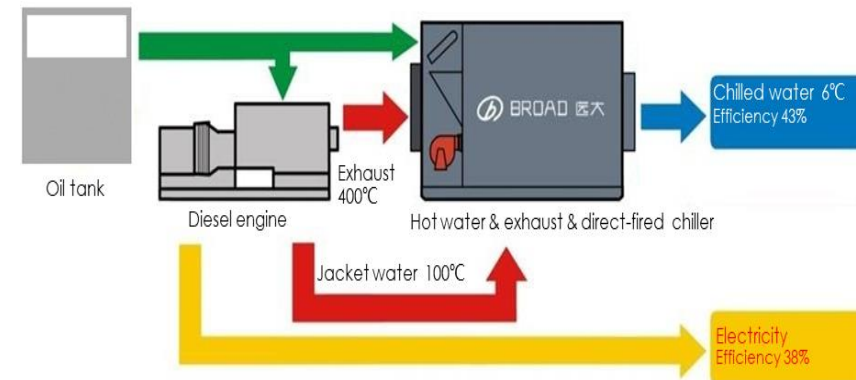
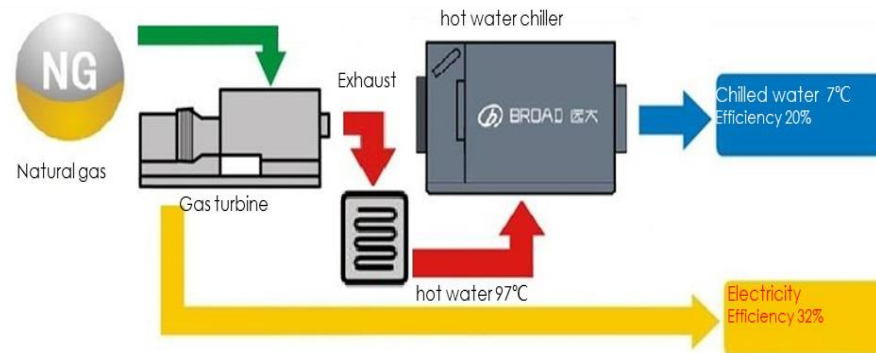
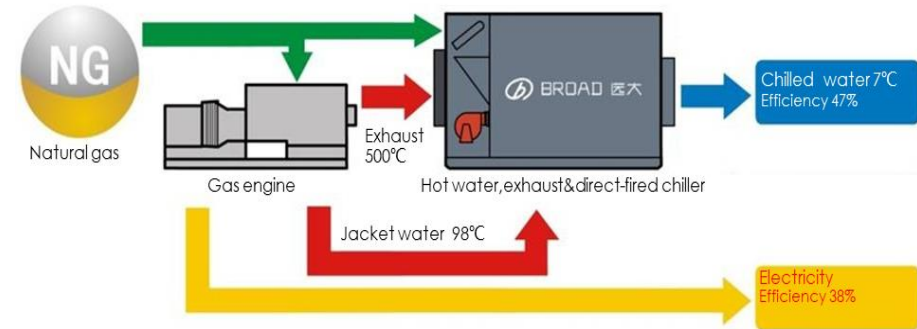
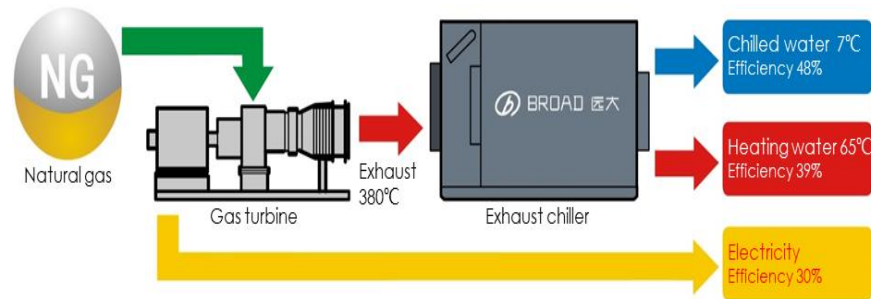


## CHP Models





## Project Background:

Ready Food Pac manufactures ready to eat packaged green vegetable based by the brand name Bonduelle. It is G. Engine based CHP where cascading is done to get 34F process cooling water. The Jacket Hot water runs the BROAD Absorber which gives 42F to the Ammonia Absorber (driven by Engine's exhaust gas) delivering 34F Water to the process.

## Project Description:

Two Jenbacher 1.5 MW Gas Engines will provide its jacket water to run the BROAD BDH Chiller which is required to cool the 67F water coming from the Process Plants into 42F.

## BROAD Chiller Information:

Cooling capacity: 350 RT

Model: BDH106XII-81.1/87.8-36.1/29.4-8.3/16.7-Fa-Ma-B3-150

Heat source: Jacket Hot Water from 2 GE Jenbacher Gas Engines

## Project Highlights:

BROAD's superior metallurgy with great features and BROAD USA's local service support in LA impressed the EPC client to choose BROAD instead of the specified another make earlier.



## 用户背景:

美国加利福利亚洲代尔市的即食包食品公司是一家提供便利新鲜食品和鲜切产品的生产商，45年以来一直为人们提供更健康的饮食自由。其产品包括新鲜的农产品、蛋白质产品、新鲜沙拉、水果、蔬菜、小吃和全套餐点。该公司于2017年被法国食品集团Bonduelle收购。即食包食品公司以经营可持续发展业务而感到自豪，其小吃盘、色拉盘、配料盒和运输容器都是100%可回收，以减少对环境的影响

## 项目介绍:

该冷热电联产项目装有两台GE 1.5MW发电机，一台氨制冷机和一台远大单效热水机。发电机烟气用于驱动氨制冷机，而缸套热水用于驱动远大单效热水机。由远大单效热水机产生的8.3摄氏度冷水进入氨制冷机以产生低于1.7摄氏度的冷水用于保鲜等食品加工生产线。

## 机组信息:

制冷量: 350 冷吨

机型: BDH106XII-81.1/87.8-36.1/29.4-8.3/16.7-Fa-Ma-B3-150

热源: GE 燃气发电机缸套水

## 项目亮点:

远大卓越的机组性能和效率以及在洛杉矶当地的服务支持给能源管理公司留下了深刻印象，因而放弃了之前指定的另一品牌而选择了远大。



# Long Island Pavilion Building



## Project Background:

The Pavilion Building is a A-class medical office building in Long Island that within 2 blocks of NYU Winthrop Hospital. The building built in 1979 and has 238,430 sqft floor area. The RMR Group LLC is the property-management company of The Pavilion Building. RMR Group LLC, founded in 1986, had over 2,100 properties, and more than 30 offices throughout the United States, they invest in real estate and manage real estate related businesses.

## Project Description:

It's a replacement job. To increase the energy efficiency, a new CCHP system will be installed. Two BROAD single stage hot water units driven by wasted heat from the engine will be installed to replace the aged Hitachi gas fired absorption chillers , provide free cooling to the building.

## BROAD Chiller Information:

Cooling capacity:200RT/unit

Model: BDH60XII-85/99-36.4/29.4-

6.7/12.2-Fa-Ma-B3-75 \*2

Heat source: Hot water from Generator

## Project Highlights:

BROAD chiller's widespread references in Great New York area, outstanding quality and efficient customer service won the customer's trust.

