







For about 20 years we have been designing and producing ventilation, air conditioning and heat recovery units for the residential and tertiary sector. Over 150 employees, divided into three factories covering over 15,000 square meters, using technologically advanced operating machines. The quality of the production process (ISO 9001 from 2006). The sales network - the Dealer - It will support you with competence and professionalism: from design and supply of

The Company

# CMV: What it is and how it works



The Controlled Mechanical Ventilation (CMV) technology aims at giving a response to the growing demand for low-energy buildings. If, on one hand, airtight casing, high quality thermal insulation, airtight casing, airtight doors and windows and minimum thermal bridges help you to significantly cut your energy bill, on the other hand, these measures can worsen the salubrity of indoor air (invisible air pollution) because the building "does not breathe". The periodic change of air and evacuation of pollutants are extremely important to avoid condensate, molds on walls, stagnation of gases and bad smells...

Most of our time is spent in closed environments (almost 90%) and the air we breathe contains, in suspension, internal pollutants (materials used in construction) and outside, especially in cities and close to industries (smoke, smog, CO<sub>2</sub>). Opening the windows in air-conditioned environments is a waste of energy and allows noises and pollution to enter

A "Forced" air exchange system, in operation 24 hours a day throughout the year, replaces the manual opening of windows with considerable advantages: the ventilation control, energy wastage avoided and better air quality, thanks to the filtration... in other words, high level of comfort with low energy requirements!

In a traditional residential system, air is sucked up from service rooms (kitchen, bathrooms or laundry) along with its humidity load, noxious substances and bad smells, then it is filtered, pushed through the heat recovery unit and finally expelled outside. Conversely, in a high efficiency heat exchanger, almost all heat is released to the external fresh air which is sucked up, filtered, treated (heated, cooled or dehumidified depending on the season) and finally introduced into the living room and bedrooms.

UTEK residential units are included in the list of the ClimateHouse / KlimaHaus Agency have high energy class and best meet the certification requirements for buildings in high energy class.





















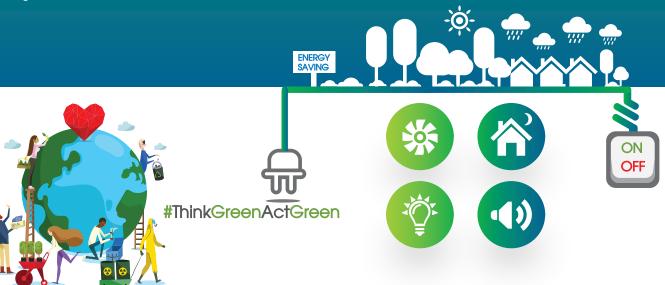
#### Objective: energy saving

The construction industry accounts for about 40% of total energy consumption; therefore, it represents a priority within the 20-20-20 targets: Directive 2002/91/EC (EPDB Energy Performance of Buildings Directive), replaced by Directive 2010/31/EU (EPDB2) sets the minimum standards for the construction of new buildings and the renovation of existing buildings.

Nearly zero-energy buildings it is already a widespread design standard (private buildings from 01-01- 2021, public buildings from 01 - 01 - 2018) for high energy buildings and passive buildings. Passive buildings cover most of their energy needs (heating, cooling, sanitary hot water, ventilation and lighting) with a minimum of energy requirements, without any "conventional" system, but using alternative sources. Double Flow Controlled Mechanical Ventilation with Heat Recovery is indispensable!

More and more demanding regulations require more and more efficient appliances (Regulations UE nr. 1253/2014 or EcoDesign) and an energy classification of residential ventilation units (Regulations UE nr. 1254/2014). Uniquely declar ed performance allows Consumers a conscious choice.

An advanced management of heat recovery (air quality probes or time bands) improves air quality and reduces operating costs.























