

INDOOR CLIMATE CONTROL

Your challenges

- Energy savings

Energy is a major cost item for entertainment hall managers, energy-efficient systems can significantly reduce the overall operating cost.

- Visitors comfort

Thermal and acoustic comfort, air quality: nothing should be left to chance, least of all your visitors comfort.

ETT solutions

- Energy bill reduction
- Noise pollution mitigation
- Air change management and high-performance filtration for better air quality

ETT, a different climate

Our complete command of the manufacturing process — from design to commercialisation — allows us to offer bespoke and innovative solutions.

As a specialist in air handling systems with energy recovery and high performance heat pumps, we have been guiding our clients towards responsible energy solutions for more than 30 years.



Customer satisfaction as a core value

- Personalised study of each project
- Constant innovation
- Climatic chamber
- Environmental consideration

ETT is strongly **committed to customer satisfaction**. To this end, we have built up a comprehensive network of professionals to provide every customer with a dedicated contact person according to his project and requirements.

Our extensive experience in the HVAC industry is also bolstered by the expertise and dedication of our teams: **Design Departments, expert consultants, ETT Services network.**



ETT & ecodesign:

GREEN DESIGN involves DECONSTRUCTION: ETT units are 98 % recyclable.

- **Energy:** ETT, innovator in Heat Transfer solutions.
- **Aluminium:** aluminium is endlessly 100 % recyclable.
- **Low polluting ETT manufacturing process:** selective sorting, waste recovery, 60% of waste recycled, no paint on casings, no use of solvent.
- **Consumables: efficient waste management:** ETT units include "ecodesigned" air filters (selective sorting: frame - grille - media)



ETT Services

▶ **ETT technical support team** is spread **across France and abroad** to share their expertise and offer you the right solution for your application.

Optimise your energy costs

▶ **ETT Service Contract:** increase the **lifespan of your HVAC equipment.**

Equipment upgrades:

energy efficiency optimisation, refrigeration circuits restoration, compressors retrofit, communication tools.



▶ **Regular audits:** **maintain a high level of energy efficiency** and keep your operating costs low.

Train your teams

- ▶ Operation and maintenance training
- ▶ Advanced operational training
- ▶ Custom training

Guarantee

ETT air handling units are contractually covered by a **one-year guarantee** in France and abroad.

For metropolitan France, the guarantee covers parts, labour and travel.



Spare parts

ETT spare parts catalogue is available for download at www.ett.fr.

Conformity

All units are checked and inspected at the factory prior to shipment; a control certificate is issued for each unit.



ETT Quality organisation is certified **ISO 9001:2008** (AFNOR Certificate no. 1994/2016f).

Moreover, each unit is delivered with an **EC certificate of conformity.**

ETT control and communication

ETT units are controlled through the **ETT SysCom** communication system which ensures **precise and reliable control** of the units for optimised **energy efficiency.**

All ETT units are connected to an ETT SysCom communication system to facilitate unit management through **local or remote communication.**

You can choose to **monitor your consumptions** with:

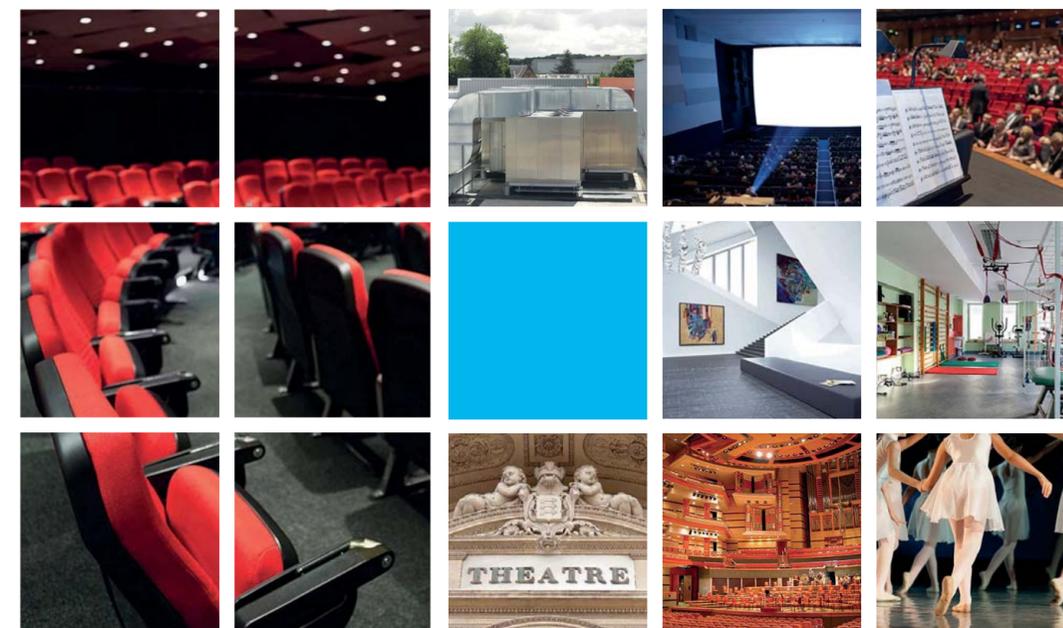
- ▶ **CCAD:** local communication system for a single unit
- ▶ **PCO Terminal:** local communication system for several units.
- ▶ **PGD Touch:** local communication system with remote display
- ▶ **MediaCom:** internet-based communication system (with login credentials)



