



節能團隊及產品介紹
Team Background &
Product Introduction

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Team background

Main team members have the technology background in heat energy engineering and oven drying equipment, apply the experience of hot air and heat efficient technology for heat reaction equipment of non-woven fabric. At the same time, Top-In aims at the energy recovery engineering to design and develop the exhaust heat recovery system of stenter or dryer, wastewater heat recovery system and other energy saving products.

Main product

Heat reaction machine of non-woven fabric

Heat reaction machine for nonwoven hygiene fabric, heat reaction machine for carpets, foam coating machine for non-woven fabric, foam coating oven and other heat reaction equipment.

Heat recovery system

Exhaust heat recovery of stenter, wastewater heat recovery system, heat recovery system of boiler, and integrated energy monitoring and recording system, etc.

Energy saving equipment

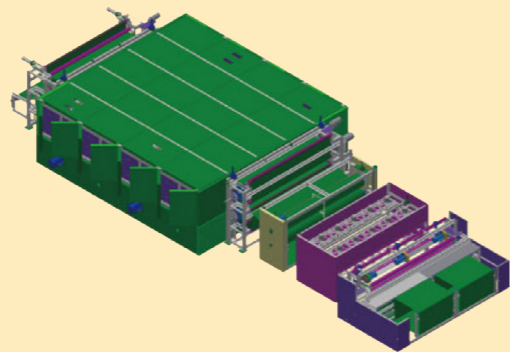
Vacuum slot system, high efficient paddle mangle, foam coating process, exhaust humidity control, and low water content process, etc.

Future product

Heavy oil desulfurization equipment, heavy oil emulsification equipment, and process cleaning equipment.



Heat recovery box



Heat reaction machine for carpets

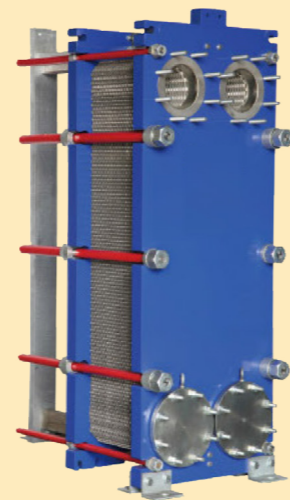
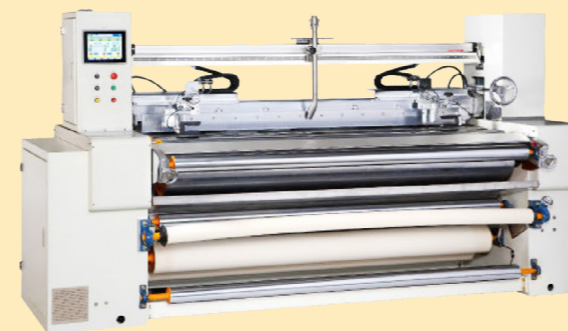
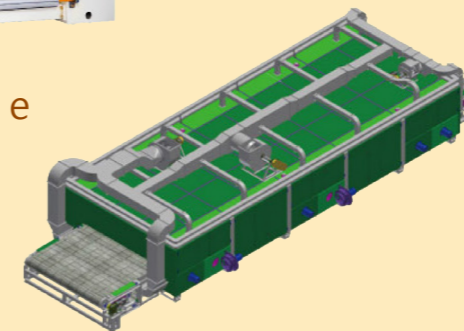


Plate heat exchanger



Coating machine

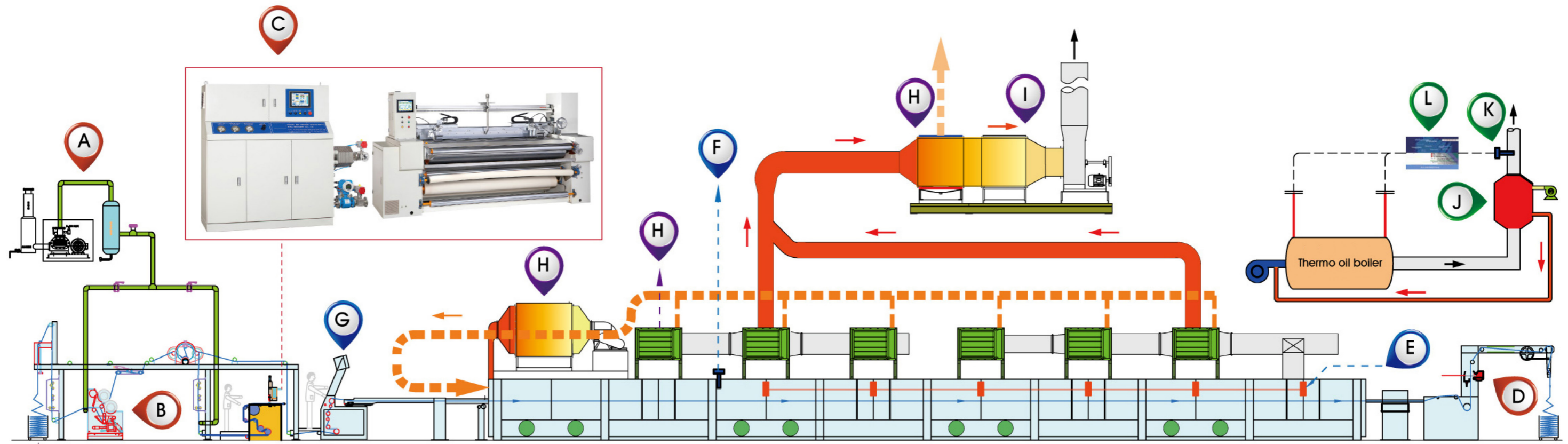


Heat reaction machine for nonwoven hygiene fabric



Foaming machine

Energy-saving products for stenter



How to save energy for stenter

Step 1 : Energy-saving of low water content process

No.	Action	Energy efficiency
A	Vacuum Slot System	10~20%
B	Paddle Mangle	10~15%
C	Foam coating process	30~50%
D	Single or double side chemical spray process	20~30%

