



Produkte und Systeme – SolarNext AG

Fachtagung Thermische Solarenergie zur Klimatisierung von Gebäuden
IG BCE Hannover, 27.01.2009

Dr. Uli Jakob
SolarNext AG

Hightex Group plc, London

Board: Frank Molter, David Walker,
Dr. Charles DesForges, Charles Sebag-Montefiore



Hightex International AG, Switzerland

Frank Molter (Managing Director)
David Walker (Managing Director)



SolarNext AG, Germany

Frank Molter (CEO)
Dr. Uli Jakob (Director Solar Cooling)
Prof. Dr. Jan Cremers (Director Envelope)



Group Organizational Structure



chillii®

Technology by **SOLARNEXT**

- Development of Solar/Thermal Cooling and Heating Kits for Residential and Office Building Applications and other Cooling Applications (2 – 30 kW)
- System Design for Cooling Applications on Industrial Scale (30 kW & up)
- R&D on Sorption Chillers e.g. Air-Cooled Absorption Chiller
- R&D on Recooling Systems e.g. Dry Coolers
- R&D on System Controllers

chillii® PSC12
Ammonia / Water (12 kW / 3.4 RT)

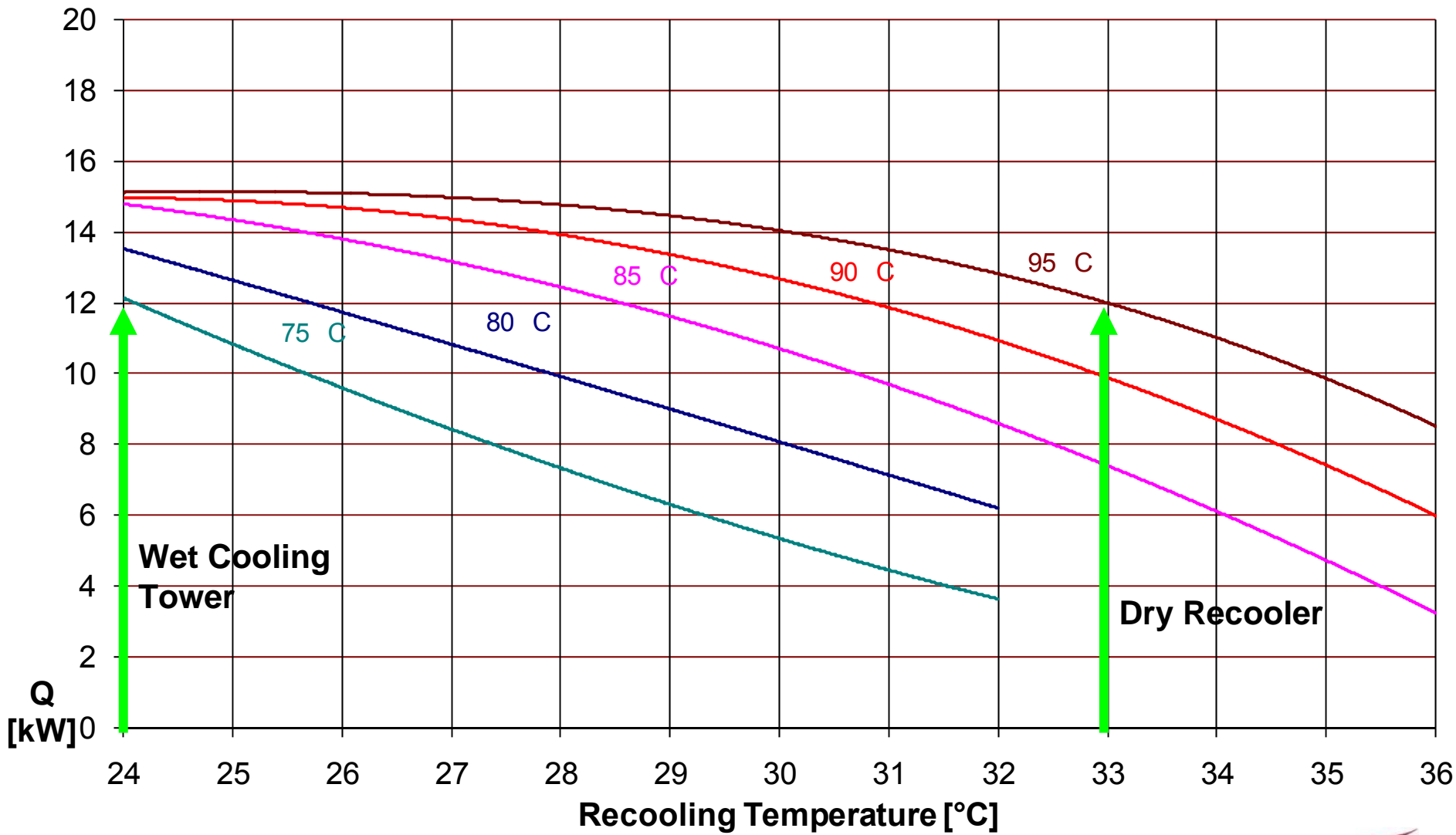


Source: Pink



chillii® PSC12

chillii® PSC 12 - Cooling Capacity - Cooling Ceiling (18 - 15 °C)

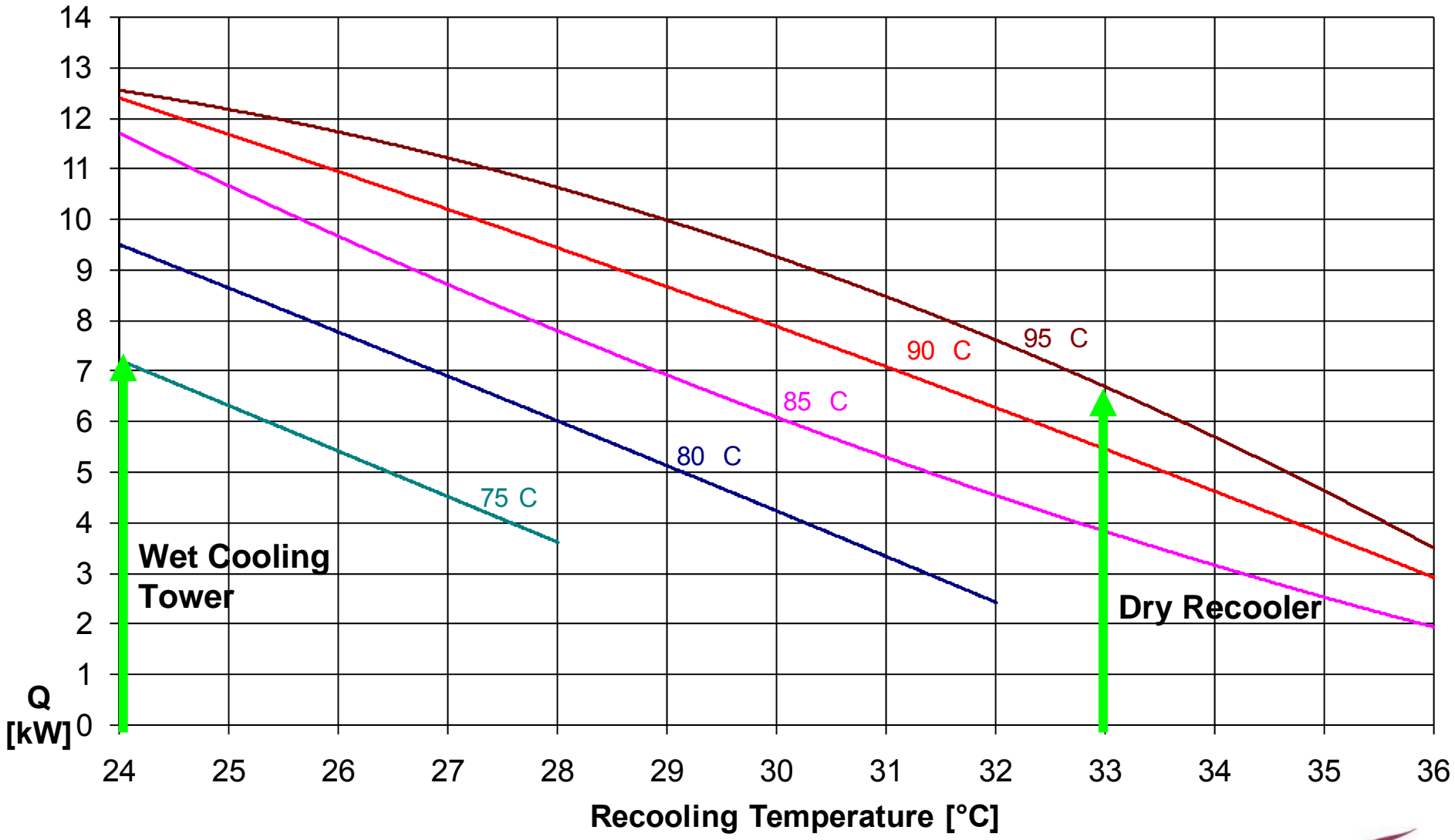


Performance Chart chillii® PSC12 (Cooling Ceiling)

