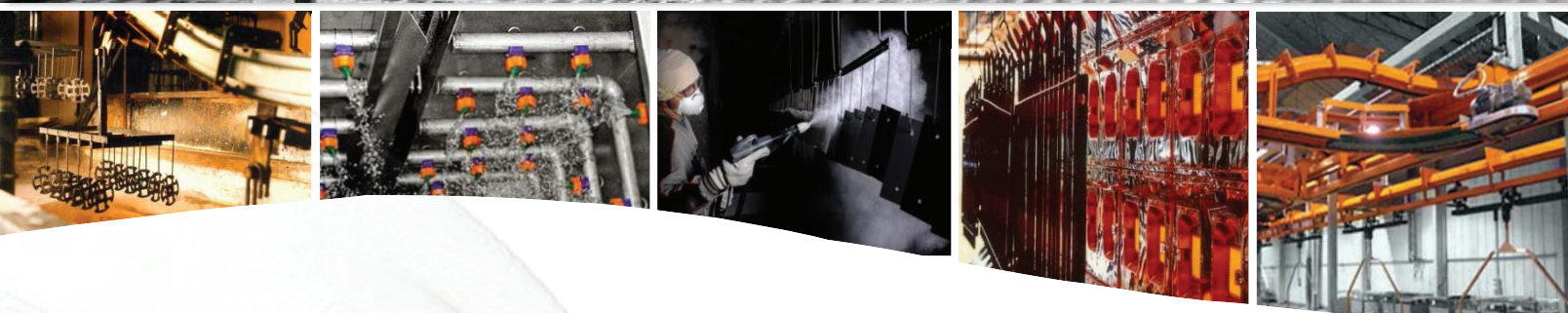
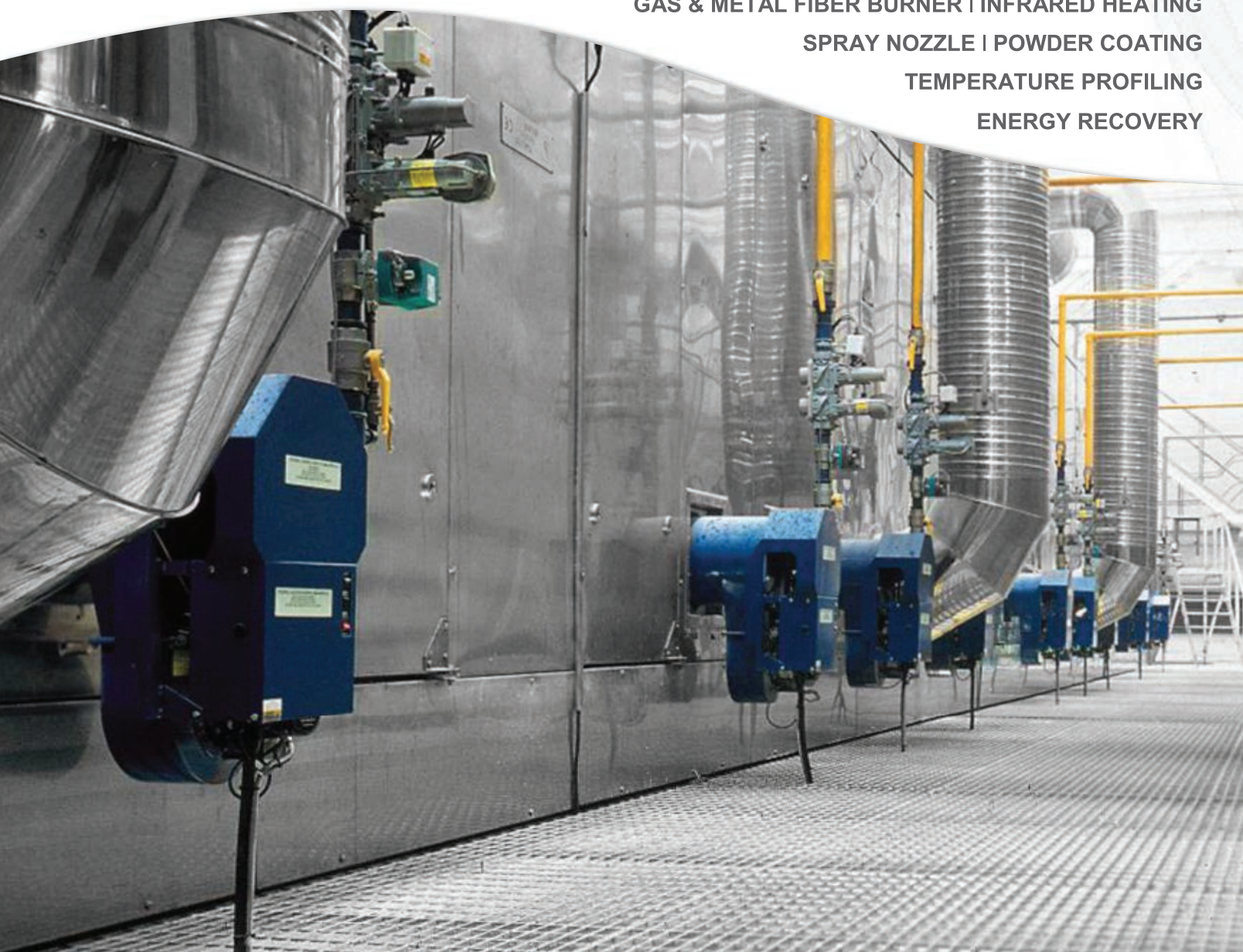




