



REFERENCE CATALOGUE

COMMERCIAL APPLICATIONS



DAIKIN

The perfect working environment is essential for all businesses. From supermarkets to offices, from public buildings to hotels, from restaurants to shops it is essential that the quality of the air is optimised at all times – but no space is used in exactly the same way and that calls for flexible, tailored and economic solutions.

Daikin, the innovation leader for more than half a century, understands this and its 'total solution' concept is built around customised solutions for individual clients. Whether air conditioning, heating, ventilation, air curtains or refrigeration, Daikin has the units, the experience and the solution for you.

Learn all about our customer experiences here.





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PUBLIC BUILDING



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OFFICE, STORE & SHOP,
RESIDENTIAL



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PORTA FIRA

HOTEL SANTOS PORTA FIRA

www.hotelbarcelonaportafira.com

Plaza Europa, 45 - 08908 - Hospitalet de Llobregat, Barcelona
SPAIN

Installation year: 2011

Application: Hotel

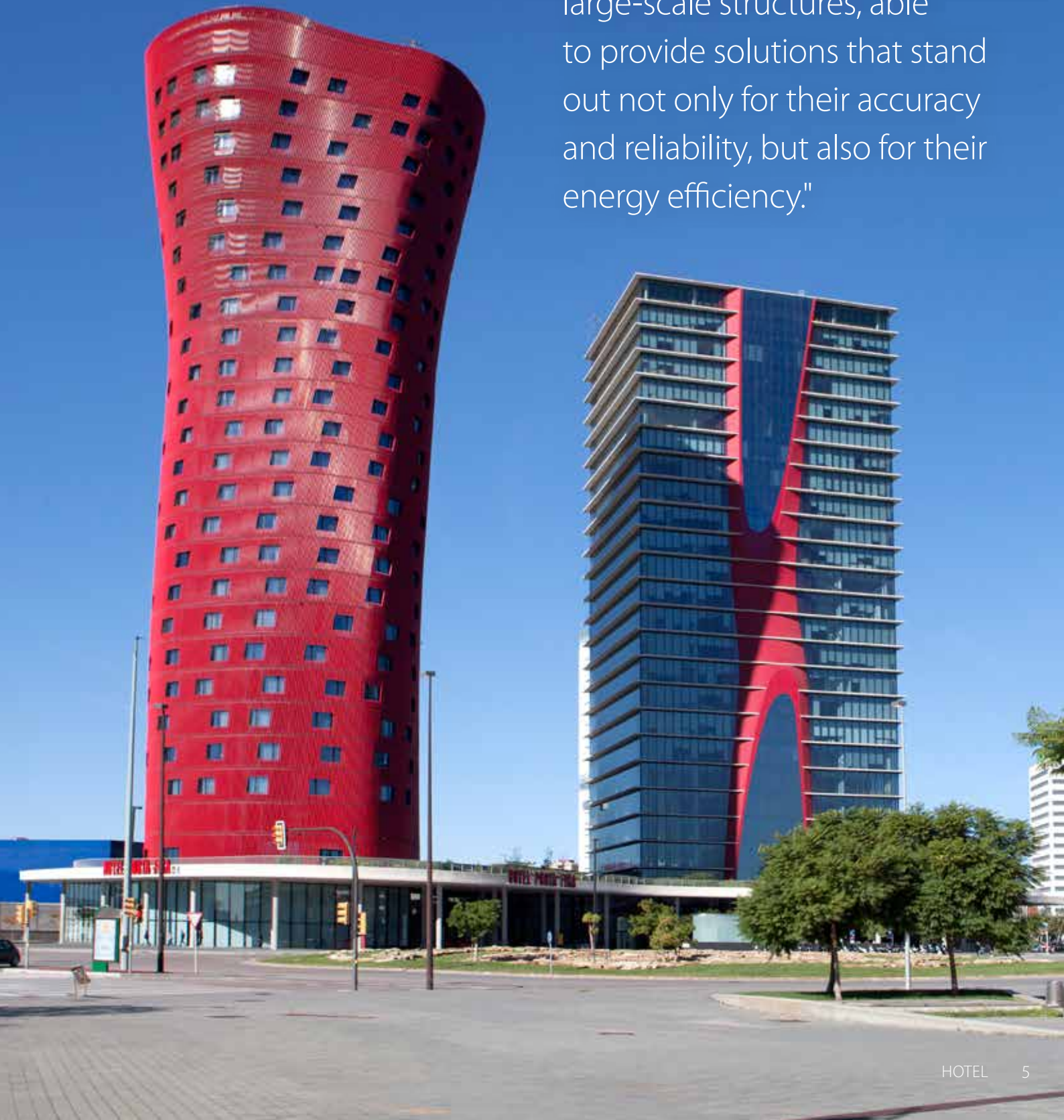


SYSTEM 74 outdoor units (60 x VRV heat recovery outdoor units) controlled via Intelligent manager; 664 indoor units; 2 x air cooled chillers (EWAD 600 BJYNN/Q)

