

Success case study

Hotel Van der Valk, Mons



A Daikin total solution



Welcome

to our comfort zone

Run as a family business, Van der Valk is the largest Dutch international hospitality chain operating nearly 100 hotels. One of their key strategies is to offer 4 star comfort at 3 star pricing.

“Our expectation for our hotel in Mons was in line with our overall strategy. Getting a green key certification by using tripple glazing, LED lights and efficient heating, cooling and hot water production. Daikin is a good partner as one supplier offers all the needed equipment and they offer a complete maintenance contact including monitoring and control of equipment.”

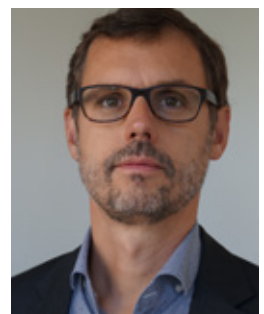
Mathieu Wohrmann,
manager Van der Valk hotel Mons



Mathieu Wohrmann,
manager
Van der Valk hotel Mons

“We were happy to be able to meet the objectives set out by Mathieu. We provided a solution delivering low energy consumption but with comfort and reliability and a single point of contact.”

Lieven Verstaen,
Product manager VRV, Daikin Belgium



Lieven Verstaen,
Product manager VRV,
Daikin Belgium

An integrated approach to deliver the lowest environmental impact

Every area of the hotel has its own requirements
but each needs to have an optimal solution



