



# ScanClime<sup>®</sup>

Humidity control that makes sense



# Humidity control where it counts

From building plans over finances to academic research, every aspect of laboratory animal work is affected by how humidity control is designed. With ScanClime there is a new way to control humidity with greater flexibility, more reliable results, better control and significantly lower costs.

## **Flexible planning without fixed layout**

ScanClime is a decentralised ventilation and humidification unit that connects directly to IVCs and Scantainers. Because the ventilation and humidity is controlled within the units, you can add or

remove units and move them around freely without having to modify the centralised ventilation system of the building. **Read more on pages 4-5.**

## **Animal welfare and accurate humidification control**

Research professionals want to protect the welfare of their animals and have control over research results. ScanClime allows you to control the humidity of the supply air from any level to the level required by the user, scientist or animal welfare recommendations. **Read more on pages 6-7.**

## **Substantial operating cost reductions**

The finance department will appreciate how ScanClime significantly lowers costs. Running ScanClime tests at customer sites have shown that operating costs can be reduced by up to 80% compared to a centralised ventilation system. In addition, the investment can be made at capacity need rather than upfront. **Read more on pages 8-9.**

## **Easy and flexible refurbishment planning**

ScanClime is not only a great humidification solution for new laboratory research facilities; it is also a practical and cost-efficient solution when refurbishing your laboratory as it allows continuous operation of the facility while renovating at the pace you can accommodate. **Read more on pages 10-11.**



## **A decentralised humidity solution**

Unlike centralised ventilation systems, ScanClime controls the humidity locally within each animal cage rack. The result is a more flexible, cost-efficient and environmentally-friendly solution.



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# Free to change directions

## When plans change

Logistics at academic research institutions is a fast-moving, ever changing challenging enterprise. Today's animal housing area can be tomorrow's laboratory.

## A revolutionary new approach

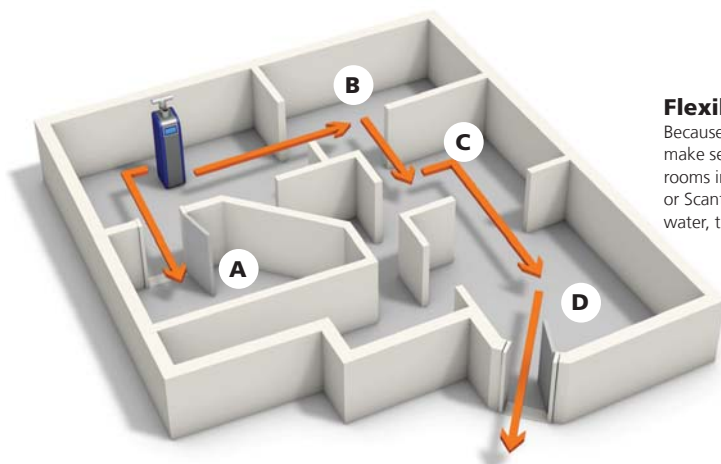
With ScanClime, humidity is controlled at cage rack level, making regulation at room level unnecessary. As a result, the central ventilation system of the building only needs to fulfill the requirements of a standard laboratory with a significant cost reduction as a

result. ScanClime simply takes in tempered air from the room where the animals are housed, adjusts the humidity to the user defined level and passes it via a HEPA filter into the IVCs or Scantainers.

## Simplifies planning short and long-term

With ScanClime, you separate the special requirements for laboratory animals from the building investment which enables you to use rooms with greater flexibility: During times of relocation, you can easily move a complete animal unit from one area

to another; as the need for cage capacity changes you can quickly convert a laboratory into an animal room or vice versa. ScanClime will help you respond to the ever-changing demands of research for both room and building level.



## Flexible, non-permanent room layout

Because ScanClime is independent of buildings, you can make seamless switches between laboratory and animal rooms in your planning, change capacity and/or move IVCs or Scantainers around freely. All you need is electricity and water, then you are good to go!



## **ScanClime: Planning made easy**

**Institution Leaders and Facility Managers** will appreciate how ScanClime makes planning easy. Whether you need to respond to a change of direction or capacity, ScanClime allows you to adhere to the ever changing demands from the many stakeholders.



