



BROAD AIR CONDITIONING
远大空调有限公司



PAKISTAN SYNTHETIC LIMITED

Go Green with **BROAD.**

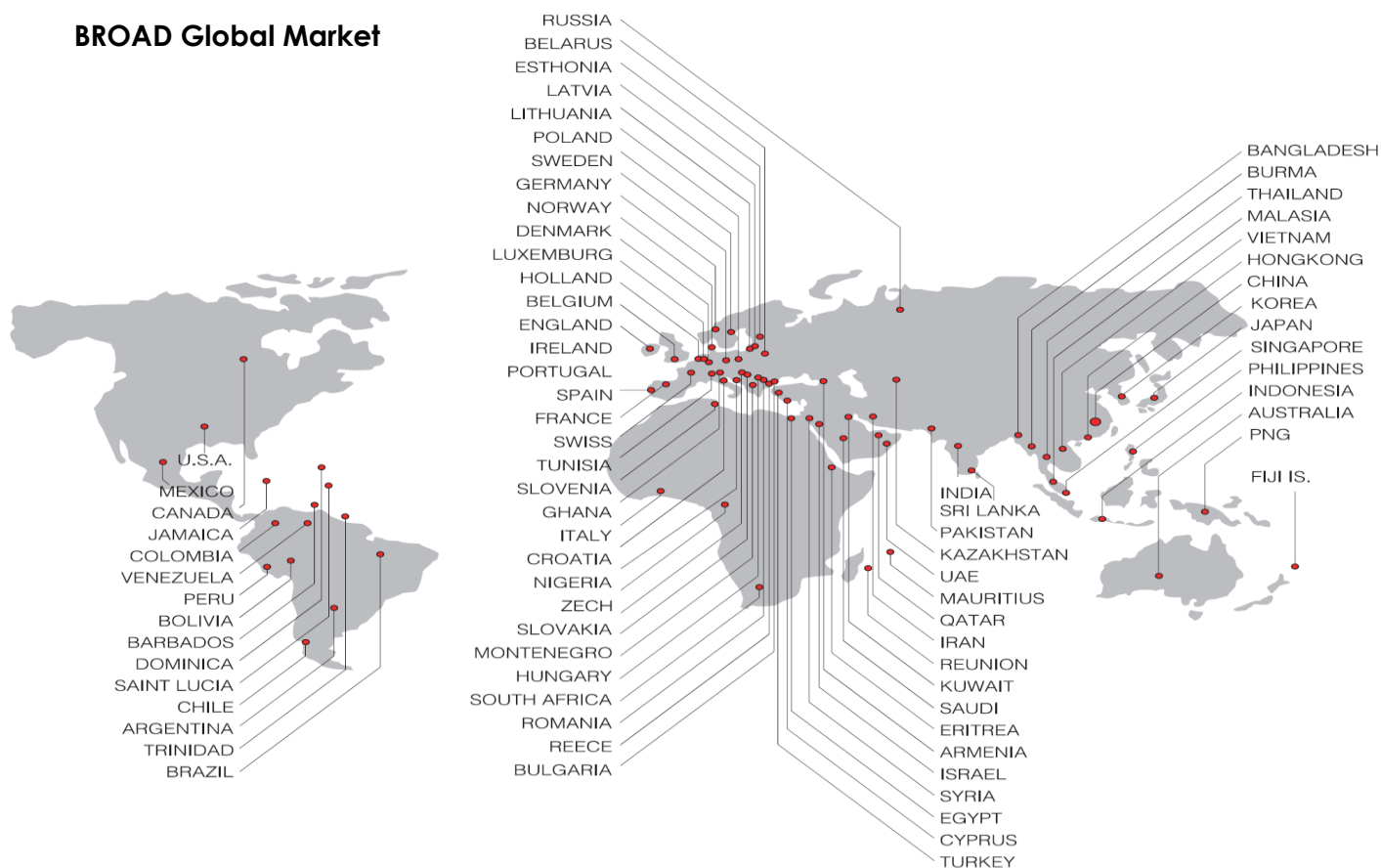


TRUSTED TECHNOLOGY

Broad Chiller are used in different processing facilities around the world to maintain process temperature, improve quality, reduce static and provide air cooling.

Some of the World's leading manufacturers put their trust in Broad Air Conditioning systems to help them achieve their production objectives.

BROAD Global Market



GLOBAL EXPERTISE, LOCAL SOLUTIONS

BROAD Group was established in 1988, headquartered in Changsha, China and has products in more than 82 countries.

The company has been serving the global textile industry for more than 30 years and is highly experienced in many different HVAC related

technologies, Chillers, Water distribution system, Air Quality products etc.

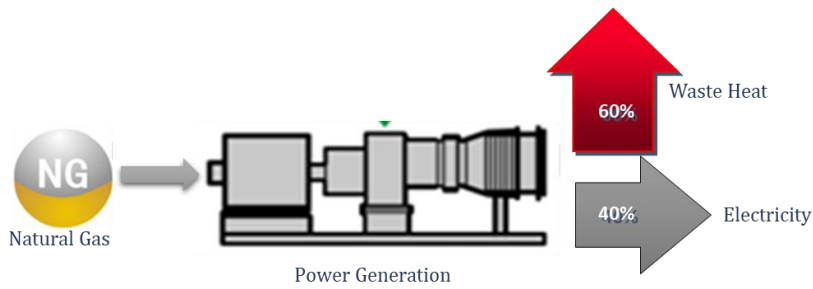
Chiller systems are designed for each individual application, textile experts to create the optimal production environment. If required, Broad regional R&D departments can work

with a production team to deliver innovative solutions for unique textile processes.

