Munters OASIS™ IEC Innovative RZ Kühlung

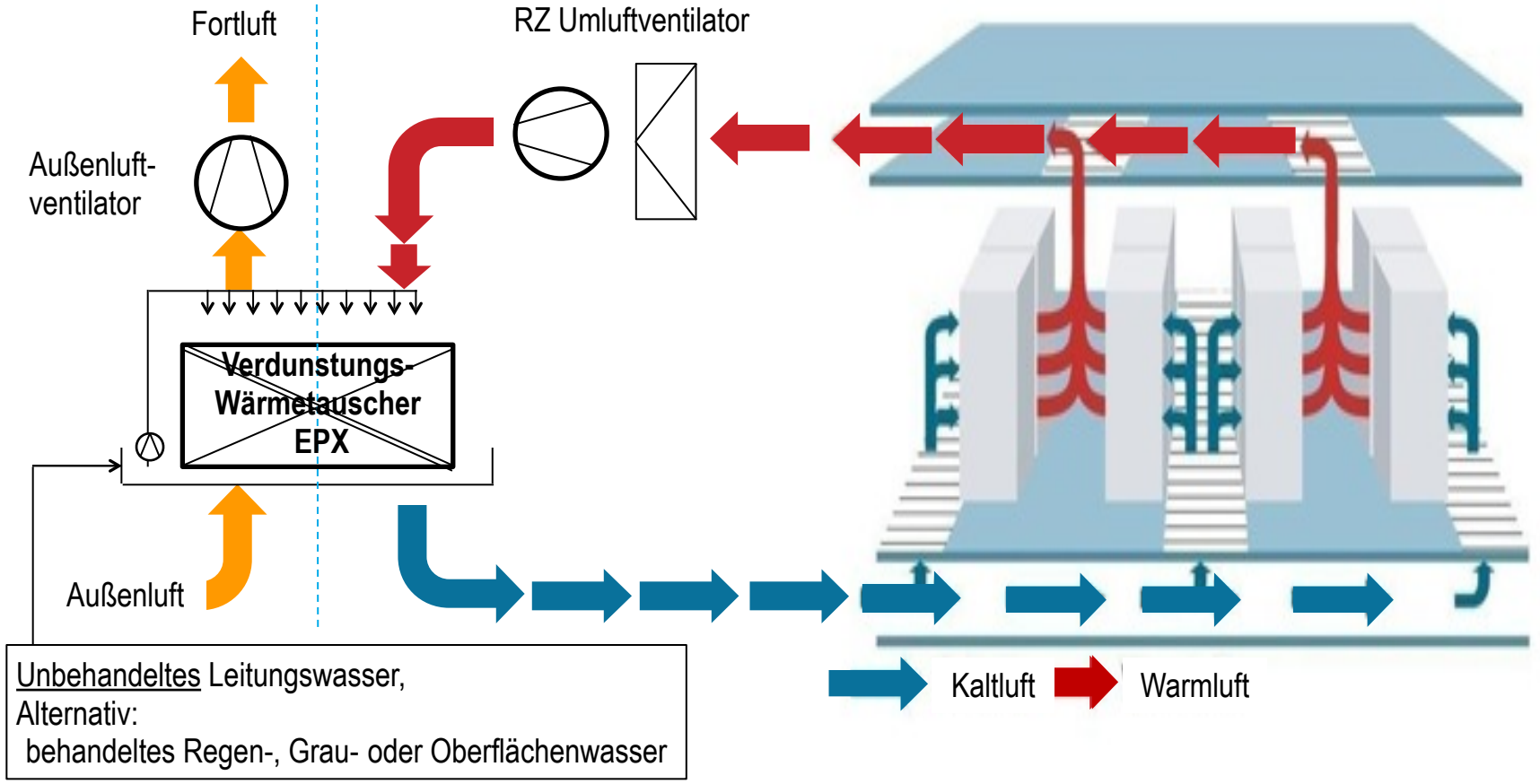
Maximale Effizienz bei der Klimatisierung von Rechenzentren durch indirekte Verdunstungskühlung

