DAIKIN



PROJECT REFERENCE

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INTRODUCTION

Technologies for comfort and convenience are essential for life today. Back in 1951, Daikin already know the importance of this. The birth of our air conditioners were indeed to fulfill convenient and spacious living. As the world's sole manufacturer to develop a full line of products from refrigerants to air conditioners, we support comfortable living on the strengths of technologies that it nurtured.

Daikin strongly believes that the maintenance of a high quality of life is directly related to the consumption of our Earth's precious resources. Therefore as a pro-environment organization, we are proud to proclaim that all Daikin's Japanese plants and overseas production bases have acquired the ISO 9000 for quality assurance and the ISO14001, an international environmental management standard for factories.

Being a leader in creating clean and fresh environments, Daikin continues the quest to developing greater eco-friendly and energy efficient products that are both innovative and environmentally friendly to the world.

CERT NO.: 95-2-0507
ISO 9001 : 2008

CERT NO.: 2005-0282
ISO 14001 : 2004

Partner



Magnetic Bearing Centrifugal Chiller

Magnetic bearing technology has been in the market for years. Its application include: high speed train (Mag Lev), medical practices and others. Daikin is the first in the chiller industry to utilize magnetic bearing chiller, first launched in 2004 and has since developed the technology to the greater height. Daikin magnetic bearing chiller has been installed worldwide and whether it is for commercial, residential or industrial purposes, it has received positive feedback from the users.

Daikin Magnetic Bearing Centrifugal Chiller is available from 100RT – 1500RT. It is in accordance to ***AHRI Standard*** and just recently awarded ***Singapore Green Building Product Award***. With its Inverter Driven Magnetic Bearing Compressor and build-in VFD, it has an excellent part load efficiency. Thus, it is suitable for projects which required ***Greenmark Platinum Certification***. The integrated VFD also allows the compressor to draws only 2 amps to start as compared to 500 amps on a typical screw compressor.

Daikin Magnetic Bearing Chiller comes with R134A refrigerant, ecological refrigerant with Zero Ozone depletion Potential and very low Global Warming Potential. As it is identified as HFC type, it has no phase out schedule. It is also a positive pressure refrigerant type, which removes the need for additional exhausting device. The main feature of this chiller is the "oil-free design". The absence of oil in the chiller system will not only reduced the maintenance cost but also maintain the chiller efficiency throughout the chiller lifespan. As the year passed, traditional chiller will be oil contaminated in the evaporator during the chiller operation. Thus oil contamination will cause performance degradation which result in loss of efficiency.

Other unique features include:

1) ***Low Sound and vibration Level***. It can goes as low as 76dBa, which make it suitable for sound sensitive environments such as schools, performance house, museum, libraries and etc.

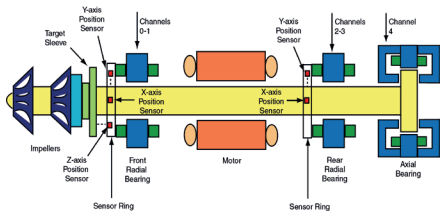
2) ***Compact design***. Daikin Magnetic Bearing Chiller has the smallest footprint per RT, which fit through a standard 3 inch or 4 inch wide doors. This makes the chiller an excellent choice for renovation and small space area.

Some of the Daikin Magnetic Bearing Chillers have built-in Economizer (HTMXE only), which increases the efficiency further. Other than that, there is also optional Rapid restart function. It allows the unit to start as fast as 30 seconds after power is restored (in case of power failure). This is especially useful for critical areas such as Data Centre, Operating Theaters and etc.

In summary, Daikin Magnetic Bearing Chiller is an excellent product for users who are looking for lower total cost of ownership due to its high efficiency, Reduced maintenance (oil free), Environmental friendly and able to maintain high performance throughout the chiller lifespan.



Digital Control Magnetic Bearing



BCA Academy



200 Braddell Road Singapore 579700

GREEN MARK PLATINUM

Project Commissioned

MAGNETIC BEARING COMPRESSOR CHILLER (WATER COOLED) 200RT x 3 units

AIR HANDLING UNIT x 9 units

DC BRUSHLESS FAN COIL UNIT x 132 units

KEY FEATURES

- **Estimated energy savings: 967,057 kWh/yr; estimated water savings: 4751 m^3/yr; ETTV 34.88W/m^2.**
- **Active chilled beam and passive displacement ventilation system at classrooms.**
- **Under-floor displacement air-conditioning system for lecture theatres.**
- **Green tour with innovation deck to demonstrate green building design best practices.**



Magnetic Bearing Compressor Chiller

CLIENT / DEVELOPER	BCA Academy of the Built Environment
ARCHITECT	RSP Architects Planners & Engineers (Pte) Ltd
M&E ENGINEER	Squire Mech Pte Ltd
CFD CONSULTANT	Building System & Diagnostics Pte Ltd

Central Mall Office Tower

1 Magazine Road Singapore 059567

GREEN MARK PLATINUM

Project Commissioned
MAGNETIC BEARING COMPRESSOR CHILLER (WATER COOLED) 300RT x 1 unit