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chillii® PSC 12 - Cooling Capacity - Fancoils (12 - 6 °C)



Performance Chart chillii® PSC12 (Fancoils)

chillii® WFC18
Water / Lithium Bromide (17.5 kW / 5 RT)



Source: Yazaki



chillii® WFC 18

chillii® STC8
Water / Silica Gel (7.5 kW / 2.1 RT)



chillii® STC8

chillii® STC8
Water / Silica Gel (15 kW / 4.3 RT)



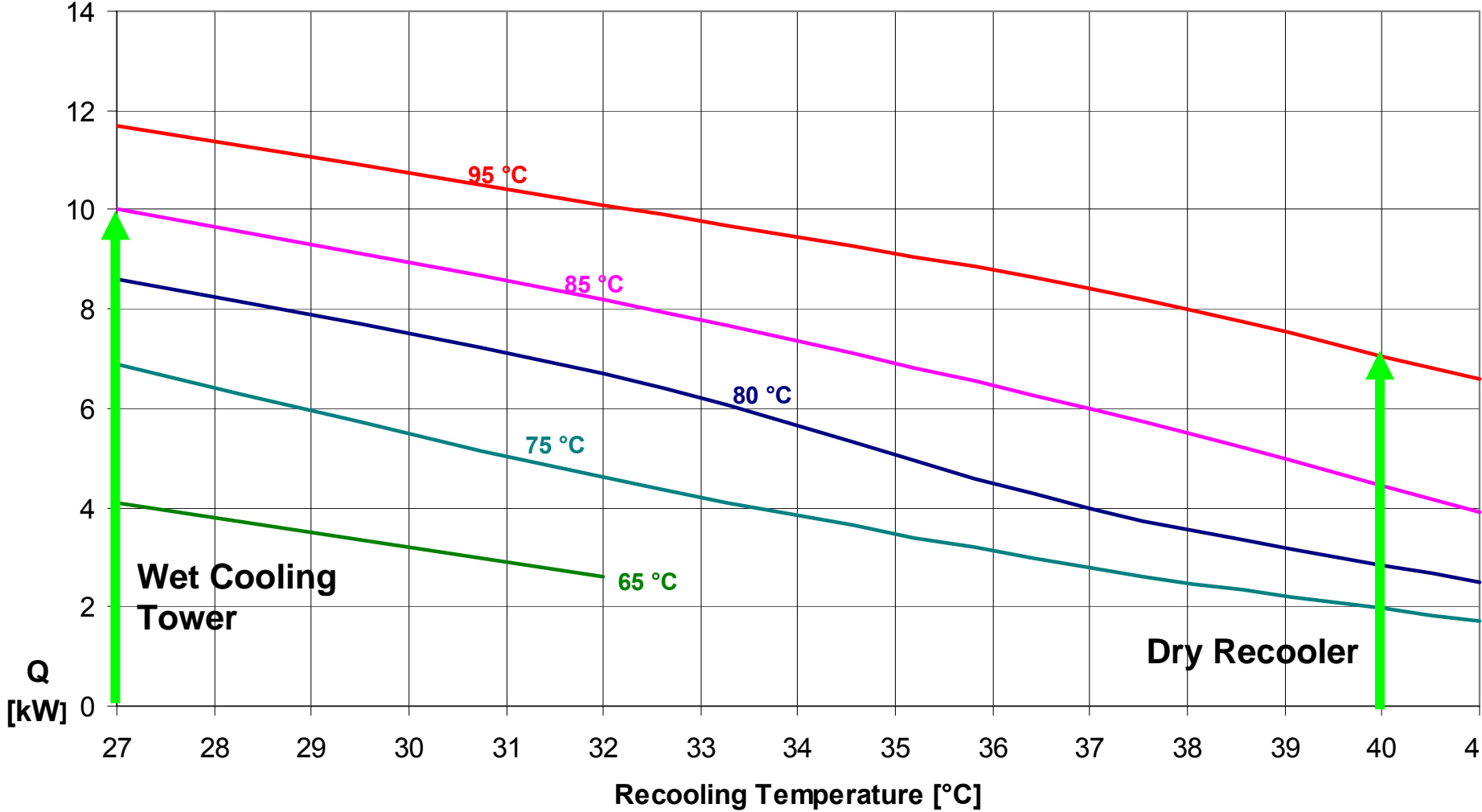
chillii® STC15

chillii® ISC10
Water / Zeolith (10 kW / 2.9 RT)



chillii® ISC10

chilli[®] ISC 10 Cooling Capacity - Cooling Ceiling (18 °C - X)

