Tecflam

burners and thermal machines

SPRAY PAINTING
BURN OFF OVENS
FUMES TREATMENT

TecnecoForni

ecology and energy recovery

We have manufactured burners and industrial thermal machines for over 20 years in the spray painting and powder coating industries.
Our machines are custom made according to the clients specifications. In fact, we personalize each product with regards to the equipment installed, dimensions and capacity.

SPRAY PAINTING

Industrial air duct burners used for the heating of process air needed for the drying and baking cycles for industrial spray painting as well as for spray booths in the automotive sector.
These type of burners provide several advantages for process applications such as less time to reach the temperature setpoint required and more precision in maintaining the set temperature to produce an optimum final product.
The burners, designed according to the clients specifications, are all supplied fully cabled and tested. They are all equipped with combustion air fan, gas valve train, combustion body, fixing flange to connect to the air duct, electrical control panel and electrical junction boxes if necessary.

burners

VD.P/VD.PE

If one wishes to increase the process air temperature in an air duct, you can install by means of a fixing flange, one of these burners complete with combustion air fan and electrical control panel.
Power capacity from 70 kW to 2.400 kW

burners

VD.M/VD.ME

Whereas in the VD.P series the burner is inserted inside the duct, in this series all the burner parts are outside of the air duct. Only the flame enters the duct. The burner is fixed to the duct with a steel flange.
Power capacity from 70 kW to 2.400 kW

burners

R

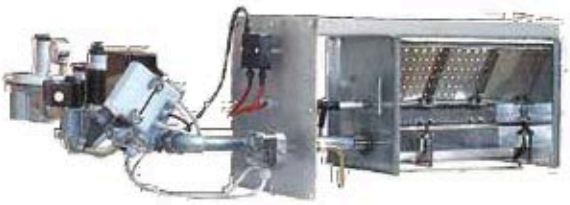
Force air burners with separate head. Their typical application is that of radiant tubes. In these cases the combustion air fan is chosen according to the back pressure in the system.
Power capacity from 20 kW to 2.000 kW

burners

VD.M

Direct fired burner fixed externally to the air generators channel. (only the flame enters the channel)
The burner is not affected by variations in the air flow thanks to its own combustion air fan.
Power capacity from 90 kW to 520 kW

burners



VD.PS/VD.PSE

With these burners, similar to the VD.P/VD.PE, the combustion air is supplied by the process air.
Power capacity from 60 kW to 600 kW

burners

VD.C/VD.CE

Duct burners complete with duct section in zinc plated steel (square or rectangular) according to the clients needs. These also have a linear combustion body in stainless steel for high temperatures. Only in this series can we configure "H" and "X" shapes which enable us to increase the power capacity.
Power capacity from 70 kW to 2.400 kW

burners

VD.CS/VD.CSE

With these burners, similar to the VD.C/VD.CE, the combustion air is supplied by the process air.
Power capacity from 60 kW to 600 kW

BURN OFF OVENS

Ovens for thermal paint stripping able to eliminate, by means of controlled pyrolisis combustion, paint from hooks and any metallic objects that need to be cleaned cyclically in the painting process.

Standard Stripper: the ovens are equipped with after burner designed according to the standards regarding atmosphere emission limits. The combustion chamber comes with an industrial burner and the structure of the treatment chamber is of the modular type, bolted together and powder coated.

Stripper with heat recovery: compared to the standard stripper oven these are equipped with a patented device for heat recovery that enables a reduction in fuel consumption of up to 40%. This is achieved by a modulating burner with refractory head in the after burner which is fed by hot air recovered from the fumes in the chimney.

FUMES TREATMENT

We manufacture after burners for the elimination of Volatile Organic Compounds (V.O.C), generated during paint drying and or baking cycles. For both types there is the possibility to recover heat, to produce hot air, inserting downstream of the pre-heater, a heat exchanger.

Afterburners: the process air containing the V.O.C is taken to a temperature of 750-850°C, with an adequate resting time (of 1-2 seconds) and with the presence of oxygen (at least 6%); one can eliminate the pollutants from the fluid that needs to be purified. The temperature is achieved by means of burners which run on either gas or Diesel fuels and which operate as single stage, two stage or as modulating burners. A system to add external air can be fitted in the case of the fumes or fluid to be treated is poor in oxygen content.