Heating &
cooling



Ventilation



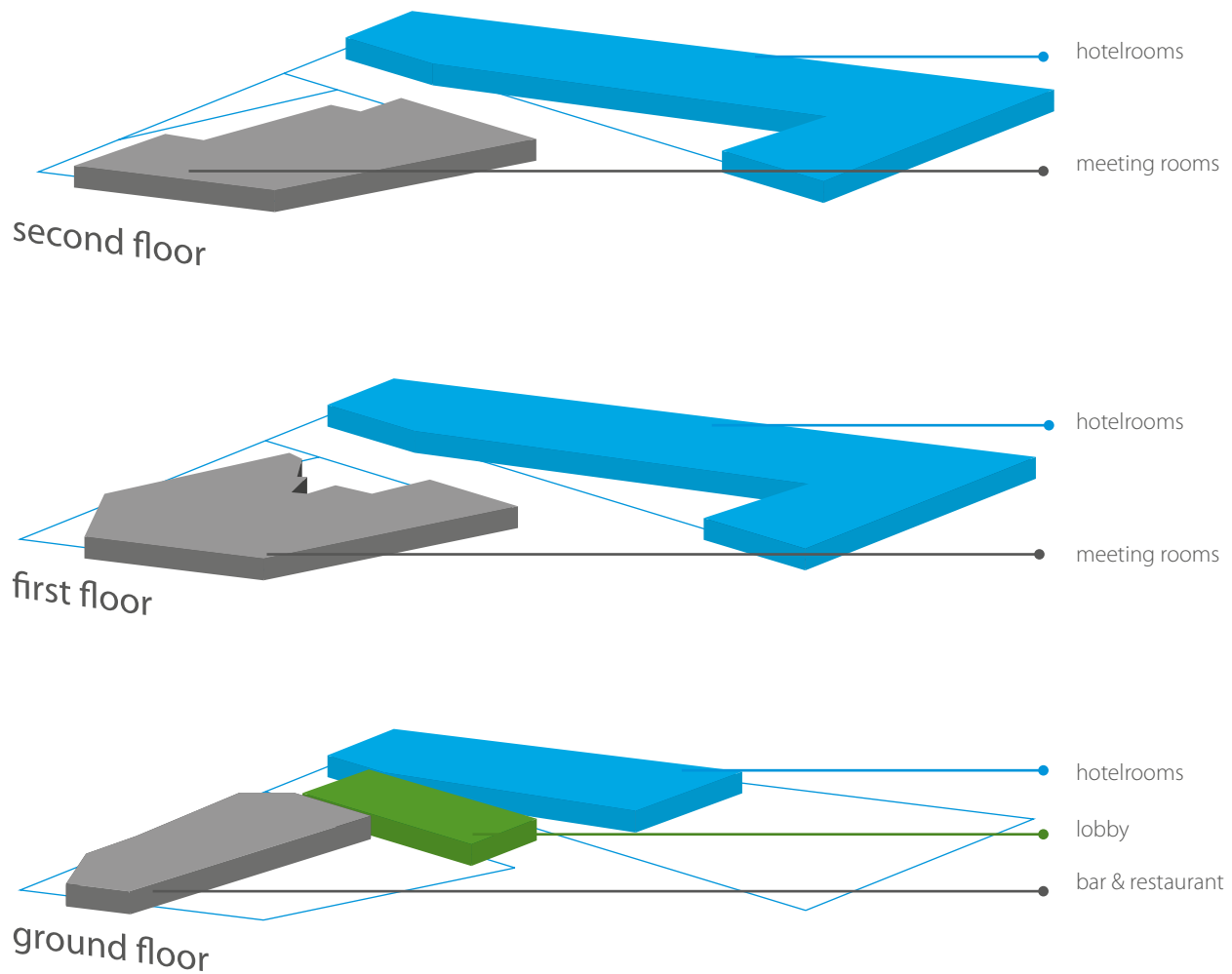
Hot water



Refrigeration

Guest zone

- | | |
|--|----|
| Entrance lobbies have specific challenges | 06 |
| › that all-important 'first impression' | |
| › zones of optimal comfort for customers and staff | |
| › total climate control | |
| Hotelrooms are the customers' home-from-home | 10 |
| › optimal work and living temperatures | |
| › intuitive icon-driven controls | |
| › hot water on demand | |
| › avoiding energy wastage | |
| Restaurants and meeting rooms need flexible solutions | 14 |
| › optimal comfort for changing usage | |
| › group size is no issue | |
| › perfect ventilation to keep everyone in their optimal zone | |



Technical zone

Integrated solutions designed for optimum performance 18

- > customised for the exact requirements
- > everything works together in a plug-&-play mode
- > all equipment delivers fast response times for maximum flexibility
- > integrated control systems give great control from a single point
- > using the highest efficiency units results in the lowest environmental impact.
- > everything backed up by a one-point-contact for service and maintenance.

Kitchens are hot spots that need cooling 24

- > refrigeration is a must for perfect freshness
- > a perfect working environment means great food

Guest area

Ensure a good first experience

You want to make a good first impression on your customers and ensure your reception staff are comfortable as well.

A wide range of units enables you to create invisible zones in the lobby to meet the required comfort everywhere.

A man in a dark blue suit and red tie is standing in a modern hotel lobby, talking on a mobile phone. He is positioned next to a reception desk with a blue illuminated base. The lobby features large, black, dome-shaped pendant lights hanging from the ceiling. In the background, there is a staircase with a glass railing and a display of wine bottles. The overall atmosphere is clean, professional, and contemporary.

“ The lobby is the first and last contact a customer has with our hotel. It should be welcoming both in summer and winter.

Hotel Van der Valk chose:

Comfort for guests and staff

- ☑ Concealed ceiling units create comfort zones within the lobby, meeting the different needs of guests and staff
- ☑ Daikin Variable Refrigerant Temperature technology ensures the optimal comfort levels by avoiding cold draughts

Centralised control & management

- ☑ Central control of the entire HVAC-R solution
- ☑ Easy to set schedules
- ☑ Easy integration in front-desk controls with remote access
- ☑ BMS functions integrated such as alarm inputs, control of lights, ...

 Intelligent Manager







“ In our rooms our guests should be able to relax and everything should work intuitively. Of course, at the best possible running cost.

Hotelrooms

Guest comfort is what it is all about.
Invisible comfort, easily managed by the guest
AND the owner.





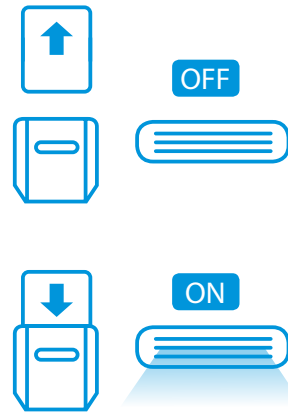
Hotel Van der Valk chose:



Control

Intuitive control that saves energy

- ✓ Icon-driven so there is no language problem
- ✓ Individual control for guests to choose their own comfort levels, within set limits avoiding misuse
- ✓ Key card or window contact connection to save energy
- ✓ Link to front desk for easy control & monitoring



Heating & cooling

Maximum guest comfort



Ventilation

- ✓ Concealed ceiling units are unnoticed in the interior and have a low built-in height
- ✓ Quiet indoor units ensuring a good night's rest (down to 27 dBA)
- ✓ Unnoticed draft-free cooling and heating
- ✓ Integrated ventilation
- ✓ Integrated drain pump for maximum reliability



Hot water

Efficient hot water production

- ✓ Hot water up to 80° C
- ✓ Unlimited hot water production
- ✓ 30% more efficient than standard hot water gas boilers

BENEFITS FOR GUESTS



INDIVIDUAL & INTUITIVE COMFORT



UNNOTICED



INTUITIVE CONTROL

BENEFITS FOR HOTEL OWNER



HEAT RECOVERY BETWEEN DIFFERENT ROOMS/ZONES



SAVE ENERGY WITH KEY CARD CONNECTION



30% SAVINGS IN HOT WATER PRODUCTION

Restaurant & meeting rooms

*Delivering maximum flexibility
to meet changing usage*







Hotel Van der Valk chose:



Control

Zoneable cooling and heating

- ☑ Easy to zone the large areas and ensure even comfort throughout the room
- ☑ Unnoticed draft-free cooling and heating
- ☑ Central control from the front desk
- ☑ Connection to highly efficient VRV IV outdoor units



Heating & cooling



Ventilation

Integrated fresh air

- ☑ High volumes ensure that comfort is guaranteed even for large groups
- ☑ Integration in the central control system
- ☑ Heat recovery from outgoing air for maximum efficiency
- ☑ Fast reaction time to changing loads thanks to integration in the DX system
- ☑ Integrated in the HVAC-R control and monitoring system

BENEFITS FOR GUESTS



INDIVIDUAL & INTUITIVE COMFORT



FRESH AIR



UNNOTICED

BENEFITS FOR HOTEL OWNER



CENTRAL CONTROL AT THE RECEPTION DESK



HEAT RECOVERY BETWEEN DIFFERENT ROOMS/ZONES



Technical area

Roof, basement & surroundings

Fitting in all the equipment needed while losing as little usable space as possible is always a challenge.

Quiet & compact units enable maximum flexibility to fit the technical equipment indoors or outdoors.

The choice for quality and support gives the peace of mind to focus on your business.

“ *The equipment should do the job.
We want to be ready for our guests 24/7* ”

As the ground where the hotel is built has a lot of heat the preference was for a geothermal system. However, the area for groundloops was limited and so an additional air-cooled system was installed.

Only Daikin could offer such a fully integrated system with geothermal heat pumps, gas boilers and air handling units.







Hotel Van der Valk installed:



Heating & cooling

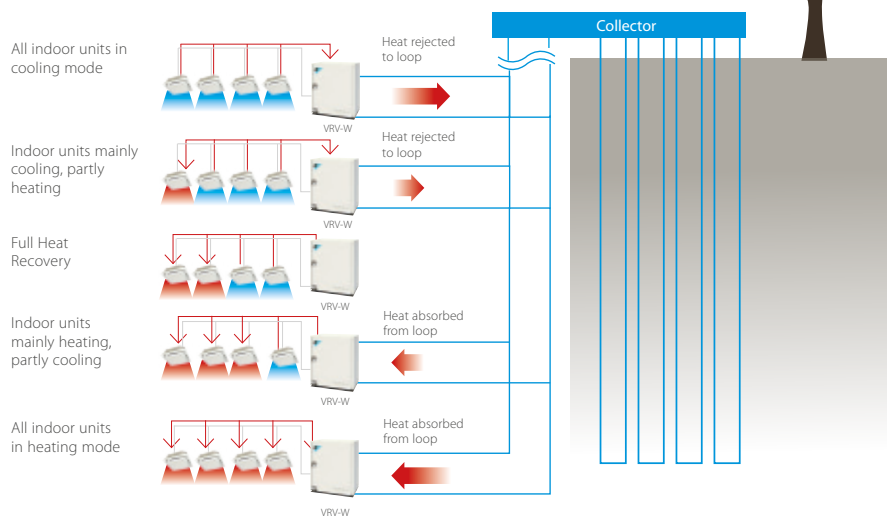
Reliable VRV technology

Geothermal energy

- ☑ Infinite renewable energy
- ☑ Invisible from the outside & quiet in operation
- ☑ Heat recovery

VRV IV efficiency

- ☑ Designed for seasonal efficiency
- ☑ 28% more efficient compared to standard units
- ☑ Continuous comfort even during defrost
- ☑ Lowest running cost per month compared to other technologies



Ventilation

Plug & play Daikin air handling units

- ☑ Seamlessly integrates in the air conditioning system
- ☑ Large quantities of fresh air can be brought in
- ☑ Heat recovery from outgoing air for maximum efficiency
- ☑ Customisable to the exact building needs
- ☑ Quick reaction speed (DX)

BENEFITS FOR TECHNICAL MANAGER



SINGLE POINT OF CONTACT FOR THE ENTIRE HVAC-R



ALL EQUIPMENT MANAGED BY ONE CENTRAL SYSTEM



HIGH QUALITY AND DURABILITY

BENEFITS FOR HOTEL OWNER



RENEWABLE GEOTHERMAL ENERGY



LOWEST RUNNING COST/M²



HIGH EFFICIENT HEAT RECOVERY



“ For safety and hygienic reasons, water should be at 60°C constantly



Hotel Van der Valk installed:



Gas boiler

Economical Daikin gas boilers

- ☑ 30% more efficient for hot water production compared to standard gas boilers
- ☑ Efficient condensing technology
- ☑ Ensured high capacity hot water production at all times