KEY FEATURES

- **Estimated energy savings: 780,585 kWh/yr.**
- **Chiller plant efficiency of 0.61 kW/ton with variable speed drive controls in place.**
- **52.71% improvement in air distribution system efficiency over code.**



Magnetic Bearing Compressor Chiller

BUILDING OWNER	City Developments Limited
FACILITY MANAGEMENT	City Developments Limited
ESCO	CBM Solutions Pte Ltd
ESD/GREEN CONSULTANT	CBM Solutions Pte Ltd

ESSEC Business School

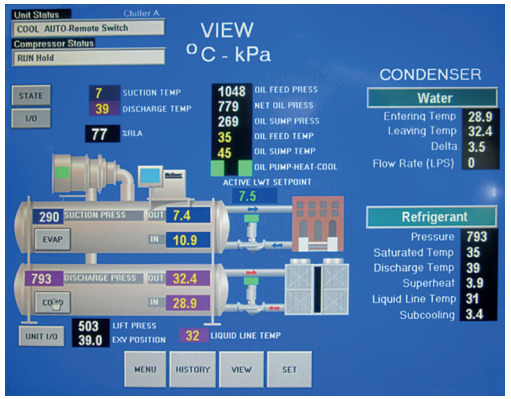
2 One-north Gateway Singapore 138502

GREEN MARK PLATINUM

Project Commissioned
MAGNETIC BEARING COMPRESSOR CHILLER (WATER COOLED) 250RT x 1 unit, 300RT x 1 unit

KEY FEATURES

- **Estimated energy savings: 461,169 kWh/yr; estimated water savings: 2,586 m³/yr; ETTV 38.8W/m².**
- **VRF air conditioning system with design efficiency of 0.71 kW/ton.**



User Friendly Touch Screen Panel - MicroTech Controller

CLIENT / DEVELOPER	ESSEC
ARCHITECT	RSP Architects Planners & Engineers Pte Ltd
M&E ENGINEER	Squire Mech Pte Ltd
ESD CONSULTANT	Building System & Diagnostics Pte Ltd

Holiday Inn Express

20 Bideford Road, Singapore 229921

GREEN MARK PLATINUM

Project Commissioned
MAGNETIC BEARING COMPRESSOR CHILLER (WATER COOLED) 250RT x 2 units

KEY FEATURES

- Estimated energy savings: 1,623,495 kWh/yr; estimated water savings: 9,400 m^3/yr; ETTV 38.14W/m^2
- Thermally broken frame to reduce heat transfer.
- Recycling of FCU condensate water for cooling make up water.
- Energy efficient Air-Conditioning and Mechanical Ventilation (ACMV) system.



Outdoor Enclosurer by Installer

CLIENT / DEVELOPER	Valeside Pte Ltd
ARCHITECT	JCP Architecture (S) Pte Ltd
M&E ENGINEER	United Project Consultants Pte Ltd
GREENMARK CONSULTANT	Kaer Pte Ltd

Indian Heritage Centre



Junction of Campbell Lane & Clive Street Singapore

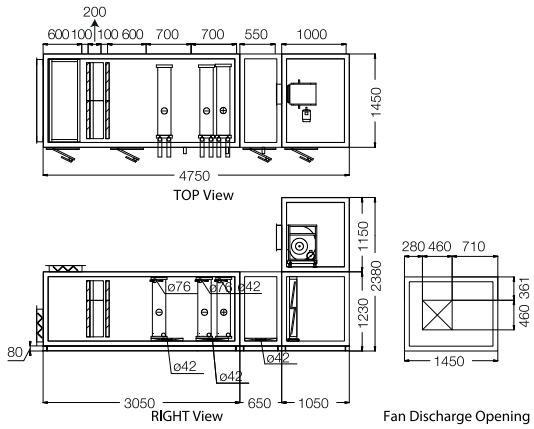
CLIENT / DEVELOPER National Heritage Board
ARCHITECT Robert Greg Shand Architects
M&E ENGINEER Mott Macdonald Singapore Pte Ltd

GREEN MARK GOLD Plus

Project Commissioned
MAGNETIC BEARING COMPRESSOR CHILLER (WATER COOLED) 300RT X 2 units

KEY FEATURES

- **Estimated energy savings: 199,000 kWh/yr; estimated water savings: 360 m³/yr; ETTV 38W/m².**
- **Chilled water plant efficiency of 0.63 kW/ton.**
- **Run-around coil for relative humidity control.**
- **Automatic water efficient landscape irrigation system with rain sensor.**



Daikin Run-Around Coil Air Handling Unit

Jurong Port Pte Ltd

GREEN MARK PLATINUM

Project Commissioned
MAGNETIC BEARING COMPRESSOR CHILLER (WATER COOLED) 270RT x 2 units

