



上海世博会全球合作伙伴
GLOBAL PARTNER OF SHANGHAI EXPO



BROAD covers an area of 100 hectares

BROAD Air Conditioning



BROAD Introduction

- A private enterprise with 2,000+ employees.
- Established in 1988 with US\$3,000.
- No.1 global seller of absorption chillers since 1996
- 25,000+ installations in 70+ countries.
- Nineteen straight years profitable, fourteen straight years loan-free and eleven straight years top tax payer among Chinese private companies.



BROAD & the World Expo Shanghai



BROAD was awarded “global partner” of World Expo Shanghai

BROAD & the World Expo Shanghai

WHAT IS LOW CARBON EXPO? NON-ELECTRIC AIR CONDITIONING

All pavilions use non-electric air conditioning.
Saving twice as much energy,
reducing 73,000 tons of CO₂.
The equivalent of planting 4,000,000 trees.

什么是 低碳世博? 非电中央空调

世博所有场馆采用
非电中央空调
节能 2 倍, 减碳 7.3 万吨
等于种 400 万棵大树



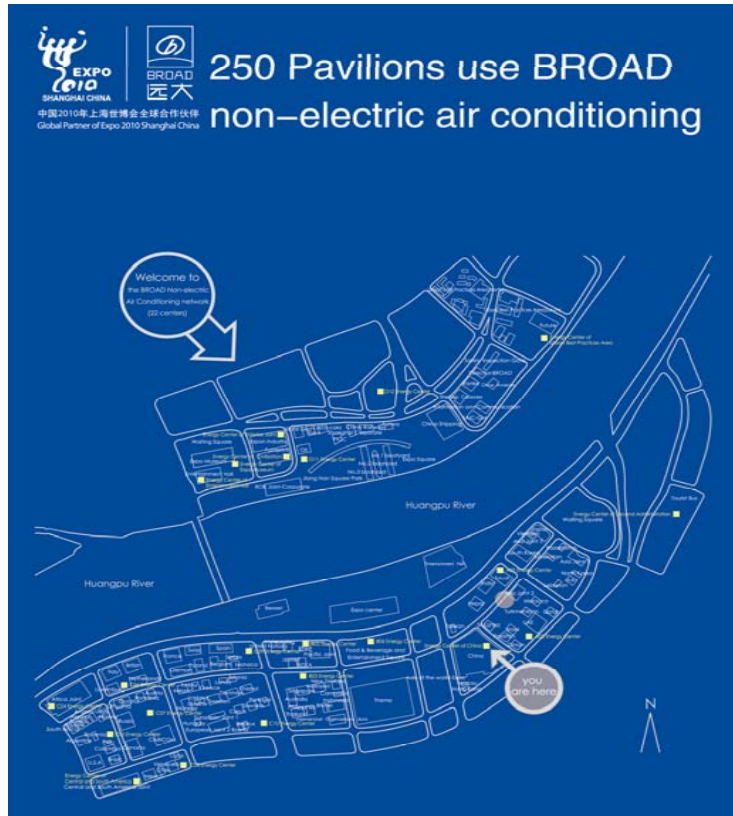
BROAD AIR CONDITIONING
远大空调有限公司 www.broad.com





上海世博会全球合作伙伴
GLOBAL PARTNER OF SHANGHAI EXPO

BROAD & the World Expo Shanghai



- Totally 22 Energy Centers
- Totally 170MW cooling capacity
- Totally 250 Pavilions served
- Totally 73,000ton CO2 emission cutting

