Accessories for burners for liquid fuels

SER...

It is a tank for the second preheating of fuel oil; its construction is the most diverse and the specifications depend greatly on the design of the burner supply line. It must in any case receive the oil at 50° C and it preheats it up to 70/80° C with resistors and/or liquid-operated coils.

UPF 2004

A painted steel frame is fitted with the filters, gear pumps for the Fuel oil and the electric control panels and shunt boxes. It is supplied pre-assembled to facilitate on-site connections.

K...

It receives fuel oil from the SER at 70° C, with electric resistors in cascade sequence brings it to approx. 140° C and with the gear pumps pushes it at 24 bar into the burner head.

UGS 2001

It is the device that prepares the water to power the emulsified fuel oil burner. Even in this case, as mentioned previously for the UPF 2004 unit, it is a cabinet that is already completely pre-assembled and ready to be installed in the supply plant.

Normally, we are contacted by plant manufacturers who, in turn, must find the best, the cheapest or the most sophisticated solution to the request that their end client has brought to their attention.
Some time ago, we insisted on one of our clients proposing the possibility of burning fuel oil emulsified with water to his market... he trusted us and our burners did not disappoint his clients' expectations.
The design, the use of top-of-the-range commercial components, the careful installation of commercial and customised components, a valuable after sales service from the head office and the presence of service centres affiliated with Tecflam, already selected in some foreign countries, make these products effective and reliable.

The wide range of machines that Tecflam Srl has equipped in more than 20 years of activity, demonstrates the flexibility with which its departments, technical, production and after sale service, follow and respond ever the more so to requests by some of the most important european dryer manufacturers which come through our sales network.
In recent years Tecflam srl has re-organized its entire after sales service, now present, made up of the service department which has been entrusted to manage not only the spare parts but also to provide technical assistance; to visit, support and maintain close contacts with our external and foreign divisions that work side by side with us.

Tecflam

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Tecflam

burners and thermal machines

tiles, bricks & aggregates

VDC

VDCH

VDCLH

T...

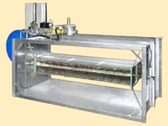
The ceramics, bricks and aggregates sectors are industries that use high-power burners, in different configurations and models with great set-up flexibility.
Tecflam srl works with the most important companies in these sectors; it has expanded with them and has learned, year after year, supply after supply, how to interpret the characteristic "signs" and give them the best response, as a result of the experience and technical potential in which it has invested in recent years.
Tecflam burners are also designed according to particular plant requirements, using the fuel available, with the possibility of using more than one type of fuel, one alternative to the other, in the same burner.
The presentation of the catalogue begins with the burners and their accessories, for methane gas, LPG or poor gases of different derivation, to conclude with burners that can burn traditional liquid fuels up to fuel oil (bunker) with a viscosity of up to 80° E at 50° C and which, in order to reduce fuel consumption and improve the combustion, can be emulsified with water.

Gas burners

VD.C...

Direct fire burners installed in a channel section made of galvanised steel sheet, painted or stainless steel finish, rectangular or square, according to the requirements and instructions of the client, manufacturer of the plant.
As all the others, even these burners feature a stainless steel combustion body, suitable for high temperatures and normally required in the ceramic sector.
Thermal power from: 93 kW to 2.441 kW

VD.CL...



In this model you can see how the ratio between the area of the channel section and the area of the combustion body is totally different from the ratio in the previous VD.C... model
This machine is traditionally supplied to the bricks sector which requires a lot of process air at low temperature.
Thermal power from: 175 kW to 2.441 kW

VD.CH...

This model features combustion body panels mounted in "H" configuration, to meet a request for higher thermal power in proportion to the channel section of the process air.
Thermal power from: 1.630 kW to 4.650 kW

VD.CR...

Same Burners as the previous series but with a circular channel section.
Thermal power from: 175 kW to 4.300 kW

VD.CH...

Work in progress

For atomisers.
This configuration has been designed and developed specifically for plants that require high power.
Thermal power from: 628 kW to 20.930 kW

VD.CRS...

The machines of these two series can feature the channel section or the geometrical configuration of the combustion body similar to the previous ones; they differ from these because they are designed to use a part of the process air as combustion air.
Thermal power from: 175 kW to 4.300 kW

VD.CS...

VD.P... e VD.PE...

If you need to increase the temperature of the process air in a channel, you can install one of these Burners with electric fan and electric control and power panel, by fitting it with a special plate.
Thermal power from: 70 kW to 4.650 kW

VD.PS...

VD.PH...

VD.M...

These special burners have been designed as an alternative to the VD.P... models, to perform the same function while trying to minimise structural work which would involve the installation of a burner body within a channel.
The burners can also be supplied with a channel section as shown in the picture, according to customer requirements.
Thermal power from: 70 kW to 2.441 kW

VD.ME...

VD.MC...

VD.G...

They are genuine hot air generators; their use is multiple, ranging from process air drying before being filtered by sleeve filters, to a proper intake of air at the desired temperature within a process.
Thermal power from: 70 kW to 756 kW

It is worth noting that in all these machines, called "direct fire" burners, the high modulation ratio that can be achieved makes them particularly flexible even for processes in which the operating temperature must necessarily feature limited heat deviations.

E...

Steel combustion chambers designed and made by our subsidiary TecnecoForni srl; the chambers are for direct and indirect fire. In the latter, the combustion products, unlike the previous series, are expelled into the atmosphere and do not contribute to the drying process.
Thermal power from: 580 kW to 6.000 kW

T... G

If gas is available, if you need to produce heat for an atomiser, for a rotating drum, for a steam or hot water-operated boiler, for an Air generator, for an incinerator or for…, if you wish to equip the plant with a burner that can, if necessary, burn fuel other than gas because the price of gas has gone up or because the gas supply is not ensured, you can install these machines, also produced directly by Tecflam srl and set-up with the usual care that sets us apart.
Thermal power from: 1.160 kW to 19.420 kW

TGH

TGNDE

T...GLHNDE

Burners for liquid fuels

(diesel, fuel oil and fuel oil emulsified with water)

T...NDE

We introduce the machine among those featuring the highest technology produced by Tecflam srl; it is a burner with a separate head that must be connected, via a channel, to a fan for the combustion air; it features a 1/5 modulation ratio, with the possibility to be equipped with a gas pilot flame for cold starts and, in addition to the normal mechanical pulverisation of the nozzle at 24 bar, it uses an average 15/18% of water to improve the combustion of dense oils (up to 80°E at 50°C.
The improved combustion results in a significant reduction of unburned pollutants in the treated product and a significant reduction in consumption in proportion to the treated product.
Thermal power from: 1.160 kW to 19.420 kW

These burners, to ensure optimum, secure and reliable operation, require a series of essential accessories, defined and chosen according to the user's needs and to the design data of the Tecflam srl technical dept.
The brochure only features the most consistent part of the accessories, already widely tried and tested, representing 30 years of experience spent discussing and giving constructive responses to the questions coming from various industrial sectors.