

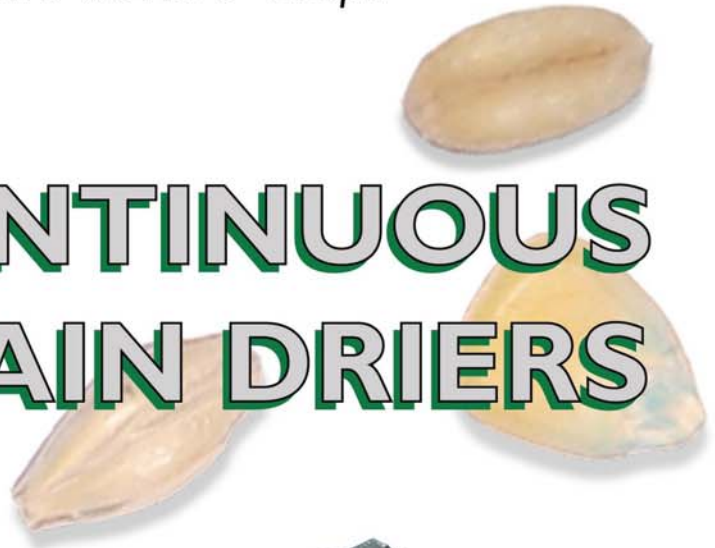


# ALVAN BLANCH

*Processing the World's Crops*



## CONTINUOUS GRAIN DRIERS

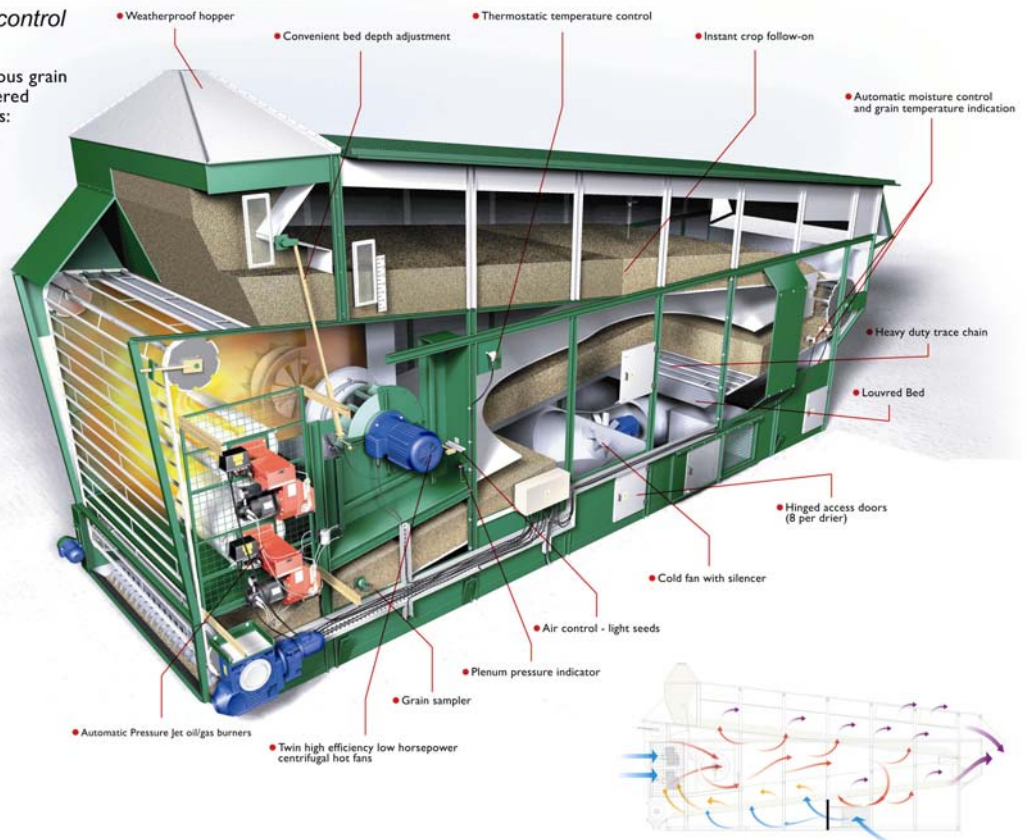


**ALVAN BLANCH**  
**DOUBLE FLOW SYSTEM**  
*performance flexibility control*


**ALVAN BLANCH**  
**DOUBLE FLOW SYSTEM**  
*performance.flexibility.control*

The UK's best selling continuous grain drier, now radically re-engineered gives you these *unique* benefits:


