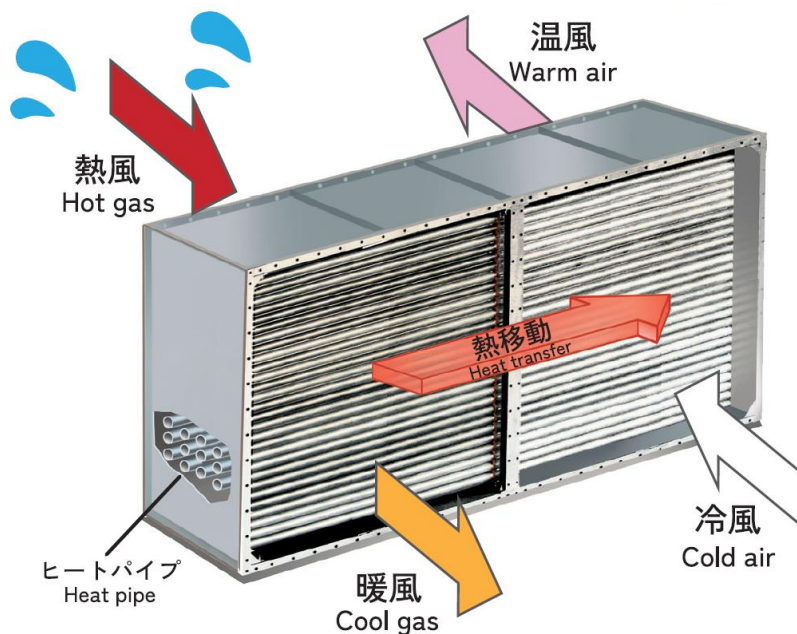


T-COIL will help you  
reduce Carbon emission!



Just put T-COIL on there, and it works well.

Heat Exchanger for Heat Recovery (Air-Air)

### 3 features of T-coil

①

High Efficiency ,  
Space Saving

T-COIL recovers heat from exhaust air efficiently with using heat pipes as heat conductive elements. it shows more than 50% temperature efficiency and does not need much space to be installed.

②

Long life

T-COIL can be used for a long time because it is made of best materials that depend on the air property. Many T-COILs have been working all over the place for more than 30 years.

③

Maintenance Saving  
No Running Cost

The mechanical trouble does not occur and the parts replacement is unnecessary because T-COIL has no moving parts. T-COIL saves maintenance. Besides , the running cost of T-COIL is not required because it dose not use electricity to work.



Please confirm the detail of product and  
system on the back

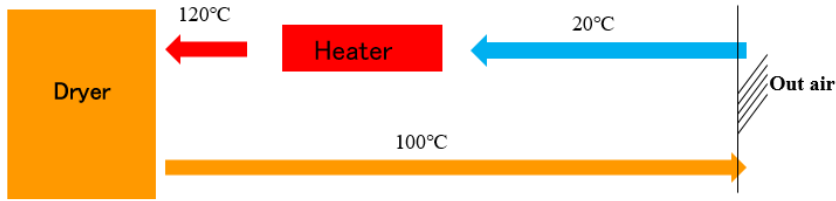


Try it!

Simulator  
of Decarbonization

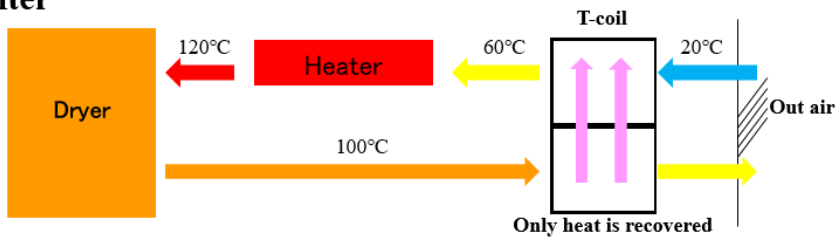
# How to use the Exhaust Heat Recovery of T-COIL it recovers much heat without any energy!

Before



Exhaust air goes outside with heat.  
⇒ Loss of heat

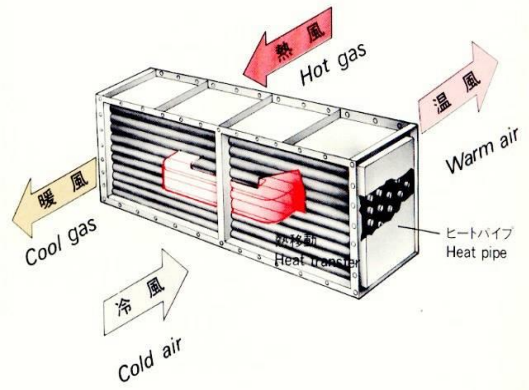
After



Heat of exhaust air is reused in Supply air again.  
⇒ Heat Recovery

## What is T-COIL.

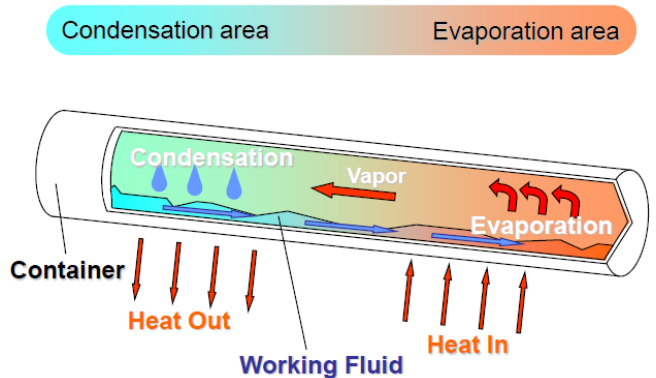
T-COIL is an air-to air Heat pipe heat exchanger for exhaust heat recovery. The Heat Pipes transfer efficiently only heat from exhaust (high temp) air side to supply (low temp) air side. The supply air is heated well.



