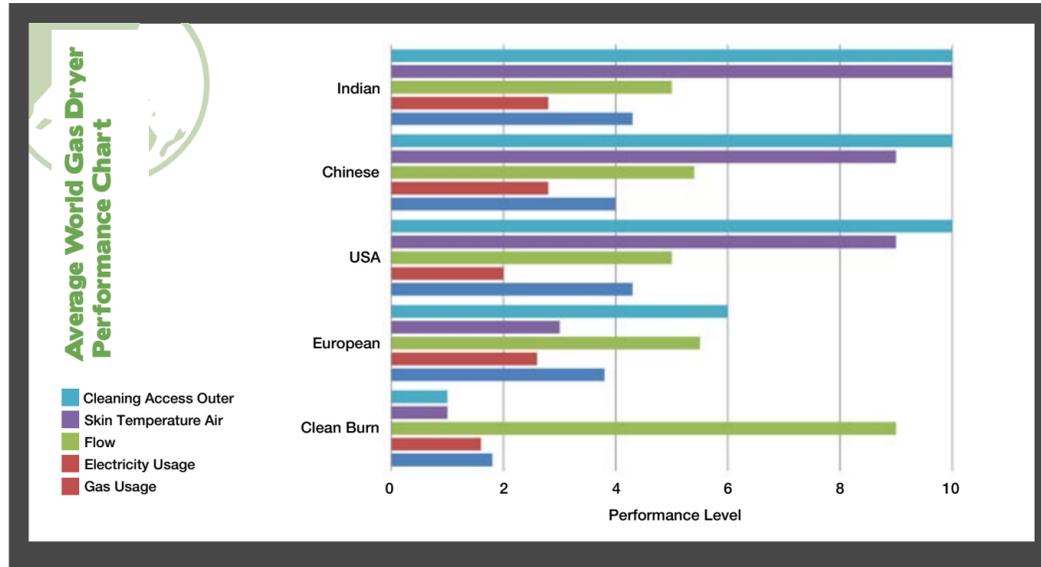


DRYER PERFORMANCE

The diagram compares the Clean Burn gas dryer with other gas dryers. Electric dryers are not compared as they use high levels of energy and there is very little temperature control. The temperature variance can be as much as +/- 20 °C with some manufacturers dryer systems.



Clean Burn will solve your curing problems in the following industry s:

- ✓ TEXTILES - Digital and Direct
- ✓ PAPER AND BOARD
- ✓ MEDICAL
- ✓ GLASS
- ✓ CERAMICS
- ✓ ELECTRICAL

Clean Burn dryers solve instantly the drying problems most operations face - one day all dryers will be made this way. Clean Burn can be designed and tailored to meet your curing needs.

CLEANBURN CONFIGURATION

Burners	Belt	Belt width	Infeed	Oven Length	Outlet	Overall Length	Burner Start up	Burner running	Average Belt speed at 170°C	Units per hour	Electrical req	Average electric power usage/hour	Average gas usage/hour
1 x kw	Single belt	100cm (39")	0.9mtr (2' 11")	2mtr (6' 7")	1.2mtr (3' 11")	4.1mtr (13' 5")							
		130cm (51")											
		160cm (63")											
		190cm (75")											
1 x	Single belt	100cm (39")	0.9mtr (2' 11")	3mtr (9' 11")	1.2mtr (3' 11")	5.1mtr (16' 9")							
		130cm (51")											
		160cm (63")											
		190cm (75")											
1 x	Twin belt	2 x 82cm (32")	0.9mtr (2' 11")	3mtr (9' 11")	1.2mtr (3' 11")	5.1mtr (16' 9")							
1 x	Single belt	100cm (39")	0.9mtr (2' 11")	4mtr (13' 1")	1.2mtr (3' 11")	6.1mtr (20')							
		130cm (51")											
		160cm (63")											
		190cm (75")											
2 x	Single belt	100cm (39")	0.9mtr (2' 11")	5mtr (16' 5")	1.2mtr (3' 11")	7.1mtr (23' 4")							
		130cm (51")											
		160cm (63")											
		190cm (75")											
2 x	Single belt	100cm (39")	0.9mtr (2' 11")	6mtr (19' 8")	1.2mtr (3' 11")	8.1mtr (26' 7")							
		130cm (51")											
		160cm (63")											
		190cm (75")											
2 x	Twin belt	2 x 82cm (32")	0.9mtr (2' 11")	6mtr (19' 8")	1.2mtr (3' 11")	8.1mtr (26' 7")							

* Configurations based upon average temperature 170°C and standard size substrate
 * 830mm Belt height plus 50 mm height adjustment (or to fit application)
 * Internal tunnel height for application 120mm variable working height
 * Option for Cooler 300mm or 600mm in Length, other options available upon request

Probably the most efficient dryers in the world



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DOES YOUR CURING SYSTEM POLLUTE & BURN YOUR MONEY?

THEN WHAT YOU NEED IS CLEANBURN.



With the introduction of stricter emission controls in the UK and EU and the need for a high efficiency, low cost operating dryers, a development programme was initiated to develop an evolutionary eco gas drying system that will take drying into the 21st century. One day all dryers will be made this way.

This new technology allows us to manufacture standard dryers for all markets, including industrial sectors, textiles, transfers and all glass applications, along with many other market areas.

With our dryers currently working within the bio-medical industrial sectors, the specifications and company requirements are extremely high and this has formed the proving ground for an extremely reliable, trouble free dryer in a critical environment that is now available to all areas of industry.

Add to this the low carbon monoxide emission levels and a proven low running cost, the dryers are not only well engineered, but they will also significantly reduce your current energy usage bill. Sanco are registered manufacturers/suppliers of carbon reduction equipment.