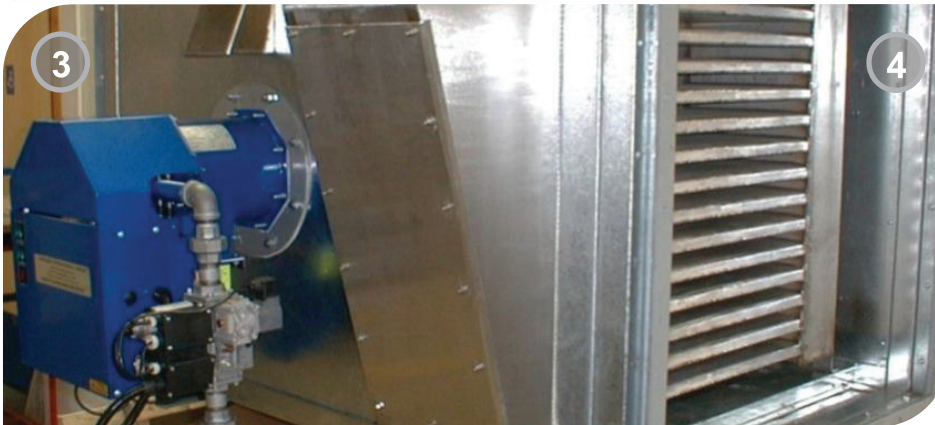
Distributor of high quality industrial products and process solutions

