

Phirex Australia



Company Profile
July 2006

Introduction

- Invention Technologies Pty Ltd trading as Phirex Australia was incorporated in Perth, Western Australia in January 1993
- The company is located in Osborne Park, the industrial hub North of Perth
- The primary business activity of the company is to manufacture and supply environmentally safe fire protection goods and services
- Phirex Australia is a 100% fully owned Australian corporation
- The company has invented and designed the Mistex® & Fogex® Water Mist Fire Protection Systems
- The company offers project design, supply, installation, commissioning and service of its Mistex® & Fogex® Water Mist Fire Protection Technologies world wide
- Phirex Australia is an ISO9001, JAS-ANZ, AS9001, NZS9001 certificated company to ISO:2000 Systems and EC Council Directives Quality Accreditations EC/96/98 and MED-B & MED-D QS Systems
- Phirex Australia are pioneers and experts on water mist fire protection systems spanning over a decade
- Phirex Australia has pride in its goods and services and always strives for customer satisfaction in accordance with its management philosophies and Quality Assurance Procedures

Quality Assurance

- Phirex Australia is a quality assured company to ISO9001, JAS-ANZ, AS9001, NZS9001 and EC Council Directives 96/98/EC accreditation systems.
- Phirex Australia is committed to a quality management system whereby:
 - ◆ The company strives for continuous product improvement by fostering and encouraging technological innovation.
 - ◆ The company aims for product reliability through design, manufacturing, delivery, installation, service and testing
 - ◆ The company uses the most latest and up to date technologies for manufacturing, assembling and testing of integral system components
 - ◆ The company strives to meet and exceed its customer's expectations
 - ◆ Company management strives for product excellence and competitiveness
 - ◆ Company management encourages harmonious work practice relations
 - ◆ All appointed agents are trained to properly design, manufacture and service the company's range of technologies in accordance with quality objectives
 - ◆ Approved suppliers and sub-contractors are pre-selected in accordance with the company's defined quality assurance procedures

Quality Objectives

- The Quality Objectives of Phirex Australia are as follows:
 - ◆ Continually seek innovative technological ideas and improve on quality of its goods and services
 - ◆ Develop and promote the company and its goods and services by team work, proper communication skills, best work practices and improved planning
 - ◆ Maintain safe work practices
 - ◆ Maximize the company's human and technological resources
 - ◆ Seek the most cost effective and most up to date manufacturing processes and procedures
 - ◆ Explore new markets and ideas
 - ◆ Maintain adequate management training
 - ◆ Implement an effective recruitment policy
 - ◆ Identify and define responsibilities and duties
 - ◆ Undertake technological innovation by using scientific and statistical methods
 - ◆ Ensure proper document traceability
 - ◆ Develop a clear customer focus and orientation

Technology

- Phirex Australia have invented and developed the Mistex & Fogex Water Mist Fire Protection Systems as alternatives to Halon's and BCF's and to replace conventional water sprinkler systems
- Mistex & Fogex utilize atomized water mist droplets to extinguish fires in fire hazard areas
- Mistex & Fogex are trade marks belonging to Phirex Australia
- Mistex & Fogex technologies are internationally patented in 48 industrialized countries
- Mistex & Fogex water mist fire protection systems are efficient, reliable and safe to use
- Mistex & Fogex are environmentally safe technologies and have a zero global warming and zero ozone depletion potential
- Mistex & Fogex can be used in the following three broad areas:
 - ◆ Marine applications
 - ◆ Land applications
 - ◆ Off-shore applications

Company's Objective

- Phirex Australia's objective is to become a pre-eminent global manufacturer and supplier of water mist fire protection systems
- Phirex Australia's ambition is to be amongst the top two global water mist fire protection manufacturers and suppliers
- To achieve this objective Phirex Australia shall:
 - ◆ Strive to maintain an aggressive marketing attitude
 - ◆ Continue with its Quality Assurance objectives & policies
 - ◆ Foster new technological innovations
 - ◆ Continue with product R&D and product testing
 - ◆ Implement and maintain competitive manufacturing processes
 - ◆ Continue to source new ideas and establish new markets and networks of selling agents
 - ◆ Implement proper training of agents and offer product technical support
 - ◆ Maintain and enforce its international patents on its range of technologies
 - ◆ Increase technology diffusion
 - ◆ Ensure completion of projects in a timely manner and on budget
 - ◆ Ensure prompt delivery of goods and services
 - ◆ Facilitate greater customer orientation and awareness

Fire Tests

- Phirex Australia has undertaken numerous live fire tests for its Mistex & Fogex Water Mist Fire Protection Systems at independent fire research laboratories. The following is a summary list of all fire testing undertaken to date:

◆ Mar 1993	Machinery Spaces	AMSA & DOT (WA)	Aust.
◆ Mar 1994	Aircraft cabin	Fire Service College	U.K.
◆ May 1995	Machinery spaces	SINTEF NBL	Norway
◆ May 1995	Turbine space	Royal Navy (MOD)	U.K.
◆ Nov 1995	Electric Transformers	UNI Storebrand	Norway
◆ Jan 1996	Fat fryers	UK Fire International	U.K.
◆ Mar 1996	Machinery spaces	VTT Building Tech	Finland
◆ Apr 1996	Public spaces	VTT Building Tech	Finland
◆ Apr 1996	Luxury cabins	VTT Building Tech	Finland
◆ Jun 1996	Accommodation areas	VTT Building Tech	Finland
◆ Jun 1996	Service areas	VTT Building Tech	Finland
◆ Jul 1996	Escalator rooms	MRTC	H.K.
◆ Aug 1996	Computer equipment	Heineken Breweries	Holland
◆ Oct 1996	Electrical cable tunnel	SP Boras (Sweden)	Swed.
◆ Oct 1997	Electric cable tunnel	Mercury Energy	N.Z.
◆ Sep 2000	Machinery spaces	VTT Building Tech	Finland
◆ Sep 2000	Combustion turbines	VTT Building Tech	Finland
◆ Sep 2000	Gas turbines	VTT Building Tech	Finland
◆ Sep 2000	Industrial hazards	VTT Building Tech	Finland
◆ Mar 2002	Local applications	VTT Building Tech	Finland
◆ Sep 2002	Theatre tests	Bari Fire Service	Italy
◆ Nov 2002	Machinery spaces	H.K.F.S.D.	H.K.
◆ Mar 2003	Machinery spaces	H.K.F.S.D.	H.K.
◆ Sep 2003	LUL Escalator rooms	London Underground	U.K.
◆ Apr 2004	Prison Buildings/Cells	Scottish Prisons	U.K.
◆ Feb 2005	Transformer Tests	KEPCO/FILK	Korea
◆ Feb 2006	Electric Turbines Tests	Western Power	Aust.

Product Acceptances

- As a result of fire testing, Phirex Australia has obtained numerous product approvals since 1993 for its Mistex & Fogex Water Mist Fire Protection Systems as follows:

MISTEX SYSTEM:

- Dept. of Transport (W.A.) - Type Acceptance
- Department of Transport (QLD) - Type Acceptance
- Department of Transport (S.A.) - Type Acceptance
- Department of Transport (Vic) - Type Acceptance
- MSA (UK) - Type Acceptance
- Italiane Navale - Type Acceptance
- Fire & Rescue Department of Malaysia (Bomba) - Type Acceptance
- Department of Fire & Explosion (Norway) - Type Acceptance
- Taiwan Government - Type Acceptance
- Papua New Guinea - Type Acceptance
- Maritime & Safety Authority New Zealand - Type Acceptance
- SINTEF NBL (Norway) - Letter of Statement

FOGEX SYSTEM:

- Lloyd's Register of Shipping (UK) - IMO Marine Approvals
- Det Norske Veritas (Oslo) - IMO marine approvals
- Factory Mutual Research (USA) - machinery spaces to be finalised
- Factory Mutual Research (USA) - industrial hazards to be finalised
- Factory Mutual Research (USA) - combustion & gas turbine spaces to be finalised
- American Bureau of Shipping - IMO marine approvals
- UK MCA - marine approvals IMO (to be finalised)
- US Coast Guard - IMO marine approvals (to be finalised)
- Bureau Veritas – IMO Type Acceptance
- VDS – Land approvals (to be finalised)
- Fire & Rescue Dept. of Malaysia (BOMBA) – Acceptance
- Hong Kong Fire Services Department – Acceptance
- United Arab Emirates – Civil Defence Approvals
- UK Government acceptance for prison cells
- RINA (Italy) – IMO marine acceptance

Future Developments

- The future objective of Phirex Australia is to attain corporatization through a public listing on the Australian or international stock exchange. Currently, the company is a 100% family owned corporation. The objectives of Phirex Australia's policy for a public listing are:
 - ◆ To become a pre-eminent international manufacturer and supplier of environmental safe fire protection systems and services
 - ◆ Corporatization will offer an opportunity for investors to participate in a growing hi-tech industry
 - ◆ Minimization of risk
 - ◆ Greater equity raising potential
 - ◆ Increase the corporate image of the company on an international level
 - ◆ To increase staff recruitment
 - ◆ To implement the company's expansion policy
 - ◆ To ensure wider market presence and coverage
 - ◆ To facilitate a more aggressive marketing policy

Typical Contracts

(Examples of Past, Current and Pending Land Projects)