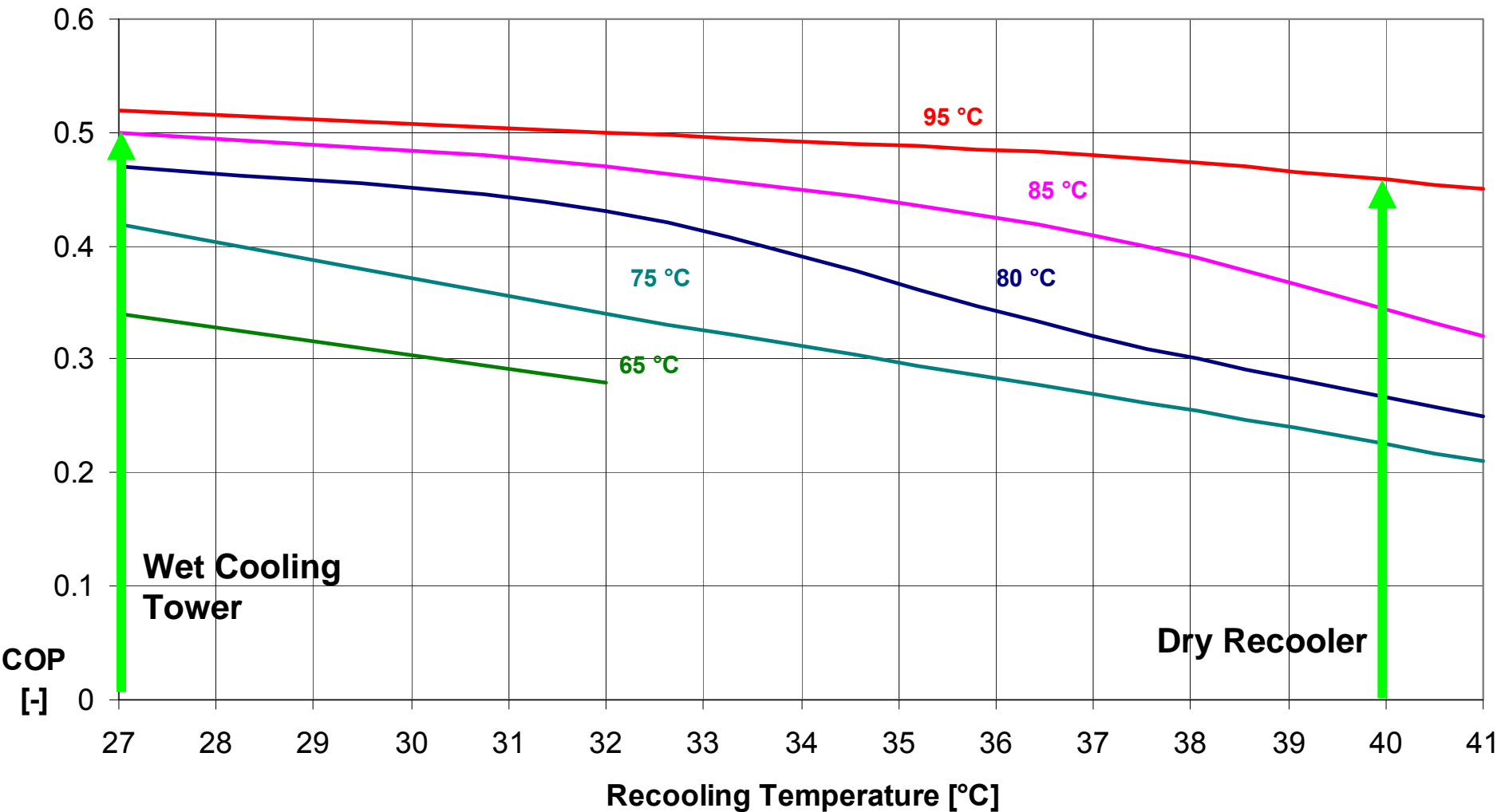


Performance Chart chilli[®] ISC10 (Cooling Ceiling)

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chillii® ISC 10 COP - Cooling Ceiling (18 °C - X)



Coefficient of Performance Chart chillii® ISC10 (Cooling Ceiling)

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chillii® ACC50 – ACC500
Ammonia / Water (50 – 500 kW / 14.3 – 142.9 RT)



