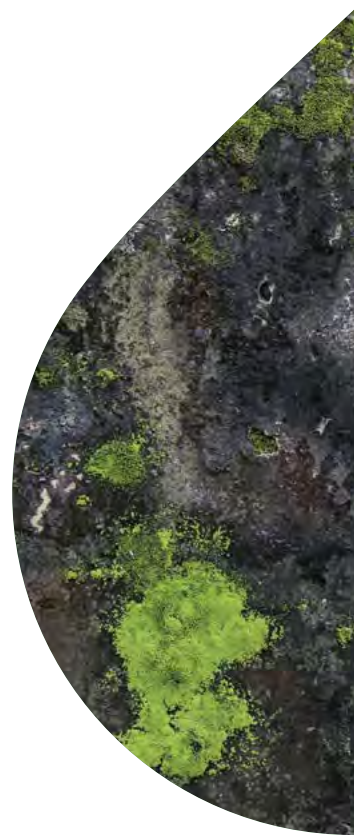




Capability Statement

Industrial Water Cooling | IWC

December 2023



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Industrial Water Cooling (IWC) was founded in 1986 and is a specialist South African based EPC company. IWC has been a member of the Cooling Technology Institute (CTI) for many years and our core offering includes cooling towers, heat exchangers, and chillers.

IWC offers thermal solutions to the following industries:

- Power Generation
- Mining
- Petrochemical
- Sugar
- Steel & Aluminium
- Food & Beverage
- HVAC and Refrigeration



Capabilities

IWC provides the following expertise:



Design and engineer to all internationally recognized standards, specifications and codes



Manufacture



Installation



Maintenance

Engineering and Project Management Services:

- Technical assistance to designers and engineers
- Detailed project engineering and project management
- Thermal design of cooling towers and air-cooled heat exchangers
- Mechanical design
- Electrical & Control
- Civil & Structural
- Hydraulic flow calculations and flow simulations/modelling
- Finite Element Analysis
- Stress Analysis (Piping)
- 3D modelling & detailing of plants, equipment and piping isometrics
- EPC Projects (up to US\$ 25 million)

Products and Services

Products:

- Package cooling towers under the IWC brand name (IWC EWK range, IWC FM range and IWC FGS range)
- Large field erected mechanical draught cooling towers of all types and materials of construction
- Air Cooled Condensers and Hybrid Coolers
- Water treatment equipment - filters and dosing equipment
- Spares and accessories for all makes of cooling towers
- Heat Exchangers and spares
- Chillers
- Bulk Air Coolers

Services:

- Construction management and supervision
- Erection of plant and equipment
- Refurbishment and upgrading of cooling towers and cooling systems
- Concrete / Structural repairs
- Commissioning and acceptance testing
- Testing and thermal evaluations (Cooling Towers) and ACC's
- Waste disposal; including Asbestos Containing Materials (ACM's)
- Complete demolition and installation services
- Access and maintenance platforms to suit local standards and specifications.

Geographic Regions

IWC has delivered projects located in the following regions:



Some of our notable key clients



Some of our notable key clients (continued)



International Representatives

IWC Australasia Australia



Unit 2
28 Baile Road
Canning Vale
Perth

Tel. +61 8 9455 4343

www.iwcaustralasia.com.au

India AS Cooling Technologies



Kochar Bliss, 4th floor, A8 & A9
Thiru Vi Ka Industrial Estate
Guindy, Chennai – 600 032
TamilNadu

Tel. +91 44 6162 6106

www.as-cti.com

B-322 & B-323
Ansal Chambers 1
Bhikaji Cama Place
New Delhi – 110066

Tel. +91 11 4263 1412

Company Information and Certification

B-BBEE	Level 3
CIDB	8ME
Company Registration	1986/000115/07
Vat number	4210112092
Certification	ISO 9001:2015 (ISOQAR) OHSAS 18001:2007 (ISOQAR)
Software	AutoCAD, AutoCAD Plant 3d AFT Phantom MS Office MS Projects Primavera P6 Tekla

Business Address	55 Lake road, Longmeadow Business Estate North, Edenvale, 1609 South Africa
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Postal Address	PO Box 1112, Isando, 1609 South Africa
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Contact	Tel. +27 11 466 0699 www.iwc.co.za
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Certificate of Registration

This is to certify that the Management System of:

Industrial Water Cooling and Tektower (Pty) Ltd

55 Lake Road Longmeadow, Business Estate North, Edenvale, South Africa.

has been approved by Alcumus ISOQAR and is compliant with the requirements of:

ISO 9001:2015



Certificate Number:	8034-Q15-001
Initial Registration Date:	12 September 2011
Previous Expiry Date:	12 September 2023
Recertification Date:	14-16 August 2023
Re-issue Date:	31 August 2023
Current Expiry Date:	12 September 2026

Scope of Registration:

The Registration covers the Quality Management System for the design, manufacturing, construction, refurbishment, sub-contractor management, installation of cooling system, plant and ancillary items and GRP solutions.