KEY FEATURES

- **Estimated energy savings: 190,201 kWh/yr; energy efficient façade design with ETTV 38.1W/m².**
- **Chiller plant system efficiency of 0.6 kW/ton with permanent measurement and verification instrumentation.**
- **Automatic condenser tube cleaning system for chiller plant.**



Magnetic Bearing Compressor Chiller

37 Jurong Port Road Singapore 619110

BUILDING OWNER	Jurong Port Pte Ltd
FACILITY MANAGEMENT	RSP Architects Planners & Engineers (Pte) Ltd
M&E CONSULTANT	J Roger Preston (Singapore) Pte Ltd
ESD CONSULTANT	G-Energy Global Pte Ltd

King's Centre



390 Havelock Road Singapore 169662

GREEN MARK PLATINUM

Project Commissioned
MAGNETIC BEARING COMPRESSOR CHILLER (WATER COOLED)
250RT x 2 units

KEY FEATURES

- Estimated energy savings: 926,673 kWh/yr.
- Chiller plant efficiency of 0.624 kW/ton.
- Variable speed drives for all pumps and cooling towers.

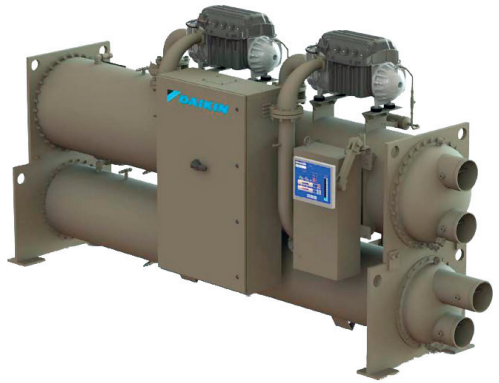


Magnetic Bearing Compressor Chiller

BUILDING OWNER	City Developments Limited
FACILITY MANAGEMENT	City Developments Limited
ESCO	CBM Solutions Pte Ltd
ESD CONSULTANT	CBM Solutions Pte Ltd

Singapore China Cultural Centre

Project Commissioned
MAGNETIC COMPRESSOR CHILLER (WATER COOLED) 250RT X 2 units



Magnetic Compressor Chiller

217 Queen Street, Singapore 188548

BUILDING OWNER	Ministry of China
ARCHITECT	RSP Architects, Planners & Engineers Pte Ltd
CONSULTANT	Squire Mech Pte Ltd

Temasek Polytechnic (SIT)
West Wing 1 & 2



21 Tampines Avenue 1, Singapore 529757

CLIENT / DEVELOPER	Singapore Institute of Technology/Temasek Polytechnic
ARCHITECT	Forum Architects Pte Ltd
M&E ENGINEER	T.Y. Lin International Pte Ltd
ESD CONSULTANT	Building System & Diagnostics Pte Ltd

GREEN MARK PLATINUM

Project Commissioned
MAGNETIC COMPRESSOR CHILLER (WATER COOLED) 170RT x 3 units
AIR HANDLING UNIT x 5 units
FAN COIL UNIT x 69 units

KEY FEATURES

- **Estimated energy savings: 1,060,438 kWh/yr; estimated water savings: 2,907 m^3/yr; ETTV 32.50 W/m^2.**
- **Chiller plant system with high targeted efficiency of 0.58 kW/ton.**
- **Automatic condenser tube cleaning system for chiller part.**



Testimonial from Mr Tan Yat Seng, Senior Manager (SIT)

The Magnetic Oil Free Centrifugal Inverter Chillers installed at SIT@TP have met its design intend.

We have further enhanced the operational conditions for chiller system to improved the operating chilled water system efficiencies to better than GM Platinum standard for chilled water system. Currently the operating efficiencies are ranging from 0.5 to 0.65 kW/RT from our design building peak load to minimum load.

We will consider Daikin Chillers as one of our options for our future developments.



Centrifugal Chiller

Daikin Centrifugal Chiller is made from China with cooling capacity available from 400RT – 1500RT. It is in accordance to ***AHRI Standard***.

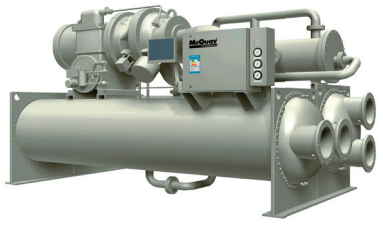
The inverter driven centrifugal compressor is an excellent choice for ***Greenmark Platinum*** projects. It has an excellent full load and part load efficiency due to some of its unique feature such as build-in VFD and build-in economizer, which improves the efficiency further. Daikin Centrifugal Chiller comes with unique innovative 'back to back' impeller design. It reduces the thrust and load of the bearings by 67% to improve the reliability and extend the bearings lifespan.

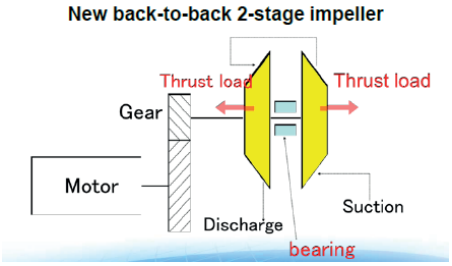
Its build-in electric oil pump, supplies lubrication at controlled temperature and pressure to all bearing surfaces. It also has advanced capacity control system such as:

1) ***Motor Driven Inlet Guide Vane (IGV)*** located at the first stage compressor to control the quantity of refrigerant entering the impeller, thus controlling the compressor capacity in the 1st stage.

