



# OASIS™ DCiE PRODUCT GUIDE

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Data Center Cooling

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Containerised Shipping Solution

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Advanced EPX technology

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Zero ambient air infiltration

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Multiple airflow configurations

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Indirect Evaporative Cooling

MODULAR DATA CENTER COOLING FOR HOT AND HUMID CLIMATES

Ultra High Efficiency

 **Munters**  
Your Perfect Climate

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Critical cooling for data center facilities

# WELCOME



Munters is a global provider of energy efficient air treatment systems with over 300,000 air treatment systems installed worldwide, offices in 30 countries and over 3,000 employees. We are the leading international provider of evaporative air cooling, temperature and humidity control solutions.

Oasis™ DCiE has been developed to satisfy the specific requirements of today's data center facilities.

Munters solutions provide low partial PUE results, reduced CO2 emissions and high energy savings. With a wide range of technical solutions to suit all types of critical facilities, Munters really can provide  
Your Perfect Climate

OASIS™ DCiE  
PRODUCT GUIDE

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Critical cooling for data center facilities

## UNIT PERFORMANCE DATA

### OASIS™ DCiE

Delta T between SA/RA	Total Cooling Capacity
12 °C	250kW
13 °C	280kW
14 °C	300kW
15 °C	350kW

A range of flexible service options available

## FEATURES - OASIS™ DCiE

- ✓ Indirect Evaporative Cooling
- ✓ Zero particulate and gaseous contamination
- ✓ Munters advanced heat exchanger technology - EPX
- ✓ Scalable in increments of up to 70,000 m<sup>3</sup>/h
- ✓ Multiple airflow configurations
- ✓ Optional DX or chilled water trim cooling
- ✓ Optimised for Multi-storey design
- ✓ Suitable for containerised shipping
- ✓ Suitable for all types of fresh water
- ✓ High efficiency EC fan walls

Proven award winning core technology providing reliable class leading performance



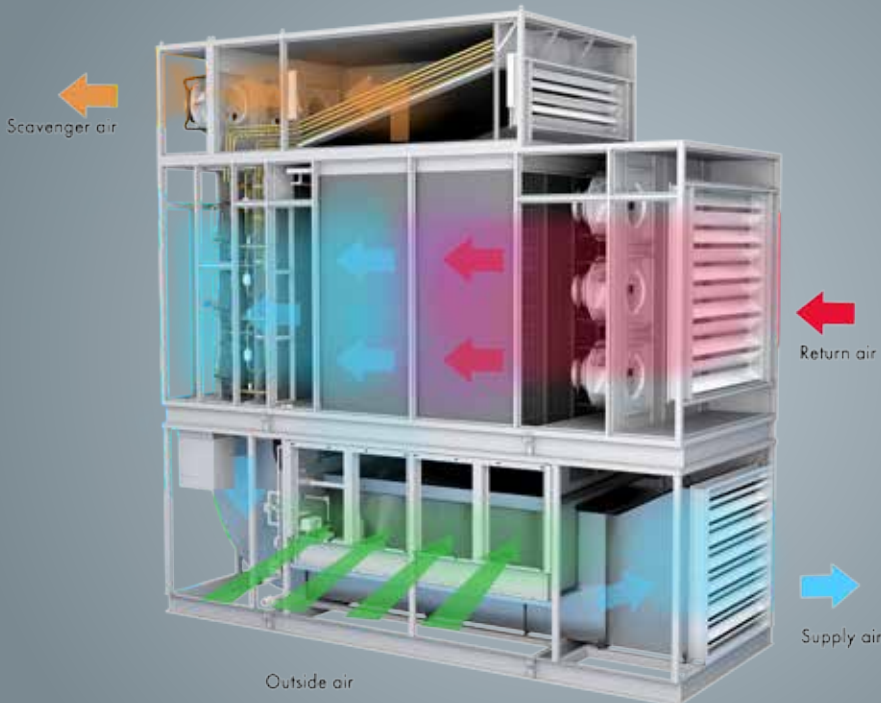


### Oasis™ DCiE

Energy efficient data centre cooling using EPX technology

EFFICIENT  
COOLING

3 MODES OF  
OPERATION



### EPX technology

Evaporative polymer heat exchanger provides single step indirect cooling. Works with any fresh water type

OPTIMISED  
DESIGN

PROVEN  
TECHNOLOGY

See how it works [munters.com/datacenters](https://munters.com/datacenters)