<u>Company</u>	<u>Type of Installation</u>	<u>Country</u>
Unilever Laboratories	Laboratory	UK
Greve Glyden Lov Hotel	Historic Hotel Complex	Norway
Tinfos Melting Plant	Conveyor Belts x 3	Norway
Astra Medical	Computer Rooms	Sweden
Astra Medical	Emergency Generator Room	Sweden
SAAB Steel Plant	Hydraulic Power Room	Sweden
Swedish National Bank	Money Printing Rooms	Sweden
Royal Australian Airforce	Aircraft engine test cell rooms	Australia
Sims Metals	Computer & Electrical Rooms	Australia
Kongsberg Church	Historic Church	Norway
Kong Karl Hotel	Historic Hotel	Norway
Fevik Hotel	Historic Hotel	Norway
Banan Storage	Warehouse	Norway
Royal Castle	Cable Tunnels	Sweden
Danish Authorities	Police Department	Denmark
SAAB Steel Plant	Steel Rolling machines x 3	Sweden
Hong Kong Government	Rail Transit Sub-station	H. Kong
Metropolitan Electric Authy	3 x Electric Transformer sub-stations	Thailand
SAS Radisson Hotel	Hotel Rooms	Poland
Swedish Airforce	F-16 Jet Fighter Engine Test Rigs	Sweden
Norwegian Government	Bastoy Prison	Norway
Estonia Shopping Centre	Shopping Arcade/Mall	Estonia
Taipower Corporation	Electric Transformer Sub-stations	Taiwan
Swedish Electric Authority	Nuclear Power Cable Tunnels	Sweden
HSBC Banks	Bank checkouts and foyers	U.K.
Walker Crisps	Fat Fryers	U.K.
Kensey Foods	Baking Ovens	U.K.
Vision Fire Pte Ltd	Computer rooms	Singapore
Taiwan Government	Central Library project	Taiwan
Italian Economic Ministry	Petruzzelli Theatre – Bari	Italy
London Stock Exchange	Diesel Generator rooms	UK
Chung Shan Institute	Military offices & rooms	Taiwan
Zen Wallcoverings	Warehouse	UK
Private medical clinic	Offices and car parking basement	Greece
UAE Civil Defence	Police VIP Hall	UAE
TNB Transmission	Electric Transformers	Malaysia
Vision Fire	Hotel basements	Singapore
UK Corrections Dept.	Prison Cells	U.K.

Agents List

The Following is an agency list for Phirex Australia:

Australian Sole Agents:

Western Australia:

Phirex Fire Systems
78 Roberts Street
Osborne Park 6017
Western Australia
Tel: +61+8+9444 3222
Fax: +61+8+9444 3233

Sub-agents:

Midwest Fire Protection Service
P.O. Box 3274, Bluff Point
Geraldton, W.A. 6530

Harding Fire
Unit 1/3 Minna Street
Albany, W.A.
Ph/Fax: 98 417 147

Nielson Fire Protection
Lot 71, Tranquil Drive
Esperance, W.A. 6450

Queensland:

Opti-mist Australia Pty Ltd
290 Troughton Road
Coopers Plains, QLD 4108
Tel/Fax: (07) 3277 8653

Trinity Fire Services Pty Ltd
Unit 1c, 84 Aumuller Street
Portsmith, Cairns
P.O. Box 166W, Westcourt
Queensland, 4870
Tel: (070) 352 077
Fax: (070) 352 460

Agents List

Agency list Cont'd.../

South Australia:

Eyre Trading Company
45 Edinburgh Street
Port Lincoln, S.A. 5606
Tel: +61+86+821266
Fax: +61+86+824042

Inter Fire & Safety
5 Mailey Crescent
Parafield Gardens, S.A. 5606
Tel: (08) 8258 7522
FaxⓈ(08) 8285 7322

Tasmania:

Tamar Designs Pty Ltd
67 Main Road
Exeter, Tasmania 7275
Tel: +61+3+6394 3132
Fax: +61+3+6394 3179

Thailand:

Phirex Far East Thailand
HP: +6012-3453639 / +65-9002 0773
Email: sales@phirexfareast.com

Contact: Yeo L.S.

Taiwan:

Chuan Yen Fire-Tech Co Ltd
12th Floor, No 79, Sec 1, Hsin Tai Wu Road
His-Chih, Taipei Hsien, Taiwan, ROC
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England – Rep Office:

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England:

Water Mist (Fire) Technologies Ltd
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England.
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Contact: John McQuillan

Malaysia:

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Fax: +886+2+2698 4698

Contact: Dennis Chang

Greece:

APS Engineering Ltd
Kapadistriou Avenue
Alsoupolos
Athens, Greece

Contact: Stelios Yiannopoulos

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South Korea: **Regional Office:**

Phirex Far East Korea

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United Arab Emirates:

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Telecom House, Dhoat Al Adab Street
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