Anton Immerz Key Application Manager Data Center

Aufbau des Munters OASIS™ IEC Systems

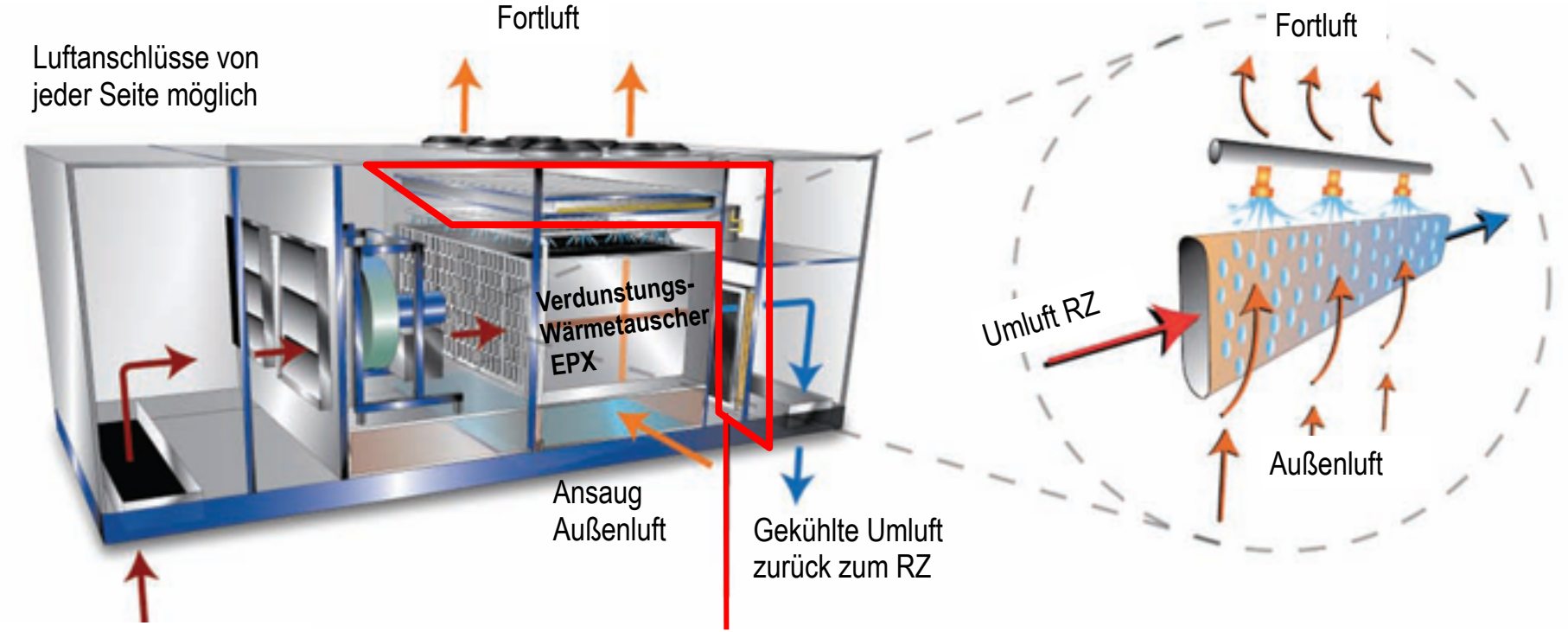
Munters OASIS™ IEC - Schematischer Aufbau:

Außenluft & RZ-Luft sind vollkommen über den Verdunstungswärmetauscher EPX getrennt