Source: AGO



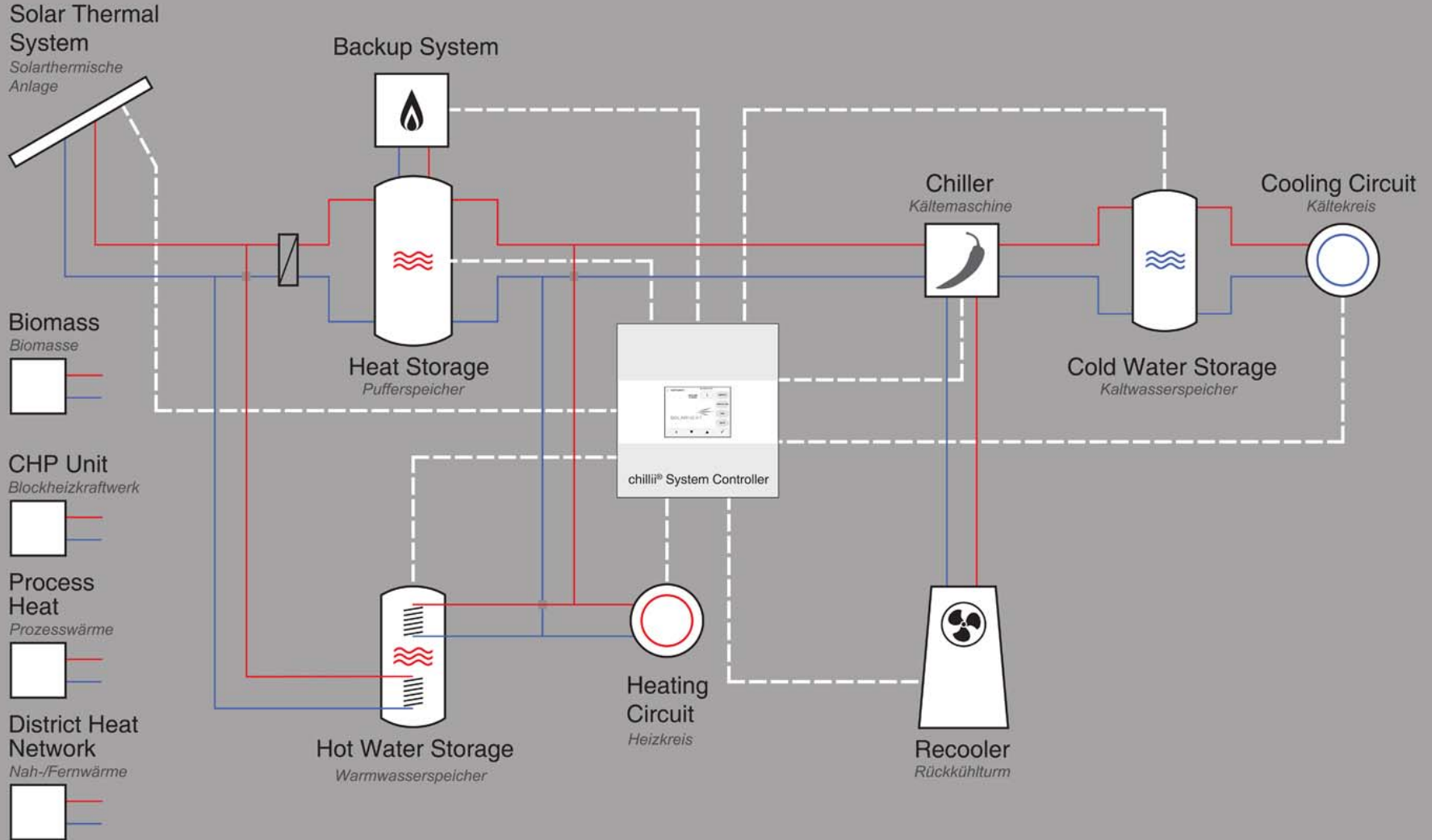
chillii® ACC50, 100, 200, 500



Source: SolarNext

chillii® System Controller

chillii® Cooling Technology



System Controller für Solar Cooling Systeme



chillii® Cooling Kit WFC 18



- chillii® WFC18 absorption chiller**
- + chillii® System Controller w/ thermostat
- + Wet cooling tower
- + Pump (hot water circuit)
- + Pump (re-cooling circuit)
- + Mixer
- + Thermostat & timer





Vielen Dank.

Dr. Uli Jakob
SolarNext AG

www.solarnext.de