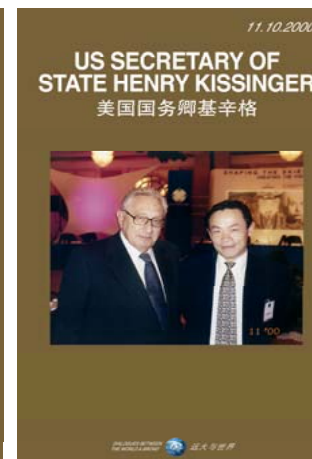
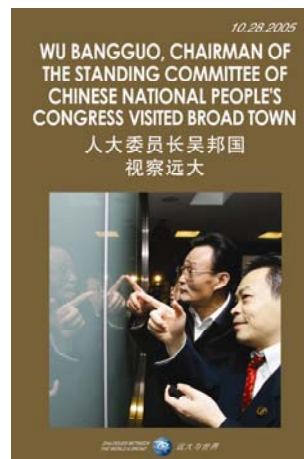
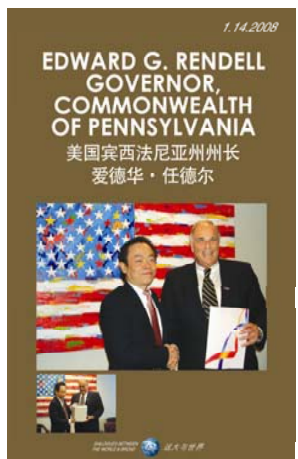
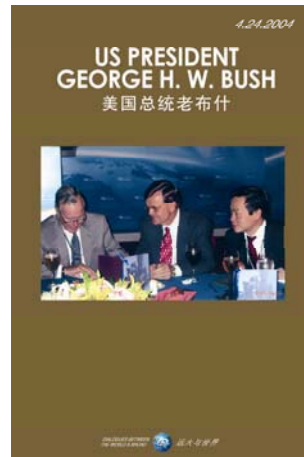
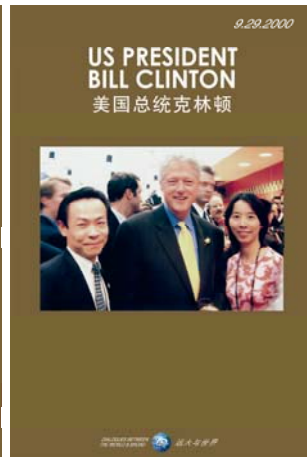
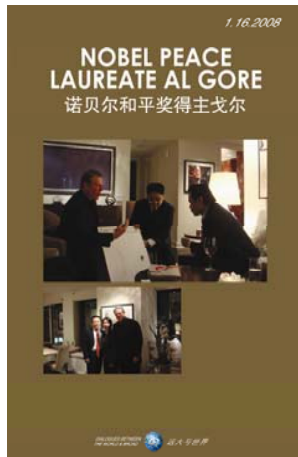


BROAD & the World



BROAD approaches and achievements in energy-saving technologies have been widely acknowledged by the world.

BROAD Introduction



Being UNEP SBCI Vice Chairman, BROAD Chairman is intensively involved in various international activities in energy crisis, climate changes, building energy-saving, etc.



