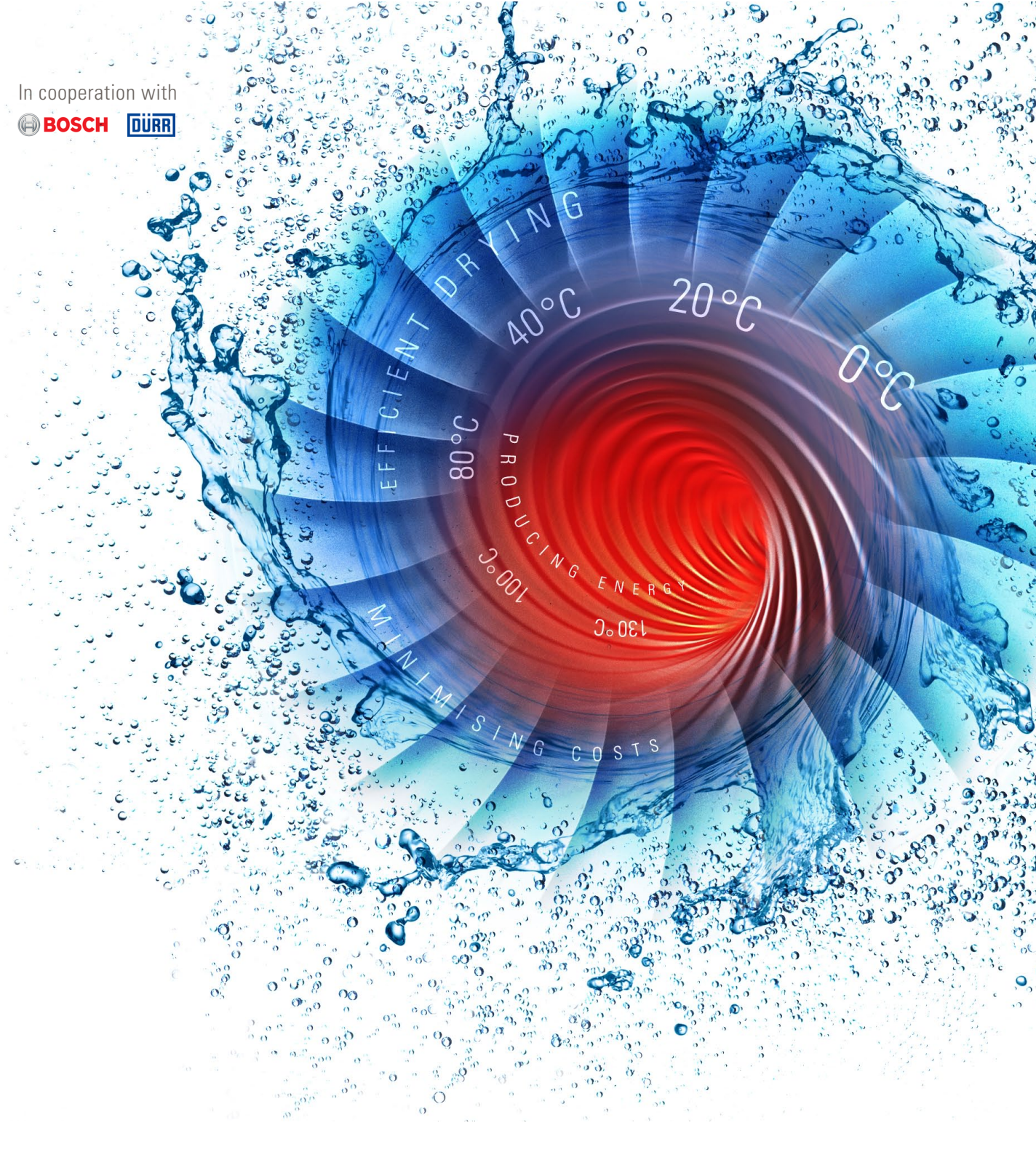


In cooperation with



thermeco<sub>2</sub>

**ADR|ADS**

Compressed air refrigeration dryers  
with the natural refrigerant CO<sub>2</sub>





Figure: ADR 27500

## thermea<sub>2</sub> ADR|ADS

### Compressed air refrigeration dryers for production

Dryer type	Volume flow	Heating capacity
<b>ADR 4100</b>	4100 m <sup>3</sup> /h	44 kW
<b>ADR 5400</b>	5440 m <sup>3</sup> /h	55 kW
<b>ADR 6600</b>	6650 m <sup>3</sup> /h	70 kW
<b>ADR 11000</b>	11000 m <sup>3</sup> /h	118 kW
<b>ADR 13600</b>	13600 m <sup>3</sup> /h	140 kW
<b>ADR 20500</b>	20450 m <sup>3</sup> /h	210 kW
<b>ADR 27500</b>	27500 m <sup>3</sup> /h	305 kW
<b>ADR 37500</b>	37000 m <sup>3</sup> /h	428 kW
<b>ADR 50300</b>	50300 m <sup>3</sup> /h	555 kW
<b>ADS 68500</b>	68500 m <sup>3</sup> /h	727 kW

Volume flow based on the air compressor inlet condition (20°C, 1 bar), operating gauge pressure 7 bar at a compressed air inlet temperature of 35°C, cooling water temperature 25°C and pressure dew point temperature of 3°C as per DIN ISO 7183.

The thermeco<sub>2</sub> ADR/ADS Series from thermea. Energysystems comprise refrigeration dryers for compressed air systems with high temperature heat reclamation up to 90°C and dryer capacities from 4100 to 68500 m<sup>3</sup>/h. The machines are particularly suitable for production application, ensuring short amortisation times.

#### Top energy efficiency in production

- Compressed air drying with simultaneous process heat provision up to 90°C (heat-cold coupling) with up to 100% heat reclamation.
- Compressed air drying without heat utilisation at very good refrigeration COPs through largely subcritical process management
- Trouble-free operation through high temperature recooling even under difficult recooling conditions
- Exact capacity control either multistage or via frequency converter
- Control via PLC Siemens Simatic S7
- Combined operation of several plants possible
- Silicon-free version for the automotive industry

#### Sustainability by using the natural refrigerant CO<sub>2</sub>

- Favourable for the climate and the environment through the world's first standard production compressed air dryer series
- Without greenhouse potential and breakdown products that are harmful for the environment
- Simple substance (non-toxic, non-combustible, cost efficient in the long run)
- No regulatory requirements and stipulations

#### thermea<sub>2</sub> machines proven in practice

- Slaughterhouse | Heat reclamation | Heating and hot water preparation 800 kW
- Computer centre | Server cooling | District heating 430 kW
- Aquacenter/Hotel | Geothermal power | Heating and hot water preparation 1675 kW
- Broadcasting building | Air conditioning | Heating and hot water preparation 330 kW
- Automotive manufacturer | Refrigeration dryer for compressed air | 26000 m<sup>3</sup>/h
- Office building DGNB Standard Gold | Geothermal power | Heating and cooling 200 kW
- Tropical hotel | A/C cold | Hot water preparation 340 kW
- University | Ventilation heat reclamation | Heating and hot water preparation 45 kW

#### For detailed production information, please request it from:

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