Signed:
Alyn Franklin, Chief Executive Officer
(on behalf of Alcumus ISOQAR)



This certificate will remain current subject to the company maintaining its system to the required standard. This will be monitored regularly by Alcumus ISOQAR. Further clarification regarding the scope of this certificate and the applicability of the relevant standards' requirement may be obtained by consulting Alcumus ISOQAR.



Alcumus ISOQAR Limited, Alcumus Certification, Cobra Court, 1 Blackmore Road, Stretford, Manchester M32 0QY.
T: 0161 865 3699 **F:** 0161 865 3685 **E:** isoqarenquiries@alcumusgroup.com **W:** www.alcumusgroup.com/isoqar
This certificate is the property of Alcumus ISOQAR and must be returned on request.

Certificate of Registration

This is to certify that the Management System of:

Industrial Water Cooling and Tektower (Pty) Ltd

55 Lake Road Longmeadow, Business Estate North, Edenvale, South Africa.

has been approved by Alcumus ISOQAR and is compliant with the requirements of:

ISO 45001:2018



Certificate Number:	8034-OHS-001
Initial Registration Date:	12 September 2011
Previous Expiry Date:	12 September 2023
Recertification Date:	14-16 August 2023
Re-issue Date:	31 August 2023
Current Expiry Date:	12 September 2026

Scope of Registration:

The Registration covers the Safety and Health Management System for the design, manufacturing, construction, refurbishment, sub-contractor management, installation of cooling system, plant and ancillary items and GRP solutions.

Signed:
Alyn Franklin, Chief Executive Officer
(on behalf of Alcumus ISOQAR)



This certificate will remain current subject to the company maintaining its system to the required standard. This will be monitored regularly by Alcumus ISOQAR. Further clarification regarding the scope of this certificate and the applicability of the relevant standards' requirement may be obtained by consulting Alcumus ISOQAR.



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Project References



Field Erected Cooling Towers

Kagera Sugar

Location	Tanzania
Tower type	Fibreglass Induced draft Cell size 7.3m x 7.3m
Duty	45MW
Number of cells	4 Individual
Completed	2021

Sappi Saiccor

Location	South Africa
Tower type	Concrete Induced draft Counter flow Cell size 11.9m x 10.3m
Duty	12.4MW
Number of cells	1
Completed	2020

Sappi Ngodwana

Location	South Africa
Tower type	Fibreglass Induced draft Counter flow Cell size 8.1m x 7.4m
Duty	75.0MW
Number of cells	3
Completed	2019

Kagera Sugar

Location	Tanzania
Tower type	Fibreglass Induced draft Counter flow Cell size 6.3 x 6.15m
Duty	37.7MW
Number of cells	4
Completed	2019

Eskom (Kusile)

Location	South Africa
Tower type	Concrete Induced draft Counter flow Cell size 14.7m x 14.7m
Duty	183.4MW
Number of cells	2 x 4
Completed	2016

Sunbird formerly Addax Bioenergy

Location	Sierra Leone
Tower type	Fibreglass Induced draft Counter flow Cell size 14.6m x 14.6m
Duty	134.3MW
Number of cells	4
Completed	2016

Eskom (Medupi)

Location	South Africa
Tower type	Concrete Induced draft Counter flow Cell size 14.7m x 14.7m
Duty	183.4MW
Number of cells	2 x 4
Completed	2014

CTDS Sugar Refinery

Location	Mauritius
Tower type	Concrete Induced draft Counter flow Cell size 12.5m x 12.5m
Duty	59.75MW
Number of cells	2
Completed	2012

BBE (Subika Mine)

Location	Ghana
Tower type	Fibreglass Induced draft Counter flow Cell size 7.3m x 7.3m
Duty	9.1MW
Number of cells	3 x 2 tower units
Completed	2017, 2019, 2022

