WinPACK-R SE
TCAEBY-TCAESY
4225-4345

Cooling capacity: 214.2÷345.7 kW

- Compact chillers also for replacement markets
- High performance range with extended operating limits
- Simplified installation thanks to pumping unit accessories
- Integrated MASTER/SLAVE control

Packaged air-cooled water chillers with axial fans. Range with scroll hermetic compressors and R410A refrigerant.

Construction features
- Compressor: scroll type, rotary, hermetic complete with thermal protection and casing heater.
- 4 capacity steps with high efficiency at partial loads.
- Water side heat exchanger: with stainless steel plates, complete with closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Air side heat exchanger: with micro-channels.
- Fan: external rotor axial type electric fans with internal thermal protection, accident protection grilles.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: load-bearing structure made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:
  - fan and compressor circuit breaker switches;
  - display of cooling circuit high and low pressure;
  - Master/Slave control up to 4 units in parallel;
  - clock board.

Versions
- B - Standard version.
- S - Silenced version complete with compressor technical compartment soundproofing and reduced speed fans.

Models
- TCAEBY: standard unit designed for cooling only.
- TCAESY: silenced unit designed for cooling only.

Factory fitted accessories
- Shell and tube evaporator.
- PUMP with single or double electric pump, one of which automatic in standby. The electric pumps are available in the low or high head versions.
- TANK&PUMP with 500 - 700 litre integrated buffer tank (depending on models) and single or double electric pump, complete with expansion tank, air vent valves, safety valve and water side pressure gauge.
- VPF control.
- Desuperheater.
- 100% heat recovery unit.
- Electronic expansion valve.
- –10°C condensing control (standard in S versions).
- –15°C condensing control with fans with EC motor.
- Condensing control with over-pressure fans.
- Power factor correction capacitors (cosφ > 0.94).
- Forced limit of power consumption.
- Forced noise limit.
- Energy parameter measuring device.
- Optimised energy efficiency.
- Soft starter.
- Soundproofed compressor box.
- Compressor soundproof enclosures.
- Cooling circuit outlet and inlet valves.
- Refrigerant leak detector.
- Cooling circuit high and low pressure gauges.
- Double safety valves.
- Coil protection nets.
• Micro-channel coils with E-coating treatment.
• Control of min/max power supply voltage.
• Digital input for double set-point.
• 4-20 mA analogue signal for shifting set-point.
• Evaporator antifreeze heater, electrical panel, buffer tank, electric pumps and heat exchangers for heat recovery, if applicable.
• Low temperature water production.
• Interfaces for serial communication with other devices.
• Anti-vibration mounts.

Separately supplied accessories

• Remote keypad with display.
• Thermostat with display.
• Rhoss supervisors for unit monitoring and remote management.
• Rhoss sequencer for integrated management of multiple chillers.
## Technical Data

### TCAEBY-TCAESY Model

<table>
<thead>
<tr>
<th>kW</th>
<th>4225</th>
<th>4245</th>
<th>4265</th>
<th>4315</th>
<th>4345</th>
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</thead>
<tbody>
<tr>
<td>Nominal cooling capacity</td>
<td>kW</td>
<td>220,2</td>
<td>241,2</td>
<td>264</td>
<td>313,9</td>
</tr>
<tr>
<td>Nominal cooling capacity</td>
<td>kW</td>
<td>214,2</td>
<td>234,2</td>
<td>252,1</td>
<td>306</td>
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<tr>
<td>E.E.R.</td>
<td></td>
<td>3,00</td>
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<td>E.E.R.</td>
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<tr>
<td>Absorbed power</td>
<td>kW</td>
<td>73,4</td>
<td>85,8</td>
<td>101,1</td>
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<td>Absorbed power</td>
<td>kW</td>
<td>73,9</td>
<td>87,7</td>
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</table>

### Scroll/step compressor
- no. : 4/4
- circuits: 2
- electrical supply: V-ph-Hz 400-3-50

### DIMENSIONS AND WEIGHTS

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<tbody>
<tr>
<td>L - Width</td>
<td>mm</td>
<td>2550</td>
<td>2550</td>
<td>2550</td>
<td>3650</td>
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<tr>
<td>H - Height</td>
<td>mm</td>
<td>2450</td>
<td>2450</td>
<td>2450</td>
<td>2450</td>
</tr>
<tr>
<td>P - Depth</td>
<td>mm</td>
<td>2260</td>
<td>2260</td>
<td>2260</td>
<td>2260</td>
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<tr>
<td>TCAEBY weight</td>
<td>kg</td>
<td>1300</td>
<td>1500</td>
<td>1650</td>
<td>1985</td>
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<tr>
<td>TCAESY weight</td>
<td>kg</td>
<td>1460</td>
<td>1660</td>
<td>1810</td>
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### SEASONAL ENERGY PERFORMANCE

#### TCAEBY Model Seasonal Performance in Cooling Mode

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<tbody>
<tr>
<td>Pdesignc (EN 14825)</td>
<td>kW</td>
<td>220,2</td>
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<tr>
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#### TCAESY Model Seasonal Performance in Cooling Mode

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<td>234,2</td>
<td>252,1</td>
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<td>4,12</td>
<td>4,15</td>
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</tr>
<tr>
<td>ηs,c</td>
<td>%</td>
<td>163</td>
<td>162</td>
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#### Data at the following conditions:
- Air: 35°C - Water: 12/7°C.
- In open field (Q = 2) at 10 m from the unit.
- Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- Weight referred to the unit without load and not accessorised.
- TCAESY silenced versions

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#### Performance according to EN 14511:2018.
- Low temperature application (7°C)
- Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)

RHOSS S.P.A. declines all responsibility for possible mistakes in this document and reserves the right to alter the features of their products without notice.