- **Unbeatable performance** - even at low temperatures (malt, seed etc.) thanks to boosted air flow.
- **Precise and consistent drying** - mechanical flow avoids streaming + full inversion of bed.
- **Uniquely versatile** - handles any granular crop in any condition - no need for pre-cleaning.
- **Highly fuel efficient** - total recovery of waste heat from cooling section.
- **No downtime between crops** - instant, electronically controlled, follow-on without emptying/refilling.
- **Step-less auto speed control** - instant response for optimum accuracy.
- **Low fire risk** - trapping of trash avoided and full accessibility to all compartments.
- **Minimal environmental impact** - low profile, low noise, dust controlled.
- **Low installation cost** - pre-erected, pre-wired and pre-plumbed.
- **Dependability** - backed by 2 year warranty and nationwide support.
- **Built to last** - proven longevity enhanced by new treatment/finish.



Over half a century of evolutionary progress in grain drying....




50s  
60s  
70s  
80s  
90s  
00s




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*performance.flexibility.control*

**Before**




DF 275 Drier 16t/yr - 1966

**After**



DF 30000 Drier 33t/yr - 2002  
Same site, same handling equipment - double the capacity.



00s

..... still unique and still in front .....

# Built in Controllability

## Convenient Operator Control

The simple to operate controls are conveniently located on one side of the drier, so that the drier can be set to deliver optimum performance at all times.

## Adjustable Bed Depth Control

A unique feature of the Double Flow system is that bed depth can be varied to get the best results from every crop (e.g. reduced depth for dense or very wet crops) - making optimum use of the available airflow.

## Air Control - for light seeds

Light seeds such as linseed do not risk being lost in the exhaust airstream because the air volume can be partially restricted.



DF 17750 Drier - 19.5 t/yr - typical external installation

## Safety Controls for Unsupervised Operation

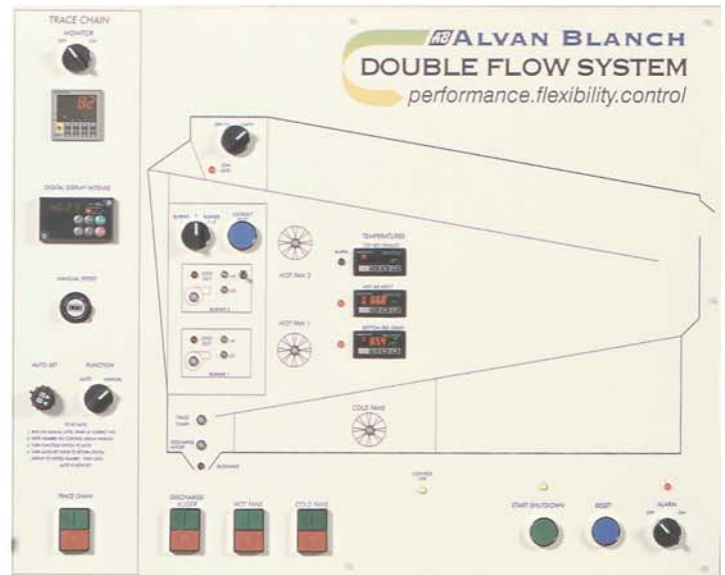
Automated, phased, fail-safe shutdown of the drier is provided via sensors. These cover; feed hopper:empty, discharge:blocked, furnace/air/grain:overheat, motor:over-load, burner:lockout etc.

This allows for unsupervised operation (if ancillary equipment is also adequately protected).

