Tiegel GmbH

TIEGEL GmbH • Carl-Eschebach-Straße 18 • 01454 Radeberg
Introduction of our company

Smart Energy
Introduction of our company

- In general
- Our competences
- Our service
- Production series
- Product overview container units
In general

What changes, will last…
... so today we are for you if you need a **competent service!**
• Old-established enterprise from Radeberg
• Specialising in:  
  • Planning  
  • Project drawing  
  • Mounting  
  • Service
of heating/ventilating and air conditioning units
• Production of own units since 10 years
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Our competences

➔ Heating
➔ Air conditioning
➔ Dehydration
➔ Cooling

➔ Innovative industrial maintenance and parts cleaning
... of mobile and stationary units

- Forced-air -
- Forced-air steam -
- Ventilating - and
- Air conditioning units
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Our service

- Development of heating, ventilation and refrigeration concepts
- Engineering support right up to putting equipment to service
- After-sale service
- High service readiness
- Special trained service staff for on-site mounting and maintenance
Service – where it is needed!
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Production series

- Mobile Forced-air unit
- Mobile steam unit
- Mobile hot water heating unit
- Mobile refrigerating unit
- Mobile tank unit
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Mobile dehydration unit TEC

<table>
<thead>
<tr>
<th>Mobile dehydration unit</th>
<th>TEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output m³/h</td>
<td>4.200/ 8.400</td>
</tr>
<tr>
<td>Pressure bar</td>
<td>1.0/ 2.0</td>
</tr>
<tr>
<td>Temperature</td>
<td>60 - 80</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>32</td>
</tr>
<tr>
<td>At ambient temperature</td>
<td>25 - 60</td>
</tr>
</tbody>
</table>
## Product overview

aggregate container unit

Mobile heating unit THK with integrated special-tank 3,000 l

<table>
<thead>
<tr>
<th>Central heating container unit Model</th>
<th>THK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed output kW</td>
<td>230-385</td>
</tr>
<tr>
<td>Volume of air flow up to 45°C m³/h</td>
<td>26700</td>
</tr>
<tr>
<td>External blower compression Pa</td>
<td>300</td>
</tr>
</tbody>
</table>
Mobile central heating unit THC use until outside temperature –50°C

<table>
<thead>
<tr>
<th>Central heating unit model</th>
<th>THC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed output kW</td>
<td>350-1000</td>
</tr>
<tr>
<td>Volume of airflow at 45°C m³/h</td>
<td>23000</td>
</tr>
<tr>
<td>External blower compression Pa</td>
<td>300</td>
</tr>
</tbody>
</table>
Mobile cooling unit TKC

<table>
<thead>
<tr>
<th>Mobile cooling unit model</th>
<th>TKC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installed cooling capacity kW</td>
<td>80 - 160</td>
</tr>
<tr>
<td>Volume of airflow at +20°C</td>
<td>8,000 - 20,000</td>
</tr>
<tr>
<td>External blower compression Pa</td>
<td>300</td>
</tr>
</tbody>
</table>
100 YEARS OF INNOVATION

IN MOBILE COOLING

IN MOBILE HEATING

AS LISTED SUPPLIER FOR THE GERMAN ARMY
AND SPECIALICT FOR HVAC SYSTEMS
Introduction to our company

Smart Energy
Situation now

Energy flows in one direction
Possibilities with Tiegel energy buffering system

- Thermal power of The generator
- Cooling
- Heating
- Hot water production
Central power management controls the energy flow into the military camps.
How we cooperate with the smart Energy philosophy?

• Tiegel gmbh is a recognized supplier for heating and cooling mobil units to army

• We have installed more than 27000 MW air heating power and 9600 WW air cooling power units

• German Army uses our products since more than 16 years

• Innovation and robust equipment are the most distinguished signs
What we did presented at the smart Energy exercise?

• The final consumer unit of our heating system was presented in Hungary

• A light mobile air climate unit capable of using hot water stored to reduce the energy consumption

• A highly efficient unit with low electrical consumption:
  
  17 kW cooling output
  3 kW heating output (electrical)
  9 kW heating output (hot water use)
  15 kW heating output (heating pump)
What have been shown in Hungary?

- Smart energy helps in energy conservation
- Smart energy helps in cost reduction
- Smart energy allows longer missions
- Smart energy increases energy security

SMART ENERGY IS POSSIBLE !!!!
ENERGY-MANAGEMENT

THAT IS OUR IDEA OF

SMART ENERGY
Thank you for your attention

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