### ① The reason for high efficiency

## What is Heat pipe? (Function of heat carrier)

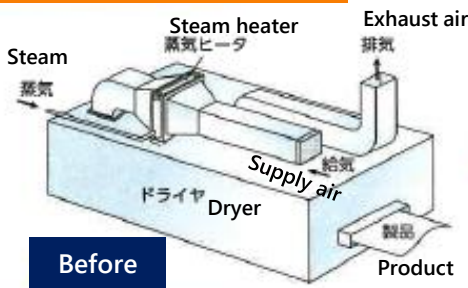
Heat Pipe is a thermal conductive element that can transfer heat efficiently. Fluid is enclosed in an airtight container. Once one side of heat pipe is keeping heated, The fluid continuously repeats evaporation and condensation, and the heat can be transferred from the one side to the other side efficiently.



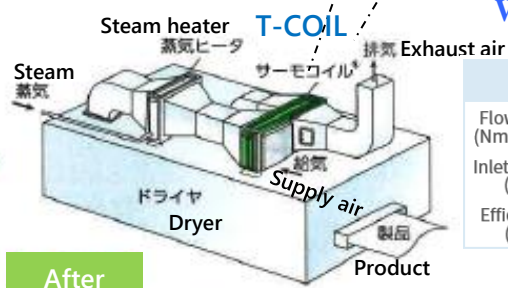
## ① Saving Space (Example)

It is easy to install !

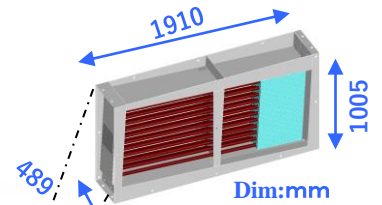
### Air preheating of dryer



Before



After



Dim:mm

Weight: 460kgs

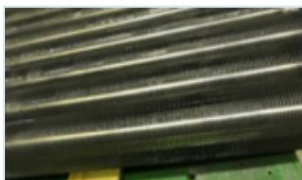
	Supply Air	Exhaust Air
Flow Rate (Nm <sup>3</sup> /min)	100	100
Inlet Temp. (°C)	20	100
Efficiency (%)	50	50

Please install T-coil in the place where supply air and exhaust air are in counter-flows.

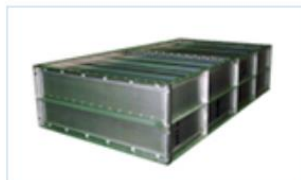
## ② Long Life

T-COIL can be used for a long time because it is made of best materials that depend on the air property. Many T-COILs have been working all over the place for more than 30 years.

Materials	Fins/Tubes	Aluminum、Copper、Steel、Stainless steel
	Flame	Steel、Stainless steel



Aluminum fin tubes



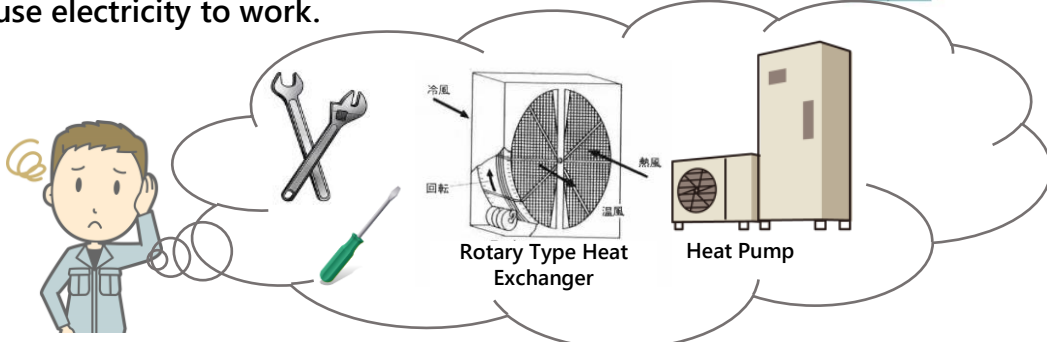
Stainless steel flame



Steel fin tubes

## ③ Maintenance Saving , No Running Cost

The mechanical trouble does not occur and the parts replacement is unnecessary because T-COIL has no moving parts. T-COIL saves maintenance. Besides , the running cost of T-COIL is not required because it does not use electricity to work.



### ③ Achievement over 40 years

T-coil have been applied to various fields of industry around the world

#### Petrochemical Plant

Naphtha cracking furnace, Heating furnace

#### Industrial furnace

VOC treatment furnace

#### Film

Film production line (OPP,PET,PA)

Film coating line , Film laminate processing line

#### Paper

Paper machine line, Paper coating line

#### Printing

Gravure , Flexographic

#### Fiber

Synthetic fiber, Elastic fiber

#### Boiler

Preheating supply air for combustion

#### Food

#### Other dryers

Coverage of  
Temp  
-20°C~430°C

Areas : Japan , Thailand , Indonesia , Malaysia , China , Korea , Taiwan etc.,

T-COIL helps you promote Sustainable Development Goals  
by saving energy.

T-COIL achieves energy-saving efficiently  
for a long time in spite of saving the maintenance and  
running-cost.



SDAT CO., LTD

Tokyo office

Tamachi Station Tower N-31<sup>st</sup> Floor ,3-1-1 Shibaura Minato-ku,  
Tokyo 108-8504,Japan

Tel.(+81)3-4363-1028