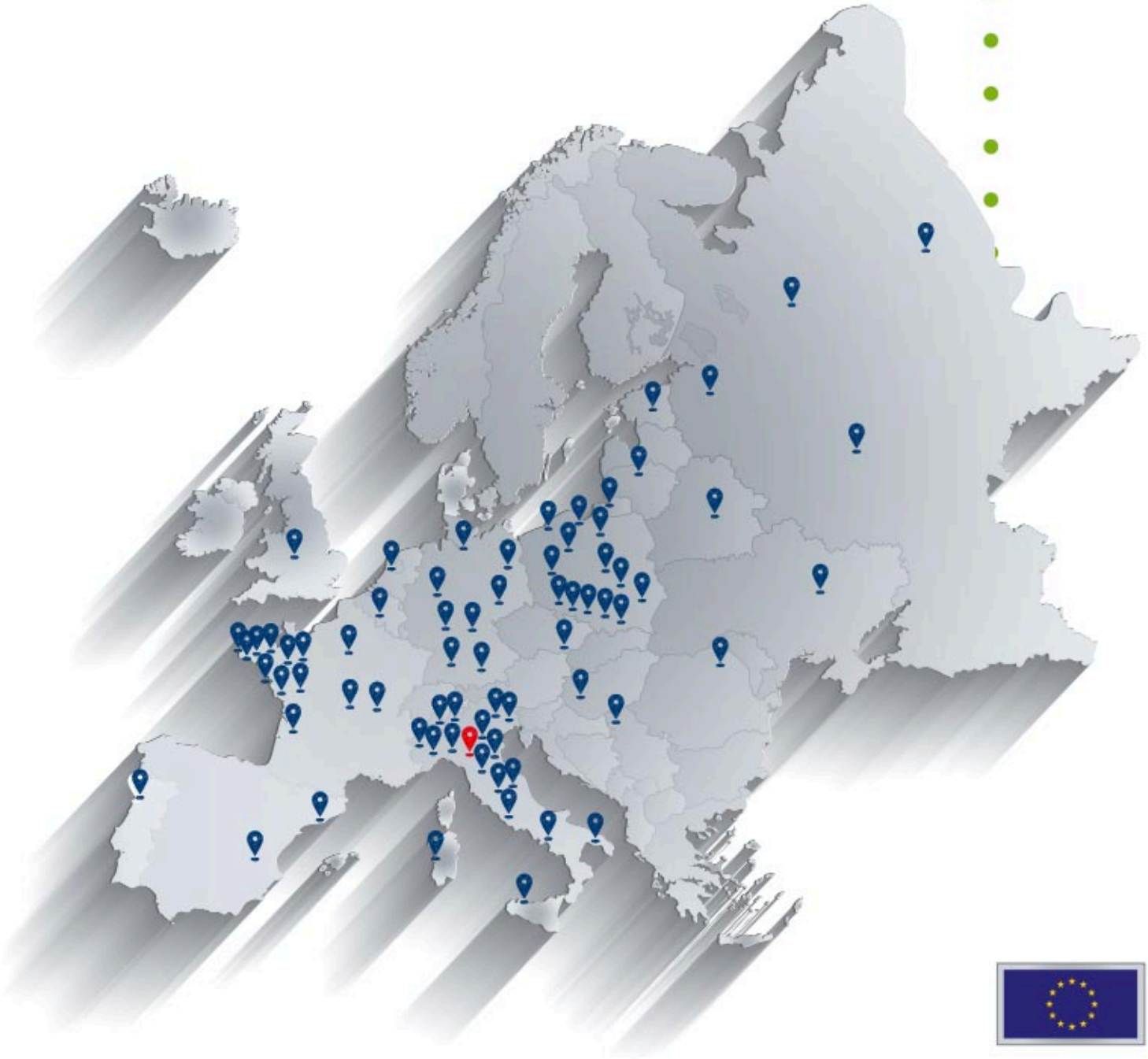
Afterburners with heat recovery: in these afterburners the air is preheated up to a temperature of about 350°C and then sent to the afterburner chamber traversing a special burner of the air duct type that uses the same air as combustion air for the fuel (natural gas or LPG). The temperature in the afterburner chamber is controlled between 750°C and 850°C with a resting time of between 1 and 2 seconds.