## OASIS™ INDIRECT EVAPORATIVE COOLER - ENERGY SAVINGS VS CHILLERS

1	Harbin (HeiLongJiang), China	69%	11	Wuhan (Hubei), China	58%
2	Urumqi (Xinjiang), China	69%	12	Hangzhou (Zhejiang), China	61%
3	Hohhot, Inner Mongolia	70%	13	Guangzhou (Guangdong), China	54%
4	Beijing, China	63%	14	Hong Kong, Hong Kong	54%
5	Shijiazhuang (HeBei), China	63%	15	Manila, Philippines	42%
6	Tokyo, Japan	67%	16	Kuala Lumpur, Malaysia	42%
7	Zhengzhou (Henan), China	63%	17	Singapore, Singapore	37%
8	Nanjing (Jiangsu), China	61%	18	Perth, Australia	69%
9	Chongqing, China	60%	19	Sydney, Australia	71%
10	Shanghai, China	61%	20	Melbourne, Australia	72%

A summary of the locations assessed and the operational cost savings compared is shown above. This analysis is based on a nominal data hall with 720kW capacity with the savings showing the utility, electricity and water, cost reductions compared to water cooled chillers with CRAH's



# OUR GLOBAL PORTFOLIO OF DATA CENTRE SOLUTIONS INCLUDE...



Cooling



Make up air units



Humidity Control

## Direct Evaporative Cooling

Complete AHU's & Sub-systems

FA6 & DATADEK™

## Humidity Control

Self contained units for direct adiabatic humidity control

HUMIMAX™

## Indirect Evaporative Cooling

Packaged systems

OASIS™

## Design Software

Data centre cooling design software

GENESYS

## Make up air

Complete your design with integrated make up air units

MUA

## Cool Care

Flexible options for warranty, service and parts

GLOBAL SERVICES

## CASE STUDIES

Oasis units are successfully cooling data centers around the globe while helping to achieve challenging energy efficiency targets. Here are just a few examples from a long list of delighted customers.



### DigiPlex - Norway

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

Greg McCulloch, Chief Operating Officer

10MW COOLED

Read the full story  
[munters.com/digiplex](https://munters.com/digiplex)

### Mentor Graphics - US

"The result of using this quality equipment and the detailed design process has allowed us to be efficient on day one, and from this point on we are saving money, energy, and everything is working correctly."

John Wozniak, MGC's Infrastructure Technician

1 MW COOLED

Read the full story  
[munter.com/mentorgraphics](https://munter.com/mentorgraphics)





### Data Inn - Lithuania

"The high efficiency and innovative design were the main reasons we chose Munters'

Oasis™ IEC. These units offer a high degree of flexibility, with the possibility of operating the system in different cooling modes – depending on weather conditions."

Edvinas Bakanas, Product Dev. Manager

### 2.5MW COOLED

Read the full story  
[munters.com/datainn](https://munters.com/datainn)

### Equinix LD6 -UK

"LD6 is a hugely exciting project; the facility will be the most advanced data centre in the UK. We are committed to providing continuous improvement for our customers and set new standards in efficiency and sustainability."

Russell Poole, Managing Director of Equinix UK

### 8MW COOLED

Read the full story  
[munters.com/equinix](https://munters.com/equinix)

For further details on Munters data centre installations please visit [www.munters.com/datacenters](https://www.munters.com/datacenters)

# DATA CENTER TESTING FACILITIES



## Arrange a visit to our fully functional simulation cooling facility

The Munters test facility - located within the Belgian Manufacturing plant in Dison, is able to simulate different load performance tests under a wide envelope of simulated external conditions.

- ✓ Leakage testing
- ✓ Controls and Alarm simulation testing
- ✓ A visual inspection of the unit
- ✓ Variable load/performance testing, 1.7°C up to 33°C WB
- ✓ Real server rack simulation over 300kW load

# GLOBAL SERVICES

Service options to suit you, from critical spares to full training and education.

## Cool Care

Flexible service and support solutions, tailored to suit your needs.