ENVIRONMENTAL CLIMATE CONTROL EQUIPMENT & SOLUTIONS



ENTERTAINMENT HALLS



Air handling essential features

ETT, IMPROVED THERMAL AND ACOUSTIC COMFORT
We developed specialised units to ensure optimal comfort in entertainment halls, regardless the occupancy rate.

Energy savings

Heat pumps are an efficient, economical and environmentally-friendly solution for entertainment halls heating and air conditioning. They offer optimum performance with low energy consumption.

Acoustic comfort

Environmental noise reduction is a key challenge for entertainment halls. We offer self-contained units specifically designed to meet these particular acoustic requirements.

MAIN FEATURES

- Variable speed compressor
- Acoustic insulation
- Free Cooling

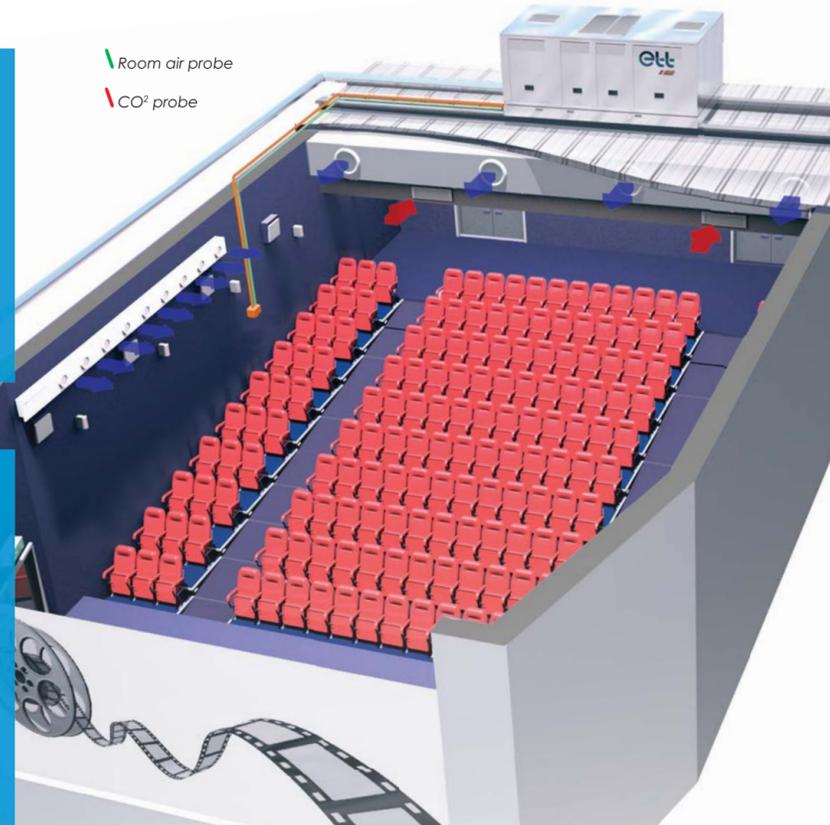
Our plus points

Bespoke units

Dimensions and capacities (Variable Cooling System, SRV) specially adapted to your project requirements.

Internet-based communication system (myETTvision).

Room air probe
CO² probe



Automatic adjustment of hygienic fresh air intake based on the occupancy level

ETT solutions offer temperature management regardless of building occupancy levels (humidity management is also available as an option).

Installation

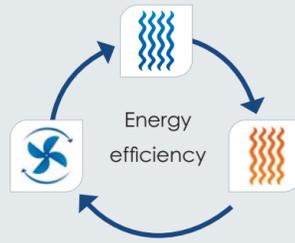
ETT units can be installed either outdoor (on the rooftop) or indoor (in a technical room).

