DRYING

DIRECT HEATING WITH GAS

The Cimbria modulating line gas burner is used for direct heating of the drying air for a Cimbria continuous flow dryer.

Design and Function
The modular design of a line gas burner makes it flexible. It fits all Cimbria dryer models A and B, ECO-Master and ECO-Logic.
The line gas burner is placed under the hot air chamber. The hot air is directed to the top of the chamber, through the spark screen down alongside the drying sections and into the channels as shown in figure 1.
The Line gas burner is modular built and besides the burner housing, consist of a gas train with a control - to be connected to the dryer control panel.

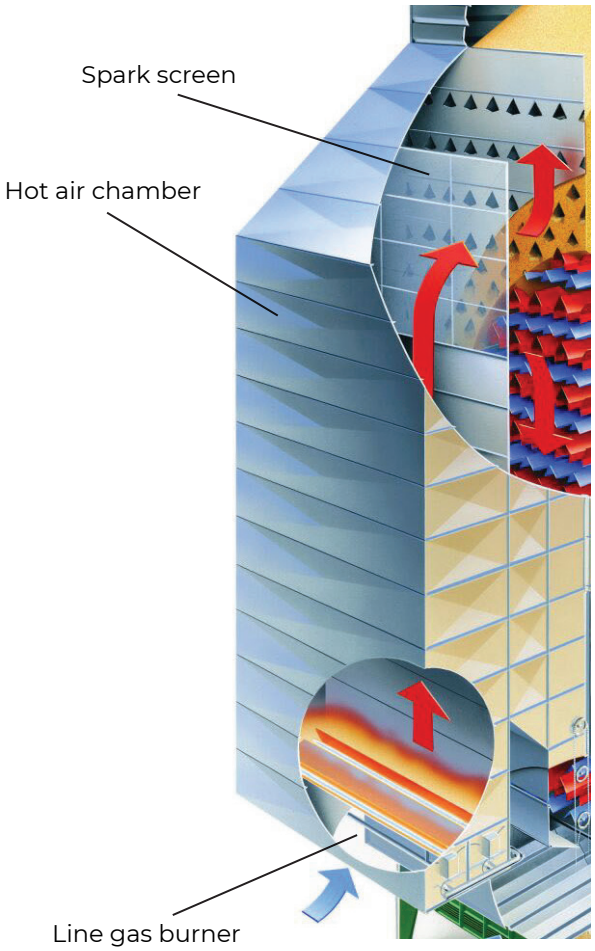
Material
The elements of the burner are manufactured from castings in stainless steel.
The burner housing is manufactured from 2 and 3 mm galvanised plate according to EN 10142.

Gas Train
The gas train consists of ball-, safety- and control valves and all necessary filters and flanges. The train is manufactured according to DS/EN 746-2.
The train is fastened under the hot air chamber against the dryer column.

Gas Supply
The burner can be used for natural gas and LPG gas. The gas pressure to the gas train can either be low pressure (up to 300 mbar) or high pressure (up to 5 bar).

Spark Screen
Cimbria offers an optional spark screen as an accessory to the line gas burner. The spark screen is placed in the upper part of the hot air chamber. It neutralises sparks that could have been sucked into the cereal. We strongly recommend using the spark screen when re circulating the heat.

Figure 1: Line Gas Burner on a Cimbria dryer



Capacity and Airfow

Type	Capacity [kW]	
	Min.	Max.
VD120	82	1 630
VD180	123	2 442
VD240	163	3 250
VD300	198	3 950
VD180 Dual	244	4 884
VD240 Dual	326	6 510
VD300 Dual	395	7 900

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Cimbria A/S | 7700 Thisted | Denmark | +45 9617 9000 | cimbria.cma@agcocorp.com