Broad A/C engineering teams offer installation, commissioning and maintenance support to ensure improved production efficiencies continue to return on the initial investment for many years.

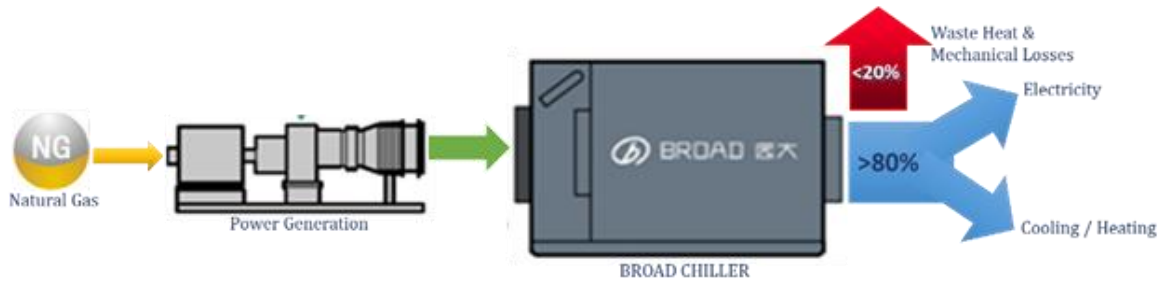
IMPROVING PLANT EFFICIENCIES WITH BROAD

Using waste heat from power generation or industrial process as the energy source to realize free cooling, Industrial waste heat, exhaust and hot water from power generation are 100% green energies and can be treasure instead of waste.



PSL HUB		
JGS 320 GS C105 @ 70 -75 % Load		
Input Energy KWth	2046	
Electrical Output KWel	798	
Electrical Efficiency %	39%	
CHILLER RECOVERY		
Exhaust Recovery KWth	650	185 RT
Jacket Water Recovery kWth	211	60 RT
EFFICIENCY CALCULATION ON CHILLER RECOVERY		
	KW	EFFICIENCY
Electrical KW + Exhaust Chiller Recovery KW	1448	70.77%
Electrical KW + Jacket Water Chiller Recovery KW	1009	49.32%
TOTAL CHILLER RECOVERY EFFICIENCY KW	1659	81.09%
JGS 420 GS B05 @ 70-75 % Load		
Input Energy KWth	2710	
Electrical Output KWel	1124	
Electrical Efficiency %	41.5%	
CHILLER RECOVERY		
Exhaust Recovery KWth	650	185 RT
Jacket Water Recovery kWth	211	60 RT
EFFICIENCY CALCULATION ON CHILLER RECOVERY		
	KW	EFFICIENCY
Electrical KW + Exhaust Chiller Recovery KW	1774	65.46%
Electrical KW + Jacket Water Chiller Recovery KW	1335	49.26%
TOTAL CHILLER RECOVERY EFFICIENCY KW	1985	73.25%
(JGS 320 + JGS 420) 2 NOS. ENGINE EFFICIENCY CALCULATION		
Input Energy KWth	4756	
Electrical Output KWel	1922	
Electrical Efficiency %	40.4%	
CHILLER RECOVERY		
Exhaust Recovery KWth	1300	370 RT
Jacket Water Recovery kWth	422	120 RT
EFFICIENCY CALCULATION ON CHILLER RECOVERY		
	KW	EFFICIENCY
Electrical KW + Exhaust Chiller Recovery KW	3222	67.75%
Electrical KW + Jacket Water Chiller Recovery KW	2344	49.29%
TOTAL CHILLER RECOVERY EFFICIENCY KW	3644	76.62%

IMPROVING PLANT EFFICIENCIES WITH BROAD



PSL PORT QASIM		
JGS 420 GS B05 @ 75-80 % Load		
Input Energy KWth	2710	
Electrical Output KWel	1124	
Electrical Efficiency %	41.5%	
CHILLER RECOVERY		
Exhaust Recovery KWth	703.4	200 RT
Jacket Water Recovery kWth	351.7	100 RT
EFFICIENCY CALCULATION ON CHILLER RECOVERY		
	KW	EFFICIENCY
Electrical KW + Exhasut Chiller Recovery KW	1827.4	67.43%
Electrical KW + Jacket Water Chiller Recovery KW	1475.7	54.45%
TOTAL CHILLER RECOVERY EFFICIENCY KW	2179.1	80.41%

SATISFIED CUSTOMER

PSL Is A Prestige Customer for Broad A/C Since 2006, We are Improving their genset efficiencies by Utilizing 2 Nos Broad Jacket Heat recovery Chiller on Jenbacher Engine

Total Cooling Capacity 480 RT (1 Operational, 1 Standby)
 Model (BDH73IX) + (BDH73IX)
 Energy source Hot water



SOLUTIONS FOR WASTE HEAT RECOVERY

Broad has a comprehensive range of products to suit any processing facility. Utilizing waste Heat sources, helps to achieve the Optimal temperature and humidity that is feasible for the plant operation.

Broad product such as Absorption (Non-Electric) Chillers, Waste Heat recovery Chiller, Power Efficient Oil Free Chillers, Packaged Water Distribution System, Air purification & Quality devices.

ASK US FOR A FREE
ON-SITE CONSULTATION



Non-Electric Steam Operated Chiller (Waste Plant or Boiler)



Waste Heat Recovery Chiller (Exhaust/ Flue from Genset or Turbine)



Jacket Water Recovery Absorption Chiller



Packaged Water Distribution System

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