**GAS & METAL FIBER BURNER | INFRARED HEATING
SPRAY NOZZLE | POWDER COATING
TEMPERATURE PROFILING
ENERGY RECOVERY**



www.ppss.co.th

High Quality Industrial Products for Finishing System

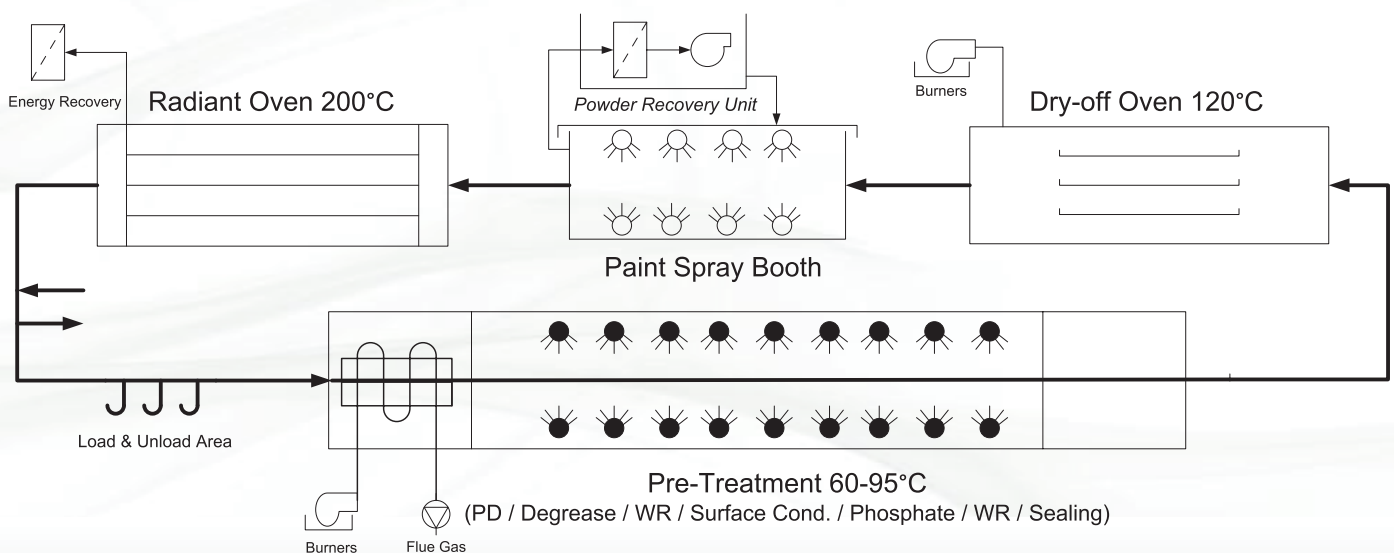
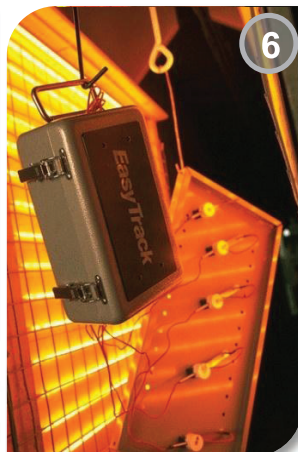


Our Products include key components for finishing system including:

1. Tank Heating System
2. Spray & Pre-treatment System
3. Oven Heating System
4. Energy Recovery System
5. Powder Coating System
6. Electric Infrared System
7. Gas Infrared System
8. Material Handling Equipments

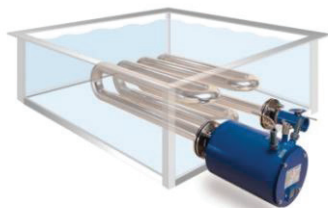
Our Policy is support Engineering Contractors, OEM, Traders and End Users to achieve their process solutions

Our Service will provide the solutions to your Finishing Application.



Gas Fired Burners

LANEMARK
INTERNATIONAL



Tank Heating

Model : TX Series
Heat inputs : 45kW - 730 kW
Tube size : 40mm - 150mm
Flame sensing : Flame electrode or UV
Controls : On/Off, High/Low or Modulating (gas only)



Oven Heating

Model : FD Series
Heat inputs : 9kW - 880kW
Flame sensing : Flame electrode or UV
Controls : High/Low or Modulating (gas or air-gas ratio)
Control signal : 3-wires, 4-20mA, 0-10VDC



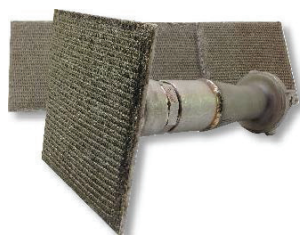
Air Heating

Model : DB Series
Heat inputs : 73kW - 1,025kW
Flame sensing : Flame electrode or UV
Controls : High/Low or Modulating gas

* Heat input depends on burner head's shapes such as "H" or "I" designed fit within duct dimensions.

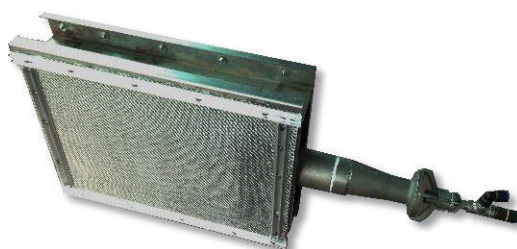
Metal Fiber Burner

Metal Fiber Technology
FiberTech



MFB150

Power input : 75kW - 100kW
Heating area : 150mm x 150mm
Heating type : Blue flame & Infrared
Application : General hot-air oven, Dry-off or paint baking oven, External tank heating



MFB350

Power input : 60kW (30kW/side)
No. of side : 2 side
Heating area : 330mm x 260mm x 2
Heating type : Infrared
Application : Double side heating, Stamping die & Casting mold pre-heating



MFB500

Power input : 340kW (85kW/unit)
No. of unit : 4 units
Heating area : 500mm x 500mm x 4
Heating type : Infrared
Application : Asphalt infrared heating for road repair, Pre-gel infrared oven

* MFB burner ranges is special customized design used high quality material such as FiberTech anti-flashback woven media, industrial grade SUS body and special design multi-stage venturi mixer achieved precious air-gas ratio, offers efficiency up to 80% designed by PP Systems.