缺机房照片



## 用户背景:

长岛塔寓是RMR管理下的A级医疗办公楼，位于纽约长岛米尼奥拉，离纽约大学温斯洛普医院仅2两个街口。该办公楼为始建于1979年，共计238,430平方英尺。

该项目客户为长岛塔寓的物业管理公司RMR Group LLC。RMR是一家资产管理控股公司，成立于1986年，在全美管理2,100多个物业，30多个办事处，致力于房地产投资和房地产相关业务的管理。

## 项目简介:

该项目为旧机组替换项目。该办公楼将新建一台CHP系统，回收发电机水废热产生热水，驱动2台远大高效节能（2台100kw的Tecogen INV100.）烟气和缸套的单效热水机替代原有的两台日立直燃机组，为办公楼提供制冷。

## 机组信息:

制冷量: 703 kW/台

机型:

BDH60XII-85/99-36.4/29.4-6.7/12.2-Fa-Ma-B3-75 \* 2 台

热源: 发电机烟气换热水加缸套水

## 亮点:

远大机组因其在纽约地区广泛的安装应用、卓越的品质及优质高效的客户服务赢得此项目。

# Cyxtera Boston Data Center CCHP



## Project Background

Cyxtera Technologies combines a worldwide footprint of best-in-class data centers with a portfolio of modern, cloud- and hybrid-ready security and analytics offerings. The company operates a footprint of 62 data centers in 29 markets around the world, providing more than 3,500 enterprises, government agencies and service providers an integrated, secure and resilient infrastructure platform for critical applications and systems. Energy Star Certified data center with 107,570 sq/ft raised floor space and access to 16MW of utility power. Compliance with SSAE18 SOC-1, SOC-2, ISO 27001, PCI DSS and NIST 800-53PE standards. The total cooling capacity for the data center is 3265RT, adopting N+1 configuration.

## Project Description

In this project, 2G Energy provides a full set of CCHP systems for Cyxtera Boston Data Center, including two 1.5MW MTU gas generators and one 680-ton BROAD single-stage hot water chiller to provide cooling for the equipment room.

## BROAD Chiller Information

Cooling capacity: 680RT

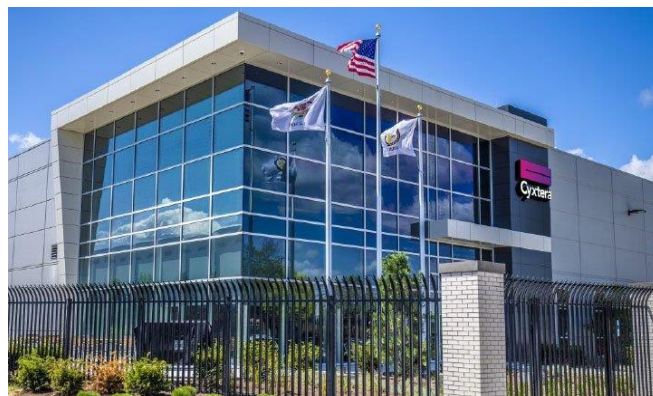
Model: BDH206XII-78/101-35/29.4-

11.7/18.3-Fa-Ma-B3-300

Heat source: heat recovered hot water from generators

## Project Highlights

This project is another milestone project with 2G Energy. The CCHP project realizes the cascade utilization of energy while ensuring the reliable operation of the data center. It uses the absorption chiller to recover the waste heat from the generators to cool the equipment room, effectively reducing the PUE value of the data center and saving energy costs.



## 项目背景

西克斯特科技公司将全球一流的数据中心与现代，云和混合就绪的安全和分析产品组合相结合。该公司在全球29个市场设有62个数据中心，为3500多家企业、政府机构和服务提供商提供了集成，安全和有弹性的基础架构平台，用于关键的应用程序和系统。

西克斯特波士顿数据中心距离波士顿市中心约15英里，机房面积超10万平方英尺，符合SSAE18 SOC-1、SOC-2、ISO 27001、PCI DSS和NIST 800-53PE标准。数据中心用电量16MW，制冷需求总计3265冷吨，采用N+1冗余设计。

## 项目介绍

该项目2G Energy公司为西克斯特波士顿数据中心提供全套CCHP系统，包括2台1.5MW的MTU燃气发电机和1台680冷吨的远大单效热水机，为机房供电供冷。

## 设备信息

制冷量: 680RT

机型: BDH206XII-78/101-35/29.4-11.7/18.3-Fa-Ma-B3-300

热源:发电机热回收热水

## 项目亮点

该项目是与德国2G Energy公司合作以来又一里程碑式项目。该CCHP项目实现了能量的梯级利用，在保障数据中心可靠运行的同时，利用吸收式制冷机回收发电机余热为机房供冷，有效降低数据中心PUE值，节省能源费用。





## Project Background

125 Broad Street is an office building in Lower Manhattan, which was completed in 1970, boasting an International Style design by Carson Lundin & Shaw and Kahn & Jacobs. The building is conveniently located in the city's Financial District and offers modern amenities and sustainable features. Currently, 125 Broad Street is home to various high-profile office tenants in sectors like law, finance and media.

The building previously known as Two New York Plaza offers 1.3 million square feet of Class A FiDi office space across 40 stories. It was completely renovated in 2007, and was the first commercial office building in Lower Manhattan to earn LEED certification for its energy efficient features. It also features 12,000 square feet of retail space, include on-site management, daycare, a coffee shop, shoe shine service, a 50-car parking garage, and views of the New York Harbor.

## Project Description

This CCHP system includes a 1MW Tecogen engine, 320-ton BROAD absorption chiller, 1500-ton centrifugal chiller and 8000 ton-hrs of thermal storage, to provide electricity, heating and cooling for the building.

## BROAD Chiller Information

Cooling capacity: 320RT

Model: BDH97XII-80/93.3-35/29.4-7.2/12.8-Fa-Md-B3-125

Heat source: Hot water from gas engine

## Project Highlights

125 Broad Street uses Con Edison for electricity and steam, and procures 100% of its chilled water from the adjacent property. To eliminate its reliance on the adjacent property and make 125 Broad energy efficient for compliance with Local Law 97, the owner decided to modernize its building energy infrastructure by installing a new CCHP system.

The state-of-the-art CCHP system will transform 125 Broad's energy efficiency, generate substantial energy savings of \$1,250,000+/year, dramatically reduce carbon emissions and Local Law 97 penalties. The system will dramatically reduce 125 Broad's carbon footprint by more than 70% and will result in a reduction in utility and commodity consumption of 42%+ electricity, 94% steam, 100% chilled water.





## 项目背景

百老街125号（以前称为纽约广场2号）是位于纽约市曼哈顿金融区的办公楼，位于南渡轮附近的百老汇街与南街交汇处。该建筑高154 米，高40层，是曼哈顿下城最南端的摩天大楼之一。该建筑由Kahn & Jacobs建筑事务所设计，由Sol Atlas和John P. McGrath开发，于1970年完工，提供130万平方英尺的A级 FiDi办公空间和12000平方英尺零售空间，为法律、金融服务及媒体和出版等行业知名公司提供办公场所。

## 项目介绍

该项目为冷热电联产系统。系统包括一台1MW Tecogen内燃发电机,一台320冷吨远大单效热水机，一台1500冷吨离心电冷机和8000ton-hr储能罐，为办公楼提供电力、采暖和制冷。

## 设备信息

制冷量: 320RT  
机型: BDH97XII-80/93.3-35/29.4-7.2/12.8-Fa-Md-B3-125  
热源:发电机热水

## 项目亮点

该建筑之前从当地能源公司Con Edison购买电力和蒸汽，并从附近的物业采购冷冻水。为减少对相邻物业的依赖，提高建筑能效，并符合当地关于碳减排的97号法律，业主决定安装一冷热电联产系统。预计该冷热电联产系统可每年节省125万能源成本，减少70%碳排放，并大幅减少97号地方法律的政府罚款。减少外部购电42%，94%的蒸汽和100%的冷冻水，实现节能减排、降本增效。

# Somerset Hospital CCHP



## Project Background

Founded in 1899, Robert Wood Johnson University Hospital Somerset, located in Somerville, New Jersey, is a nationally accredited, 355-bed regional medical center providing a variety of comprehensive emergency, medical/surgical and rehabilitative services to Central New Jersey residents.