2) A motor driven ***Discharge Diffuser Control (DDC)*** to reduce discharge loss and lower down discharge noise. These 2 mechanisms, allow excellent unloading capacity reduction and stable operation down to 0-30% part load.

Daikin Centrifugal Chiller also comes with R134A refrigerant, ecological refrigerant with Zero Ozone Depletion Potential and very low Global Warming Potential. As it is identified as HFC type, it has no phase out schedule. It is also a positive pressure refrigerant type, which remove the need for additional exhausting device.





Affymetrix Pte Ltd

Project Commissioned
CENTRIFUGAL COMPRESSOR WATER COOLED CHILLER 500RT x 2 units


Magnetic Bearing Compressor Chiller

7 Gul Circle, #2M-01/08, Keppel Logistic Building, Singapore 629563

BUILDING OWNER	Affymetrix Pte Ltd
M&E CONSULTANT	M + W Group

DB Schenker

GREEN MARK PLATINUM

Project Commissioned
CENTRIFUGAL COMPRESSOR CHILLER (WATER COOLED) 400RT X 3 units
AIR HANDLING UNIT x 10 units
FAN COIL UNIT x 11 units

KEY FEATURES

- **Estimated energy savings: 2,216,750 kWh/yr; estimated water savings: 1,183 m^3/yr; ETTV 14.9W/m^2.**
- **Chiller plant overall part load efficiency of 0.63 kW/ton.**
- **34.4% improvement in air distribution efficiency over baseline.**
- **Recycling of 100% of AHU condensate.**



Centrifugal Compressor Chiller

35 Greenwich Drive off Tampines Road, Singapore 533952

CLIENT / DEVELOPER	Schenker Singapore Pte Ltd
ARCHITECT	HA Architects Pte Ltd
ESD CONSULTANT	IGnesis Consultants Pte Ltd

Downtown Line 2
Bukit Panjang to Bugis



Project Commissioned
SCREW COMPRESSOR WATER COOLED CHILLER PFS200 x 6 units, PFS170 x 3 units, PFS150 x 9 units, PFS135 x 18 units

10 Sin Ming Drive, Singapore 575701

CLIENT / DEVELOPER	Land Transport Authority
ARCHITECT	Ong & Ong Pte Ltd
CONSULTANT	Meinhardt (S) Pte Ltd

Kulicke & Sofa Corporate Headquarters

23A Serangoon North Avenue 5 #01-01, Singapore 554369

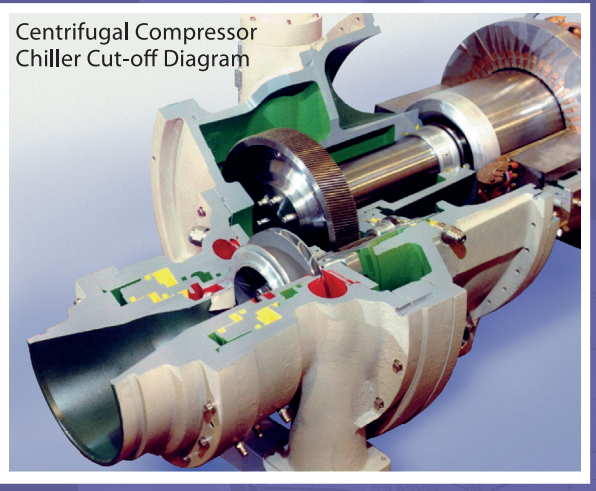
CLIENT / DEVELOPER Mapletree Industrial Trust
M&E ENGINEER AECOM

GREEN MARK PLATINUM

Project Commissioned
CENTRIFUGAL COMPRESSOR CHILLER (WATER COOLED) 1000RT X 3 units
AIR HANDLING UNIT x 21 units
FAN COIL UNIT x 20 units

KEY FEATURES

- **Chiller plant system efficiency of <0.70 kW/ton, with soft starter controls in place.**
- **Use of high efficiency centrifugal chiller.**
- **Use of energy efficiency Fan Coil Unit and Air Handling Unit.**


Centrifugal Compressor Chiller Cut-off Diagram

Lee Kong Chian School of Medicine (Novena Campus)



11 Mandalay Road Singapore 308232

CLIENT / DEVELOPER Nanyang Technological University

M&E ENGINEER Meinhardt (Singapore) Pte Ltd

GREEN MARK PLATINUM

Project Commissioned

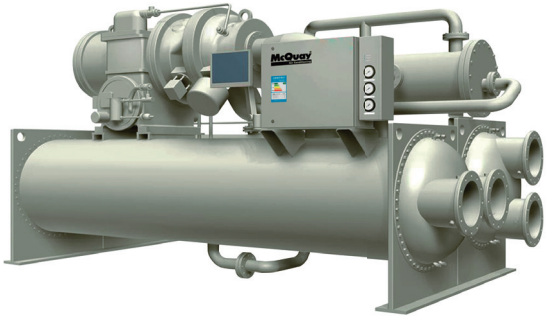
2-STAGE VSD CENTRIFUGAL COMPRESSOR CHILLER (WATER COOLED) 1000RT x 4 units

