITIONERS

3. Refrigeration Installer/Fitter

“The card holder is authorised to install of refrigeration piping, components and equipment.”

4. Unitary Air Conditioning Unit Installer

“The card holder is authorised to install and maintain room air conditioning units up to 18kW cooling capacity.”

5. Air Conditioning & Refrigeration Apprentice/Learner

“The card holder is an authorised air conditioning & refrigeration Apprentice/Learner.”



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CATEGORY 'B' PRACTITIONERS

6. Air Conditioning & Refrigeration Practitioner

“The card holder is an authorised as a refrigeration Practitioner using Synthetic F-gases and Hydrocarbon refrigerant gas.”

They must have completed an apprenticeship in refrigeration or electrical trades and are registered as artisans.



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CATEGORY 'B' PRACTITIONERS

7. Carbon Dioxide Refrigeration Practitioner

'The card holder is authorised as a specialist Carbon Dioxide (R744) refrigeration practitioner.

They must have...

Completed an apprenticeship in refrigeration or electrical trades and,
Be registered as artisans and who have had training in the safe handling of refrigerants and,

Have been assessed as competent after specific Carbon Dioxide refrigeration training.

Proven experience in Carbon Dioxide refrigeration is a requirement.



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CATEGORY 'B' PRACTITIONERS

8. Ammonia Refrigeration Practitioner

“The card holder is authorised as a specialist Ammonia (R717) refrigeration practitioner.”

They must...

- Have completed an apprenticeship in refrigeration or electrical trades and
- Be registered as artisans and who have had training in the safe handling of refrigerants and
- Have been assessed as competent after specific Ammonia refrigeration training.
- Proven experience in Ammonia refrigeration is a requirement.



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CATEGORY 'B' PRACTITIONERS

9. Car Air Conditioning Practitioner

“The card holder is authorised as a specialist motor vehicle air conditioning practitioner.”

- All motor vehicle air conditioning for cars, buses, and vehicle cabs are covered by this category.
- Those who register here may be motor mechanics, auto electricians and diesel mechanics that have completed the vehicle air conditioning and safe handling of refrigerants training.
- The Practitioner is required to sign and issue a Certificate of Conformity after installation, maintenance and/or repairs.



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CATEGORY 'B' PRACTITIONERS

10. Refrigerated Transport Practitioner

“The card holder is authorised as a specialist refrigerated transport practitioner.”

Those who register for refrigerated transport vehicles and containers here may be refrigeration mechanics, motor mechanics, auto electricians and diesel mechanics that have completed the vehicle refrigeration and safe handling of refrigerants training



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CATEGORY 'B' PRACTITIONERS

11. Marine Refrigeration Practitioner

“The card holder is authorised as a specialist marine refrigeration practitioner on all types of refrigerant gases

- The refrigeration on fishing boats and ships and refrigerated container carriers is covered in this category.
- Those who register here must be refrigeration mechanics electricians and millwrights who have trained in the marine environment
- Knowledge in all types systems and refrigerants used on fishing boats and ships.



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CATEGORY 'C' PRACTITIONERS

12. Inspector – Refrigeration installations

“The card holder is an authorised Inspector of refrigeration installations.”

13. Inspector – Refrigeration associated with Air Conditioning

“The card holder is an authorised Inspector of refrigeration associated with air conditioning installations.”

14. Designer – Refrigeration and Air Conditioning

“The card holder is an authorised Designer of refrigeration and air conditioning installations.”

COCs Issued per Province & Active Practitioners

	1 August to 31 October 2024		01 Nov 2024 - 31 Jan 2025		01 Feb 2025 - 31 March 2025	
Province	COC	ACTIVE	COC	ACTIVE	COC	ACTIVE
Western Cape	733	965	682	992	642	979
Northern Cape	46	211	80	180	36	172
Northwest	189	132	221	125	168	124
Mpumalanga	185	139	71	153	31	144
Limpopo	52	100	68	99	63	33
Kwa-Zulu Natal	309	545	134	539	94	474
Gauteng	606	1493	245	1490	264	1467
Free State	393	130	453	137	257	145
Eastern Cape	59	137	191	138	167	154
Namibia	2	0	0	0	0	0
Totals	2574	3852	2145	3853	1723	3692