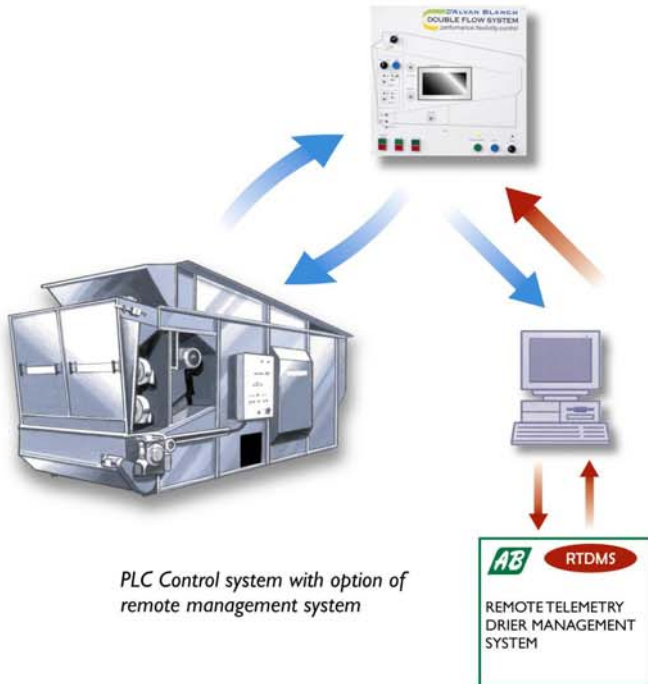
## Choice of Electronic Control Systems

Relay logic control panel as standard, simple to operate using universally available components, with colour mimic, LED functions/fault indicators and bed speed inverter diagnostic display, for ease of recognition.

PLC control system now offered as an alternative giving enhanced control linkable to PC for improved system management. Remote telemetry package upgrade linked to Alvan Blanch technical assistance programme (RTDMS) is also available



Colour mimic from standard relay logic control panel



PLC Control system with option of remote management system

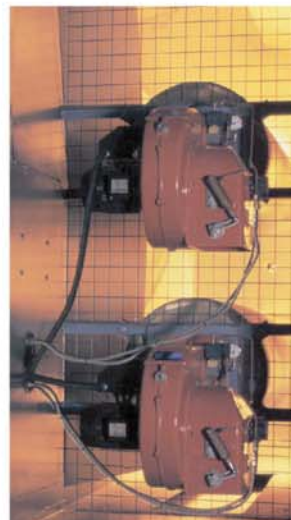
## Stepless Auto Speed Control

Changes in product moisture levels are detected by a probe embedded in grain flow the control system constantly adjusts the speed of the trace chain as required to compensate. Changes are smooth, instant, entirely linear and infinitely variable for optimal evenness of moisture content.

## Trace Chain Monitor - for crop recording and instant crop follow-on

Records bed chain travel and can automatically stop drier when a new variety/type of grain has reached the discharge point, avoiding downtime on changeover. Also used for volumetric calculation of grain tonnage dried.

## Full Temperature Control - no nozzle changes



Twin automatic pressure jet burners allow the complete range of possible drying temperatures to be obtained without changing nozzles, through the full range of ambient conditions.

## True Continuous Flow - no pulsing

The consistent product discharge means that ancillary handling equipment need only be sized to the maximum capacity of the drier (generally twice the rated figure).

## Guaranteed Flow Consistency

No matter how dirty the sample, the positive conveyor action coupled with full inversion of grain bed ensures that all of the product passes through the drier at a common speed (avoids the risk of streaming that can occur with gravity flow systems). This evenness of drying is particularly important on crops such as malting barley.

# Highly Efficient, Uniquely Versatile

## Improved Fuel Consumption - thanks to air recirculation

The uncompacted drying bed encourages moisture release and warm exhaust air from the cooling section is recirculated to hot fans, improving fuel consumption by up to 15% - important as fuel costs account for over 80% of energy costs on all continuous grain drying systems. Fuel flow/totalising meters are a recommended option so users can keep a record of their drying costs.

## High Air Volume - unbeatable for drying malting barley etc

The Double Flow System does not rely on high temperatures to achieve its performance - instead it uses a very high airflow. As a result, on crops such as malting barely, seed grain etc. - where low drying temperatures are essential - the double flow system out performs all other driers.

What's more, in warm dry weather the high airflow means that up to 2% moisture can often be extracted without the use of any heat at all.

## Low Fire Risk - very accessible

The combination of the conveyor mechanism and the unique louvred bed ensures that straw/trash cannot become trapped to create a fire hazard.

Good accessibility is provided to all compartments of the drier for periodic checking.



DF 22000 Drier - Specialist industrial application with exhaust dehumidification



MDF 22000 Drier 25t/hr- full highway version

## Mobile Versions - largest on the road

Models up to 25t/hr DF22000 are available in a choice of two mobile versions - basic for on-farm use only, and full highway for towing at up to 30K/hr.

## Mechanical Flow - handles crop in any condition

Very wet and dirty corn can be handled without difficulty, avoiding the need for a pre-cleaner or aspirator.