AIR HANDLING UNIT x 26 units

DC BRUSHLESS FAN COIL UNIT x 84 units

KEY FEATURES

- **Use of DC Brushless Fan Coil Unit.**
- **Chiller plant overall part load efficiency of <0.60 kW/ton.**
- **Use of dual compressors chiller for low load.**



2-Stage VSD Centrifugal Compressor Chiller

Lee Kong Chian School of Medicine (Yunnan Campus)

50 Nanyang Avenue Singapore 639798

GREEN MARK PLATINUM

Project Commissioned

2-STAGE VSD CENTRIFUGAL COMPRESSOR CHILLER 810RT x 3 units, 380RT x 1 unit
AIR HANDLING UNIT x 15 units
DC BRUSHLESS FAN COIL UNIT x 30 units

KEY FEATURES

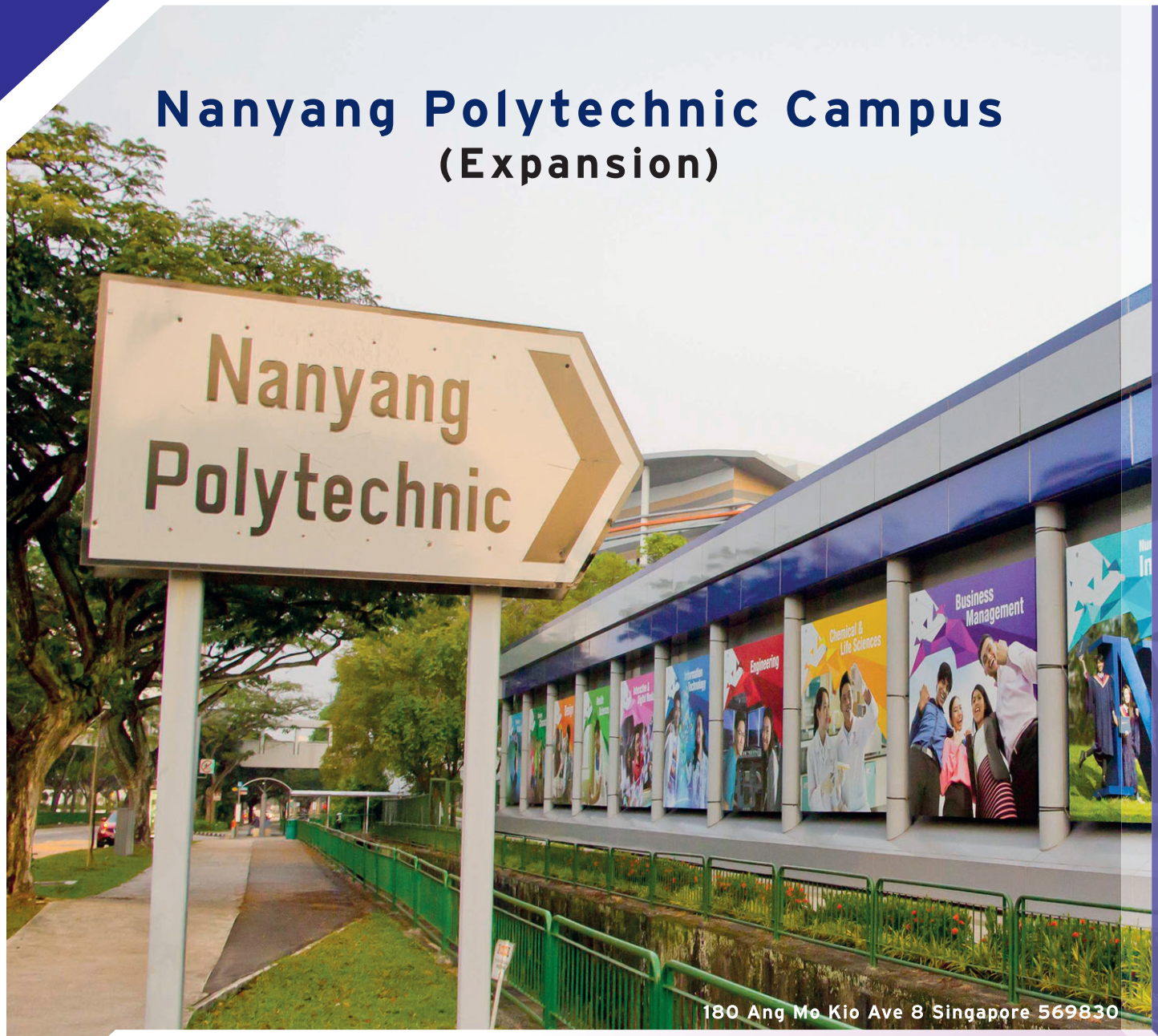
- **Use of DC Brushless Fan Coil Unit.**
- **Chiller plant overall part load efficiency of <0.60 kW/ton.**