# Take the right weather with you

## **You are in control**

Minimising distress and keeping animals healthy is about much more than just meeting external recommendations and regulations. It is a goal that research professionals strive towards on their own accord. Many centralised ventilation systems have difficulties meeting the humidity recommendation of the EU's Convention for the Protection of Vertebrate Animals. Using centralised humidity control in a normal winter, the indoor humidity can easily drop below critical levels.

ScanClime enables you to maintain relative air humidity (RH) of 55% all year round and secure that you adhere to standard recommendations.

## **Concerned about animal welfare?**

ScanClime is an environmentally-friendly alternative to a centralised ventilation system. It enables you to adjust the humidity level of the supply air to an optimal level within the animal cages. With the right humidity level in each cage, you know you are doing your part to ensure the welfare of your laboratory animals while reducing the energy consumption at the same time.

## **Reliable results**

Taking good care of the animals has a positive effect on research. Ensuring a stable humidity level within the animal cages eliminates a variable that could otherwise affect your results. ScanClime not only ensures the user defined level of humidity is obtained. Data on relative humidity, temperature and air changes are logged and alarms will notify you if threshold values are passed – an extra warranty for reliable results.




## **If animals could talk**

With ScanClime, you know you are doing everything within your power to prevent conditions like ringtail and other skin, eye and respiratory health issues. By implementing ScanClime in your laboratory you are contributing to a healthy animal facility.

The background of the entire page is a light blue color with numerous water droplets of various sizes scattered across it, creating a humid atmosphere. In the lower center, a person in teal scrubs and a cap stands with their back to the camera, looking at a tall, blue and white ScanClime machine. The machine has a screen and various ports. The overall scene is set against a white floor.

## ScanClime: Take control of humidity

A small teal square icon containing a white water drop shape, positioned to the left of the text.

Scientific research professionals can rely on ScanClime to ensure that relative humidity (RH) levels meet the animal welfare recommendations of authorities. ScanClime ensures optimal laboratory animal housing conditions while reducing energy consumption.

# These numbers will keep your finance department smiling

**ScanClime humidity control: Substantial energy savings of up to 80%**

When it comes to humidification, the increasing cost of steam and energy has put significant pressure on finance. It dramatically cuts costs and can take significant pressure off your investment plan. As calculations in the below illustration show, decentralised humidification with ScanClime reduces the volume of area that needs to be humidified. Tests at customer sites have shown that by using ScanClime, you can save 80% or more

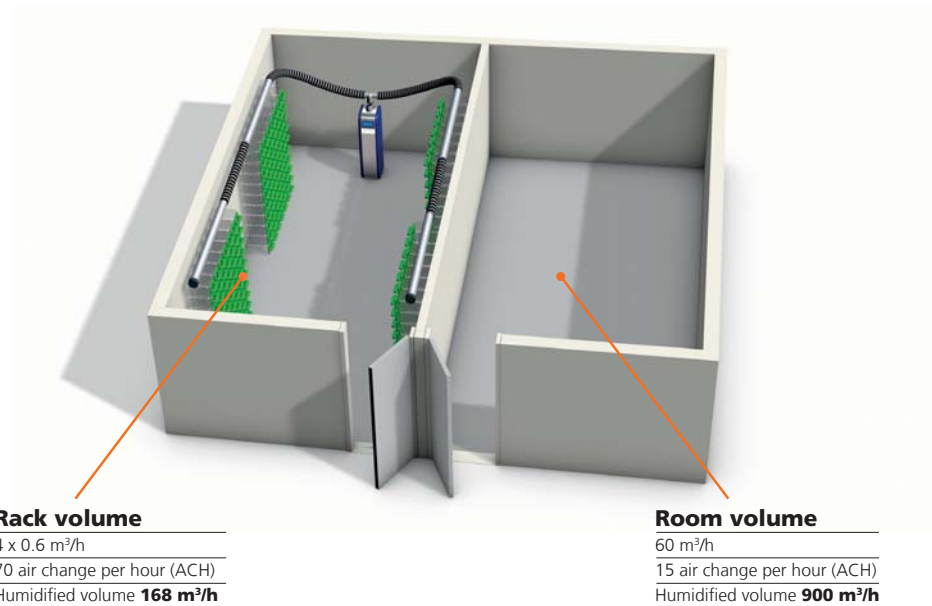
on humidity operating costs annually. Over a ten year period, that is potentially hundreds of thousands of euros saved!