PROJECT Daikin was chosen to meet the high standards of comfort for this unique hotel of 24 floors and 113m high, with the installation of 74 outdoor units and 664 indoor units and two R-134a air cooled chillers with single screw compressor

NEED Heating
WHY DAIKIN The customer is a strong supporter of Daikin 's quality and has been installing Daikin equipment since 1996.

"This project reinforces Daikin's position as a leader in the air conditioning of large-scale structures, able to provide solutions that stand out not only for their accuracy and reliability, but also for their energy efficiency."



CRYSTAL TOWER

HIGH-END OFFICE BUILDING

www.crystaltower.ro

48 Iancu de Hunedoara boulevard, Bucharest,
ROMANIA

Installation year: 2011

Application: Office

BREEAM design phase:
Excellent rating



SYSTEM 70 x VRV water cooled units + 280 VRV indoor units; 4 x air cooled water chiller (2 x EWAD720C; 2 x EWAQ150DAYN) **PROJECT** Water loop for VRV water cooled modules + boilers & cooling towers . Surface covered by the installation: 16,900 m² (15 floors in total) **NEED** Air conditioning, Control **WHY DAIKIN?** Extreme high energy efficiency at partial loads.

"Crystal Tower demonstrates that energy efficiency can be achieved, even for a difficult urban site and compact built surfaces. Quality of design, incorporating the use of the newest technologies, shows it is possible to transform a mono-volume building into a strong and interesting presence for the city."



DE KLIMAATBEHEERSER

NZEB PROJECT

www.deklimaatbeheerser.nl

Skoon 74, 1511 HV Oostzaan

THE NETHERLANDS

Installation year: 2012

Application: Office building

The nZEB showroom of De Klimaatbeheerser was established thanks to a mix of Daikin heat pump technologies.



SYSTEM Daikin Altherma floor standing unit with buffer tank; ventilation (1 x VAM); 1 x VRV outdoor unit + BPMKS box; 5 x VRV indoor units **PROJECT** Total surface: 2,000 m² **NEED** Air curtain, Hot water with solar connection, Heating, Ventilation, Air conditioning.

BISTRO MATHILDA

RESTAURANT

www.bistromathilda.be

Leopold II-laan 1, 8400 Oostende

BELGIUM

Installation year: 2011

Application: Restaurants



SYSTEM 1 x refrigeration ZEAS unit (LRMEQ6AY1); 1 x LCBKQ3AY1 (booster unit) . 11 users of which 2 negative . Positive capacity 6.41Kw for -10°C . Negative capacity 1.9kW for -30°C **PROJECT** Total renovation and expansion of the restaurant. Surface covered by the installation: 200 m² **NEED** Positive and negative cooling in one system **WHY DAIKIN** Good experience in the past and positive collaboration with installer.

BOUVIER & CO

RESTAURANT

www.jeanmichelbouvier.com

Glacier de la Grande Motte, 73320 Tignes
FRANCE
Installation year: 2012
Application: Restaurants

At 3,032m
it's the highest
operating
VRV system!



SYSTEM 1 x VRV III heat pump outdoor unit (RTSYQ); 8 x VRV indoor units (5 x cassette; 2 x wall mounted; 1 x ceiling suspended)
NEED Heating, Air conditioning. **WHY DAIKIN** Need for renewable energy plus experience of Ventimeca who had already installed a VRV at ~1,700m and who personally warranted that the solution would operate perfectly at 3,032m.