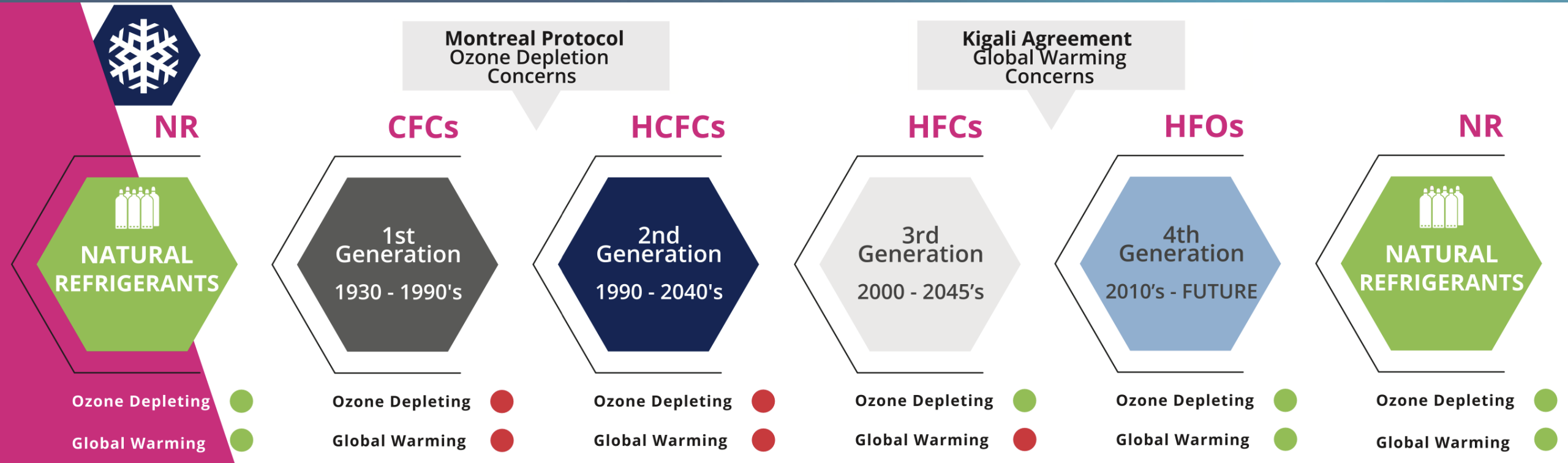


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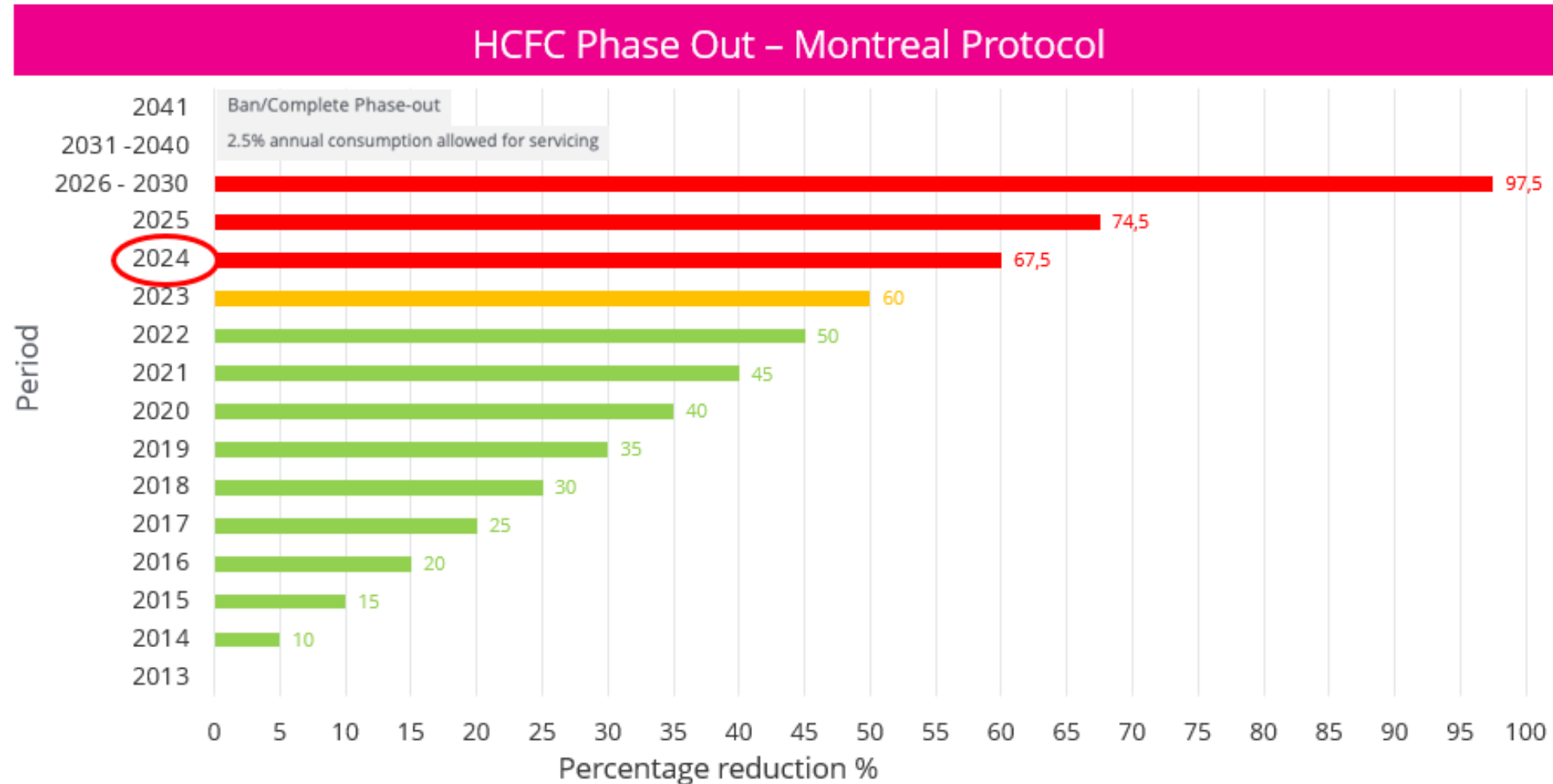
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Refrigerant Regulations

Regulation drives our industry



HCFC Phase out timeline





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The transition from R22 to a more sustainable refrigerant is crucial for regulatory compliance, environmental responsibility, and long-term economic benefits. Proper planning and execution will ensure a seamless transition

Question: Have you done our part and are you ready for the phase out of R22?

Average Price	2023	2024	2025	2026	2027	
R22 13 Kg Disposable	R1470	R1861	R2457	X2	X6	



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REFRIGERANT Reclamation

Refrigerant reclamation is the processing of used refrigerant gas which have previously been used in some type of refrigeration loop such that it meets specifications for new refrigerant gas.



Where do we find Refrigerants and how should they be managed?

Refrigerants are found in homes, offices, and factories pre-charged in equipment such as refrigerators, air conditioners, central air conditioning systems (HVAC), freezers, de-humidifiers e.t.c. When these units are serviced, there is a risk of refrigerant gas being vented into the atmosphere, hence the recovery of refrigerant during servicing and maintenance of equipment and reclamation is crucial in order to ensure that the gas is conserved and managed safely. Mishandling of these gases depletes the ozone layer and also contribute to global warming.

Venting of refrigerant gas

Venting of the gas during the servicing and maintenance of the equipment is prohibited under the Regulations. Regarding the control and management of Ozone Depleting Substances of 08 May 2014, offenders will be prosecuted.

Benefits of refrigerant reclamation

- Saves money- used refrigerant can be recovered and reclaimed to remove oil residues, high boiling residues, acids, particles, moisture and to distill the gas back to ARI-standards. This eventually reduce the demand for virgin refrigerant gas.
- Saves the environment- proper recovering the gas from the system ensures that gas is not released to the atmosphere thereby resulting in ozone depletion and global warming.

Did you know?

- Servicing technicians should be trained and authorized to work on a refrigeration and air-conditioning system.
- The Department of Environmental Forestry and Fisheries assist unregistered servicing technicians with trainings and awareness workshop at no cost.

There are several reclamation centres with in the country where technicians should recovered gas for reclamation.

Venting of refrigerant gas can result in 10 years of prison or a fine of 10 000 000, or both fine and imprisonment.



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Did you Know?



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Want to know more or become a member talk
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Thank You