

## Our services are based on high professional expertise and a strict adherence to quality at all process stages

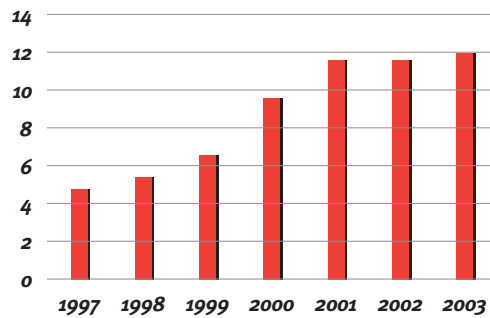
Chiller Oy is a leading manufacturer of air conditioning equipment in Finland. Our objective is to remain at the forefront of the sector. This entails a responsibility to continuously develop our equipment to match the latest technology.

We design and implement factory-made, customized and compact air conditioning solutions for locations setting high requirements for indoor air quality. Our deliveries include among other things equipment for offices, hospitals, different industrial processes as well as electronics and telecommunication spaces.

Our contracting experience and superb air conditioning sector knowledge help us find the most reliable and functional solution for individual customers. Our devices are easy to install and maintain. Moreover, their sound level and energy consumption are low.

The steadily increasing net sales are a proof of customer satisfaction and functional and innovative equipment solutions. The 2003 net sales of Chiller Oy amounted to 12 million euros.

Net sales, million €



## Development requires active network and continuous training



In accordance with our strategy, we put a lot of effort on product development and continuous staff training, while being highly selective in choosing our networking partners. Our subcontracting partners include for instance multinational component makers like **Danfoss** and **Carel**.

The manufacturing facilities in Tuusula, nearby Helsinki, cover an area of approximately 3000 square meters. We have recruited about 10 percent more staff members per year.

Our sales offices are located in Turku and Jyväskylä, Finland and in Stockholm, Sweden.

## Expertise and excellent service across air conditioning limits



*Standardized manufacturing process is a comprehensive chain where all elements have their own specific roles to play.*

### Product development for various air conditioning zones

Our product development is focused on developing well-working and reliable devices and optimizing energy consumption in all air conditioning zones.

We make cold water stations complete with different free cooling options that offer remarkably greater energy savings than conventional water coolers.

## Standards-compliant manufacture guarantees the best quality

High quality of our products is based on expertise of the staff members, the partnership network and our striving for uncompromized excellence in product testing. The production process comprises for instance pressure testing and different types of electrical tests.

Devices made by us are subjected to a full-scale trial run and numerous lab-scale tests. Sound power measurements of room air conditioners conform to standards ISO 3741, 3742 and 3743.

The products have undergone a full-scale Electromagnetic Compatibility (EMC) testing. All pressure vessels containing products are made in accordance with standard PED (Pressure Equipment Directive). Leak of refrigerants into the environment is in the manufacturing process prevented with the use of a modern fill-up station. Nature-friendly refrigerants used in the equipment conform to the Montreal protocol.

In manufacture, we take life-cycle thinking and material recyclability of the products into account. Furthermore, the services of independent research laboratories are used in the product development.

### Minimizing energy consumption as part of development process

We provide the ceiling product group equipment like flat blowers and cassette fancoil units with fans fitted with ball bearings.

Low energy consumption is guaranteed with the use of top-class outer ring fan motors. Energy consumption of our equipment is only a fraction of the consumption of most of the other corresponding solutions.

### Our devices fulfill requirements of different air conditioning zones

What is essential is not to have any condensate formation in equipment structures of hot air conditioning zones. This is why insulation materials are chiefly made of closed-cell cellular plastic.

Equipment drain pans are made of either stainless steel or special plastic. Condensate pumps used by us are invariably of the rotating-type.

### Requirements set by international market as the starting point

Devices made by Chiller Oy are well-known for their high quality and structures fit for various air conditioning solutions.

## Room air conditioners

Cassette and flat blower units included in our ceiling product group are made to fit various cooling power ranges and sound levels. Special attention is paid to equipment design. The units are well suited even for most demanding locations as part of lower ceiling solutions. We provide hotelrooms with air conditioning elements to be mounted in the entrance hall ceiling. There are different equipment solutions available to match customers needs.



*Room air conditioners with a low sound level.*

## Precision air conditioners

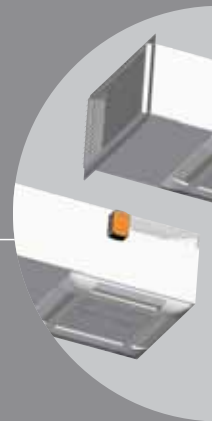
Typical locations where these machines can be used are lab facilities as well as electronics and equipment spaces. Opportunities for directing treated airflows are almost limitless. The equipment delivery can also include different mechanical or electronic control devices to ensure their suitability for EMC protected and extremely demanding equipment spaces.