RWJ's Somerset campus is now part of RWJ Barnabas Health, which is the most inclusive health care delivery organization in New Jersey, handling more than 3 million patients a year. RWJ Barnabas Health is New Jersey's second largest private employer with more than 32,000 personnel, 9,000 physicians and 1,000 residents and interns. It is routinely given national awards for its exceptional worth and safety.

## BROAD Chiller Information

Cooling capacity: 160 RT  
Model: BDH48XII-86.1/96.1-37.8/29.4-6.7/12.2-Fa-Ma-75

Heat source: hot water from engine jacket water heat recovery loop

## Project Description

A new CCHP system including a 1.5MW gas genset, a HRSG, a 160-ton BROAD chiller etc. will be installed to produce electricity, steam, hot water and chilled water that will enhance the utility and other energy system currently in place at the facility. During the normal operation, the CHP plant will operate in parallel with the utility grid on a continuing, 24/7/365 basis. When no utility grid is available, the main facility bus will disconnect from the utility, and the CHP plant will be able to restart and support the main facility bus in grid island mode.

## Project Highlights

The general contractor A/Z corp adopts the same design as the Hunterdon Hospital CHP project in New Jersey.

Because of the outstanding performance, reliable operation and superior after-sales service, BROAD chiller has achieved exemplary and reproducible in the hospital CCHP application, which is conducive for promotion in the industry.



## 项目背景

罗伯特·伍德·约翰逊大学萨默塞特医院成立于1899年，位于新泽西州萨默维尔市，是一家经国家认证的地区医疗中心，拥有355张病床，为新泽西州中部居民提供各类综合急救、医疗/外科和康复服务。萨默塞特医院是RWJ Barnabas医疗系统的一部分，是新泽西州最综合性的医疗服务组织，每年超过300万名患者。巴纳巴斯健康公司是新泽西州第二大私营雇主，拥有32,000多名员工、9,000名医生和1,000名住院医师和实习生。由于其独特的价值和安全性，它经常被授予国家奖项。

## 机组信息

制冷量: 160 RT

机型: BDH48XII-86.1/96.1-37.8/29.4-6.7/12.2-Fa-Ma-75

热源水: 发电机缸套水废热(缺发电机品牌)

## 项目简介

医院将安装一套新冷热电联产系统，包括1.5MW燃气发电机、热蒸汽锅炉、160 冷吨单效热水机等，为医院提供电力、蒸汽、热水和冷水，提高能源系统可靠性。

在电网正常运行期间，冷热电联产系统与电网全年不间断并行运行。当电网发生故障时，医院总线将与电网断开连接，冷热电联产系统将以孤岛模式重启并为医院总线供电。

## 项目亮点

该项目总包方采用了与新泽西亨特顿医院CHP项目相同的设计。因远大机组的出色性能、可靠运行和优质的售后服务实现了远大机组在医院CHP应用上具有示范性和可复制性，有利于在业内推广。



# Oakland University Project



## Project Background

Oakland University is a public research university in Rochester Hills, Michigan. It is the second largest university in the Detroit Metropolitan Area with 20,012 students and it is classified among "R2: Doctoral Universities – High research activity." The university offers 132 bachelor's degree programs and 138 professional graduate certificate, master's degree, and doctoral degree programs. Oakland University was created in 1957 when the heiress to the Dodge automaker.

## Project Description

Varner Hall serves as the site of Oakland University's School of Music, Theatre, and Dance and originally fine arts libraries into its five stories. The Varner Recital Hall presents a host of professional and student performances throughout the year. There is a central heating plan based on Cogeneration. BROAD Hot Water Absorption chiller is considered to replace an old existing electrical chiller for cooling of the nearby buildings.

## BROAD Chiller Information

Cooling capacity: 435 RT

Model: BDH 150

Heat source: Hot Water from Cogen  
Waste Heat Recovery Boiler

## Project Highlights

BROAD's superior metallurgy with great features and BROAD USA' local service support provided in the United States impressed the university. It would be BROAD's first unit in the state of Michigan. This is a Design & Build project by Stantec Engineers and BROAD Absorber is the very important part of the revamped 1969 central cooling plant. This will be a landmark installation of BROAD in a Michigan Campus providing strong reference to other several universities in the area.



缺机房照片

## 项目背景

奥克兰大学是一所位于密歇根州罗彻斯特的一所公立研究型大学，它是底特律都会区第二所大学，被卡内基高等教育机构列为“R2:高研究活动之博士授予大学”。奥克兰大学提供132个学士学位课程和138个硕士及博士学位课程，现有近2万名注册学生。占地8200平方，成立于1957年，学校最初隶属于密歇根州立大学，1963年更名为奥克兰大学，在2021年《美国新闻与世界报道》全美公立大学排名156名。

## 项目介绍

Varner Hall是奥克兰大学音乐、戏剧和舞蹈学院的演奏厅和小剧场。Varner Hall演奏厅全年都会举办一系列专业和学生表演。在该项目中远大单效热水机将替换Varner Hall机房内现有的电冷机，利用学校能源站热电联产系统的热水作为热源为附近的建筑物提供制冷。

## 机组信息

制冷量: 435 RT

机型: BDH 150

热源: 学校热电联产系统中余热锅炉热水

## 项目亮点

远大卓越的产品质量和专业的本地服务支持给大学留下了深刻印象，这将是远大在密歇根州的第一个项目。远大机组是学校中央能源站的非常重要一部分，帮助学校实现节能减排，绿色校园的可持续发展目标。同时也是远大在美国五大湖区一项里程碑式项目，进一步开拓了远大在美国的业务版图，同时也为该地区的其他几所大学提供强有力的参考。

# Kemofarmacija McKesson, Ljubljana, Slovenia



**Unit: BROAD Multi-source absorption chiller  
BHE20-d**

**Delivery Time: June 2021**







## Project Background:

Kemofarmacija was founded in 1947 as a state-owned enterprise. Today, the company is the largest pharmaceutical wholesaler on the Slovenian market. Kemofarmacija has been part of McKesson Europe since 2004.

With its rich tradition and expertise, Metalna power® focuses on the production of high-end CHP and CCHP units. The purpose of founding Metalna power® is becoming a regional leading company in the field of projecting, production and management of power generation machines. They established good business relationship in Ex-Yugoslavian countries, Russia, Iraq, Azerbaijan, Albania and Bulgaria.

## Project Description:

By the development of Kemofarmacija, the cooling demand increased, the customer required a multi-energy chiller to extend their co-generation system and to recycle the waste heat of jacket water and exhaust gas from a gas turbine on site.

## BROAD unit Information:

Heat sources:

430°C Exhaust gas + 90°C Jacket Water from gas turbine

Cooling Capacity:

234kW (99kW from jacket water + 135kW from exhaust gas) Jenbacher

Rated Cooling efficiency:

0.78 (jacket water part) / 1.50 (exhaust gas part)

Unit Model: BHE20XII-160/430-80/90-31/25.5-8/13-d-20

Quantity: 1

## Project Highlights:

- Rare BHE type multi-source absorption chiller case in Europe.
- The compact design of BROAD chiller minimize the space occupancy and can be integrated into customer's old machine room.
- Discovery of Balkan market.