24/7 /365 SUPPORT

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### OFFERING

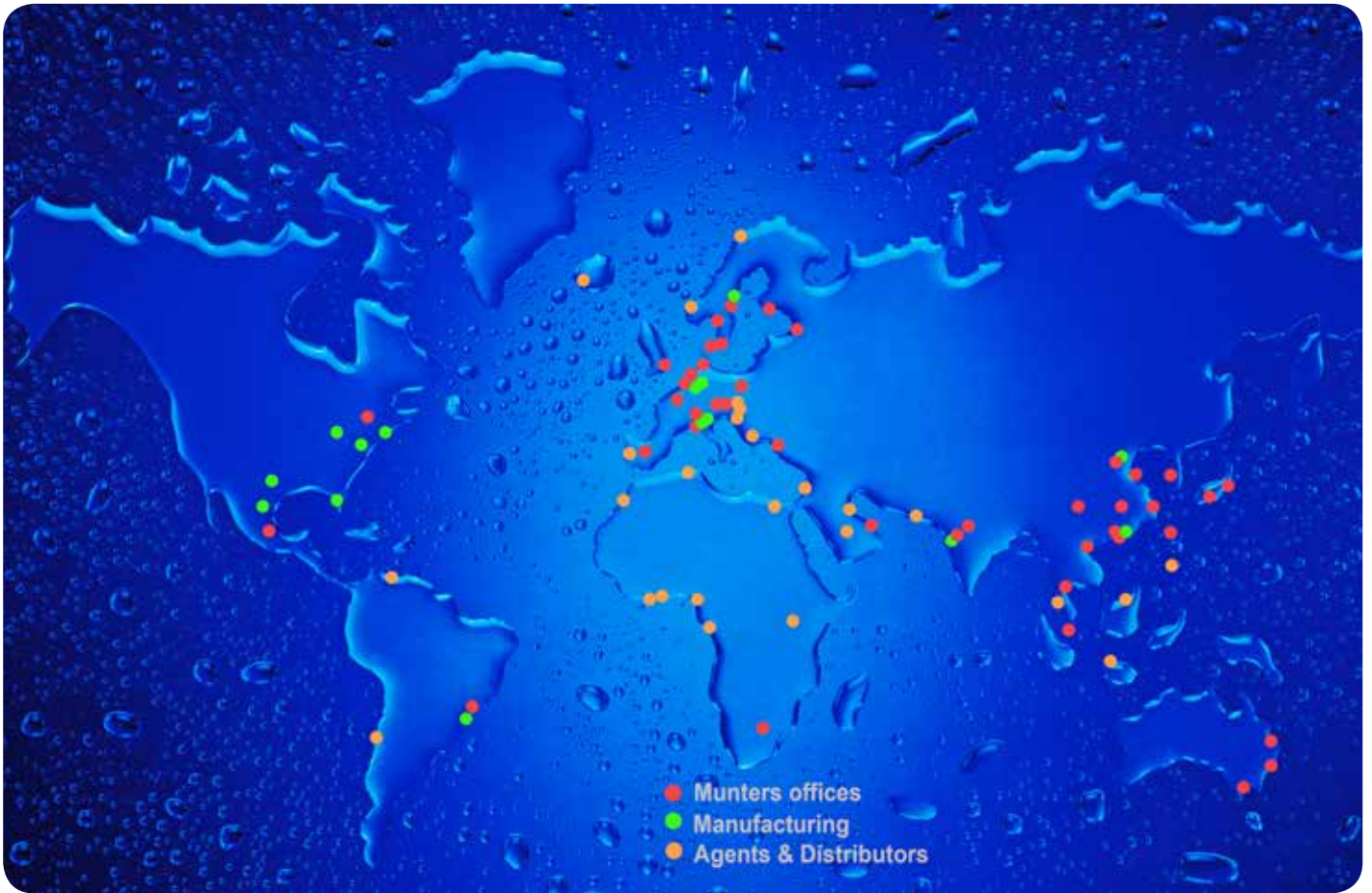
- ✓ Flexible service plans
- ✓ Remote monitoring
- ✓ 24 / 7 / 365 Support
- ✓ Extended warranty options
- ✓ Critical spare parts
- ✓ Dedicated training facility

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In-house dedicated service teams. Global application expertise.

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More information on [munters.com/service](https://munters.com/service)



## An international name, where the customer comes first.

Munters, part of Nordic Capital, has offices in 30 countries and over 3,000 employees in many branches around the world. We are global leaders in energy efficient air treatment for comfort, process and environmental protection. Munters shares ideas within its international network, giving the Group an outstanding reputation as a reliable, fast-acting and customer-orientated expert in air conditioning. Munters philosophy of customer satisfaction is central to our decision-making. When developing and manufacturing our systems, we see happy customers as our number one target. And this is what our employees strive to ensure every day.

For more information on Munters, please visit [www.munters.com/datacenters](http://www.munters.com/datacenters)



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