Unit	Air flow	Hìgh eff.	Medium eff.	Configuration	Enthalpic	Pag
FLAT	from 130 to 580 m³/h	Yes		Horizzontal/Vertical	Yes	5
FLAT V	150 and 250 m³/h	Yes		Vertical	Yes	5
MICRO-FLAT	60 and 110 m³/h	Yes		Horizzontal	Yes	5
RC-TOP	150 and 250 m³/h	Yes		Vertical	Yes	6
HRE-RES	330 and 460 m³/h	Yes		Horizzontal	Yes	5
MICRO-REV	230 m³/h	Yes		Vertical	Yes	6
REVERSUS	330, 460 and 600 m³/h	Yes		Vertical	Yes	6
UVD	690 m³/h	Yes		Vertical	Yes	7
JD	from 100 to 800 m³/h	Yes		Horizzontal	Yes	7
AURA	24 and 50 m³/h	Yes				8

#### ■ HEAT RECOVERY VENTILATION UNITS for COMMERCIAL and INDUSTRIAL BUILDINGS



Unit	Air flow	Hìgh eff.	Medium eff.	Configuration	Enthalpic	Pag
UTA	8.000 and 24.000 m³/h	Yes		Horizzontal		8
CRHE-H	from 700 to 3.400 m³/h	Yes		Horizzontal	Yes	8
CRHE-V	from 700 to 5.600 m³/h	Yes		Vertical	Yes	8
UVR & UVR-TOP	from 900 to 6.200 m³/h	Yes		Horizzontal/Vertical	Yes	9
FAI-ED & FAI-EC	from 300 to 3.500 m³/h		Yes	Horizzontal/Vertical		9
DUE-ED	from 300 to 4.000 m³/h		Yes	Horizzontal/Vertical		10
DUO-EC	from 300 to 9.000 m³/h		Yes	Horizzontal		10

### ■ AIR CONDITIONING & DEHUMIDIFICATION UNIT with HEAT RECOVERY (refrigeration unit or hydronic version)



Unit	Air flow	Hìgh eff.	Medium eff.	Configuration	Enthalpic	Pag
HRU tutti	from 500 to 5.000 m³/h	n	Yes	Horizzontal		10
DEH & DEH IDRONICO	150-300 and 250-500 n	n³/h Yes		Horizzontal/Vertical	Yes	10

#### I AIR VENTILATION UNITS



Unit	Air flow	Hìgh eff.	Medium eff.	Configuration	Enthalpic	Pag
BOX	from 500 to 6.00	0 m³/h				11
FAR-EC	from 400 to 16.0	00 m³/h				11
FAN-T	from 800 to 40 0	00 m³/h				11

#### ■ FILTRATION UNITS



Unit	Air flow	Hìgh eff.	Medium eff.	Configuration	Enthalpic	Pag
CAFIL	from 200 to 12.000 m	³/h				11

Note - for the exact characteristics of each unit, see the TECHNICAL SHEETS www.utek-air.lt

















# Our units



Comply with EU Regulations 1253/2014 (ecodesign) and 1254/2014 (energy labeling)



#### FLAT, FLAT Enthalpic & FLAT vertical

High efficiency HRVU with high-efficiency heat recovery

- Plug n' play version (switchboard and prewired control on the unit)

#### CASING

Self-supporting structure with polyurethane panels; exterior and interior of the unit in Aluzinc®

#### CONFIGURATION AND INSTALLATION

- Horizontal: suspended ceiling or floor installation
- Vertical: wall installation (vertical ducts)

#### **HEAT EXCHANGER**

- Counterflow aluminium height efficency
- -Automatic 100% bypass

#### **RANGE**

- FLAT: 4 models with airflow from 130 to 600 m³/h
- FLAT VERTICAL: 2 models with airflow 130 and 300 m<sup>3</sup>/h

ENERGY CLASS (with control EVO-PH): A



Counterflow heat exchanger made of aluminum manufactured by RECUTECH



#### **HRE-RES & HRE-RES Enthalpic**

High efficiency HRVU with high-efficiency heat recovery

- Plug n' play version (switchboard and prewired control on the machine)

Self-supporting structure with polyurethane panels; exterior and interior of the unit in Aluzinc®

#### CONFIGURATION AND INSTALLATION

Horizontal: suspended ceiling or floor

#### **HEAT EXCHANGER**

- Counterflow aluminium height efficency
- Automatic 100% bypass

Nr. 2 models; airflow: 330 and 460 m<sup>3</sup>/h

**ENERGY CLASS** (with control EVO-PH)

HRE-RES 1: class A ; HRE-RES 2: class B

Counterflow heat exchanger made of aluminum manufactured by RECUTECH



#### **MICRO-FLAT**

High efficiency HRVU with high-efficiency heat recovery

#### CASING

PPE case, weight 9 kg

#### CONFIGURATION AND INSTALLATION

Horizontal: in false ceiling or floor

#### **HEAT EXCHANGER**

Counter current, high efficiency, in PP

#### **RANGE and FANS**

2 models:

- AC, with airflow 60 m<sup>3</sup>/h
- EC, with airflow 110 m<sup>3</sup>/h

#### **ENERGY CLASS**

- MICRO-FALT EC: class A
- MICRO-FALT AC: class



















## **RC-TOP**

High efficiency HRVU with high-efficiency heat recovery

- Plug n 'play version (electrical panel and control pre-wired on the unit)

#### CASING

Self-supporting structure with polyurethane panels; gray plastic coated exterior, Aluzinc interior

#### **CONFIGURATION AND INSTALLATION**

Vertical: floor or on the wall

#### **HEAT EXCHANGER**

- Counterflow height efficency
- Automatic 100% bypass

#### **RANGE**

Nr. 2 models; airflow:150 and 250 m³/h

#### **ENERGY CLASS**

(with control EVO-PH) A



Counterflow heat exchanger made of aluminum manufactured by RECUTECH



## MICRO-REV & MICRO-REV Enthalpic

High efficiency HRVU with high-efficiency heat recover

- Plug n' play version (switchboard and prewired control on the unit)

#### **CASING**

Self-supporting structure with polyurethane panels; gray plastic coated exterior, Aluzinc®interior

#### CONFIGURATION AND INSTALLATION

Vertical: wall installation

#### **HEAT EXCHANGER**

- Counterflow , high efficiency, alluminium
- Automatic 100% bypass

#### **RANGE**

Nr.1 model, airflow: 230 m<sup>3</sup>/h

#### **ENERGY CLASS**

MICRO-REV (with EVO-PH control): A



Counterflow heat exchanger made of aluminum manufactured by RECUTECH



## REVERSUS & REVERSUS Enthalpic

High efficiency HRVU

- Plug n' play version (switchboard and prewired control on the machine)

#### CASING

- Self-supporting structure with polyurethane panels; gray plasticized exterior
- Inside 100% recyclable PPE for sizes 1 and 2
   Inside Aluzinc®for size 3

#### **CONFIGURATION AND INSTALLATION**

- Vertical: wall installation
- Can be configured on site: quick change of air ducts (intake and / or recovery) only sizes 1 and 2



Counterflow heat exchanger made of aluminum manufactured by RECUTECH

#### **HEAT EXCHANGER**

- Counterflow PP height efficency for size 1 and 2
- Counterflow aluminium height efficency for size 3
- Automatic 100% bypass

#### **RANGE**

Nr.3 models, airflow: 330, 460 and 600 m<sup>3</sup>/h

#### **ENERGY CLASS**

REVERSUS (with control EVO-PH): A

REVERSUS ENT. (with control EVO-PH): B



















## **UVD & UVD Enthalpic**

High efficiency HRVU with high-efficiency heat recovery

- Plug n 'play version (electrical panel and control pre-wired on the unit)

#### **CASING**

Self-supporting structure with polyurethane panels; exterior and interior in Aluzinc®

#### CONFIGURATION AND INSTALLATION

- Vertical: wall
- attacks in the upper part

#### **HEAT EXCHANGER**

- Counterflow height efficency, alluminium
- Automatic 100% bypass

#### RANGE

■1 model airflow 690 m³/h

**UVD** (residential classification) ENERGY CLASS: A



Counterflow heat exchanger made of aluminum manufactured by RECUTECH



### JD & JD Enthalpic (size 1 and 2)

High efficiency heat recovery module, for collective systems - Passive recuperator (exchanger and filters, without fans)

#### **CASING**

- Self-supporting structure insulated internally; exterior and interior in Aluzinc®
- Double condensate drain

#### CONFIGURATION AND INSTALLATION

Horizontal: counter-ceiling

## **HEAT EXCHANGER**

- JD 1 and 2: in counter current, high efficiency, in PP
- JD 3 and 4: countercurrent, high efficiency, in Al

4 models airflow from 100 to 800 m<sup>3</sup>/h

2 centralized ventilation units serving the building (condominium or multi-family houses) or the column, combined with passive JD recuperators (exchanger and filters), one for each apartment.