# Kemofarmacija McKesson (麦克森制药) – 斯洛文尼亚



**机组：远大BHE20多能源非电空调**

**发货日期：2021年6月**



## 项目背景：

Kemofarmacija成立于 1947 年，是一家斯洛文尼亚国有企业。时至今日，已发展成为斯洛文尼亚最大的药品批发商；并于2004年成为麦克森欧洲制（McKesson Europe）的子公司。

Metalna Power公司拥有丰富的传统和专业知识和，始终专注于高端 CHP 和 CCHP 机组的生产。成立Metalna Power的目的是成为发电设备规划、生产和管理领域的区域领先公司。目前他们在前南斯拉夫国家、俄罗斯、伊拉克、阿塞拜疆、阿尔巴尼亚和保加利亚建立了良好的业务关系。

## 项目概述：

随着 Kemofarmacija 的发展，制冷需求增加，客户需要一个非电空调来回收其热电联产系统的缸套水和烟气的废热。Jenbacher.

## 机组信息：

热源：430°C 烟气 + 90°C 缸套水

制冷量：234kW (99kW 来自缸套水+ 135kW来自烟气)

额定制冷COP：0.78 (缸套水) / 1.50 (烟气)

机型：BHE20XII-160/430-80/90-31/25.5-8/13-d-20

台数：1

## 项目亮点：

- 欧洲为数不多的BHE非电空调
- 远大的紧凑型设计，可适宜用户的既有机房空间
- 巴尔干市场的开拓



## Project Background:

International innovative industries as a subsidiary of IMAN group, KSA, is a manufacturer of automobile parts.

## BROAD chiller Information:

Cooling capacity: 2,209kW

Heating capacity: 2,263kw

Model: BZHEY189XII460-80/90-37/30-7/12-k-200

Heat source: Exhaust & jacket water(MWM)



## Project Description:

Absorb the heat of exhaust and jacket water from diesel genset, direct fired burner as back up, to supply the cooling to the factory and offices. One more BROAD PACKAGED SOLUTION application in KSA: chiller, packaged pumpset and cooling tower.

## Project highlights:

The first application in industry sector of KSA, means a lot to promote the chiller in industry sector of KSA. BROAD PACKAGED SOLUTION will reduce 40%-50% operation cost for customer comparing to conventional design.





## 用户背景:

沙特创新工厂隶属于沙特IMAN集团, 主要生产汽车零部件, 是沙特为数不多的制造工厂。

## 机组信息:

制冷量: 2,209kW

制热量: 2,263kw

机型: BZHEY189XII460-80/90-37/30-7/12-k-200

驱动热源: 烟气, 缸套水(MWM)



## 项目简介:

吸收工厂发电机的烟气和缸套水的热量,用于工厂和办公楼的制冷和制热, 直燃补燃, 是远大在沙特市场又一个一体化解决方案: 空调, 一体化泵组和冷却塔。

## 亮点:

沙特第一个工业项目的案例, 对于在沙特工业领域的推广有非常重要的意义。同时远大一体化方案将给客户每年的空调运行能耗相对传统设计降低40-50%。



## Project Background:

The Company was incorporated on 18 November 1984 as a private limited company in Pakistan and subsequently converted into a public limited company on 30 December 1987. The principal activity of the Company is manufacturing and sale of Plastic and Crown Caps and Polyester Staple Fiber.

## BROAD chiller Information:

Cooling Capacity: 1,857 kW

Model No.: BHE160XII440-80/88-37/32-9/14-d-200

Heat source: Genset Waste (Flue gas and jacket water)



## Project Description:

Broad offers Multi Energy (Duplex Exhaust + Jacket Water) Chillers to recover heat from 2 MW MTU and 1 MW engines. Increasing Plant Efficiency from 42 % to 81%. Replacing Existing Electric chiller with Recovery chiller saving drastic operational cost.

## Project highlights:

PSL Pet, is a Prestige Customer for Broad A/C Since 2006, Our 2 Nos Broad Jacket Heat recovery Chiller installed on Jenbacher Engines.

In their new expansion of Production Plant PSL Still choose Broad because of our services and product reliability.



## 项目背景:

巴合成材料公司成立于 1984 年 11 月 18 日，是在巴基斯坦注册的一家私人有限公司，随后于 1987 年 12 月 30 日转变为一家公共有限公司。公司的主要业务是制造和销售塑料和皇冠帽以及聚酯短纤维。

## 设备信息:

制冷量:1,857 kW

机型: BHE160XII440-80/88-37/32-9/14-d-200

热源: 发电机组废热 (烟气和缸套水)



## 项目介绍:

远大多能源机组同时回收一台 2 MW 和一台 1 MW MTU 发电机废热 (烟气 + 缸套水)，将工厂效率从 42% 提高到 81%。用回收废热的冷水机替换原有的电制冷机，节省大量运营成本。

## 项目亮点:

自 2006 年以来，巴合成材料公司一直是远大空调的重要客户，我们的废热机组安装在颜巴赫发电机组上。在客户新扩建的生产工厂中，仍然坚持选择远大，因为信任远大的服务以及产品可靠性。



# SYNTHETIC LIMITED (CAPS), PAK-PORT QASIM, PAKISTAN



## Project Background:

The Company was incorporated on 30 December 1987. Situated in North west industrial zone of Port Qasim Town. PSL(CASP) provides bottlers capping solutions Crown Caps & Closure Cap.

## BROAD chiller Information:

Cooling Capacity: 1055 kW

Model No.: BHE91XII410-82/88-37/32-7/12-d-125

Heat source: Genset Waste (Flue gas and jacket water)



## Project Description:

Broad offers Multi Energy (Exhaust + Jacket Water) Chiller on (1 MW) JGS 420 Engine. Increasing Plant Efficiency from 39 % to 75%. Replacing their existing Shuangliang recovery Chiller to more reliable and efficient Broad Product.

## Project highlights:

Customer using Shuangliang Multi energy Chiller for Centralized Air conditioning but due to machine leakage and Operational troubles customer replaced Shuangliang with Broad Multi Energy Chiller.



## 项目背景:

巴基斯坦合成材料二期公司于1987年12月30日注册成立，项目位于卡西姆港镇西北工业区。公司主要提供瓶盖解决方案主要包括皇冠盖和封盖。

## 设备信息:

制冷量:1055 kW

机 型： BHE91XII410-82/88-37/32-7/12-d-125

热源:发电机组废热（烟气和缸套水）



## 项目介绍:

远大为客户 (1 MW) JGS 420 发动机提供多能源（排气 + 缸套水）制冷机组。将工厂效率从 39% 提高到 75%。将他们原有的双良热回收冷水机组更换为更可靠、更高效的远大产品。

## 项目亮点:

客户之前原先使用双良多能源冷水机进行集中制冷，但由于双良机组泄露和诸多操作故障，客户将双良机组更换为远大多能源冷水机组。

# ALKARAM TEXTILE, PAK-NOORIABAD, PAKISTAN



## Project Background:

Alkaram Textile Mills was setup to provide innovative textile solutions across the globe For more than 35 years. It is the largest vertically integrated textile setup in Pakistan. It is one of Pakistan's largest consumer of Organic Cotton & Better Cotton Initiative (BCI) cotton.

## BROAD chiller Information:

Cooling Capacity: 1590 + 1100 kW  
Model No.: BE137XII442-37/32-7/12-d-200  
+ BDH95XII82/90-37/32-7/12-150  
Heat source: Genset Waste (Flue gas and jacket water)



## Project Description:

Broad offers 2 Nos Chiller Duplex Exhaust & Jacket Water Chiller on 1.5 MW x 2 Engines of MTU 12V L64. Increasing Plant Efficiency from 43.5 % to 81 %. Customer will utilize the chilling for their newly made Air Jet loom plant.

## Project highlights:

Alkaram textile was a user of Numerous Brands of Chillers (LG, Shuangliang, Century etc.) But Alkaram Textile Choose Broad for their new factory in Nooriabad Over other Brands because of its product reliability and strong market presence.





