High Temperature Wheel

Save upto 75% Sensible Energy from Waste Exhaust Air

www.bryair.com
Considerable amount of flue gases/hot air are generated from boilers, kilns, ovens and furnaces. These flue gases/hot air are at significantly high temperature. Generally, a part of the flue gases/hot air goes waste and is dumped into the environment without recovering energy from it which could be reused for some useful purposes like preheating of air, heating water, etc. This recovered heat energy can save a lot of primary fuel and reduce operating cost of running boilers, kilns, ovens and furnaces. Many times this recovered energy cost is just enough to pay back the cost of recovery equipment in few months only. This waste heat could be recovered with high efficiency, up to 75%, with Bry-Air’s BryXchange.

BryXchange—Air To Air Rotary Heat Exchanger For Industrial And Process Air Exhaust

Under High Efficiency and Reliability

- Stainless steel, double walled, insulated casing
- Sectorized wheel for ease of installation and maintenance
- Designed for very slow rotational speed of around 8-10 RPM
- Manual cleaning system for media cleaning
- Heat-stabilised external bearings with teflon gasket
- Smooth surface to ensure minimum vertical runout
- The rotor is made of alternate flat and corrugated foil of very uniform pitch and height
- Rotor depth 200mm
- Substrate stainless steel or special alloy steel foil
- Split casing for larger sizes

- Optional: Automatic cleaning system on request.

Some examples of waste heat temperatures released from typical industrial processes

<table>
<thead>
<tr>
<th>Type of Device</th>
<th>Temperature °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steam boiler exhausts</td>
<td>230-480</td>
</tr>
<tr>
<td>Gas turbine exhausts</td>
<td>370-540</td>
</tr>
<tr>
<td>Reciprocating engine exhausts</td>
<td>315-600</td>
</tr>
<tr>
<td>Heat treating furnaces</td>
<td>425-650</td>
</tr>
<tr>
<td>Drying and baking ovens</td>
<td>230-600</td>
</tr>
<tr>
<td>Catalytic crackers</td>
<td>425-650</td>
</tr>
<tr>
<td>Annealing furnace cooling systems</td>
<td>425-650</td>
</tr>
</tbody>
</table>

BryXchange recovers energy from high temperature exhaust air up to 75% efficiency.

Application Industries

- Textile Industry
- Automobile Paint Booth
- Film Manufacturing

Ensuring Optimum Energy Efficiency For Industrial Processes Generating Up To 500°C Exhaust Air Temperature
Bry-Air, the leader in dehumidification... worldwide, is a global solution provider for humidity control, moisture removal, product drying, gas phase filtration and plastics auxiliaries. Bry-Air Dehumidifiers are designed to meet the most stringent moisture/humidity control needs and are available from compact models to very complex engineered systems. The Airgineers at Bry-Air have several years of application engineering experience and are trained to provide solutions in moisture and humidity control for varied industrial applications. A Pahwa Group company, Bry-Air Asia has 2 state-of-the-art manufacturing facilities in India and fully owned subsidiaries in Malaysia, China, Switzerland and Brazil and an associate plant in USA, supported by a worldwide sales and service network. With installations in over 80 countries in almost every industry, Bry-Air touches your life round the clock!

Innovation in technology and business processes is the driving philosophy of the Pahwa Group. The Group has filed 12 international patents in the last 5 years in energy smart technologies related to air engineering. The Group has 1400+ employees in 6 continents and 11 manufacturing plants. Bry-Air is one of the flagship companies of the Pahwa Group.

Bry-Air Product Range

- **Dehumidifiers** for humidity control and moisture removal
- **Gas Phase Filtration Systems** for removal of corrosive and odorous gases
- **Plastics Auxiliaries** for Drying, Conveying and Blending
- **High Temperature Wheel for Waste Heat Recovery**
- **Adsorption Chiller** for Energysmart Cooling using Waste Heat

**Write to us for free site evaluation and to discuss the solution with our AIRGINEERS at bryairmarketing@pahwa.com**

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

**BRY-AIR (USA)**

**BRY-AIR (MALAYSIA)**

**BRY-AIR (CHINA)**

**BRY-AIR (BRAZIL)**

**BRY-AIR (SWITZERLAND)**

**BRY-AIR (BANGLADESH)**

**Country**

**Phone**

**Fax**

**E-mail**

**Website**

**India**

+91-11-22096666

+91-11-22096666

enspa@pahwa.com

www.bry-air.com

**China**

+86-21-63325260

+86-21-63325260

brychinese@pahwa.com

www.bry-air.com.cn

**Malaysia**

+60-3-80598115

+60-3-80598115

brymalaysia@pahwa.com

www.bry-air.com.my

**Brazil**

+55-11-25211010

+55-11-25211010

brybrazil@pahwa.com

www.bry-air.com.br

**Switzerland**

+41-81-6380599

+41-81-6380599

bryswitzerland@pahwa.com

www.bry-air.com.ch

**Bangladesh**

+880-1719501105

+880-1719501105

brybangladesh@pahwa.com

www.bry-air.com.bd

**United Arab Emirates**

+971-4-5557461

+971-4-5557461

bryuae@pahwa.com

www.bry-air.com.ae

**Philippines**

+63-2-8433783

+63-2-8433783

bryphilippines@pahwa.com

www.bry-air.com.ph

**Indonesia**

+62-21-7918965

+62-21-7918965

bryindonesia@pahwa.com

www.bry-air.com.id

**Vietnam**

+84-259925666

+84-259925666

bryvietnam@pahwa.com

www.bry-air.com.vn

**Nigeria**

+234-9097276772

+234-9097276772

brynigeria@pahwa.com

www.bry-air.com.ng

**Argentina**

+54-11-43614323

+54-11-43614323

brynigeria@pahwa.com

www.bry-air.com.ar

**Vietnam**

www.bry-air.com.vn

**Argentina**

www.bry-air.com.ar

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