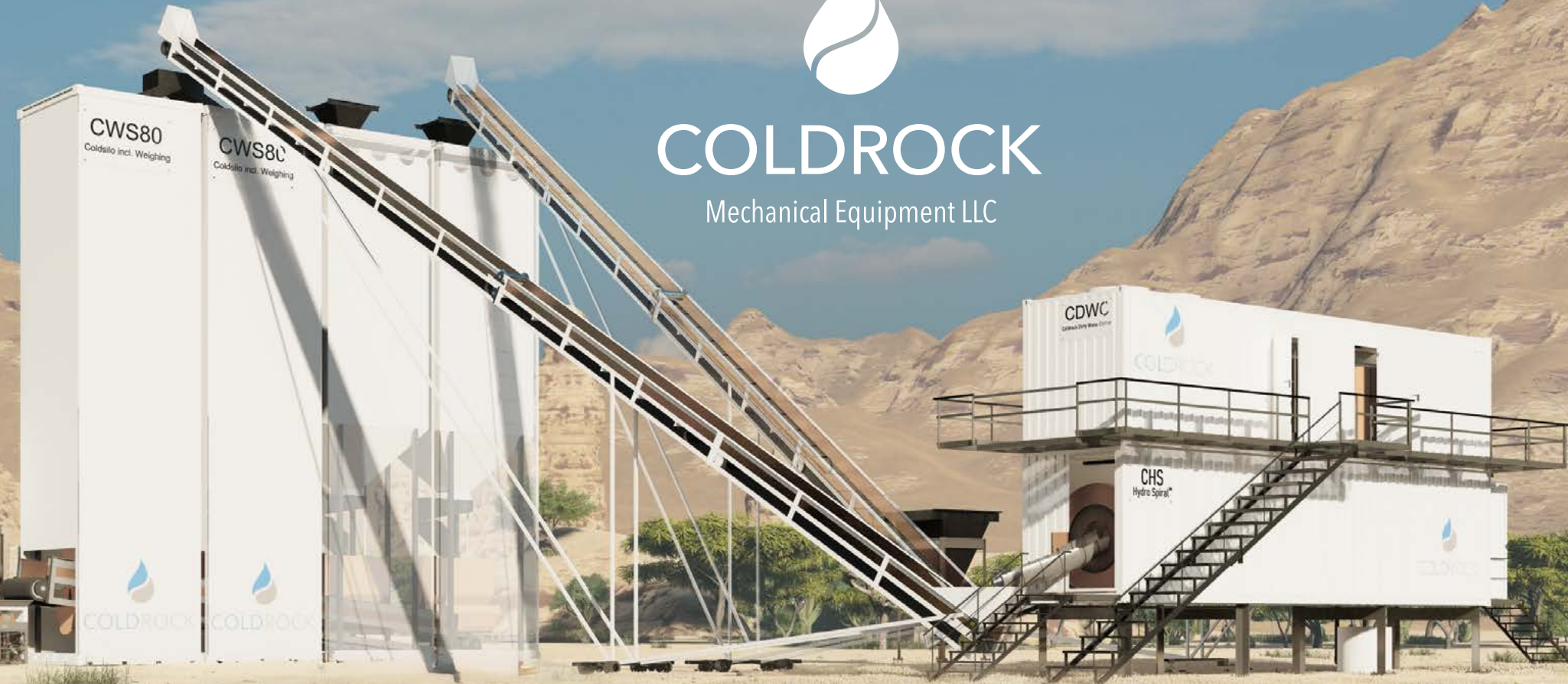




COLDROCK

Mechanical Equipment LLC



Temperature controlled concrete  
**WITHOUT ICE!**





# Concrete temperature control is paramount in controlling concrete quality.

With the **HydroSpiral** we at **Coldrock** offer the solution for your aggregate cooling to provide efficient and reliable temperature controlled concrete production. Designed to operate in the harshest of conditions and environments the HydroSpiral is an asset to the concrete producer who is faced with extreme ambient temperatures and/or required to deliver the highest quality of high strength concrete.

With the HydroSpiral you can consistently control the concrete temperature and thus achieve maximum quality for your fresh concrete.