## 项目背景:

阿兰姆纺织致力于在全球范围内提供创新的纺织解决方案，已有35年的历史。它是巴基斯坦最大的垂直整合纺织机构。它是巴基斯坦最大的有机棉和良好棉花倡议 (BCI) 棉花消费国成员之一。

## 设备信息:

制冷量: 1590 + 1100 kW  
机型: BE137XII442-37/32-7/12-d-200 + BDH95XII82/90-37/32-7/12-150  
热源: 发电机组废热 (烟气和缸套水)



## 项目介绍:

远大为客户 1.5 MW x 2 MTU 12V L64 发电机提供 2 台烟气热水型制冷机组。将工厂效率从 43.5% 提高到 81%。客户将用制冷机为他们新制造的喷气纺织机工厂供冷。

## 项目亮点:

阿兰姆纺织工厂拥有众多品牌冷水机，如 LG、双良、世纪等，但阿兰姆纺织选择 远大作为他们在诺里亚巴德的新工厂的供应商，拒绝了其他品牌，因为客户认可远大产品可靠性和强大的市场品牌效应。

# ADAMJEE ENTERPRISES, PAK-NOORIABAD, PAKISTAN



## **Project Background:**

ADAMJEE ENTERPRISES cover wide range of product for Home Textiles, Quilters and Pillow producers, Converters & Importers and for Hotel and Health Care sector. They are expanding their factory in Nooriabad with 240 Air jet looms.

## **BROAD chiller Information:**

Cooling Capacity: 810 kW

Model No.: BDH70XII80/90-100

Heat source: Genset Waste (jacket water)



## **Project Description:**

Broad offers Hot water Chiller designed on 1.5 MW Engine MTU 12V L64. Increasing Plant Efficiency from 43.5 % to 63 %.

Engine Exhaust will be used in WHRB for process use.

## **Project highlights:**

Adamjee textile was a user of Shuangliang chiller, But for their new expansion Adamjee textile choses Broad for their new factory in Nooriabad. Over other Brands because of its product reliability and strong market presence.



## 项目背景:

亚当吉纺织生产涵盖范围广泛的产品，适用于家用纺织品、绗缝和枕头生产商、加工商和进口商以及酒店和医疗保健行业。他们正在用 240 台喷气织机扩建他们在诺里亚巴德的工厂。

## 设备信息:

制冷量: 810 kW

机型: BDH70XII80/90-100

热源: 发电机组废热 (缸套水)



## 项目介绍:

远大为客户提供基于 1.5 MW 发动机 MTU 12V L64 设计的热水制冷机组。将工厂效率从 43.5% 提高到 63%。新的机组将运用于客户WHRB的工艺过程。

## 项目亮点:

亚当吉纺织是双良冷水机的用户，但为了他们的新扩张，亚当吉纺织选择了远大为他们在诺里亚巴德新工厂的供应商。排除了其他品牌，因为客户认可远大产品可靠性和强大的市场品牌效应。



# Grand Palladium Resort & Spa, Montego, Jamaica



## Project Background:

A well-known hotel chain group with a focus on environmental protection and energy efficiency, with chains in Mexico, Jamaica, and the Dominican Republic.

## BROAD chiller Information:

Cooling capacity: 1582kW

Model No.:

BE136XII414-35/29-6/12-d-150 \* 1 Heat source: Exhaust (Jenbacher)



## Project Description:

BROAD non-electric chiller use generator waste exhaust gas as a driving heat source to provide cooling for hotels, increasing the energy ladder utilization and maximizing energy utilization..

## Project highlights:

The project is based on the high efficiency and reliability of BROAD's flue gas units, as well as the perfect and timely after-sales service, and the customer signed a 5-year extended warranty with BROAD at the same time as placing the order.

# 牙帕拉迪姆酒店，蒙特哥贝，牙买加



## 用户背景:

知名连锁酒店集团，注重环保节能，在墨西哥、牙买加、多米尼加共和国都有连锁酒店。

## 机组信息:

制冷量: 1582kW

机型: BE136XII414-35/29-6/12-d-150 \*  
1

驱动热源: 烟气 (Jenbacher)

## 项目简介:

远大非电制冷机组利用发电机废热烟气作为驱动热源，为酒店提供制冷，增加能源梯级利用率，把能源利用率提高到最大。

## 项目亮点:

该项目看重的远大烟气机组的高效、可靠性，以及完善及时的售后服务，下单的同时客户与远大签订了5年的延保服务。



# Alkaram Towels, Nooriabad (2 Sites), PAKISTAN



## Client Detail:

Al Karam Towel Industries (Pvt.) Ltd. is one of the world's leading manufacturers of towels and textile made ups. With hundreds of machines and industrious employees and annual turnover in millions of dollars. Al Karam Towels is the preferred supplier for towel and related products across the world.

## Project Description:

- Client has installed new Autocoro Machines in two new factories.
- One site has two CAT3512H engines.
- Second site has CG170 & CAT3512H engines.
- Jacket water recovery was required.
- 200 RT on one site and 400 RT on second site.
- Main competitor was Shuangliang. (existing)
- BROAD showed better COP and won both orders on basis of quality and transparency.

## BROAD chiller Information:

Cooling Capacity: 2,433kW (692 RT)

Model No.: BDH75XII83/90-37/32-7/12-100

BDH135XII80/90-7/12-200

Heat source: Jacket Water of CAT engines

## Benefits Of BROAD:

BROAD addresses common concerns of clients e.g tube leakages, low efficiency, fault diagnosis, quality assurance etc. Following are the advantages of BROAD Chillers that impressed client:

- Titanium Tubes (Rust free, no risk of leakage)
- High COP. Efficient Cooling. (screen display)
- Reliability. Great safety measures.
- Online Monitoring.
- Solution Sampling.
- Value to Money.

## Green Initiative:

With BROAD chiller client reduces 11 million kg/year CO2 emissions. This is equal to planting 0.6 million trees. This is also in accordance with Government's initiative of a Green Pakistan.





## 用户信息

Al Karam Towel Industries (Pvt.) Ltd. 是世界领先的毛巾和纺织品制造商之一。拥有数百台机器和勤奋的员工，年营业额达数百万美元。Al Karam Towels是全世界毛巾及相关产品的首选供应商。

## 项目信息

- 客户在两个新工厂安装了新的生产设备。
- 第一个工厂为两台CAT3512H发电机。
- 第二个工厂为CG170和CAT3512H发电机。
- 发电的同时，缸套水需要回收。
- 制冷量的需求分别为200RT和400RT。
- 主要的竞争对手是双良公司。(现有机组品牌)
- 因为BROAD的COP更高，并且机组质量和采购流程透明度都更高，所以赢得了两个订单。

## 机组信息:

制冷量: 2,433kW (692 RT)

机型.: BDH75XII83/90-37/32-7/12-100

BDH135XII80/90-7/12-200

驱动热源: 缸套水

## 项目亮点:

远大解决了客户普遍关心的问题，如泄漏问题、效率低、故障诊断、质量保证等。

以下是给客户留下深刻印象的BROAD机组的优点:

钛管 (不生锈，没有泄漏的风险)

高COP。高效制冷。(可屏幕显示)

可靠性。有很好的安全措施。

联网监测。

溶液取样检测。

物超所值。

## 绿色倡议

远大制冷机可帮助客户减少每年1,100万kg的二氧化碳排放。这相当于种植了60万棵树。完全符合政府关于绿色巴基斯坦的倡议。



## Client Detail:

International Packaging Films Limited. (IPAK) is a green field project started operations in 2017 in Lahore, Pakistan. Company with a capacity of 40,000 tons per annum is in the business of manufacturing BOPP films of various grades and thickness ranging 10 to 50 microns.

## Project Description:

- Client has expanded its manufacturing plant. Therefore, additional chiller required. New BOPP machines were installed.
- 1 x CG170 engine was purchased for power requirements of extension.
- Waste heat recovery chiller solution was required of approx. 450 RT net capacity.
- Client was looking for one hot water chiller and one exhaust chiller.