上海世博会全球合作伙伴
GLOBAL PARTNER OF SHANGHAI EXPO

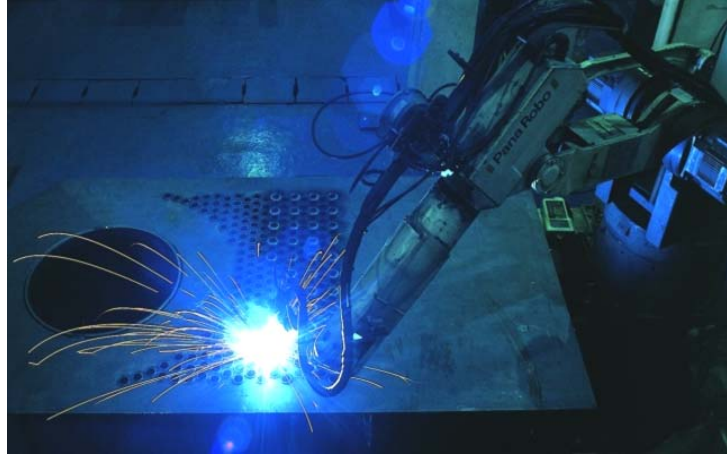
BROAD production lines



BROAD facilities



Robotic Welding



Digital Tube Bending Machine



Whole Unit Shot-blasting



Robot Painting Lines

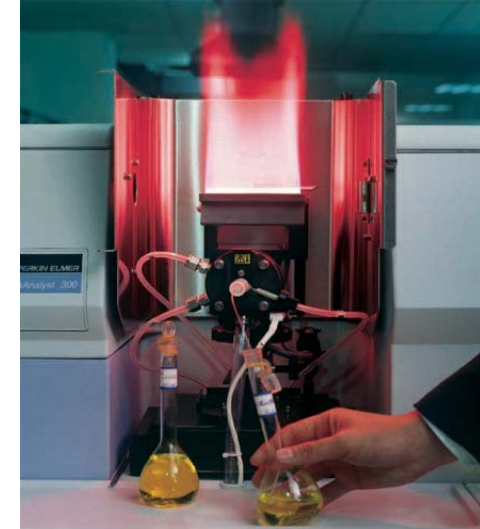
BROAD facilities



Optical Emission



Auto Material Testing Machine

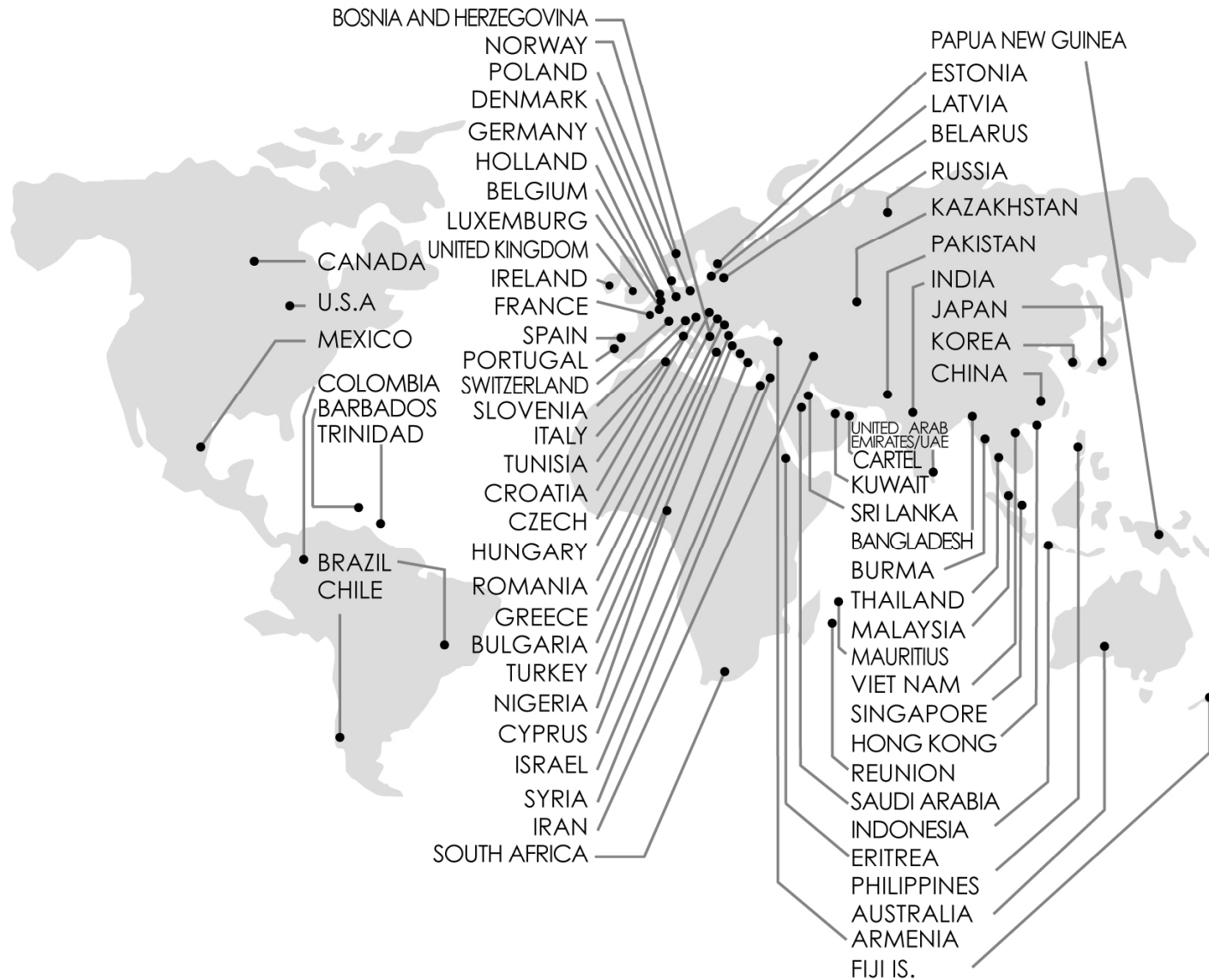


Atomic Absorption Spectrometer



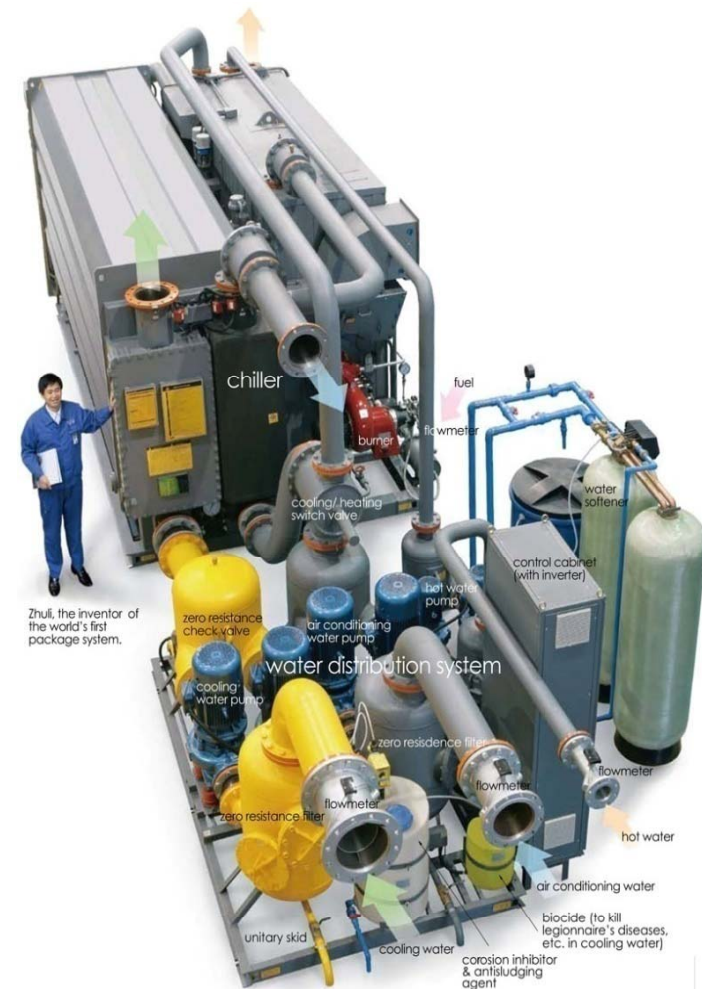
Whole Unit Testing Platform

BROAD Global Market



BROAD Packaged Pumpset with following features

1. Zero water resistance design. Inverter control further reduces the operating electricity consumption by 30-50% of the rated power demand.
2. Auto chemical dosing device charges biocide to the cooling water system automatically to eradicate legionnaire's diseases.
3. One-time investment solves all problems: design, purchase, installation, commissioning and 70-85% Footprint reduction.
4. Two pumps combined or separate operation by software analyzer. Inverter-controlled cooling water pump(s) and cooling tower fan(s) which are automatically adjusted according to load and ambient temperature.