Cleaning, if required, is better performed on dry grain - no energy is wasted as chaff floats to the top of the bed and is dried with exhaust air.



SP 13750 Drier -Special products version for non granular products such as wood shavings, herbs etc. (see separate leaflet)

## Uniquely Versatile - perfect results on every crop

No other drier can match the range and condition of crops that can and have been successfully handled by the Double Flow. With the new Special Products version for non granular materials - this range is even greater.

With the continued expansion of non traditional crops - this versatility gives you extra peace of mind.

### Just some of the products dried

Wheat	Soya beans
Barley	Grass seed
Oats	Evening primrose
Rape seed	Pyrethrum
Linseed	Borage
Peas and Beans	Sugar beat pulp
Maize	Breadcrumbs
Rice	Potato peelings
Cotton seed	Woodchips/shavings
Sunflower	Sawdust
Cocoa Beans	Herbs
Coffee Beans	Calcified Seaweed
Malted sorghum	Paper

# Minimal Environmental Impact



## Flexible Planning Solutions

The standard drier is designed for part external installation and comes complete with roofing sheets. It is also available with a fully weather-proofed feed end for all outdoor use or, as an all indoor unit, complete with sealed cover to the top bed.



*DF 17750 Drier - 19.5t/hr - with blockwork dust collection house at rear*



*DF 11000 Drier - 12t/hr - typical part external installation, well adapted to old farm building*



## Low Noise - very quiet operation

All fans are now located inside main drier body - greatly reducing noise.

Hot fan impellers are special low noise, aerofoil bladed, backward curved centrifugal type.

Axial flow cold fans are fitted with silencers.

All noise is generated at low level and so on particularly sensitive sites, timber sound barriers can be erected to create an even quieter installation.



## Low Profile - minimising visual impact

New drier installations can blend unobtrusively with farm building profiles, often overcoming very tight planning constraints.

Off-standard colours can be accommodated at a modest extra cost.



## Options for Dust - can be removed by drier - or left in the grain

As grain falls between beds at the return end of the drier, dust/chaff is lifted by exhaust air escaping from the bottom bed, creating a useful cleaning function. Dust can be collected by a simple structure - avoiding need for expensive cyclone systems.

Alternatively the drier can be specifically adapted so that dust is retained in the crop (no precleaning is needed).



*DF 30000 Drier - part external installation, blends well with modern buildings in keeping with tight planning constraints*

# Quick to Install, Long to Last

## Pre-erected/Pre-wired/Pre-plumbed - for fast installation

Most models are delivered in one piece, with just feed hopper, roof sheets and gearbox to be fitted on site.

Even the burners are pre-plumbed with filter and fusible link cut off valve - just leaving connection of the oil supply on site.

All motors and switches are pre-wired to a junction box. Burners and drives are factory test run.



DF 30000 Drier - 33t/hr - during installation

## Easy to relocate

If long term plans may change its good to know that Alvan Blanch driers are easy to relocate and retain excellent resale values.



Commissioning of DF 30000 Drier



Main section of DF 42000 Drier - 47t/hr -  
lifted from truck to final position

## Built to Last - with reliability backed by a 2 year warranty

When you're making a major capital investment, you want to know your machinery is going to last. Alvan Blanch have a record that is indisputably second to none - hundreds of our driers from 1950's-60's are still in operation today.

Our construction system consists of very heavy gauge sheets cladding a robust frame of shot blast channel section.

All external joints are in-filled with silicon sealant to prevent ingress of moisture and a high build two-pack epoxy paint system ensures anticorrosive protection.

Reliability is ensured by the exclusive use of well proven, high quality components and is underlined by our 2 year warranty.

## A Long Track Record For First Class Service

Of almost equal importance to the product itself is our approach to Customer Service.

Our driers are totally designed and manufactured at our 9,000m<sup>2</sup> factory, so we are able to maintain direct control of every aspect of the job up to the point of delivery.

Our highly experienced service engineers operate from the main factory and our depot serving Scotland/Northern England. We also operate a 'Harvest Hot Line' parts and advisory service.

We guarantee ongoing parts availability for all driers.

Our highly experienced area managers all grain system specialists are ready to prepare layout design proposals after a site visit.

**Refer to detailed price list for full technical specifications of the Double Flow System range.**

In accordance with our policy of continuous development, we reserve the right to change specifications and prices at any time without notice or incurring liability to purchasers. All goods supplied according to our published terms and conditions of sale (copies on application)

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