## BROAD chiller Information:

Cooling Capacity: 1,663kW (473 RT)

Model No.: BHE143XII420-78/88-37/32-7/12-d-200

Heat source: Exhaust+ Jacket Water of CG170

## BROAD Suggestion & Benefits:

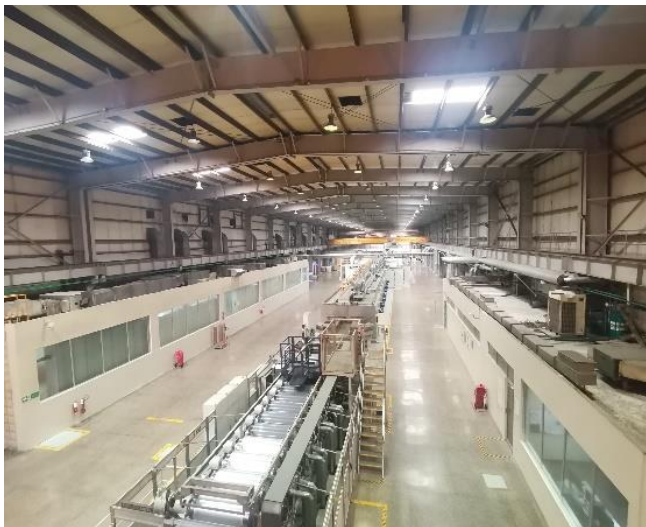
Instead of two separate chillers, BROAD suggested an option of Multi-energy chiller which utilizes engine exhaust & jacket water simultaneously in one chiller. Following are the benefits of BROAD's suggested chiller:

- Less liability. Space & CAPEX saved.
- Titanium Tubes (Rust free, no risk of leakage)
- High COP. Efficient Cooling. (screen display)
- Reliability. Great safety measures.
- Smart Chiller controlling.
- Online Monitoring.
- Solution Sampling.

## Green Initiative:

With BROAD chiller client reduces 8 million kg/year CO2 emissions. This is equal to planting 0.4 million trees. This supports Green field status of the project.





## 用户信息:

IPAK是一个绿色项目，于2017年在巴基斯坦拉合尔开始运营。公司的年产能可为40,000吨，生产10至50微米各种等级和厚度的BOPP薄膜。

## 项目信息:

- 客户为了扩大产能，安装了新的BOPP机器。因此，增加制冷量。
- 同时安装了1台CG170发动机以满足扩建后的电力需求。
- 需要约450RT制冷量的余热回收解决方案。
- 客户需要一台吸收式热水机和一台烟气机。

## 机组信息:

制冷量: 1,663kW (473 RT)

机型.: BHE143XII420-78/88-37/32-7/12-d-200

驱动热源: 烟气+缸套水

## 项目亮点:

BROAD用多能源制冷机来代替两个单独的冷水机，用一台机器同时回收发电机的烟气和热水。

以下是BROAD机组的优点:

减少责任方。节省空间和资本支出。

钛管（不生锈，无泄漏风险）。

高COP。高效制冷。（屏幕显示）

可靠性高

智能控制。

联网监测。

溶液取样。

## 绿色倡议

BROAD制冷剂机帮助客户每年减少了800万公斤二氧化碳排放。这相当于种植了40万棵树。保证该项目成为绿色项目。。





## Client Detail:

Mehran Plastic Industries Pvt Ltd was established in 1958. Manufacturing Crown Corks for Beverages Industries and Collapsible Tube for Pharmaceuticals & Cosmetics Industries.

## Project Description:

- Client has expanded its manufacturing plant. Therefore, additional chiller required.
- MTU engine installed at site.
- 250 RT chilling required.
- BROAD suggested exhaust chiller for better efficiency.



## BROAD chiller Information:

Cooling Capacity: 880kW (250 RT)

Model No.: BE75

Heat source: Engine Exhaust (MTU)

## Benefits Of BROAD:

BROAD suggested solution to client for less liability and CAPEX saving. Following are some advantages of BROAD Chillers:

- Titanium Tubes (Rust free, no risk of leakage)
- High Operational Savings.
- High COP. Efficient Cooling. (screen display)
- Reliability. Great safety measures.
- Smart Chiller controlling.
- Online Monitoring.
- Solution Sampling.
- Value to Money.



## 用户信息:

迈赫兰塑料成立于1958年, 生产用于饮料行业的冠状瓶塞和医疗、化妆行业的可折叠软管。

## 项目信息:

- 用户扩大了产能, 因此, 需要额外的制冷量。
- 安装了MTU 发电机
- 新增制冷量为250 RT.
- 远大建议直接使用烟气机

## 机组信息:

制冷量: 880kW (250 RT)

机型.: BE75

驱动热源: 发电机烟气(MTU)

## 项目亮点:

BROAD为客户提供了完整解决方案, 以减少责任方并节省资本支出。以下是BROAD机组的一些优势:

钛管 (不生锈, 没有泄漏的风险)

节省运营成本。

高COP。高效制冷。(屏幕显示)

可靠性高。

智能控制。

联网监测。

溶液取样。

物超所值。

# KASSIM



## Client Detail:

Kassim Denim Mills is a state of the art, vertical producer of denim fabric. Kassim Denim produces world class denim fabric.

## Project Description:

- Client has expanded its manufacturing plant. Therefore, additional chiller required.
- 4 x MTU16V engines installed at site.
- Steam is produced from Engine Exhaust.
- Jacket Water of 2 engines available for recovery.
- Client had also been using absorption chillers of another Chinese Brand for some time.
- Client opted for BROAD this time because we showed the quality of product and services. Client realized that BROAD gives efficient product which fulfills necessary requirements of reliable, safe and cost-efficient operation while Other Brands fail to provide.

## BROAD chiller Information:

Cooling Capacity: 1,868kW (531 RT)

Model No.: BDH161XII75/90-37/32-7/12-300 \* 1

Heat source: Jacket Water of 2 x MTU 16V

## Benefits Of BROAD:

BROAD addresses common concerns of clients e.g tube leakages, low efficiency, fault diagnosis, quality assurance etc. Following are some advantages of BROAD Chillers:

- Titanium Tubes (Rust free, no risk of leakage)
- High Operational Savings.
- High COP. Efficient Cooling. (screen display)
- Reliability. Great safety measures.
- Smart Chiller controlling.
- Online Monitoring.
- Solution Sampling.
- Value to Money.

## Green Initiative:

With BROAD chiller client reduces 9 million kg/year CO2 emissions. This is equal to planting 0.5 million trees. This is also in accordance with Government's initiative of a Green Pakistan.



# KASSIM



## 用户信息:

卡思纺织是一家非常先进的，生产世界一流牛仔布的公司。

## 项目信息:

- 客户因产能扩展，需要额外的制冷量。
- 新安装了4台 MTU16V 发电机
- 用发电机烟气来生产蒸汽
- J2台发电机的缸套水也可用来回收热量
- 客户之前采购过另一个中国品牌的吸收式制冷机。
- 客户最终选择远大是因为看到了我们机组的高品质和良好的售后服务。意识到，BROAD的产品比其他品牌更可靠、更安全，运行成本效益更高。

## 机组信息:

制冷量: 1,868kW (531 RT)

机与时俱进: BDH161XII75/90-37/32-7/12-300 \* 1

驱动热源: 缸套水

## 项目亮点:

远大解决了客户普遍关心的问题，例如：管子泄漏、效率低、故障诊断、质量保证等。以下是BROAD制冷机的一些优势：

钛管（不生锈，没有泄漏的风险）

节省运营成本。

高COP。高效制冷。（屏幕显示）

可靠性高

智能控制。

联网监测。

溶液取样。

物超所值。

## 绿色倡议

BROAD冷水机每年为客户减少900万公斤的二氧化碳排放。这相当于种植了50万棵树。符合政府关于绿色巴基斯坦的倡议



## Project Background:

National Polymer is one of the premier conglomerates in Bangladesh. producing PVC pipe, PPR pipe, CPVC pipe and household products, take more than 30% market share in Bangladesh for PVC and PPR pipe

## BROAD chiller Information:

Cooling Capacity:3,510kW  
Model No.: BHE151XII412-80/88-37/32-8/14-d-150\*2  
Heat source: Exhaust & jacket water(Waukesha)



## Project Description:

Absorb the heat of exhaust and jacket water from NG genset, to supply the cooling to the factory and offices.