- ▶ rapid temperature reduction
- ▶ efficiency
- ▶ good slump control
- ▶ admixture savings







# Great cooling performance in a small package!

## Coldrock HydroSpiral CHS – SINGLE UNIT

### Capacity:

- ▶ 70 – 130 tons per hour cooled aggregates from + 45 °C to + 11 °C  
(aggregates temperatures down to 5 °C possible with the "Coldrock Dirty Water Chiller CDWC")
- ▶ Chilled stone delivery temperature approx. 6 – 8 °C above the delivered chilled water temperature.

### Space required for installation:

- ▶ 2 containers 40 feet high cube – one above the other

### Technical specifications:

- ▶ energy savings 30 – 50 % less energy compared to concrete cooling with ice
- ▶ extremely small footprint
- ▶ just the space of single 40 ft container
- ▶ no special foundations required
- ▶ no settling ponds required
- ▶ cooling of the dirty slurry water via a separate heat exchanger
- ▶ water is circulated in a closed loop
- ▶ due to the special shape of the hydrospiral, no fine particles are lost
- ▶ saving on additives  
(depending on the recipe 7 % to 20 %)
- ▶ plug and play installation
- ▶ total electricity approx. 20 kW



Coldrock Coldsilos  
40 – 80 ton capacity

containerised and non-containerised  
with and without aggregates  
weighing options



# Cold on demand – as simple as it gets!

## Coldrock Dirty Water Chiller CDWC

dedicated dirty water chiller  
400 – 700 kW options

## Coldrock HydroSpiral CHS

70 – 130 tph aggregates cooler,  
reducing aggregate temperatures  
from 45 °C to 5 – 15 °C





# Partnership and know-how

**kabiceMOBIL**



Palm Island

As early as 2005, **KAB-ICE mobil** embarked on a journey to revolutionize ice production in the concrete cooling industry. Recognizing the limitations of energy-intensive and maintenance-prone flaker ice plants, **KAB-ICE mobil** envisioned a more efficient solution and was the first to introduce the “plate ice” plant into the mainstream concrete cooling market.

In 2006 **KAB-ICE mobile** delivered the first sheet ice system in the Gulf to Readymix Abu Dhabi (RMAD) for the legendary Palm Jumeirah project in Dubai. The systems delivered exceptional results that exceeded RMAD’s expectations and demonstrated the significant benefit:

- ▶ lower investment costs
- ▶ 30 – 50 % energy savings
- ▶ reduced maintenance effort
- ▶ reducing total cost of ownership



# From “ice on demand” to “cold on demand”



Al Raha beach with KAB-ICE mobil ice plants

**Coldrock LLC** is a company based in Abu Dhabi and deals exclusively with aggregate cooling. **Coldrock LLC** builds on the long extensive experience of **KAB-ICE mobil GmbH**.

The extensive expertise and years of experience from **KAB-ICE Mobil GmbH** have now transitioned to **Coldrock LLC**. With this combined knowledge, we are launching a groundbreaking innovation for cooling concrete aggregates.

**Concrete cooling is crucial for maintaining quality standards in hot climates. It ensures that concrete production remains controlled and efficient even under extreme temperatures. Additionally, in moderate climates, concrete cooling is essential for projects with specific requirements, such as large concrete volumes or extended processing times.**

# We reinvented aggregatecooling!\*

\* Patent pending

## Contact

Trust in our experience and know-how to enable you to consistently deliver quality temperature-controlled concrete to your customers and projects.



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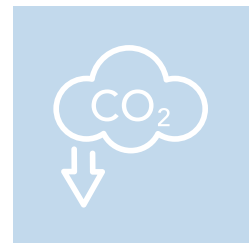
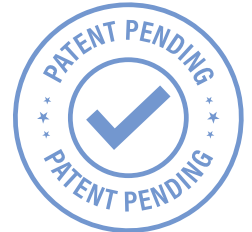


**www.coldrock-llc.com**



## The Cooling Drum Design provides

- ▶ the most compact method for aggregate cooling
- ▶ the most mobile aggregate cooling solution on the market
- ▶ the most energy-efficient way to achieve concrete cooling
- ▶ a closed loop water solution that delivers the fines with the cooled aggregates



**Temperature controlled  
concrete WITHOUT ICE!**









# COLDROCK

COLDROCK – Mechanical Equipment – L.L.C. – S.P.C.

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