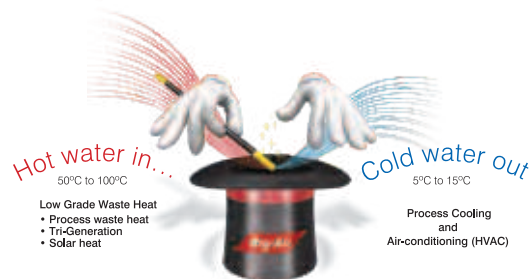


**Bry-Air**®

# Adsorption Chiller

Energysmart Cooling using Waste Heat



It's not magic.  
It's an advanced green technology  
using inert 'Silica Gel-Water' pair  
(Adsorbent) (Refrigerant)

- Compact
- Modular
- Energysmart
- Available in 11 kW model currently



## Adsorption Chiller-BryChill

BryChill can be stacked as modules as shown below



## Energysmart Cooling using Waste Heat

• Easy to install • Easy to maintain • Easy to operate

### Technical Data

Rated Capacity	kW	11
----------------	----	----

COP	0.55
-----	------

#### Operating Range

Chilled Water (°C)	7 to 20
Hot Water (°C)	60 to 90
Cooling Water (°C)	10 to 35
Maximum Pressure (bar)	4.8

#### Performance Data (Nominal)

##### Chilled Water

Intel Temperature (°C)	15
Outlet Temperature (°C)	10
Flow Rate (l/min)	30
Available External Pressure (bar)	0.45
Connection Size: (mm)	25

##### Hot Water

Intel Temperature (°C)	90.5
Outlet Temperature (°C)	83
Flow Rate (l/min)	48
Available External Pressure (bar)	0.3
Connection Size: (mm)	25

##### Cooling Water

Intel Temperature (°C)	29.5
Outlet Temperature (°C)	35.5
Flow Rate (l/min)	86
Available External Pressure (bar)	0.45
Connection Size: (mm)	40

Provisional data subject to change

Rated Capacity	kW	11
----------------	----	----

#### Electrical

Voltage	230
Phase	1
Frequency	50
Operating kW Consumption	1.3
Maximum kW Consumption	1.6

#### Unit Dimensions\*

Width (mm)	1000
Length (mm)	1700
Height (mm)	1350

#### Weight\*

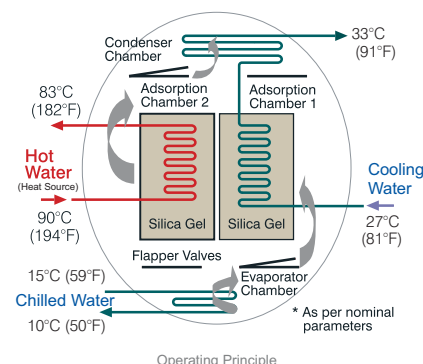
Empty (kg)	450
Operating (kg)	525

\*This may change during the actual engineering.

#### Unbeatable Advantages:

- Long product life (>25yrs)
- Low maintenance
- Regeneration temperature as low as 60°C
- 'Green' refrigerant (water)
- Low electric consumption (one-tenth the conventional system)
- No noise and vibration

### How does our Adsorption Chiller Work?



The principle of **Adsorption** works with the interaction of gases and solids. With adsorption chilling, the molecular interaction between the solid and the gas allows the gas to be adsorbed into the solid. The **Adsorption** chamber of the chiller is filled with solid material, special silica gel BRYSORB 200, eliminating the need for moving parts and eliminating the noise associated with those moving parts. The silica gel creates an extremely low humidity condition that causes the water refrigerant to evaporate at a low temperature. As the water evaporates in the evaporator, it cools the chilled water. The **Adsorption** Chiller has four chambers; an evaporator, a condenser and two **Adsorption** chambers. All four chambers are operated at nearly a full vacuum.

#### BRY-AIR (ASIA) PVT. LTD.

**Corporate Office:**  
21C, Sector-18, Gurgaon 122015  
Phone: +91-124-4091111  
Fax: +91-124-4091100  
E-mail: bryairmarketing@pawha.com

**Registered Office:**  
20, Rajpur Road, Delhi 110054  
Phone: +91-11-23906666  
Fax: +91-11-23906600  
E-mail: enquiry@pawha.com  
Web: www.bryair.com  
CIN: U74210DL1981PTC012456

**City**  
**DELHI**  
+91-11-23906666  
**CHANDIGARH**  
+91-172-46788067  
**MUMBAI**  
+91-22-24935155/24947475  
**VADODARA**  
+91-265-2351493  
**KOLKATA**  
+91-33-22814641/22814877  
**BENGALURU**  
+91-80-25271232  
**HYDERABAD**  
+91-40-27154243  
**CHENNAI**  
+91-44-26163820/2940  
**KOCHI**  
+91-484-2395940

**E-mail**  
enquire@pawha.com  
bryairchandigarh@pawha.com  
bryairmumbai@pawha.com  
bryairvadodara@pawha.com  
bryairkolkata@pawha.com  
bryairbangalore@pawha.com  
bryairhyderabad@pawha.com  
bryairchennai@pawha.com  
bryairkochi@pawha.com

**BRY-AIR (USA)**  
Phone: +1-740-965-2974  
Fax: +1-740-965-5470  
E-mail: bryair1@bryair.com  
Website: www.bryair.com

**BRY-AIR (CHINA)**  
Phone: +86-21-51591555  
Fax: +86-21-51591559  
E-mail: info@bryair.com.cn  
Website: www.bryair.com.cn

**BRY-AIR (MALAYSIA)**  
Phone: +60-3-89256622  
Fax: +60-3-89259957  
E-mail: bryair@bryair.com.my  
Website: www.bryair.com.my

**BRY-AIR (BRAZIL)**  
Phone: +55-11-36982222  
E-mail: contato@bryair.com.br  
Website: www.bryair.com.br

**Country**  
**BRY-AIR (UAE)**  
+971-6-5574622  
**BRY-AIR (PHILIPPINES)**  
+63-2-8078436  
**BRY-AIR (INDONESIA)**  
+62-21-79199023  
**BRY-AIR (VIETNAM)**  
+84-8-39956498  
**BRY-AIR (NIGERIA)**  
+234-8097276772  
**BRY-AIR (SWITZERLAND)**  
+41-91-6830971  
**BRY-AIR (BANGLADESH)**  
+880-1819409100

**Phone**  
+971-6-5574622  
+63-2-8078436  
+62-21-79199023  
+84-8-39956498  
+234-8097276772  
+41-91-6830971  
+880-1819409100

**E-mail**  
support@bryair.ae  
mail@bryair.com.ph  
indomark@bryair.com.my  
vietmarketing@bryair.com.my  
bryairnigeria@pawha.com  
msammartini@pro-kon.ch  
bryairbangladesh@pawha.com

**Website**  
www.bryair.com/uae  
www.bryair.com/philippines  
www.bryair.com/myindonesia  
www.bryair.com/myvietnam  
www.bryair.com/nigeria  
www.pro-kon.ch  
www.bryair.com/bangladesh