Daikin Air Handling Unit

CLIENT / DEVELOPER Nanyang Technological University
M&E ENGINEER Meinhardt (Singapore) Pte Ltd

Nanyang Polytechnic Campus
(Expansion)



180 Ang Mo Kio Ave 8 Singapore 569830

GREEN MARK PLATINUM

Project Commissioned
CENTRIFUGAL COMPRESSOR CHILLER (WATER COOLED) 800RT x 1 unit, 380RT x 2 units, 300RT x 3 units
CENTRIFUGAL DUAL COMPRESSOR CHILLER (WATER COOLED) 1800RT x 1 unit
AIR HANDLING UNIT x 78 units
FAN COIL UNITS x 105 units

KEY FEATURES

- **Estimated energy savings: 3,365,133 kWh/yr; estimated water savings: 19,248m³/yr; ETTV 39.04W/m²**
- **High efficiency water cooled chiller plant system targeting average performance of 0.64 kW/ton**
- **Green education program and eco kiosk to spread environmental awareness to users and students**



Centrifugal Dual Compressor Chiller

CLIENT / DEVELOPER	Nanyang Polytechnic, Singapore Institute of Technology
ARCHITECT	RSP Architects Planners & Engineers (Pte) Ltd
M&E ENGINEER	Squire Mech Pte Ltd
ESD CONSULTANT	Building System & Diagnostics Pte Ltd

NTU North Spine Academy Building 2

GREEN MARK PLATINUM

Project Commissioned
CENTRIFUGAL DUAL COMPRESSOR CHILLER 550RT x 3 units
MAGNETIC COMPRESSOR CHILLER 275RT x 2 units
AHU x 18 units, CHW FCU x 94 units,
VRV x 8 units for FCC & IT RACK ROOM



76 Nanyang Drive, Singapore 637331



CLIENT / DEVELOPER	Nanyang Technological University
M&E CONSULTANT	Squire Mech Pte Ltd
ESD CONSULTANT	Energy Research Institute at NTU (ERI@N) 5



80 Mandai Lake Road Singapore 729826

GREEN MARK CERTIFIED

Project Commissioned
CENTRIFUGAL COMPRESSOR CHILLER
400RT X 2 units

KEY FEATURES

- **Storm water management using ABC features such as natural waterways and bio-retention systems.**
- **Focus on passive design such as natural ventilation and daylighting to improve energy efficiency.**
- **Use of energy efficient water-cooled chiller plant, light pipes for animal dens and water efficient fittings.**



CLIENT / DEVELOPER	Wildlife Reserves Singapore
ARCHITECT	DP Architects Pte Ltd
M&E ENGINEER	Beca Carter Hollings & Ferner (S.E.Asia) Pte Ltd

Royal Square
Novena



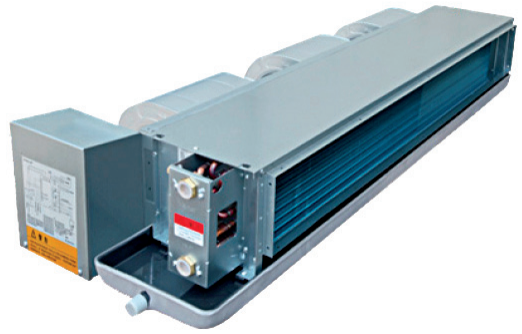
Junction of Irrawaddy Road and Thomson Road

GREEN MARK PLATINUM

Project Commissioned
CENTRIFUGAL DUAL COMPRESSOR CHILLER
600RT x 1 unit
MAGNETIC COMPRESSOR CHILLER
310RT x 1 unit, 300RT x 2 units
AHU x 17 units, CHW FCU x 387 units,
VRV x 16 units for F&B

KEY FEATURES

- **Estimated energy savings: 3,598,563 kWh/yr; estimated water savings: 19,058 m^3/yr; ETTV 30.95W/m^2**
- **Overall design chilled water plant efficiency of 0.58kW/ton.**
- **Improved indoor environment for a healthy building.**



DC Brushless Fan Coil Unit

CLIENT / DEVELOPER	Hoi Hup Sunway Novena Pte Ltd
ARCHITECT	Consortium 168 Architects Pte Ltd
M&E ENGINEER	Rankie & Hill (S) Pte Ltd
ESD CONSULTANT	Arup Singapore Pte Ltd