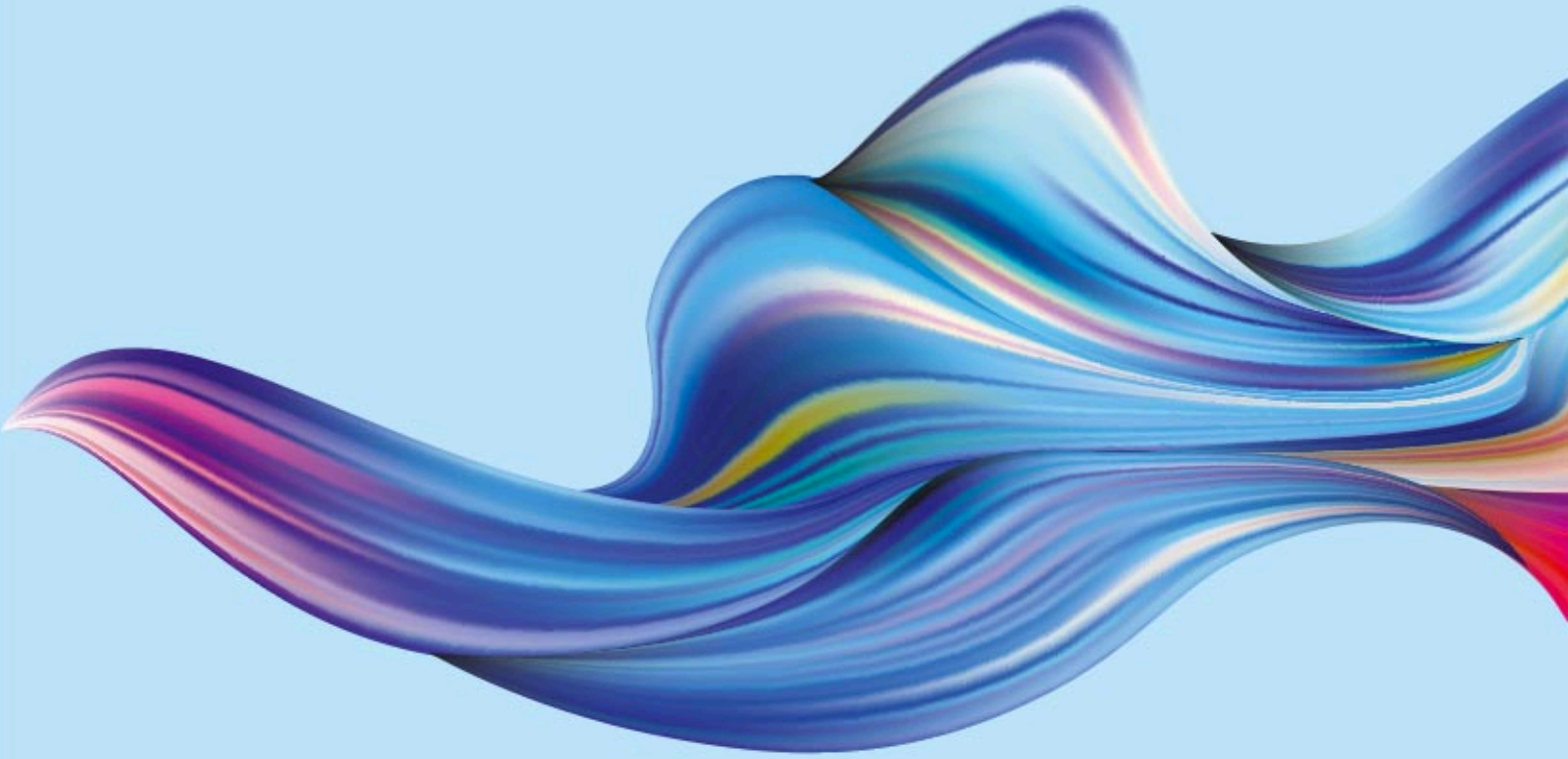
Air flows to be treated: from 500 m3/h and 6.000 m3/h.

Solvent concentration: depending on the type up to 10 gr/m3.

SERVICE

Because the burner is the beating heart of the plant it is necessary to have an after sales service network to avoid unnecessary downtimes.
Tecflam is continuously expanding this network both in Italy and abroad so as to provide this fundamental service to all end users.
Other than our technical service centre, Tecneco, a subsidiary of Tecflam, which is ready to intervene directly from our headquarters in Italy, we also have as of today many service centers spread all over Europe.





Tecflam

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Azienda con Sistema Qualità
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Tecflam s.r.l brand
www.tecnecoforni.it