#### analogico



# elettronico

#### **AURA/AURA** evo

Decentralized high efficiency heat recovery unit for VMC (for single room)

## **STRUCTURE** (high strength, anti-static, anti UV) • Telescopic tube in PVC or insulated

- High efficiency regenerative recovery unit
- Brushless DC fan, low consumption
- Internal grill design, with filter
- Folding or aesthetic external grill

#### **ELECTRONIC VERSION**

- Electronic board on the machine 230V
- Master unit (remote control), up to 12 slaves
- 3 speeds + AUTO (T, U.R. and light sensors)

NOTE: CasaClima only size 2

## ANALOGIC VERSION

- Automatic operation (input / extraction air adjustable 35 ÷ 200 sec.) or manual (IN or OUT)

  • Up to 4 units with 1 control / power supply

#### **AVAILABLE OPTIONS**

- Predisposition for large construction sites
- Kit for corner installation

#### **RANGE**

2 models airflow MAX 24 and 50 m<sup>3</sup>/h

ENERGY CLASS: A





















HEAT RECOVERY VENTILATION UNITS for COMMERCIAL and INDUSTRIAL BUILDINGS

Compliant with EU Regulation no. 1253/2014 (EcoDesign)

#### **UTA**

High efficiency heat recovery ventilation unit

- Plug n 'play version (electrical panel and control pre-wired on the unit)

#### **CASING**

- Double paneled case internal and external in Aluzinc®
- Frame in extruded aluminum profiles

#### CONFIGURATION AND INSTALLATION

■ Horizontal: floor



- High efficiency counter current, in aluminum
- Rotary exchanger available, also enthalpic
- automatic TOTAL by-pass

#### **RANGE**

■5 models airflow from 8.000 to 24.000 m³/h



Counterflow heat exchanger made of aluminum manufactured by RECUTECH

# **CRHE-V CRHE-H**

## **CRHE & CRHE Enthalpic**

High efficiency heat recovery ventilation unit

- Plug n 'play version (electrical panel and control pre-wired on the unit)

#### CASING

- Double paneled case internal and external in Aluzinc®
- Frame in extruded aluminum profiles

#### CONFIGURATION AND INSTALLATION

- CRHE-H horizontal, inside or outside
- CRHE-V vertical, outside

H = horizontal arrangement; V = vertical arrangement

#### **HEAT EXCHANGER**

- High efficiency counter current, in aluminum
- automatic TOTAL by-pass

- ■CRHE-H: 5 models, airflow from 700 to 3.000 m³/h
- CRHE-V: 7 models, airflow from 700 to 5.300 m³/h



Counterflow heat exchanger made of aluminum manufactured by RECUTECH

## UVR Enthalpic & UVR-TOP Enthalpic

High efficiency heat recovery ventilation unit

- Plug n 'play version (electrical panel and control pre-wired on the unit)

#### **CASING**

- Double paneled case internal and external in Aluzinc®
- Frame in extruded aluminum profiles
- Without thermal break (T3-TB3) or with (T2-TB2)
- In 1 pc. or (optional) supplied 3 parts (size 3)

#### CONFIGURATION AND INSTALLATION

Horizontal UVR or vertical UVR-TOP, on the floor



#### **HEAT EXCHANGER**

- Rotary, Enthalpic high efficiency aluminum
- ABSORPTION enthalpy exchanger available

#### **RANGE**

■6 models airflow from 600 to 7.000 m³/h



Aluminum rotary / enthalpy heat exchanger produced by KLINGERBURG



















#### **FAI-ED & FAI-EC**

Medium efficiency heat recovery ventilation unit

- Plug n 'play version (electrical panel and control pre-wired on the unit)

#### **CASING**

- Double paneled case internal and external in Aluzinc®
- Frame in extruded aluminum profiles

#### CONFIGURATION AND INSTALLATION

Horizontal false ceiling or vertical floor



- High efficiency counter current, in aluminum
- automatic TOTAL by-pass

- FAI-ED: 5 models airflow from 300 to 3.000 m³/h
- **FAI-EC**: 4 models airflow from 300 to 2.500 m³/h



Counterflow heat exchanger made of aluminum manufactured by RECUTECH

#### **DUO-ED & DUO-EC**

Medlum efficiency heat recovery ventilation unit - Plug n 'play version (electrical panel and control pre-wired on the unit)

#### **CASING**

- Double paneled case internal and external in Aluzinc®
- Frame in extruded aluminum profiles

#### CONFIGURATION AND INSTALLATION

Horizontal false ceiling or vertical floor

#### **HEAT EXCHANGER**

- High efficiency counter current, in aluminum
- By-pass for automatic or manual freecooling