SBF Centre Singapore



160 Robinson Road Singapore 068914

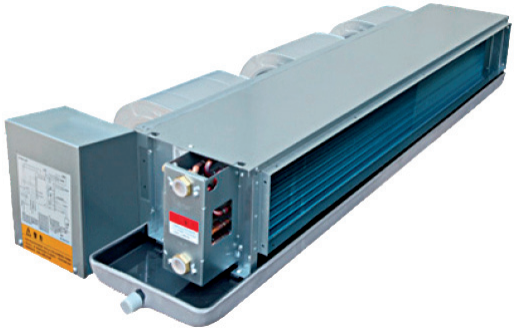
CLIENT / DEVELOPER	Far East Opus Pte Ltd
ARCHITECT	DP Architects Pte Ltd
M&E ENGINEER	Meinhardt (Singapore) Pte Ltd
ESD CONSULTANT	DP Sustainable Design Pte Ltd

GREEN MARK PLATINUM

Project Commissioned
CENTRIFUGAL COMPRESSOR CHILLER (WATER COOLED) 650RT x 2 units
MAGNETIC COMPRESSOR CHILLER (WATER COOLED) 325RT x 2 unit
DC BRUSHLESS FAN COIL UNIT x 440 units
AIR HANDLING UNIT x 17 units

KEY FEATURES

- **Estimated energy savings: 1,944,300 kWh/yr; estimated water savings: 20,779 m^3/yr; ETTV 33.67W/m^2**
- **Energy efficient air-conditioning system with expected operated part load condition of 0.576 kW/ton. 45% improvement in air distribution system efficiency over code.**
- **Heat recovery from toilet exhaust.**



DC Brushless Fan Coil Unit

W Hotel Singapore
Sentosa Cove

21 Ocean Road Singapore 098374

GREEN MARK PLATINUM

Project Commissioned
CENTRIFUGAL COMPRESSOR CHILLER (WATER COOLED) 346RT x 3 units
TEMPLIFER (HEAT PUMP): 59RT X 2 units
FAN COIL UNIT x 142 units

KEY FEATURES

- **Estimated energy savings: 3,338,446 kWh/yr; estimated water savings: 22,200 m^3/yr; ETTV 42.25W/m^2**
- **Air conditioning plant system efficiency: 0.65 kW/ton.**
- **Use of heat pump (Daikin Templifier) for hot water system.**


Daikin Templifier

CLIENT / DEVELOPER	City Developments Limited
ARCHITECT	Axis Architects Planners Pte Ltd
M&E ENGINEER	Meinhardt (Singapore) Pte Ltd
ESD CONSULTANT	G-Energy Global Pte Ltd



Air Cooled Chiller

Daikin Air Cooled Chiller is available from 50RT up to 570RT. It is in accordance to ***AHRI Standard*** (From 164RT – 570RT).

Daikin has applied inverter driven single screw compressor technology in air cooled units. This result in an excellent full load and part load efficiency, which is suitable for Greenmark (Certified) projects. Daikin Air Cooled Chiller comes with R134A refrigerant, ecological refrigerant with Zero Ozone Depletion Potential and very low Global Warming Potential. As it is identified as HFC type, it has no phase out schedule. It is also a positive pressure refrigerant type, which removed the need for additional exhausting device.

Some of Daikin Air Cooled Chiller models come with at least one or two independent refrigerant circuit, guaranteeing (partial) cooling "backup" even in the case of maintenance activity.

Other unique features include:

1) ***High power factor***;

This inverter range can operate always with power factor >95, which allows building owners to avoid power factor penalties and decrease electrical losses in cable and transformers.

2) ***Minimum In rush current***;

Due to the usage of variable speed motor, it eliminates the fluctuation in power supply and reduces stress on the electrical equipments.

3) ***Low Sound level*** due to variation of compressor frequency.

4) ***Lighter and smaller*** in size, which is ideal for replacement projects and also cost savings on structural elements.

Daikin Air Cooled Chiller also comes with optional ***Rapid restart function***. It allows the unit to start as fast as 30 seconds after power is restored (in case of power failure). This is especially useful for critical areas such as Data Centre, Operating Theaters and etc. ***VFD optional function*** is also available to have better efficiency during part load.

Tata Communications

35 Tai Seng Street Singapore 534103

GREEN MARK GOLD

Project Commissioned
SCREW COMPRESSOR CHILLER (AIR COOLED) 477RT x 5 units

KEY FEATURES

- **Estimated energy savings: 66,501 kWh/yr.**
- **Rapid restart function for data centre usage.**



Screw Compressor Chiller

CLIENT / DEVELOPER	Mapletree Trustee Pte Ltd As Trustee of Mapletree Singapore Industrial Trust
ARCHITECT	Kung & Tan Architects
M&E ENGINEER	HPS Consulting Engineers I2R Consulting & Engineering Services Pte Ltd TW International Counsel Pte Ltd GIMS & Associates
SUSTAINABLE CONSULTANT	ZEB-Technology Pte Ltd