MFB Food

Power input : 10-20kW
Heating area : Dia 100mm
Heating type : Blue flame & Ultra-low Infrared
Application : Food oven, Laboratory, Small capacity heating



Burner Pilot and Ignition

Ignition method : Pilot gas fired sparked and detected by pulse igniton control box and electrodes
Ignition voltage : Pri 220V / Sec16kV
Optional : Hot surface igniter



Gas Train and Control

Control type : High/Low/Off or Modulating
Solenoid valve : 1/4" IP65 230VAC
Thermocouple : Type-K Teflon Max. 265°C
Extension wire : 4m - 6m



For more information
www.ppss.co.th



Infrared Gas System

COORSTEK

Maywick
Process Heat



Ceramic Fiber IR Burner
(stainless steel body)

Heat input : 3.6 kW / plaque
Wavelength : Long - Medium
Plaque area : 130mm x 184mm
Max. surface temp : 1,000 °C
Heat-up rate : 2-5 min



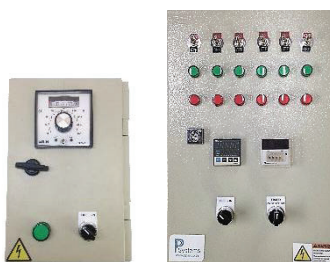
Cordierite REE Infrared Burner (cast iron body)

Model	Dimension (mm)	Heat Input (kW)	No. of Plaque
HD81	L555 x W80 x H115	3.1 kW	(4) 135 x 46
HD162	L570 x W130 x H175	6.3 kW	(4) 135 x 93
HD600	L600 x W175 x H220	9.4 kW	(6) 135 x 93
HD262	L930 x W130 x H175	10.9 kW	(6.5) 135 x 93



Pulse Ignition System

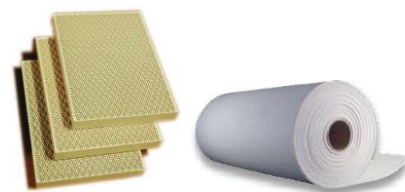
HD IGN01 : 3-Pin igniter
HD IGN02 : Pulse ignition box, wire 1.2m
Pri 230V / Sec 16kV
HD IGN03 : Solenoid gas valve 1/4" 230V
HD IGN04 : Optional IP65 valve
* Dust tight & Waterjet protect



Temperature Control Module

PP CTRL01E : Economic Control Box
PP CTRL01 : Standard Control Box
PP CTRL02 : Powder Coating Control Box

* PP CTRL02 offers full function, specially designed for powder coating system which paint cure specification can be achieved via Timer Auto function and special probe



Replacement Kit

Material : Ceramic Fiber
Cordierite
Cordierite REE
(REE offers 10-20% fuel gas saving)
Size : 13cm x 9cm
Optional : Ceramic fiber gasket

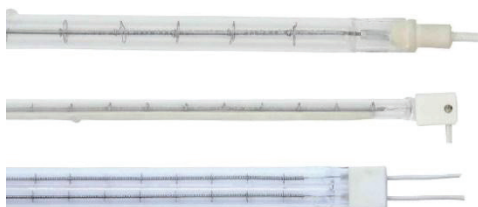
Infrared Electric System

senttech

FANNON PRODUCTS
Industrial Heat Processing Systems



Black & Quartz IR Lamp
Long - Medium Wavelength



White Coating Quartz IR Lamp
Medium - Short Wavelength



Gold Coating Quartz IR Lamp
Fast respond & High intensity short-wave



Infrared Panel

Heat input : Available in variety wattage
Heat-up rate : 1sec - 5sec
Controls : Manual or Closed loop options
Emitters : Twin/single 24K gold rods



SCR Power Regulator

Max. capacity : 60A, 80A, 100A, 160A
Main power : 180V - 440V
Aux. power : 220V or 380V
Control method : Zero crossing or Phase angle
Control signal : 4-20mA, 0-10VDC, VR-10kΩ



Spraying System

Uni-Spray
Systems Inc.