## **FANS**

- ■DUO-ED: 3 or 4 speed AC centrifugal fans
- ■DUO-EC: high efficiency EC electronic

#### **RANGE**

- DUO-ED: 6 models, airflow from 300 to 4.000 m³/h DUO-EC: 7 models, airflow from 300 to 9.000 m³/h



Counterflow heat exchanger made of aluminum manufactured by RECUTECH



















## HRU-ED, HRU-EX e HRU-EC

Air / air conditioning unit with heat recovery

- Plug n 'play version (electrical panel and control pre-wired on the unit)

Double paneled case internal and external in Aluzinc®

■ Frame in extruded aluminum profiles

#### **CONFIGURATION AND INSTALLATION**

Horizontal: ceiling or floor

#### **HEAT EXCHANGER**

Cross-flow aluminum, passive recovery

#### HRU-ED VERSION

ON-OFF compressor, AC fans



■ON-OFF compressor, EC fans

#### HRU-EC VERSION

■ INVERTER compressor, EC fans

- 5 models airflow from 500 to 5.000 m³/h
- ■Powers (active + passive recovery) from 5 to 50 kW
- Rotary or scroll compressor, R410A gas



Counterflow heat exchanger made of aluminum manufactured by RECUPERATOR

Compliant with EU Regulations nr. 1253/2014 (EcoDesign) and 1254/2014 (energy labeling). Heat recovery units included in the list of ClimateHouse Agency of ventilation appliances

#### **DEH & DEH Enthalpic**

Air dehumidification and renewal unit with high efficiency heat recovery - Plug n 'play version (electrical panel and control pre-wired on the unit)

#### **CASING**

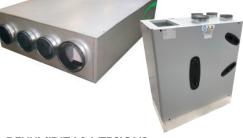
Self-supporting structure; external and internal Aluzinc;

#### **CONFIGURATION AND INSTALLATION**

- Horizontal: counter-ceiling
- Vertical wall

#### **HEAT EXCHANGER**

counter-current with high efficiency, in PP



#### **DEHUMIDIFY & VERSIONS**

- With refrigeration unit, gas R134a
- With hydronic coil

#### **RANGE**

- ■DEH 1 airflow150 (VMC) 300 dehumidify m³/h
- ■DEH 2 airflow 250 (VMC) 500 dehumidify m<sup>3</sup>/h

ENERGY CLASS: B





















High prevalence Box ventilation unit

#### **CASING**

- Self-supporting Aluzinc® structure with internal insulation
- Anti-vibrating joint on fan delivery
- Motors mounted on anti-vibrating supports

#### **FANS**

Centrifugal forward blades, double suction coupled to the impeller, (ErP-2015)

■ Different models, air flow up to 6,000 m³ / h

#### **FAR-EC**

Box ventilation unit, EC motors electronically controlled, high prevalence

#### **CASING**

- Double sandwich paneling case (internal and external parts) in Aluzinc®
- Frame in extruded aluminum profiles

For combination with different housing units:

- collective VMC, with JD recuperators
- industrial processes

#### **FANS**

■ High efficiency EC electronics (ErP-2015)

#### **RANGE**

■ 10 models airflow from 400 a 16.000 m³/h



#### **FAN-T**

Ventilation unit with transmission fan (belt and pulleys)

- Available with simple polyethylene insulation or double sandwich panel on polyurethane foam insulation
- (internal and external parts) in Aluzinc®
- Frame in extruded aluminum profiles

Centrifugal fans forward blades(ErP-2015)

#### **RANGE**

■ Different models air flow up to 35,000 m³/h





#### CAFIL

Filter holder plenum to be installed in a channel (pre-filter or better filtration)

#### CONSTRUCTION

- Aluzinc<sup>®</sup> sheet case
- Circular sleeves with seal

#### **RANGE**

■ 10 models with diam. from 200 to 710 mm





coarse 65 % (ex G4) pleated synthetic fiber ■ePM1 70% (ex F7) low pressure drop ■ePM1 85% (ex F9) low pressure drop



























The AIR + air distribution system is a complete range of accessories - positioning on site simple and quick, in susper lay - for air distribution to individual local (new buildings or to renovate).