## Project highlights:

The first application in polymar industry of Bangladesh. one more case in new industry except convetional textile industry



## 用户背景：

孟加拉国家聚合物集团是孟加拉大型集团公司，主要产品是PVC管，PPR管，CPVC管，和家居产品。PVC管和PPR管的市场占有率超过30%。

## 机组信息：

制冷量: 3,510kW

机型: BHE151XII412-80/88-37/32-8/14-d-150\*2

驱动热源: 烟气和缸套水 (Waukesha)



## 项目简介：

用于客户PVC管工厂的工艺制冷以及办公区的舒适制冷，驱动热源来自于发电机的烟气和缸套水，是一个典型的CHP案例。

## 亮点：

在孟加拉PVC行业第一个案例，除传统的纺织行业外，开辟了孟加拉国另外一个新的行业运用。





## Project Background:

Paramount Group of companies which established in 1986 has always been praised for their professionalism, code of conduct and quality products. Paramount Textile has been awarded the “National Export Trophy” for several years since its inception.

## Project Description:

Absorb the heat from EGB boiler, to supply the cooling to the factory.

## BROAD chiller Information:

Cooling Capacity: 2,179kW

Model No.: BS181XII0.8-37/32-8/14-200

Heat source: Steam (CAT)

## Project highlights:

Replace the SL exhaust chiller, a great victory over SL, and win another distinguished customer in Bangladesh and take the chance to promote the good reputation of BROAD





## 用户背景:

帕拉集团公司成立于1986年, 一直以其专业、规范的行为和优质的产品而受到赞誉。帕拉纺织自成立以来, 连续几年荣获“全国出口产品奖”。

## 机组信息:

制冷量: 2,179kW  
机型: BS181XII0.8-37/32-8/14-200  
驱动热源: 蒸汽(CAT)

## 项目简介:

替换双良的烟气机, 吸收余热锅炉产生的蒸汽, 产生的冷水用于工厂的工艺制冷。

## 亮点:

替换双良的烟气机, 意义重大, 又一次宣传远大高质可靠的案例, 同时又锁定了一个优质客户。



# Far East Spinning Mills Ltd, Bangladesh



## Project Background:

Established in 1994, has evolved from a small garments manufacturing plant, into one of the leading composite textiles industry in the country, with integrated, knitting, high end dyeing, state of the art printing, pigment dyeing & garment washing .



## Project Description:

Absorb the heat of exhaust and jacket water from NG genset, to supply the cooling to the factory and offices.

## BROAD chiller Information:

Cooling capacity: 3,299kW

Model: BHE284XII408-80/88-37/32-8/14-d-300

Heat source: Exhaust & jacket water(MWM)

## Project highlights:

A new high-end customer in Bangladesh textile industry, also it is our local agent coordinate the international financing for customer, very good cooperation model.





## 用户背景:

远东纱线成立于1994年，从一家小型服装生产厂，发展成为国内领先的综合纺织、针织、高档染色、先进的印花、颜料染色和服装洗涤。

## 项目简介:

吸收工厂发电机的烟气和缸套水的热量用于制冷和制热用于工厂和办公楼。



## 机组信息:

制冷量: 3,300kW

机型: BHE284XII408-80/88-37/32-8/14-d-300

驱动热源: 烟气, 缸套水(MWM)

## 亮点:

在孟加拉纺织行业又一个高质量的新客户，而且该项目是当地代理替客户协调的海外融资，非常好的一个项目运作案例。



## Project Background:

With a mission of providing very high quality knit apparel to the international market, Knit Concern(KC) Group emerged in 1990 and has started manufacturing and exporting since 1992 . Now is a quality reputed company in Bangladesh

## BROAD chiller Information:

Cooling capacity: 3,650kW

Model: BHE157XII420-82/90-37/32-7/12-d-200\*2

Heat source: Exhaust & jacket water(CAT)



## Project Description:

Absorb the heat of exhaust and jacket water from NG genset, to supply the cooling to the factory and offices.

## Project highlights:

A repeated order for factory expansion from running customer. KC group is a very representative customer of BROAD in Bangladesh, helped a lot in case of reference visit



## 用户背景:

以向国际市场提供高品质针织服装为使命, knit Concern Group 于1990年成立, 并从1992年开始生产和出口。现在在孟加拉国是一家信誉良好的公司。

## 机组信息:

制冷量: 3,650kW

机型: BHE157XII420-82/90-37/32-7/12-d-200\*2

驱动热源: 烟气, 缸套水(CAT)



## 项目简介:

吸收工厂发电机的烟气和缸套水的热量用于制冷和制热用于工厂和办公楼。

## 亮点:

既有客户的后续项目,用于工厂扩张, 尼特集团是我们在孟加拉非常好的一个案例, 对于孟加拉的用户参观起了非常好的作用。





**Fabrication  
ongoing**

## Project Background:

Establish in 2015, as a new rising company in Bangladesh textile industry, and a subsidiary of S ALON group, one of top ten group in Bangladesh.

## BROAD chiller Information:

Cooling capacity: 4,890kW

Model: BE285XII497-37/32-8/13-d-300

BDH135XII80/90-37/32-8/13-200

Heat source: Exhaust & jacket water(MWM)

## Project Description:

Absorpt the heat of exhaust and jacket water from NG genset, to supply the cooling to the factory and offices.

## Project highlights:

A new quality customer in Bangladesh textile industry, a very good start for the cooperation of SALON group, who is developing very fast in textile sector now.



**Fabrication  
ongoing**

## 用户背景:

公司2015年成立，隶属于孟加拉S ALON，孟加拉排名前十的集团。为孟加拉纺织行业的新锐力量。

## 项目简介:

吸收工厂发电机的烟气和缸套水的热量用于制冷和制热用于工厂和办公楼。

## 机组信息:

制冷量: 4,890kW

机型: BE285XII497-37/32-8/13-d-300

BDH135XII80/90-37/32-8/13-200

驱动热源: 烟气，缸套水(MWM)

## 亮点:

孟加拉新签的高质量客户，其母公司S ALON实力雄厚，并且在纺织行业发展迅速，为开辟同S ALON集团的合作奠定好的基础。



### 项目背景：

孟加拉知名纺织企业，成立于1998年，主要生产毛衣和其他成衣。

### 机组信息：

制冷负荷：582kW

型号：BE50XII500-37/32-7/12-d-50

热源：烟气(Jenbacher)

### 项目概述：

客户新工厂的办公区需要使用空调。通过回收客户新工厂燃气发电机的烟气制冷

### 项目亮点：

- 1、CHP项目提高能源利用效率。
- 2、废热机，降低客户的空调能耗







## Project Background:

Well-known textile company in Bangladesh, established in 1998, mainly produces sweaters and other ready-made garments.