BROAD Chillers

Natural Gas, Diesel, Biogas, and any Waste Heat over 85 deg C, like Exhaust from power generator, Hot Water, Steam or Solar Energy as energy inputs...





上海世博会全球合作伙伴
GLOBAL PARTNER OF SHANGHAI EXPO



BROAD District Cooling End User: Forum Barcelona, Spain
Cooling Capacity: 5 MW x 4 units, Energy: 0.7MPa Steam

BROAD Case--DLF Cyber City, India

Cooling System Introduction:

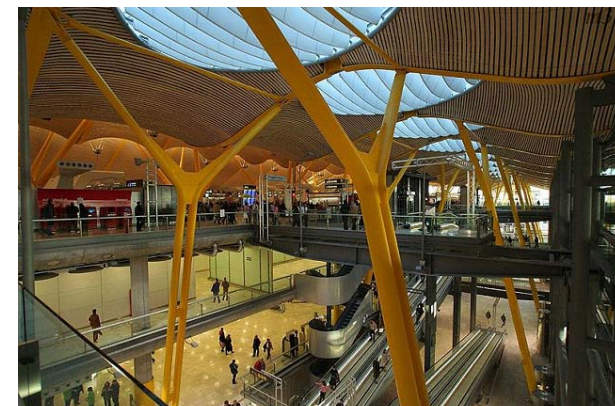
Building Area: 3 Million Sq. Meter
Chiller Quantity: 33 units
Total Cooling Capacity: 146.7MW/ 41,700RT
Energy Input: Waste Exhaust Gas, N.G.& Waste Hot Water
CO2 Emission Reduction: 36,000ton/year



BROAD Case--Madrid Airport, Spain

Project Introduction:

Building Area:	700,000 Sq. Meter
Chiller Quantity:	BDH300*6
Total Cooling Capacity:	20 MW/ 5,300RT
Energy Input:	Waste Hot Water



BROAD Case—Government Center, Korea

Project Introduction:

Model: BDH300 * 4; BDH75 * 1

Cooling Capacity: 14.8MW / 4216RT

Heat Input: 95°C Central Heating Water



BROAD Case—Enfidha Airport, Tunisia



Model: BHEY250 * 2 units
Cooling Capacity: 5.8MW / 1654RT
Heat Input: 464 °C Exhaust gas and
98 °C Jacket water from
Caterpillar 3520

BROAD Case---- Keoje Shopping Mall Korea



A biggest mall in Korea

Model: BZY50*11+BZY20*1
Cooling Capacity: 1,885Rt/ 6.6MW
Energy Source : Natural Gas



BROAD Case—Grodno Khim Phase III, Belarus

Model: BDH300 * 2
Cooling Capacity: Total 5.8MW / 1654RT
Heat Input: 85°C Waste Hot water



The biggest Special Fibre factory in CIS countries. BROAD already provided 4 units of chillers for the Phase I and Phase II of this Factory.

BROAD Case—Hollensen Energy, Denmark

Model: BDE100
Heating Capacity: 1812 kW
Energy Source : 460degC Waste
Low tem.heat source: 21/30 Deg. C
Heating water temp.: 80/40 Deg. C
Heating COP: 1.78