KAFFEE PARTNER

ADMINISTRATION BUILDING AND STORAGE

www.kaffee-partner.de

Kaffee-Partner-Allee 1, 49090 Osnabrück

GERMANY

Installation year: 2012

Application: Office



SYSTEM 7 x VRV heat pump outdoor units: (2 x RXYQ12P9; 2 x RXYQ14P9; 1 x RXYQ16P9; 1 x RXYQ22P; 1 x RXYQ8P9); 3 x ERQ250AW1; 114 x VRV indoor units: (2 x FXSQ20P; 13 x FXSQ40P; 5 x FXZQ15M9; 21 x FXZQ20M9; 26 x FXZQ25M9; 4 x FXZQ32M9; 9 x FXZQ40M9; 4 x FXZQ50M9) **PROJECT** A chiller was planned in the original concept; but then it was decided to install 7 VRV systems (total cooling capacity approx. 272 kW, leading to a lower investment, a reduction of energy and less required space. In total, 70 offices and meeting rooms on 4 floors are air conditioned **NEED** Air conditioning, Control.

"Kaffee Partner chose
Daikin VRV for its efficiency,
low investment and small
footprint."



ZIGGO DOME

MUSIC AND EVENT HALL

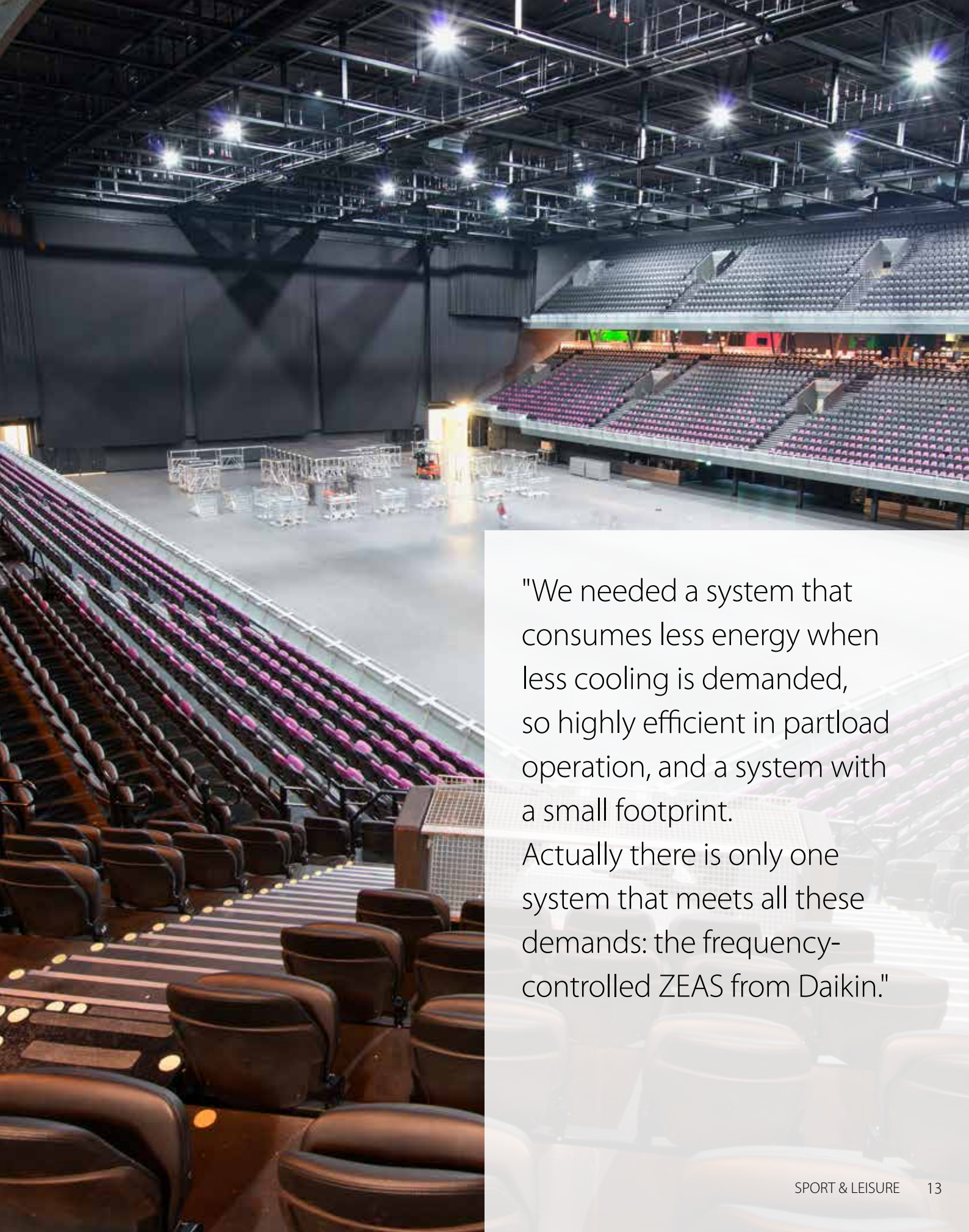
www.ziggodome.nl

De Passage 100, 1101 AX Amsterdam
THE NETHERLANDS
Installation year: 2012
Application: Sport & Leisure



