

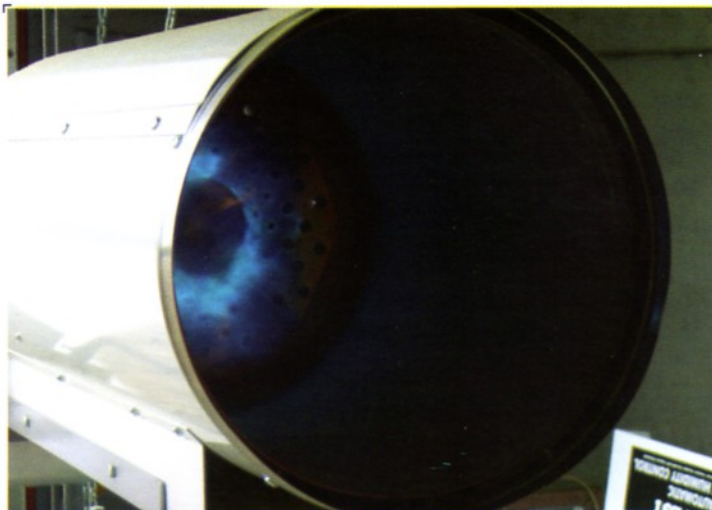
CHC Introduction

By adding a Harvest Automatic Constant Humidity Controller (CHC) to your existing crop store you can effectively dry 24 hours a day during any weather conditions.

The CHC system has a proven record of accuracy, efficiency and economy - there are thousands of units in use. Its the easiest and surest way of turning bulk storage systems into reliable drying units.

Economical drying rates are achieved because the CHC system gives continuous drying all the time the store fan is running. The CHC is effective on all usual combinable crops.

A large range of models are produced, from 200,000 to 4,000,000 BTU/hr - to suit all types of fans. Each one features purpose-built solid state electronics and plate-type burners ensuring accurate, trouble-free performance. We also provide a back-up service to match.



Harvest Automatic Constant Humidity Controller - Showing Plate-type Burner Head

CHC Features Breakdown

Plate-type Burner Head.

Harvest's purpose-built burner head has been developed to give maximum possible heat output and the most efficient combustion of LPG. Its size is as compact as possible keeping the CHC unit easy to handle, portable and small enough to be installed into the majority of existing bulk stores.



Fan Technology.

Harvest's designers have successfully matched fan size to burner output. This gives the maximum air out-put with minimum electricity consumption and the lowest noise levels.

CHC Control System

Electronic Controls.

The total CHC control system is conveniently housed. It incorporates a large digital display showing humidity or temperature levels.

A computerised programme of heat out-put relevant to ambient humidity gives you a very accurate control system that's been verified by independent assessors. This system is common to all CHC models.



CHC Control System

Safety Regulated

Safety.

All Harvest equipment and components are manufactured to current regulations and each CHC unit carries the CE mark.

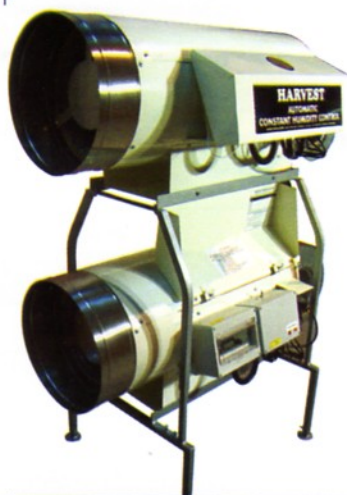
This guarantees that each CHC model has the highest specifications and top-quality components.