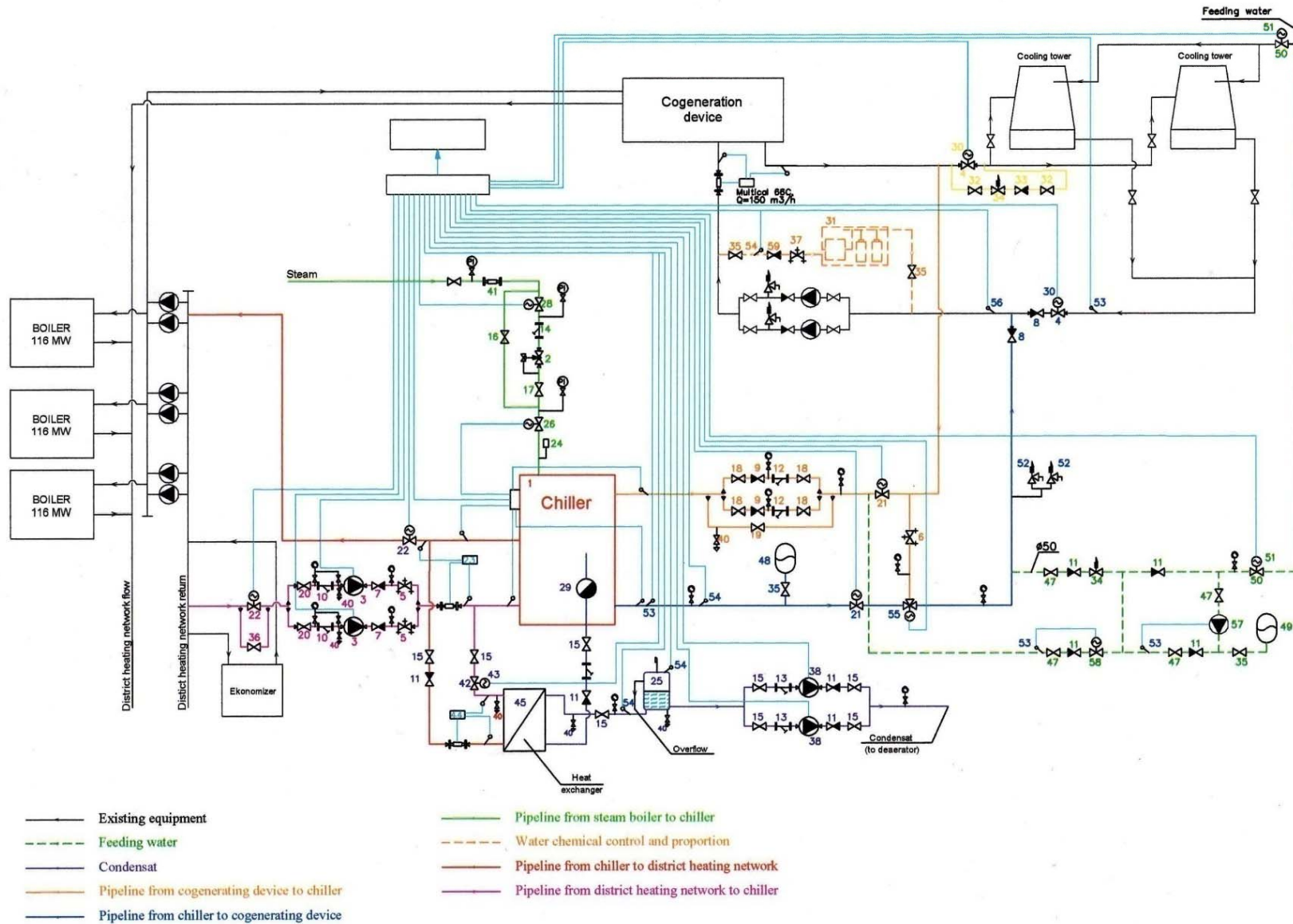


BROAD Case—Rigas Siltums, Latvia

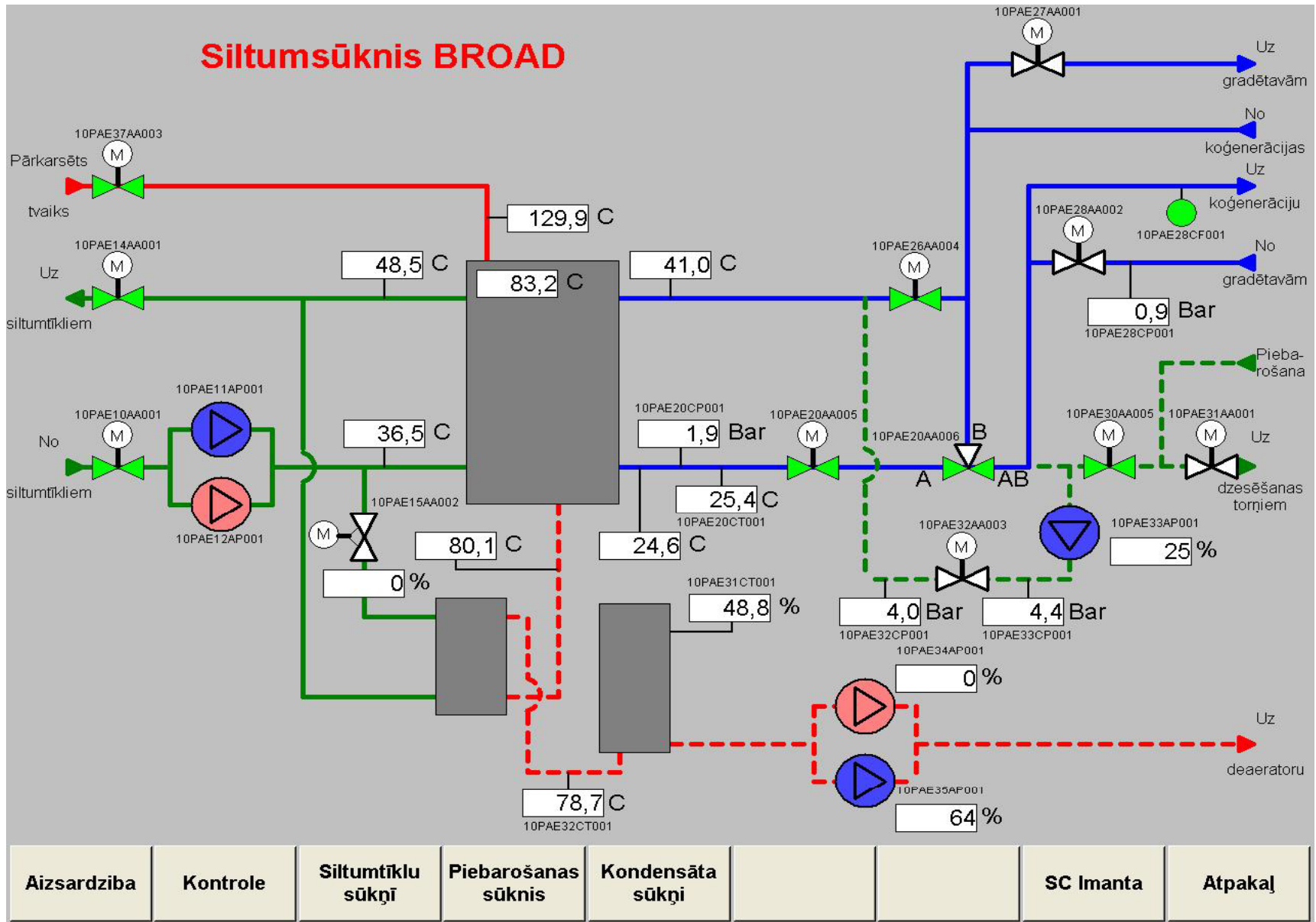
Model: BDS300X0.4
Heating Capacity: 5000kW
Energy Source : Steam@4bar
Low tem.heat source: 29/55degC
Heating water temp.: 65/47degC
Heating COP: 1.74



BROAD Case—Rigas Siltums, Latvia



BROAD Case—Rigas Siltums, Latvia





上海世博会全球合作伙伴
GLOBAL PARTNER OF SHANGHAI EXPO

Q&A



Welcome to BROAD !