SYSTEM Refrigeration ZEAS (6 x LRMEQ20AY1, 2 x LRLEQ5AY1, control via ModBus interface

PROJECT The Netherlands' newest and most energy efficient music hall, Ziggo Dome in Amsterdam, has been equipped by Daikin . The refrigeration units installed meet the requirements to cool and freeze drinks and food in 218 locations **NEED** Refrigeration **WHY DAIKIN** The only manufacturer that offers a solution that meets all requirements : energy efficient at partial load, easy to install, small installation space needed.



"We needed a system that consumes less energy when less cooling is demanded, so highly efficient in partload operation, and a system with a small footprint.

Actually there is only one system that meets all these demands: the frequency-controlled ZEAS from Daikin."

CINEMEERSE

LARGE CINEMA

www.cinemeerse.nl

Raadhuisplein 12, 2132 TZ Hoofddorp
THE NETHERLANDS
Installation year: 2012
Application: Sport & Leisure, Restaurants



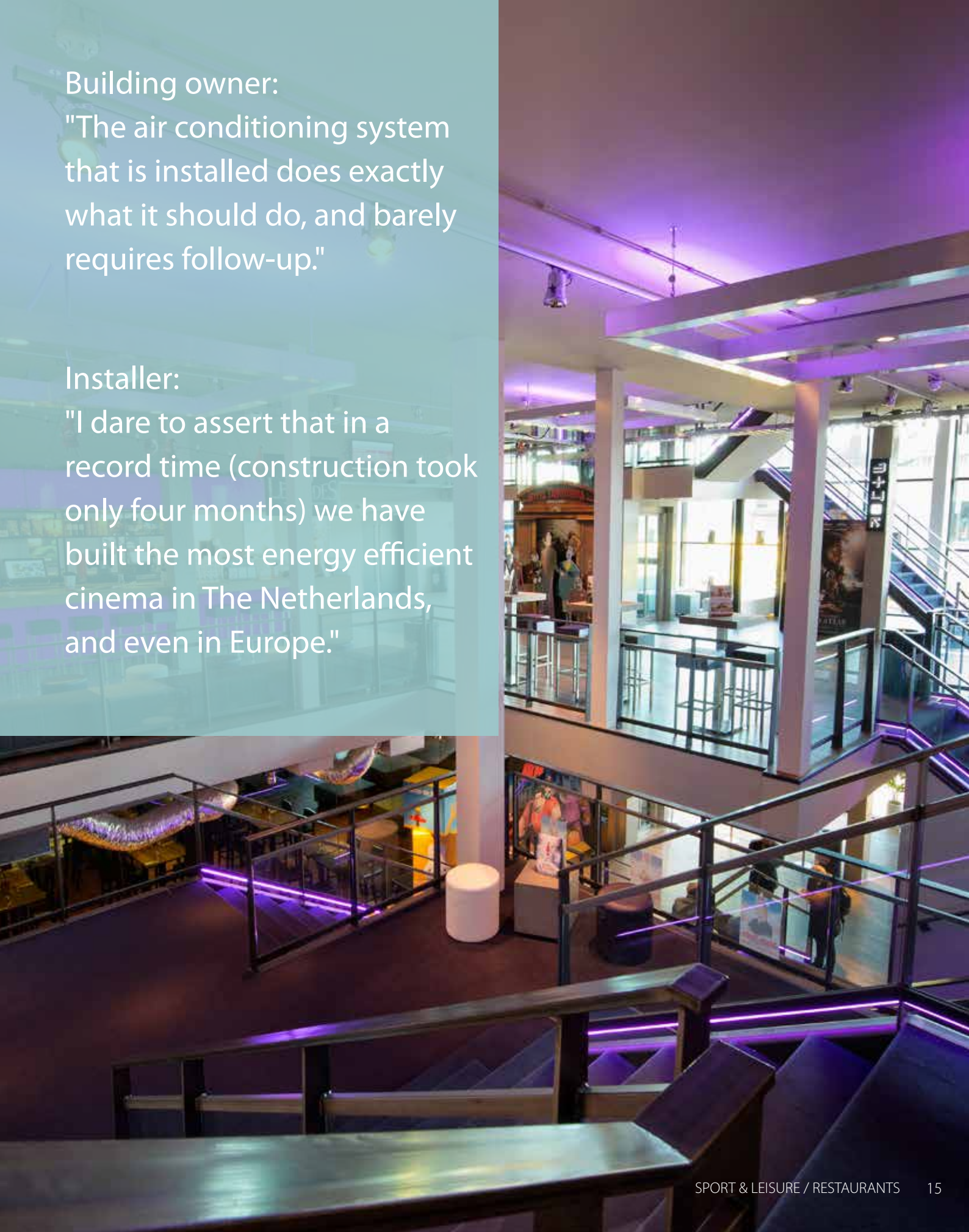
SYSTEM 12 x VRV heat recovery 8HP outdoor units; air handling units with VAV (70,000m³/h) connected to CO₂ sensors **PROJECT** Efficient and quickly responding air handling system with accurate control of the supply air temperature **NEED** Heating, Air conditioning, Ventilation **WHY DAIKIN** Continuous heating ensuring comfort at all times.