**Zero investment in the building**

The reduced operating costs have a second benefit, too. It makes it easier to handle financial planning. Why? With decentralised humidity control, you do not have to invest in a complete building plan all at once. In fact, if you have electricity and water, then you are good to go – and you can add capacity when needed.

**FEC gets easy with ScanClime**

The FEC methodology (Full Economic Costing) trend is a challenge for facility managers. With ScanClime, operational costs become more transparent and manageable. You can turn on or switch off ScanClime as needed, and operational costs will always correspond to the number of cages in use.



In the example, a >80% reduction in the required air volume to be humidified can be obtained when implementing a ScanClime humidity control solution versus a standard HVAC solution.





### ScanClime: Strong finances, fast payback

Technical and finance departments will value the low initial investment, substantial reduction in costs associated with energy and logistics as well as the ability to defer investments until the needs are imminent.



# Existing facilities facing humidity challenges?

## **The refurbishment challenge**

ScanClime is not only a smart ventilation and humidity control unit for new laboratory research facilities. It can also be implemented with clear advantages in a refurbishment plan, however, refurbishment does present its own set of challenges.

## **You just cannot do it halfway – or can you?**

Traditionally, refurbishment of a centralised ventilated room or building is an all or nothing proposition; you cannot do gradually. With a centralised ventilation system, you need to close down your laboratory temporarily and put the animals in short-term alternative housing. The whole process requires a good deal of time, planning and resources. With ScanClime, you can significantly improve your flexibility when planning

a refurbishment. You can upgrade gradually and spread costs over a longer period of time, such as several fiscal years and/or use ScanClime in your short-term alternative housing facility.

You can keep your existing centralised ventilation system for controlling the air environment for the staff working in the laboratory while ScanClime is used to upgrade the ventilation and humidification for the individual cages.

## **A solution that sets you free**

Using ScanClime for refurbishment will bring numerous benefits. You can increase or decrease capacity as needed in daily operations. If you decide to build at a later stage, you can use ScanClime in virtually any layout.

## **Stable humidity at your set point**

As a decentralised unit, ScanClime gives you more precise humidity control. It is stable, reliable and significantly more cost efficient. It even offers you the possibility of individually raising or lowering humidity for specific research applications, such as higher humidity for nude mice.

## **Return on Investment (ROI) in 6-8 years with lower CO<sub>2</sub> footprint**

The financial aspect of upgrading the humidity in your animal unit is supported by the substantial savings on humidity running costs. Calculations show that ROI can be achieved within 6-8 years. At the same time, the CO<sub>2</sub> footprint is reduced enabling a greener future.



### **ECO**

The ECO designation signifies a commitment to keep environmental impact to a minimum.



## ScanClime: The smart way to modernise your facility

ScanClime is a great solution for upgrading existing facilities: It stabilises the humidity at the chosen set point, the animals remain healthy, your scientific results are more reliable. And you minimise the impact your energy consumption has on the environment.





Headquartered in Scandinavia, SCANBUR develops innovative solutions for the challenges encountered at *in vivo* research facilities. In addition to ScanClime, SCANBUR offers cage housing, consumable products and expert sales, service support and education. SCANBUR is distributor for some of the world's leading suppliers of quality equipment and consumable products for the animal research industry. Quality, innovation and product leadership are achieved via an uncompromising focus on helping researchers prevent and cure diseases. SCANBUR continuously makes use of the latest technology to develop quality equipment, such as Scantainer, enriched rabbit cage systems, Airshower and ScanFlow, in order to provide innovative solutions to the challenges associated with research.

SCANBUR believes that everyone must care for living creatures, the environment and our natural resources. As such, we set high standards of ethical and environmental performance and continuously strive to improve our contribution to a good corporate citizenship.

To learn more about SCANBUR, visit [www.scanbur.com](http://www.scanbur.com)

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