ETT Services

Our team will guide you every step of the way, from commissioning to operational support.



3 technologies to address all the challenges



1 Cooling
Air conditioning available when needed.

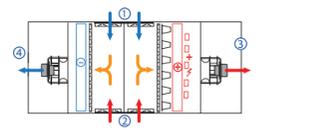
2 Ventilation
Air flow adapted to occupants' needs thanks to innovative technology.

3 Heating
Energy recovery for optimised consumption.

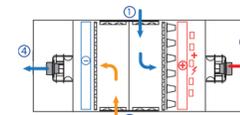
Technological solutions specially adapted to the constraints of facilities open to the public

Double flow - Thermodynamic heat recovery

FR CH **RE** HPE+ RL
Heat pump with thermodynamic heat recovery
Indoor or outdoor installation



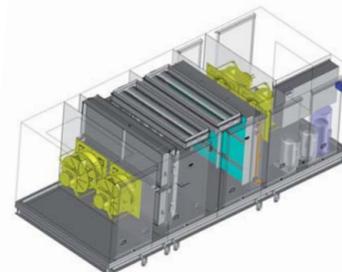
OCCUPANCY/HEAT RECOVERY MODE



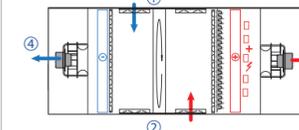
100% FRESH AIR MODE

Specially designed for variable occupancy facilities

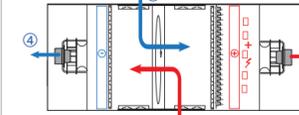
- Easy air flow rate adjustment during commissioning
- High-performance plug fan
- G4 filter + F7 fibreglass-free filter
- Motor speed reduction in part load and in neutral zone



PAC **RE** DX
Heat pump with rotary heat exchanger and thermodynamic recovery
Indoor or outdoor installation



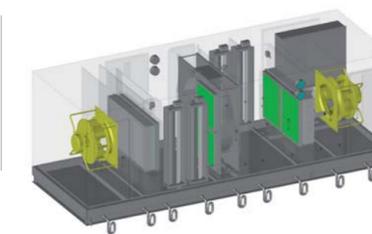
100% RECYCLING MODE



OCCUPANCY 100% FRESH AIR MODE

Tailored solution for theatres and other entertainment halls

- Fresh air modulation without indoor pressure change
- Rotary heat exchanger (70% minimum recovery efficiency)
- Fresh air modulation from 0 to 100%
- Dimensions and capacities specially adapted to your project requirements

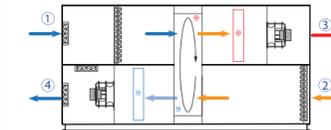


Multipurpose halls - Cinemas - Theatres - Exhibition halls - Museums - Auditoriums

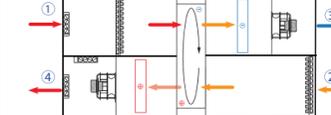


Double flow - All fresh air

PACARE HPE+
Double flow heat pump with recovery module with rotary heat exchanger
Indoor or outdoor installation



HEATING MODE

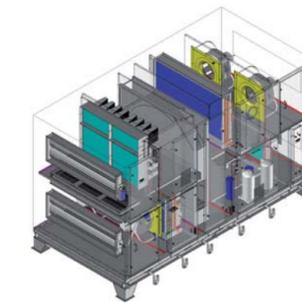


COOLING MODE

- 1 FRESH AIR
- 2 RETURN AIR
- 3 SUPPLY AIR
- 4 EXHAUST AIR

Ventilation and air conditioning solution for optimum air quality

- Operates as a reversible heat pump, mainly in all fresh air/all exhaust air with supply air temperature control
- Rotary heat exchanger for energy recovery, complemented by a thermodynamic system
- Auxiliary heating/cooling may be required in some cases



ETT SysCom

PGD TOUCH

The PGD Touch system allows you to control one or several units through MODBUS RS485 serial communication with the main controller.

In multiple unit installations, the display is connected to the first unit and units are connected to one another via serial bus communication (MODBUS RS485).

The PGD Touch system includes a 7" touch-screen display.



ETT BMS

The ETT Building Management System (BMS) combines a CPU with a 17" colour display, a keyboard and a colour printer.

It allows general installation management and automatic transmission of parameters to the units, for optimised operation, better comfort and reduced energy consumption.