Building owner:

"The air conditioning system that is installed does exactly what it should do, and barely requires follow-up."

Installer:

"I dare to assert that in a record time (construction took only four months) we have built the most energy efficient cinema in The Netherlands, and even in Europe."



LABO LADR

MEDICAL LABORATORY

www.ladr.de

Lauenburger Straße 67, 21502 Geesthacht
GERMANY
Installation year: 2012
Application: Pharmaceutical

Total building approach using
waste heat for offices and
allowing individual control



SYSTEM 4 x VRV heat recovery outdoor units (1 x REYQ42P8; 1 x REYQ44P8; 1 x REYQ46P8; 1 x REYQ48P8); 2 x Sky Air outdoor units (RZQ200C); 4 x Sky Air indoor units (FHQ100B); ventilation via air handling units; control via Intelligent Touch Controller **PROJECT** Heat recovery (the waste heating energy of the laboratory is used to heat the offices in winter), all rooms are individually adjustable, the laboratory is provided with fresh air by the air handling unit (needed air flow rates of 20,000 m³/h) **NEED** Ventilation, Air conditioning, Control.

LONZA

BIOPHARMACEUTICAL

www.lonza.com

Parc Industriel de Petit-Rechain
4800 Verviers
BELGIUM
Installation year: 2010
Application: Pharmaceutical



Energy is key when
replacing an old installation



SYSTEM 2 x air cooled water chillers (1 x EWAD260AJYNN/X; 1 x EWAD360AJYNN/A) **PROJECT** Precise temperatures in both the supply of cold water and cold air were crucial in this project **NEED** Cooling, Air conditioning.

HENRI COANDA INTERNATIONAL AIRPORT

www.bucharestairports.ro

Calea Bucureștilor 224E, Otopeni 075150
ROMANIA
Installation year: 2012
Application: Public building



SYSTEM 2 x water cooled water chiller (EWWQC15B-XS); 9 x air handling units **PROJECT**
18,000 m² representing around half of the entire surface **NEED** Ventilation, Air conditioning.



EDEKA BUSCHKÜHLE

SUPERMARKET / SHOP

www.einkaufen-erleben.de

Quellenstraße 17, 59556 Lippstadt
GERMANY
Installation year: 2010
Application: Store & Shop



SYSTEM 2 x refrigeration Conveni-Pack units (LRYEQ); 1 x refrigeration ZEAS unit (LREQ) **PROJECT** The 2 Conveni-Pack systems supply 32m of service counters, 12.5m of convenience fridges, one cooling storage room for fruits, an air curtain and 5 indoor units; the ZEAS system supplies two deep freezers with a total capacity of 5 kW **NEED** Refrigeration, Air conditioning, Air curtain.