Hot water

Highly insulated hot water tanks

- ☑ Hot water storage to keep hot water available at all times
- ☑ Lightweight plastic tank with exceptional hygienic benefits
- ☑ Minimum heat loss thanks to high quality insulation
- ☑ High hygienic standards



Refrigeration

Efficient freezing

- ☑ Up to 35% more efficient than traditional refrigeration equipment
- ☑ Reliable operation
- ☑ Easy to install, even in small places
- ☑ Quiet operation

BENEFITS FOR TECHNICAL MANAGER



SAFE & RELIABLE TECHNOLOGY



SINGLE POINT OF CONTACT FOR THE ENTIRE HVAC-R

BENEFITS FOR HOTEL OWNER



EFFICIENT GAS CONDENSING TECHNOLOGY



GUARANTEED HOT WATER PRODUCTION AT ALL TIMES



35% MORE EFFICIENT



Service & maintenance

Throughout the design and building process and after the sale Daikin offers full support at all times. A specialist looks after the maintenance so we are sure that the units are running optimally and they are maintained in the best possible way.

The specialist can even propose improvements for further optimisation during the lifetime of the installation.

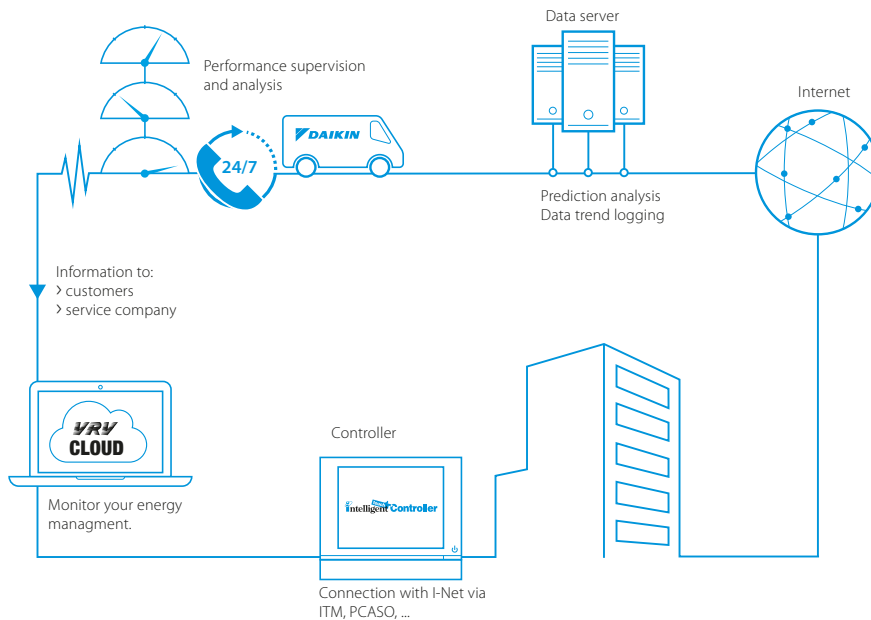
Hotel Van der Valk chose:



Intelligent monitoring

i-Net Performance monitoring & analysis

- ☑ 24/7 monitoring of VRV system
- ☑ Predictive maintenance maximises uptime
- ☑ Daikin experts maximises system lifetime
- ☑ Performance analysis connects you to Daikin experts suggesting ways of improving performance



i-Net



Service plan

Daikin service partner

- ☑ Keeps everything running frictionless for peace of mind
- ☑ Service by the expert
- ☑ Largest spare part stock in Europe for quick intervention

BENEFITS FOR TECHNICAL MANAGER



MONITORING BY THE EXPERT AND ADVICE

BENEFITS FOR BUILDING OWNER



MAXIMUM SYSTEM UPTIME



PEACE OF MIND



What we delivered

Green solution for low environmental impact

- ☑ High seasonal efficiencies of VRV IV

Simple and powerful management system

- ☑ Integration in front-desk of Intelligent Touch manager

Low total life cycle cost

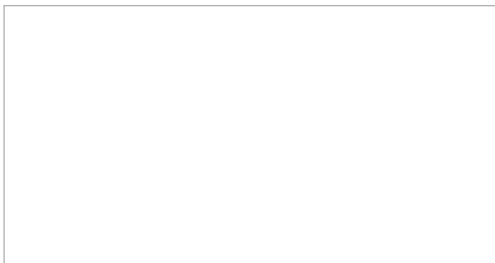
- ☑ Lower installed cost compared to water-based 4-pipe configuration
- ☑ Optimised seasonal efficiencies
- ☑ Powerful control & management reduces running costs

Single point of contact for the different technical solutions (I-net)

- ☑ Daikin offers total HVAC-R solution
- ☑ Daikin offers a monitoring system & periodic technical reporting

A Daikin total solution

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