SUMMARY OF PROJECTS

TYPE	NAME OF PROJECT	TYPE
HOSPITALITY	Collyer Quay Hotel	Magnetic (Water Cooled)
	Holiday Inn Hotel- Express Orchard	
	Robertson Quay Hotel	
	Royal Square	
	The Legends	
	Royal Square	Centrifugal (Water Cooled)
	W Hotel	
	Yotel	Screw (Air Cooled Inverter)
	7 Storey Hotel / Office at Merchant	Screw (Air Cooled)
	Anantara Kihavah	
	Dorsett Hotel	
	Lakeshore View Sentosa	
COMMERCIAL	Central Mall	Magnetic (Water Cooled)
	Empress Cinema	
	King's Center	
	BP Eurochem	Centrifugal (Water Cooled)
	SBF Building	
	The Atrium@Orchard	
	Ascot Development (Pvt) Ltd	Screw (Water Cooled)
	BP Eurochem	
	Inland Revenue	
	No 1 Philip Street	
	OCBC Tampines	
	SBF Building	
	Singapore Power	
	The Pines Club	
	ANZ Bank@OFC	Screw (Air Cooled)
	BNP Paribas	
	Changi Business Park	
	Henderson Building	
	Hougang St 91	
	HSBC@Collyer Quay	
	ICAP	
	Illumina	
	M1 Building	
	Quality Home Appliance	
	Standard Chartered Bank	
	The Globe	

TYPE	NAME OF PROJECT	TYPE
INDUSTRIAL	Jurong Port Building	Magnetic (Water Cooled)
	LF Logistic	
	Linear Technology	
	Affeymetrix	Centrifugal (Water Cooled)
	Amgen	
	Biosensor	
	Chevron Oronite	
	CIAS Flight Kitchen	
	DB Schenker	
	Energizer	
	GSK	
	JMS Singapore Pte Ltd	
	Kimberly Clark	
	Kulicke & Sofa Corporate	
	LF Logistic	
	Markono Print Media Pte Ltd	
	Schenker - Warehouse	
	Tee Yih Jia Building	
	Agnos	Screw (Water Cooled)
	Bosch Singapore	
	Caterpillar Singapore	
	Goldcoast Food Industry	
	GSK	
	Index Precision	
	Jurong Acromatics Plant	
	Metallkraft Singpaore (REC)	
	Motorola	
	Senoko Drive	
	Siltronic Samsung	
	ST Kinetics	
	Sumitomo Bakelite	
	UE Biz Hub	
	Actxus Technologies	Screw (Air Cooled)
	Bericap Factory	
	Brother Project	
	ELBA	
	Exxon Mobile	
	F&N Coca Cola	

TYPE	NAME OF PROJECT	TYPE
	Kester Project	Screw (Air Cooled)
	Lixin Industrial Building	
	Menicon	
	Nexbtl Plant	
	Omega Line Alpha	
	Refinery Lab@Exxon Pioneer	
	Santoku	
	Seiko Instruments	
	Senoko Incineration Plant	
	Singapore Reining Company (SRC)	
	Sumidurez	
	Sumitomo Bakelite	
	Tokuyama Factory	
	Tyco Electronics	
	Ubi Ave 1	
	Yokogawa - 10K Cleanroom	
INSTITUTION	BCA Academy	Magnetic (Water Cooled)
	ESSEC Business School	
	French School	
	Nepal Hill	
	North Spine Academic Building@NTU	
	SIT @ Temasek Polytechnic	
	Lee Kong Chian School of Medicine	Centrifugal (Water Cooled)
	Nanyang Polytechnic	
	North Spine Academic Building@NTU	
	SIT@Nanyang Polytechnic	
	NTU	Screw (Water Cooled)
	Singapore Polytechnic	
	NUS	Screw (Air Cooled)
	Raffles Institution	
	Series - NUS PVPA	
COMMUNITY	Indian Heritage Centre	Magnetic (Water Cooled)
	Kong Meng San Phor Kark See	
	Singapore China Cultural Centre	
	Geylang East Community Library	Screw (Water Cooled)
	Grace Assembly of God Church	Screw (Air Cooled Inverter)
	Wesley Church	Screw (Air Cooled)

TYPE	NAME OF PROJECT	TYPE
HOSPITAL	Assisi Hospice	Magnetic (Water Cooled)
	Mount Alvernia Hospital	
	KK Hospital	Centrifugal (Water Cooled)
	Cancer Hospital	Screw (Water Cooled)
	KK Hospital	
	National Dental Centre	
	TTSH	Scroll (Air Cooled)
	Alexandra Hospital	Screw (Air Cooled)
	National Cancer Centre	
	Thomson Medical	
OTHERS	IBM Data Centre	Magnetic (Water Cooled)
	Mandai Depot	
	ST Marine Admin Building	
	Free Port	Centrifugal (Water Cooled)
	River Safari	
	West Coast Base	
	Downtown Line 2	Screw (Water Cooled)
	Free Port	
	Jurong Birdpark	
	North South Line Extension	
	Tuas Depot	
	West Coast Base	
	Changi East 230kV Substation	Screw (Air Cooled Inverter)
	Military Project	
	Bedok DCS	Screw (Air Cooled)
	Commercial Building @ Pasir Panjang	
	Data Centre	
	Mediacomplex	
	Military Projects	
	Yahoo	



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PROJECT REFERENCE