Pueblo Viejo / SENET / Barrick Gold

Location	Dominican Republic
Tower type	Fibreglass induced draft counter flow cooling tower Cell size 9.15m x 12.8m
Duty	73.64MW
Number of cells	4
Completed	2022

HATCH (Zimplats)

Location	Zimbabwe
Tower type	Concrete Induced draft, counter flow Cell size 2 off 12.2 x 13.6m & 3 off 8.6 x 8.6m
Duty	69.11 and 66.2 MW
Number of cells	2 and 3 total of 5
Expected completion	2024

BBE Loula Mine

Location	Mali
Tower type	Mechanical draught, counterflow FRP tower
Duty	9.8 MW
Number of cells	2
Completed	2023

Lycopodium

Location	Senegal
Tower type	Mechanical draught, counterflow FRP tower
Duty	15.75MW
Number of cells	4
Expected completion	2024

Pueblo Viejo / SENET / Barrick Gold

Location	Dominican Republic
Tower type	Duplex Stainless Steel Forced draft octagonal cooling tower Cell size 53m
Duty	Varied
Number of cells	8
Completed	2022

Sibanye Stilwater (Gold)

Location	South Africa
Tower type	Pultruded GRP Induced draft Counter flow Cell size 11.1 x 11.1m
Duty	12.4MW
Number of cells	2
Completed	Expected completion date 2023

Kansanshi Mine FQML

Location	Zambia
Tower type	Mechanical draught, counterflow FRP tower
Duty	14.52 MW
Number of cells	1
Expected completion	2024

Howden Brazil No 1

Location	Brazil
Tower type	Fibreglass induced draft counter flow Bulk Air Cooler (BAC) Cell size 5.2m x 4.6m
Duty	6.2MW
Number of cells	2
Completed	2022

Howden Brazil No 2

Location	Brazil
Tower type	Fibreglass induced draft counter flow Bulk Air Cooler (BAC) Cell size 6.3m x 5.4m
Duty	9.3MW
Number of cells	2
Completed	2022

Kagera Sugar

Location	Tanzania
Tower type	Mechanical draught, counterflow FRP tower
Duty	60.52 MW
Number of cells	5
Expected completion	2024/25

Natural Draft Cooling Towers

Sasol Secunda Unit 45, tower A

Location	South Africa
Project description	New splash grid fills New FRP wind baffle walls
Number of towers	1
Completed	2023

Sasol Secunda Unit 45, tower B

Location	South Africa
Project description	New splash grid fills New FRP wind baffle walls Basin cleaning
Number of towers	1
Completed	2020

Eskom (Tutuka Tower 5)

Location	South Africa
Project description	Cleaning & repairs
Number of towers	1
Completed	2014

Sasol (Secunda Utility CT)

Location	South Africa
Project description	Distribution Fill Walkways
Number of towers	4
Completed	2011 - 2013

Sasol Secunda Unit 245, tower B

Location	South Africa
Project description	New splash grid fills New FRP wind baffle walls Civil repairs
Number of towers	1
Completed	2022

Eskom (Arnot)

Location	South Africa
Project description	New splash grid fills Basin & internal cleaning FRP ladders & walkways Asbestos removal
Number of towers	1
Completed	2022

Eskom (Camden PS)

Location	South Africa
Project description	New PVC drift eliminators
Number of towers	6
Completed	2013/2014

Eskom Matla PS

Location	South Africa
Project description	New trickle grid fill New FRP fill supports Basin cleaning Ducts and distribution pipe cleaning Asbestos fill removal
Number of towers	3
Completed	2022 & 2023

Sasol Secunda Unit 245, tower A

Location	South Africa
Project description	New splash grid fills New FRP wind baffle walls Civil repairs
Number of towers	1
Completed	2021

Eskom Matla Twr 1/2/3)

Location	South Africa
Project description	Cleaning & repairs
Number of towers	3
Completed	2016/2017

Yallourn Power Station

Location	Australia
Project description	Fill Drift eliminators Distribution New FRP access walkways Asbestos removal
Number of towers	1
Completed	2011

Eskom Kriel PS

Location	South Africa
Project description	New trickle grid fill New FRP fill supports Basin cleaning Ducts and distribution pipe cleaning Asbestos fill removal
Number of towers	2
Completed	2023



Industrial Water Cooling (Pty) Ltd

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