Step 2 : Energy-saving of exhaust control of stenter

No.	Action	Energy efficiency
E	Fabric surface temperature detecting and control System	10~20%
F	Exhaust humidity control system	10~20%
G	Energy efficiency monitoring and recording system	10~20%

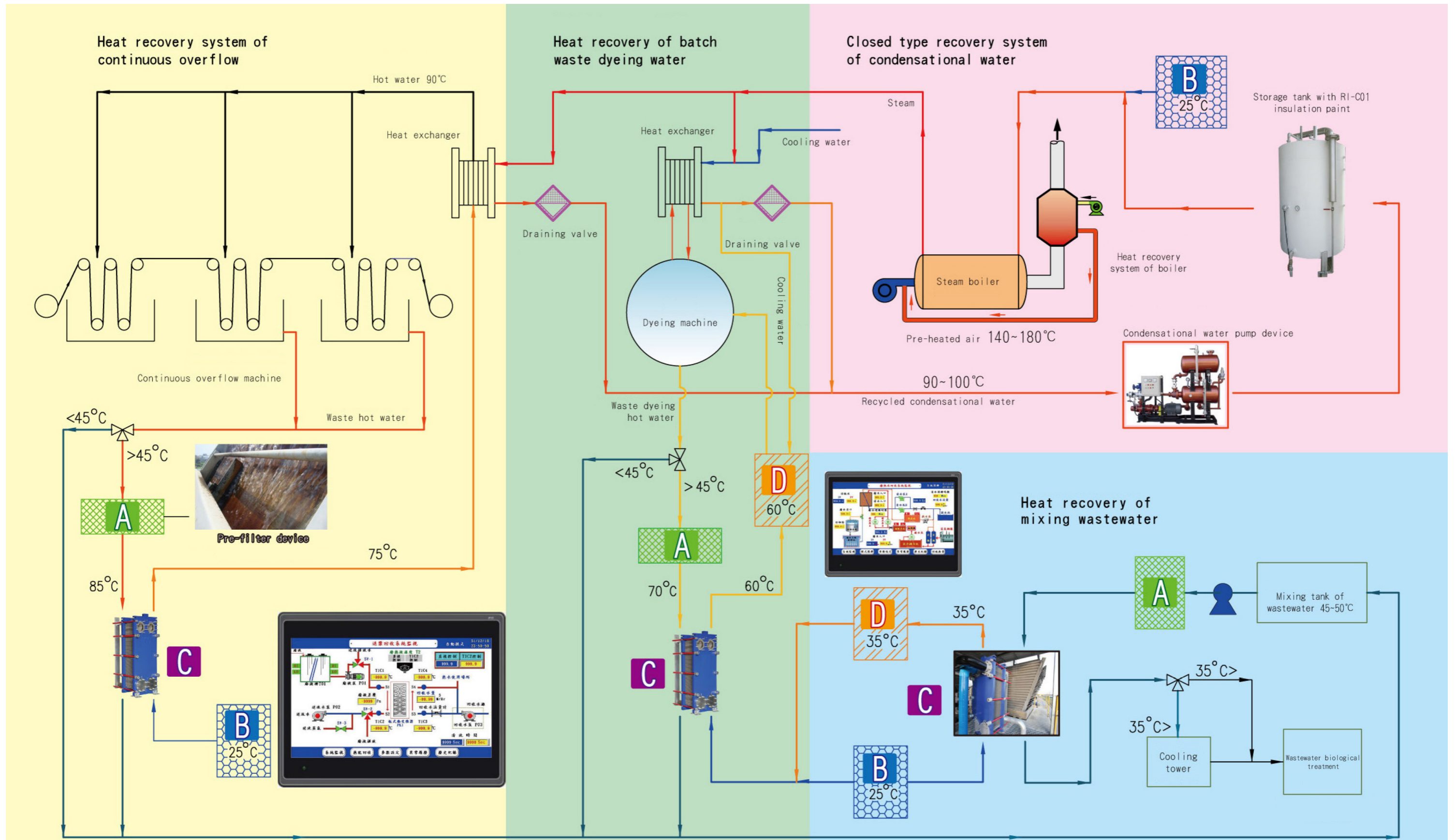
Step 3 : Energy-saving of exhaust heat recovery of stenter

No.	Action	Energy efficiency
H	Exhaust heat recovery system	20~45%
I	Exhaust purifying device	—

Energy-saving of exhaust heat recovery of boiler

No.	Action	Energy efficiency
J	Exhaust heat recovery system	5~10%
K	Oxygen content control system of exhaust	5~8%
L	Energy efficiency monitoring and recording system	5~8%

Wastewater heat recovery system



A Pre-filter device

B Storage tank of soft water

C Plate heat exchanger specialized for waste dyeing water

D Storage tank of hot water



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