MARK-I

Quick Clamp Body

Pipe size : 1", 1 1/4", 1 1/2", 2"
Clamp type : Single or Double
Drilled hole : 14mm, 16mm, 19mm
Material : PP (Max. 82°C)



MARK-III

Thread Base Body

Thread size : 1/4", 3/8", 1/2"
Thread type : BSPT
Adjustment : within 45°
Material : PP (Max. 82°C)



Snap-on Nozzle Tip

Spray pattern : Flat spray,
Full cone,
Hollow cone
Spray angle : 15° - 120°



Quick Change Nozzle Tip

Snap-on nozzle integrates
quick change tips



Tank Mixing Eductor

Size : 3/8", 1/2", 3/4", 1", 1 1/2"
Thread type : NPT
Amplified mixing : 5 folds
Max. operating : 104°C
Material : Glass-reinforced PP



PVDF Spray Nozzle

Material : Kynar® PVDF
Max. operating : 125°C

** Recommend for high corrosion and
chemical concentration application*



Spiral Spray Nozzle

One piece *anti-clog design*
for large flow / small droplets
full and hollow cone spray



WindJet Nozzle

Size : 1/4" BSPT
Material : ABS Plastic,
Aluminum Alloy
Max. operating : 77°C / 250°C
Max. pressure : 7bar / 30bar



Quick Disconnect



Pipe Saddle



Riser Support



Download Catalog
www.uni-spray.com

Misting System

AR NORTH
AMERICA



Misting Pump

Pressure : 80 bar
Flow rate : 1, 1.3 and 2 l/min
Voltage : 230V
Applications:
- Control ambient temperature & humidity
- Decrease dust and odor
- Get rid of insects outdoors



Fog Nozzle

Material : Chromium Plated Brass

Port size (mm)	Flow rate @ 60 bar (c.c./min)
0.15	44
0.20	84
0.30	138
0.40	169



Auto Mist Spraying

Spraying nozzles can rotate
360° automatically without
electricity



www.ppspray.com

Temperature Profiling System



A Fluke Company



PhoenixTM
Phoenix Temperature Measurement



Food Tracker Multipaq 21
(Food Processing)

Channels : 6 or 8
Measure range : -150°C to 1370°C
Sampling interval : 0.5sec to 50min
Accuracy : $\pm 0.2^\circ\text{C}$
Max. operating : -40°C to 85°C
Accessories : Food tray and jig



Oven EasyTrack2
(Paint and Powder Coatings Process)

Channels : 4 or 6
Measure range : -150°C to 500°C
Sampling interval : 0.5sec to 60min
Accuracy : $\pm 0.5^\circ\text{C}$
Max. operating : 85°C



Oven Tracker XL2
(Oven Heating and Finishing Process)

Channel : 8 or 16
Measure range : -200°C to 1370°C
Sampling interval : 0.5sec to 50min
Accuracy : $\pm 0.3^\circ\text{C}$
Max. operating : 85°C



Food Profiling System

For freezing and short duration fry / steam processes



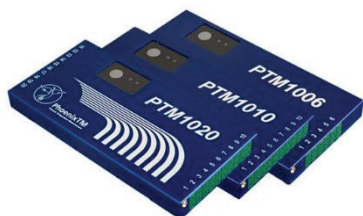
Compact / Classic Finishing System

For paint and powder coating processes



Furnace Profiling System

For high temperature and heat treatment processes



PhoenixTM Data Logger Specification

Thermocouple type	: K	
Channels available	: 6, 10 or 20	
Measure range	: -100°C to 1370°C	Max. operating : 70°C/110°C
Accuracy	: $\pm 0.3^\circ\text{C}$	Resolution : 0.1°C
Sampling interval	: 0.5sec to 60min	
Real time operations	: Via USB or RF telemetry	
Battery	: 2 x 'AA' replacement alkaline	Battery life : 400hrs
Memory	: Up to 450,000 depending upon number of channels selected	

Thermal Barrier



Compact Thermal Barrier

Stainless steel limited height barrier for low to intermediate temperature process