Circular and oval sections are available, plenum distribution and air recovery, silencers, various fittings, diaphro plenum environment for grilles and valves ventilation, ecc. The product is made of **antibacterial and antimycotic** 























Completion of the proposal - for the tertiary sector - a wide range of dampers (calibration, sealing, overpressure), silencers, grilles, filter boxes, flow regulators...and special performances.













## New filtration concept



**CLEAN AIR CUBE** best represents what is now needed: filtered, healthy and clean air

CLEAN AIR CUBE has been designed to increase the filtration capacity in the environments: It can be installed in 2 ways: - Independent unit: can be equipped with different controls; from a simple potentiometer, to manually adjust the fan speed, up to different types of controls to adjust the air flow rate or pressure.

- By integrating an existing VMC system.

CLEAN AIR CUBE is equipped with several levels of filtration:

- Prefiltration: the units can house 2 pre-filters used both as prefiltration for a possible final absolute filter or be all existing filtration
- . Additional filter: after the prefilter section it is possible to install an additional filter; for example a flat activated carbon filter, if you need to eliminate odors or VOC.
- Final filtration: after the additional filter, a HEPA or Electrostatic filter can be inserted

CLEAN AIR CUBE can also be equipped with a germicidal UV lamp

For more information contact the sales representative

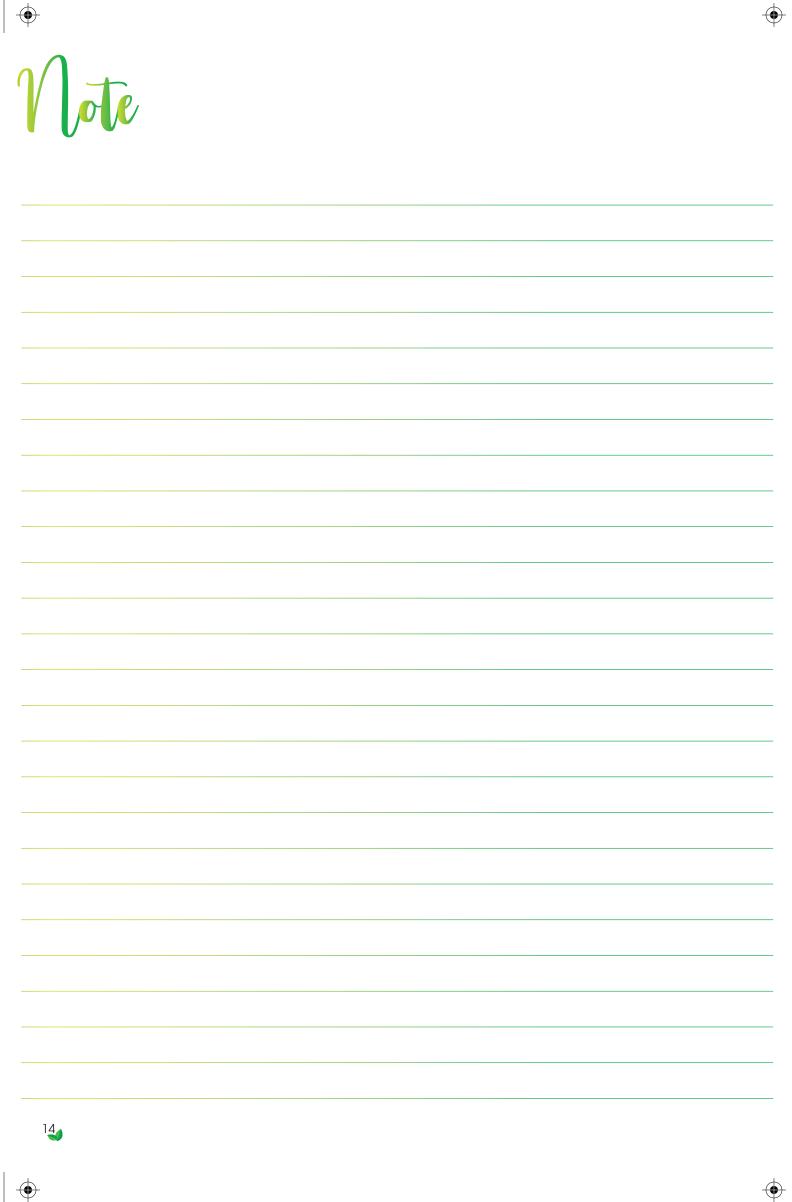
























# Our business philosophy