IBM SLOVAK TELECOM

TELECOM DATACENTER

www.telekom.sk

Varsavska 24, Bratislava
SLOVAKIA
Installation year: 2011
Application: Data Centers

SYSTEM 3 x water cooled water chillers (EWWD950EJYNN) **PROJECT** Cooling the data center
Total surface: 1,200 m² of IT halls **NEED** Cooling.



THE RANGE SUPERSTORE



www.therange.co.uk

CDS / group

www.cdsgroup.uk.com

Winwick Road, Warrington WA2 7NY
UNITED KINGDOM
Installation year: 2013
Application: Store & Shop

"We were very happy to work with Daikin UK to incorporate one of the latest fully integrated renewable systems that would provide heating, hot water, and air conditioning, allowing The Range at Warrington to have a fully controllable system with operation flexibility according to requirements."

Brad Hurter, CDS Group



SYSTEM VRV III heat recovery outdoor unit; 7 x VRV IV heat pump with continuous heating outdoor units (RYYQ-T); 71 x round flow cassette indoor units; RTD control; I-touch Manager **PROJECT** Total HVAC solution . Both VRVIII heat recovery and VRV IV heat pump provide continuous heating ensuring comfort at all times . Both systems allow integration of hot water, ventilation and air curtain for a fully integrated approach . Total surface: 7,800 m² **NEED** Heating, Ventilation, Hot water, Air conditioning, Control **WHY DAIKIN** They required a solution to provide the right levels of climate control, balanced with energy efficiency.

EDIFICIO CONTENEDOR DE INSTITUTOS R & D BUILDING

www.unex.es

Universidad de Extremadura (Campus Badajoz)

Avda. de Elvas, s/n 06071 Badajoz

SPAIN

Installation year: 2013

Application: Public building



SYSTEM VRV: 15 x VRV IV heat pump with continuous heating outdoor units (RYYQ-T (254hp); 123 x VRV indoor units (54 x FXSQ-P; 28 x FXHQ-MA; 25 x FXZQ-A; 8 x FXAQ-P; 8 x FXLQ-P); ventilation: 5 x ERQ-A; 5 x EKEQFCB+EV; control: via Intelligent Touch Manager . Surface covered by the installation and total surface: 5,000 m² **NEED** Ventilation, Air conditioning, Control.



"Both from a technical and efficiency point of view, we could offer the best solution, but, most important, the complex solution was made look easy for the customer as he only had one point of contact for both the HVAC systems and controls. A service only Daikin could offer."

SKYTOWER PROJECT

www.skytower.pl

53 - 332 Wrocław, ul. Powstańców Śląskich 95

POLAND

Installation year: 2012

Application: Office, Store & Shop, Residential



SYSTEM VRV: 8 x VRV III heat recovery outdoor units (8 x REMHQ12P8); 151 x VRV III heat pump outdoor units (57 x RXYQ18P9; 1 x RXYQ8P9; 1 x RXYQ10P9; 5 x RXYQ12P9; 2 x RXYQ16P9; 21 x RXYSQ4P8Y1; 2 x RXYSQ5P8Y1; 2 x RXYSQ6P8Y1); 653 x VRV indoor units; Ventilation: 10 x ERQ250AW1; 154 x VAM500FA; 90 x VAM250FA; 42 x VAM800FA; 12 x VAM600FA

PROJECT Air conditioning & ventilation + BMS Bacnet IP . Surface covered by the installation: 4,2000 m² . Total surface: 22,0000 m²

NEED Ventilation, Air conditioning, Control.

"The high quality of presales service provided by the Daikin sales team, the proposed solution with proven reliability from past references and extensive research to offer the best solution convinced the customer."



ICEBAR BY ICEHOTEL

RESTAURANT

www.belowzerolondon.com

Heddon Street, London, W1
UNITED KINGDOM
Installation year: 2012
Application: Restaurants



SYSTEM 2 x refrigeration ZEAS units; 1 x VRV heat recovery outdoor unit with hot water production; biddle air curtain; ventilation: VAM to provide tempered fresh air and free cooling when available **PROJECT** The refrigeration system was required to work in conjunction with a total climate control solution that would provide air conditioning, heating and ventilation to the bar, restaurant, kitchen and washroom areas. **NEED** Refrigeration, Air curtain, Ventilation, Hot water, Air conditioning, Control.