*Precision air conditioners fitted with a sound-dampening door.*

## Support station and equipment space machines

Among other cooling devices, the IT-500 machine series is a miraculous space saver. Besides an evaporator and condenser circles, the devices have a free cooling system enabling the cooling without compressor circulation at an outdoor temperature of less than  $+15^{\circ}\text{C}$ . Thanks to a handy installation method, the devices are fit for limited floor spaces and provide an excellent filtration system. The installation and maintenance of IT-500 cooling machine series is easy.



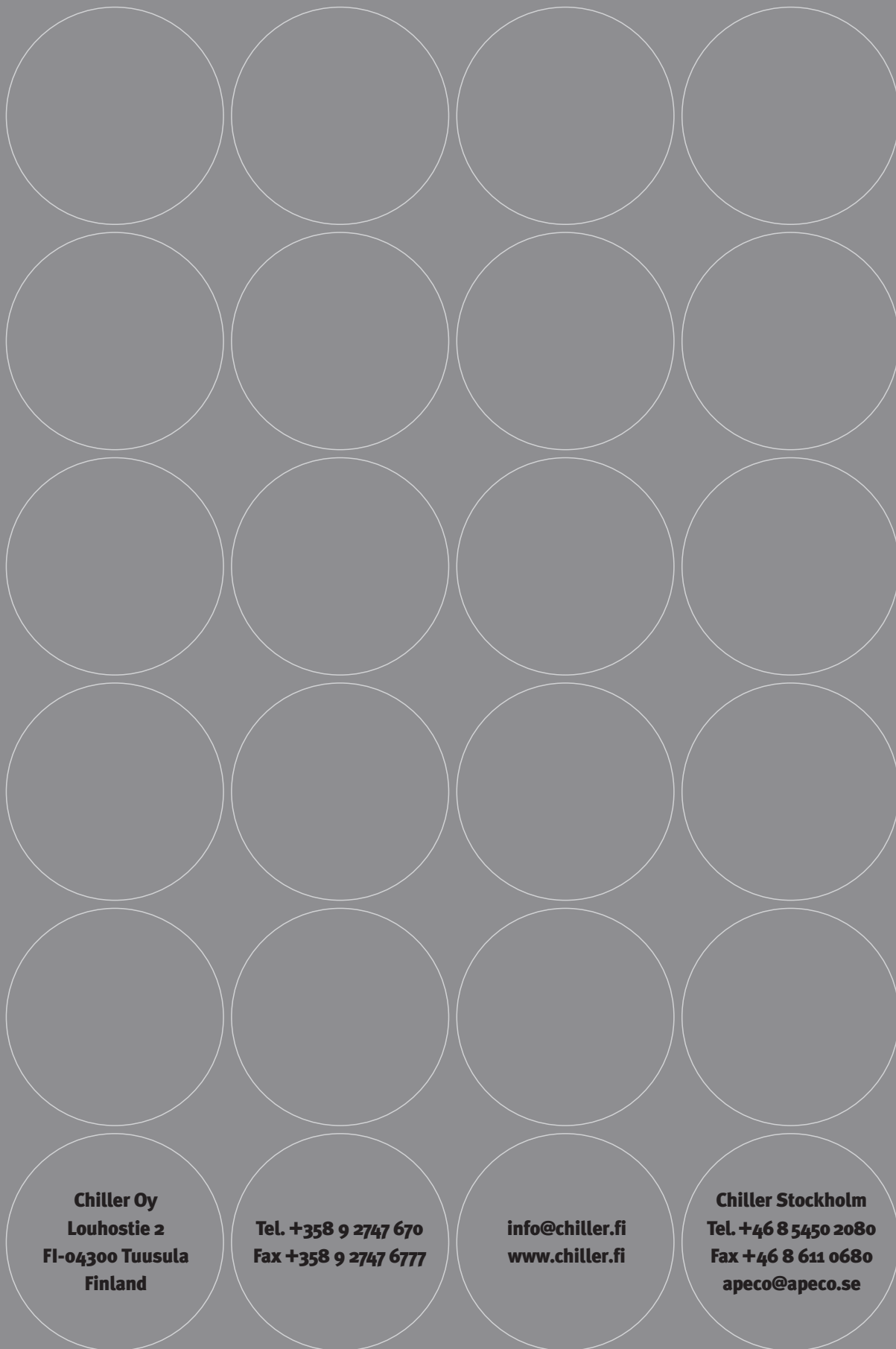
*New concept fit for cooling the telecommunication spaces.*

## Chilled water stations

Chilled water stations are furnished with pumps providing different free cooling options and automatics. The devices use scroll-type compressor technology and plate heat exchangers.



*Chilled water stations with a free cooling system.*



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