DRYER BENEFITS

CLEAN BURN TECHNOLOGY uses natural gas or propane gas (small bottles). The gas usage is very small therefore if natural gas supply is not available then small gas propane bottles can be used, i.e. special gas supply is not necessary.

SINGLE PHASE POWER SUPPLY IS OPTIONAL Electricity only requires single phase i.e. 230v/240v. Only needs to be plugged into a standard 13amp socket. No special connections required. Larger spec dryers are 3 Phase (16 amp). It is more economical to run off 3 phase.

EASY ASSEMBLY within a few hours, the dryer is shipped in modules for easy assembly and access into buildings. Flat pack is available for assembly in the country of purchase.

LOW SELF MAINTENANCE carried out by the customer. By following Sanco Technology maintenance recommendations then only a periodic service is required by the maintenance team (Dryer Doctor).

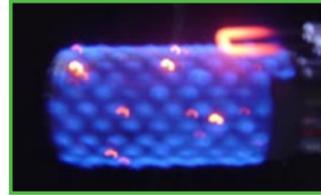
HIGH DRYING PERFORMANCE The Clean Burn technology dryer provides the ultimate drying performance and will eliminate any current drying issues an operation faces. i.e. scorching, discolouration, washability etc.

TEMPERATURE CONTROL Sanco remote gas heated airflow system provides levels of accuracy and constant air pressure across and down the belt within the whole dryer tunnel. This is to within +/- 3°C consistently irrespective of the oven temperature settings.

SPECIFICATION

The specification and size of dryer can be made to the customers exact requirements, due to all aspects of manufacturing being carried out in the U.K factory by highly experienced engineers with an eye for detail, quality, and precision.

The dryer is constructed from sheet metal that is cut, folded, fabricated assembled and tested at our facility from start to finish. The inside of the dryer is galvanised steel as standard, but stainless steel can be incorporated where the need arises. I.e. medical dryers. The gas burner enclosure section is manufactured from stainless steel and all parts are insulated to the highest standard, to reduce heat loss within the dryer, resulting in less gas being used in the drying process.



ECO GRANTS/SUBSIDIES Extremely low carbon monoxide emissions combined with the low gas consumption permit in many cases users to obtain grants or subsidies (Region dependable).

MODULER DESIGN The modular designed ovens allow the end user to specify the exact format for their needs. Due to the design of the ovens additional burner or dryer modules can be added at a later date.

The Clean Burn dryers are manufactured in 2 metre and 3 metre modules, providing various combinations of heated ovens. Hence giving the Clean Burn dryer the edge in oven length - with a high flow air delivery design.

EASY BELT ACCESS Dryer hoods lift up for easy access enables inside of dryer to be cleaned and maintained.

DESIGN Attractive in design to compliment and stand out in any operation.

THE HMI TOUCH SCREEN CONTROLLER A high specification controller with operator interface to the PLC



Set temperature and actual temperature indicator
Belt speed indicator
Burner ON indicator
Burner AULT indicator
PLC od link LAN digital
coms links via internet

INSULATED CONSTRUCTION The dryer is insulated to a very high specification to ensure that the heat stays within the dryer and the outer skin stays cold. Therefore no heat is admitted from the dryer skin (frame) into the working area.

The factory remains at the same temperature with or without the dryer and will not affect operations with air conditioning.

LOW RUNNING COSTS Due to air circulation through the dryer and the advanced burner system, the Clean Burn technology that is designed into the dryer enables it to operate with very low gas consumption.

This tank volume of gas will run a 3 metre oven clean burn dryer, belt width 1mtr for

80 HOURS AT 170°C



EMISSIONS TO ATMOSPHERE must pass through our burner thus making system environmentally green.

EMISSIONS TO WORKING ENVIRONMENT The burner flame is totally isolated in its own environment hence we can introduce even stricter emission controls, eliminating any possibility of Carbon monoxide (Carbon monoxide (CO) is a colourless, odourless and tasteless gas, yet very toxic to humans) poison gas entering the print room unlike other manufacturers dryer systems. This is due to the nature of conveyor dryers with open tunnels.

COLD CLIMATES Heat exchanger (optional) can be fitted to the exhaust ducting to provide heat during cold periods thus recovering heat that is discharged to atmosphere.

PROGRAMMABLE LOGIC CONTROLLER (PLC) (optional extra) allowing modem link via the internet for fault diagnostic. Achieved by plugging the dryer into a PC Internet connection. This communication capability enables the user to communicate to an engineer thus making problem solving globally remotely possible.

monitors and records emission levels
Sensors in the dryer tunnel count number of pieces cured
Pre-programmed with energy unit costs enables accurate calculations of energy consumption rates and daily/weekly costs of running the clean burn dryer



CLEAN BURN DRYER FLAT PACKS Dryer Flat packs available to reduce assembly costs and freight costs. In some cases preferential import rates when shipping the dryers out of the UK.



DRYER DOCTOR: SERVICING & MAINTENANCE Periodic servicing by fully qualified dryer doctor gas & electrical engineers- network of engineers to answer queries by telephone or e-mail both in the UK and the region of purchase.

HEAT EXCHANGER The Heat exchanger mechanics are simple. The waste process air is discharged by the exhaust duct then simply channelled through an inner aluminium jacket. A temperature controlled fan system is then activated, producing clean heat as the air passes through the fins on the heat changer.

High reliability and efficiency
Economical low running cost
Produces up to 50 degrees Centigrade of clean heat at 1
Simple and green and pay back in on average 2 years, thereafter it is almost free heating



COOLER This small cooler has variable speed control that reduces substrate temperature thus making handling temperature operator friendly

Model		130cm (51")	160cm (63")	190cm (75")
Width	30cm	(12")	4	4
4	4			
Width	60cm	(24")	4	4
4	4			
Width	90cm	(36")	4	4