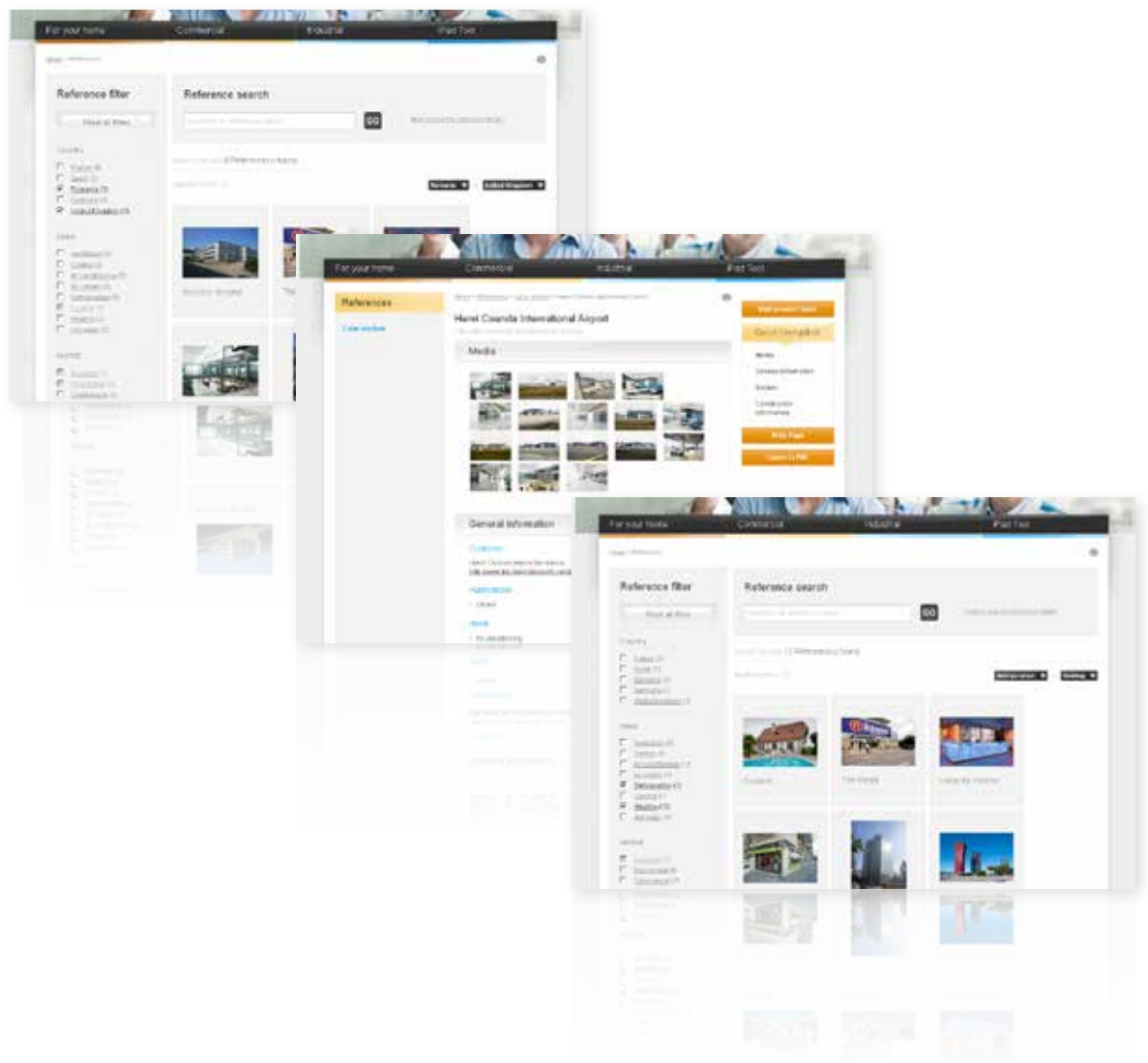
"We had been meaning to upgrade our heating, ventilating, air conditioning and refrigeration systems in our restaurant and Icebar for a while.

Ascertaining the correct comfort levels for our customers in the restaurant was of prime importance and had to be balanced against energy loss from the large open entrance doors. This challenge, combined with the constant heat gains in the carefully maintained -5°C atmosphere of Icebar, led us to work very closely with Daikin UK to design a controlled installation for the whole venue, which will lead to heat recovery savings of over 50% by using new technology."

Alex de Pommès, Icebar's Director

WANT TO SEE MORE REFERENCES?

Visit www.daikineurope.com/references





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