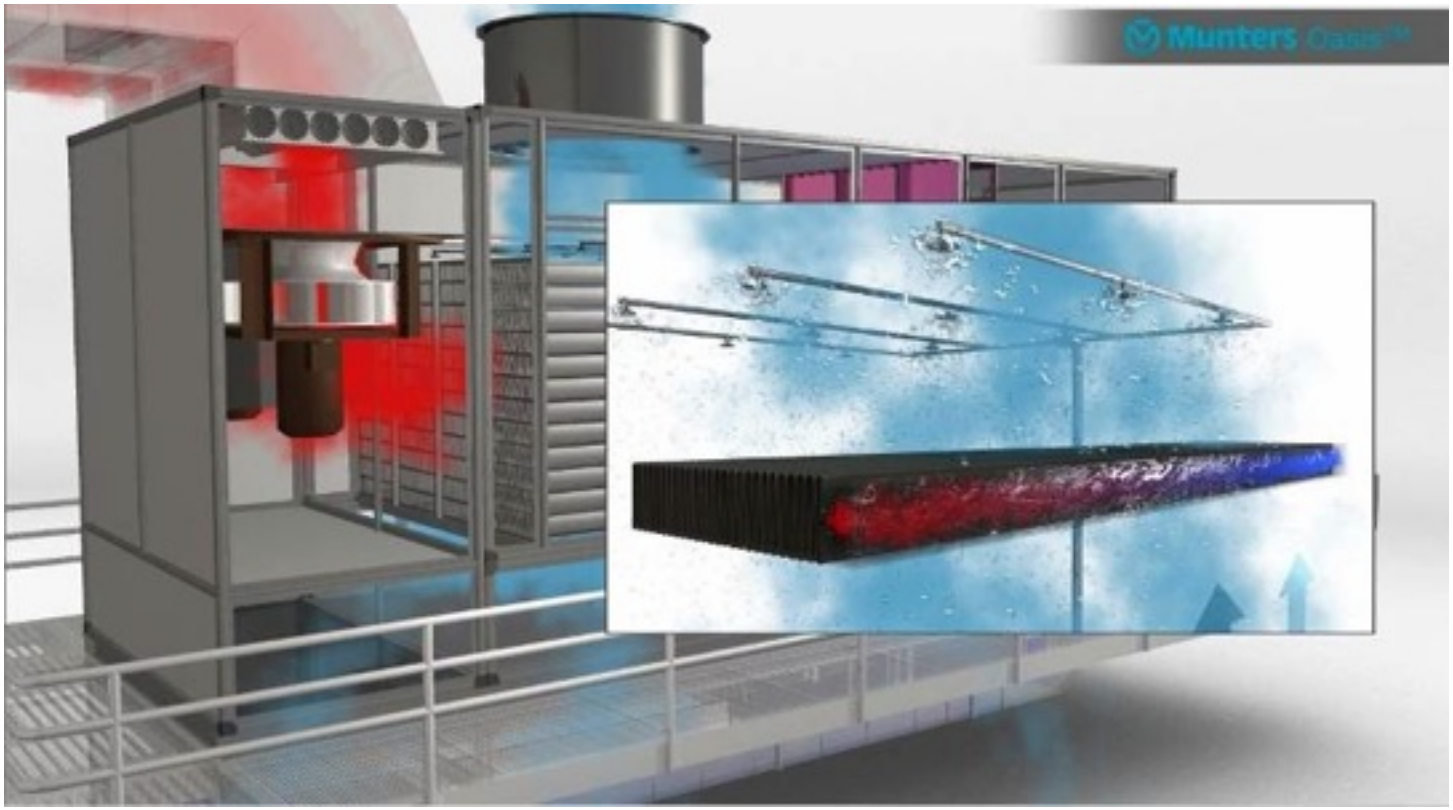
Munters OASIS™ IEC - Das Gerät im Detail

Detailausschnitt aus dem Wärmetauscherblock:



Optional:
Direktverdampfersystem oder Kaltwasserregister zur Unterstützung bei Peakzeiten integriert

Animierte Beschreibung der Funktion



DCO2 Belgien – 5 MW

- Gewinner des Datacenter Dynamics Leadership Award - 'Green Datacentre' 2011 & European Code of Conduct Award for new Data Centre 2011
- System mit freier Kühlung: Staub und Verschmutzungen aus dem umgebenden Ackerland führten zu:

  - häufigen Filterwechseln
  - großem Personalaufwand aufgrund hoher Inspektionsfrequenz
  - erhöhtem Leistungsaufwand der Ventilatoren durch den entstandenen Druckverlust

Lösung: Munters OASIS™ IEC ersetzt das freie Kühlungssystem

DataInn, Lithuania – OASIS™ IEC key to advanced cost efficiency

*"Munters cooling solutions enable us to achieve an annual **PUE of 1.3 or less**, which will make us very cost-effective and competitive in the market.*

Every 0.01 reduction in our PUE represents an energy saving of approximately 210,000 kWh in our data centre."

- Secure, reliable data hall climate
- Data centre air fully separated from outside air
- **65% lower energy** than common free cooling solutions
- 25% reduction in refrigeration, switchgear, generator sets

Data Inn Development Manager Edvinas Bakanas says:

"The Lithuanian electric energy sector, data communication operators and biggest banks need their data to be safe and accessible without interruptions, as well as cost –effective and eco friendly. The high efficiency and innovative design were our main reasons for choosing Munters' OASIS™ IEC"

"The proven technology fits well with the climate conditions in Vilnius and offers a high degree of flexibility, operating in different cooling modes – depending on weather conditions."

DigiPlex Oslo – Largest Indirect Evaporative Cooled DC in Europe

Energy efficiency of 1.12 PUE

DigiPlex

- **Annual pPUE of 1.06**
- Data centre air fully separated from outside
- Lower capital costs on refrigeration/switchgear
- 52 OASIS™ IEC 200's

Greg MCCulloch DigiPlex's Chief Operating Officer:

"Driving energy efficiency in our industry is a major focus for us and this system halves the amount of energy used to keep our servers working at an ideal temperature.

This not only helps save our customers thousands of pounds in energy costs but also ensures that our facilities are amongst the most sustainable in the sector"

Fragen und Antworten