## BROAD Chiller Information:

Cooling capacity: 582kW

Model No. : BE50XII500-37/32-7/12-d-50

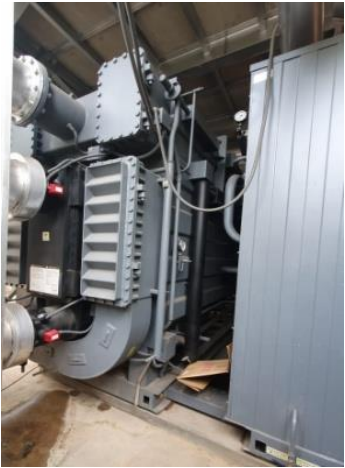
Heat source: Exhaust (Jenbacher)

## Project Description:

Air conditioning was required for the office area of the customer's new factory. BROAD exhaust chiller provides cooling by recovering the flue gas from the gas engine in the customer's new factory.

## Project Highlights:

1. CHP project improves energy efficiency.
2. Waste heat recycling chiller reduces customers' air conditioning energy cost.





### 项目背景:

隶属于孟加拉国大型集团公司S ALON, 实力强劲。同时近几年在纺织行业发展迅猛, 往孟加拉国纺织行业上游产品发展

### 机组信息:

制冷负荷: 6,514kW

型号: BE193XII500-37/32-7/12-d-200\*2

, BDH165XII-80/90-37/32-7/12-250

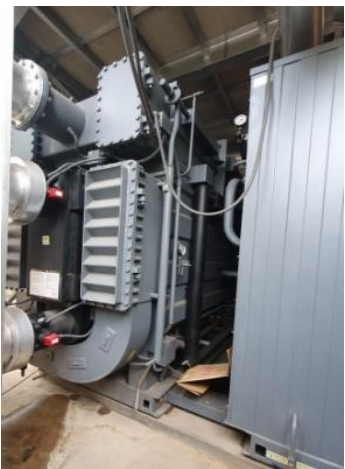
热源: 烟气, 缸套水(MWM)

### 项目概述:

客户新建一个复核纺织材料工厂, 生产车间需要工艺制冷, 对于制冷可靠性要求高。客户第一个纺织工厂选用的是SL的主机, 但是第二期选用了我们

### 项目亮点:

- 1、CHP项目提高能源利用效率。
- 2、废热机, 降低客户的空调能耗
3. 抢占竞争对手的既有客户中





নির্যোগ বিজ্ঞপ্তি

## Project Background:

It is subordinate to S ALON, a large group company in Bangladesh, with strong strength . In recent years, Infinia has been developing rapidly in textile industry , developing toward the upstream products of the textile industry in Bangladesh.

## Project Description:

The customer builds a new composite textile material factory. The production workshop needs process cooling, which requires high cooling reliability. The customer's first textile factory chose SL chiller, but the second phase chose BROAD.

## BROAD Chiller Information:

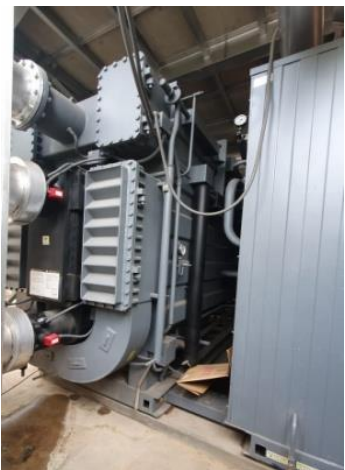
Cooling capacity: 6,514kW

Model No.: BE193XII500-37/32-7/12-d-200\*2  
BDH165XII-80/90-37/32-7/12-250

Heat source: Exhaust, Hot water(MWM)

## Project Highlights:

1. CHP project improves energy efficiency.
2. Waste heat recycling chiller reduces customers' air conditioning energy cost.
3. Capture competitors' existing customers.







## 项目背景：

韩安养热电厂是韩国安养地区最大的燃气发电站以及区域供热站，为该地区提供约500MW电力以及18万人口的集中供热。

## 机组信息：

制热量：31,086kW

型号：BDH550XI108/120-67.5/55-35/40-1000-R1\*2

热源：热水 (GE)

## 项目概述：

该电厂采用燃气涡轮发电机组以及蒸汽涡轮机组的燃气热电联合循环组合提供约500MW电力供应以及区域集中供热。远大为该项目提供2台热水型非电热泵，机组使用蒸汽涡轮机低压蒸汽换取的120度热水作为驱动热源，同时利用冷却塔散热或电厂制冷负荷作为低温热源来预热集中供热回水至67.5度，极大地降低了集中供热所需能耗从而提升了系统制热效率。

## 项目亮点：

- 1、燃气热电联合循环加非电热泵，最大程度降低碳排放
- 2、尽管受新冠疫情和恶劣天气条件的影响，项目提前实现了运营



# GS Power Anyang Phase 2, South Korea



## Project Background:

GS Power Anyang is the biggest gas fired power plant and district heating station in Anyang, South Korea, it supplies approximately 500 MW to the national grid as well as steam for district heating for over 180,000 citizens of Anyang City.

## Project Description:

This power plant utilized gas turbine genset and steam turbine genset which combined the heat and power to supply 500MW electricity and district heating. BROAD supplied 2 units of hot water absorption heat pump, the heat pump utilizes 120°C hot water from low pressure steam of steam turbine as the energy source, and recycles the heat from cooling tower or the cooling load in the power plant to preheat the return water of district heating system to 67.5 °C, which greatly reduces the energy consumption and increases energy efficiency of the district heating system.

## BROAD heat pump Info:

Heating capacity: 31,086kW

Model No.: BDH550XI108/120-67.5/55-35/40-1000-R1\*2

Heat source: Hot water (GE)

## Project highlights:

1. Gas fired heat & power combined cycle with absorption heat pump maximized the carbon emission reduction.
2. Despite COVID-19 pandemic and challenging weather conditions, project achieved the start of operation one week ahead of schedule



## 用户背景:

迈大集团（MAYORA 集团）成立于1977年，公司总部在印度尼西亚首都雅加达，现拥有3万名员工，是整个印度尼西亚、东南亚地区较大的快速消费食品制造商之一。

## 项目简介:

项目工厂位于印尼芝庇东，使用当地园区供电，电价持续上涨，为了减少生产能耗成本，提升效率，客户采纳了远大提议的冷热电联产系统，利用工厂既有发电机发电，废热由吸收式机组回收提供厂房制冷。经过多轮竞标，凭借多年成熟的CHP经验以及一体化方案，远大以价格最高，技术最优成功夺标

## 机组信息:

制冷量: 2,221kW

机型: BZHEY191XIID-160/472-78/90-37/30-5/10-d-400\*1

驱动热源: 天然气, 烟气, 缸套水

发电机品牌&发电量: MTU, 2MW

## 亮点:

1. 抓住低气电比时机，推动客户采纳燃气冷热电联产
2. 闲置发电机利用，提高客户投资效率
3. 全一体化供货减少现场安装时间和成本





# Mayora Indah Tbk, Cibitung, Indonesia



## Project Background:

PT Mayora Indah Tbk was established in 1977, headquartered in Jakarta, Indonesia with more than 30,000 employees. Mayora is the most rapidly developed fast consumption food manufacturer in Indonesia and South East Asia.

## Project Description:

The project factory is located in Cibitung, Indonesia, the electricity supply to the is from the industrial park with higher and higher price. In order to reduce the production energy cost and increase the efficiency, customer approved the CHP system proposal from BROAD to utilize the existing gen set for power generation and recycle all waste heat by absorption chiller. BROAD won the bidding with highest price and best technology



## BROAD chiller Information:

Cooling capacity: 2,221 kW

Model No.: BZHEY191XIID-160/472-78/90-37/30-5/10-d-400\*1

Heat source: NG, Exhaust gas, Jacket Water  
Genset brand & capacity: MTU, 2MW

## Project highlights:

- Catching the opportunity of low ratio between gas price and electricity price, promote CHP system
- Utilization of standby genset, increase customer investment efficiency
- Full packaged system with pump set and cooling tower to reduce onsite installation time and cost