Silicone-Free Thermal Barrier
for automotive paint line

Aluminium case / withstand 3hrs @ 200°C
* No paint contamination caused by silicone products



Furnace Thermal Barrier
for harsh environment furnace

Combination of water jacket, composite insulation and a high grade alloy steel frame / withstand 8hrs @ 1,248°C



For more information
www.pptrade.net

Thermocouples



Needle Probe
for food and beverage



Exposed Junction & Adhesive Patch Probe
for multipurpose use



Micromag Probe
for automotive paint line



Clamp Probe
for non ferrous, flat sheet or alloy wheel



IRMag Poobe
for infrared cure oven



Mineral Insulated Probe
for high temperature operation



PTFE, Max. 256°C / Fiberglass, Max. 700°C

Glass & Stainles Braid, Max. 400°C

Nicrobel Max. 1250°C / Inconet Max. 1,000°C

Powder Coating System



Cartridge Filter



Rotary-Vane Filter Cleaning System



Fluidizing Sheet



Chainlube240

Model	Area	Dimension
PA200	3.42 sq.m	OD 270 x ID 210 x H 600
PA300	8.50 sq.m	OD 330 x ID 216 x H 600
PA320	8.50 sq.m	

* PA320 is made from special anti-static polyester

Filter height : 6m, 12m
Material : Stainless steel
Support : Ball bearing

Pore size : 50 micron
Plate size : W 3' x L 4'
Thickness : 3/4"

Flash point 240°C
Fully synthetic
Silicone-free

* recommend for paint baking oven

Energy Recovery System



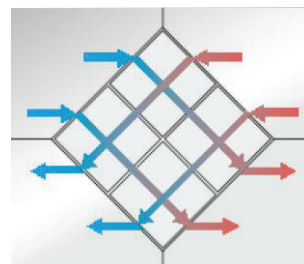
Fixed Plate Heat Exchanger

Efficiency : Up to 80%
Max. operating : 200 °C
Applications :
- Industrial oven heat recovery
- Oil paint baking application



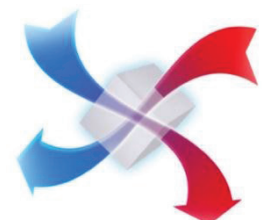
Rotary Wheel Energy Recovery Unit

Capacity : > 5,000 CMH
Max. operating : 50 °C
Applications :
- Large air flow
- Low temperature



ERU Employment

The ERU must be arranged to be achieved highest heat recovery by increasing of heat exchange area within acceptable air resistance



ERU Selection

The ERU selection concerns the following factors from hot-cold side :
- Air flow rate or velocity
- Air inlet temperature and humidity
- Exhaust duct dimension

PP SYSTEMS ONLINE SITES

www.ppss.co.th

All our products range includes key components for Gas Process Heating, Infrared Process Heating, Temperature Monitoring System, Cleaning & Cooling Equipments, Material Handling and Powder Coating System.



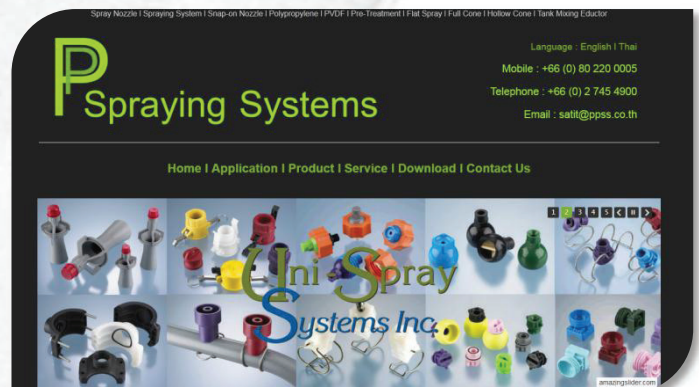
www.ppspray.com

A wide range of PP, PVDF and Stainless Steel Spray & Fog Nozzle, Eductor, Piping Components for cleaning & cooling industrial process.



www.เตาอินฟราเรด.com

In-depth detail about gas and electric infrared process heating including of Infrared Gas Burner, Ignition System, Ceramic Plaque, Short-wave Quartz Emitter, SCR Power Regulator and Customized Control Module.



www.pptrade.net

Online Purchasing
E-Commerce

PP Systems Company Limited

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