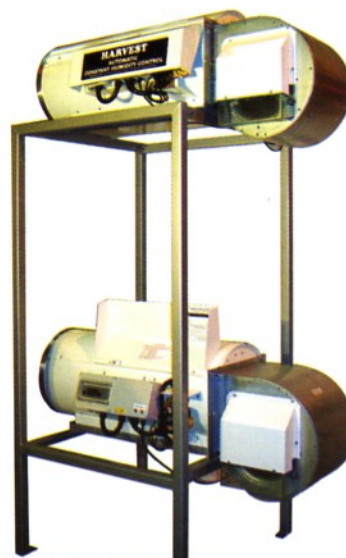
CHC Onion Burners

High capacity Fans in onion stores have led to the development of multiple units with a single master unit controlled by one sensor within the main air-duct.

Harvest Installations can supply multiple units on purpose built frames for either grain stores with multiple fan units or onion drying plants with their high capacity fans and large air ducts.



Standard Adjustable Double Unit



Extended Double Unit



Multiple Burner Installation

Harvest Advance Controller

To give a complete drying and conditioning system, Harvest have designed an automatic fan control unit, using the same humidity or temperature sensors that control the Burners, fans can be programmed to run between an upper and lower limit controlled by either the humidity or temperature sensor.

This is invaluable when cooling stored crops and eliminating the possibility of "re-wetting" grain or running fans when ambient conditions are not suitable.

The Harvest Advance Controller is extremely easy to program and suitable to install with existing or new fan units.



Harvest Advance Controller

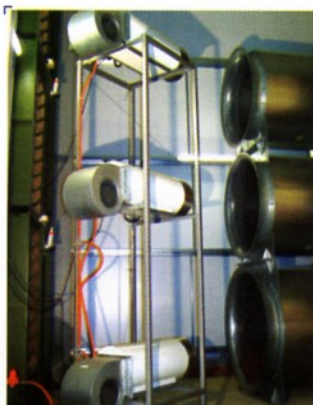
Moisture content - relative humidity % equilibrium for various seeds at 15"

Drying % RH of air	55	60	65	70	75	80	85	90
Wheat %m.c	13	13.5	14.5	15.5	16.5	17.5	19.2	20
Barley %m.c	12	13	14	15	16	17.8	19	19.5
Oats %m.c	11.5	12.5	13	14	15	17	19	20
Rape %m.c	7	7.5	8	9	10	12	14	16
Peas %m.c	12	13	14	16	18	21	24	27
Ryegrass %m.c	11	12	13	14	15	16.5	20	24
Beans %m.c	12	13	14	16	18	20.5	23	26

Harvest Maxi Stirrer and Multiple Fan Installations

As more farmers use the Harvest Maxi-Stirrer as a batch drier employing high temperature air for faster drying, larger models of CHC are used to give the necessary temperature lift, also multiple units.

The larger models give the required temperature control in onion stores where exceptionally high volumes of air are required. Details of the Maxi-Stirrer and crop-drying fans are available on other literature.



Multiple Burner & Fan Installation



Harvest Maxi-Stirrer


CHC 20S

CHC 45S

CHC 45D

CHC 60S

CHC 250S

Model	Max Heat Output Required		Max airflow In C.F.M For Guaranteed Drying	Max Airflow In C.F.M To Give 30° Temp Lift
	BTU/HR	KW		
CHC 20S	200,000	58.6	14,000	3900
CHC 20D	400,000	117.2	28,000	7800
CHC 30S	300,000	87.9	21,000	5860
CHC 30D	600,000	175.8	42,000	11720
CHC 35S	350,000	102.5	24,500	6830
CHC 35D	700,000	205	49,000	13660
CHC 45S	450,000	131.8	31,500	8790
CHC 45D	900,000	263.6	63,000	17580
CHC 60S	600,000	175.8	42,000	11720
CHC 60D	1,200,000	351.7	84,000	23440
CHC 75S	750,000	219.7	52,500	14660
CHC 75D	1,500,000	439.4	105,000	29330
CHC 100S	1,000,000	293	70,000	19530
CHC 100D	2,000,000	586	140,000	39060
CHC 200S	2,000,000	586	140,000	39060
CHC 200D	4,000,000	1172	280,000	78130
CHC 225S	2,250,000	659.2	157,500	43940
CHC 225D	4,500,000	1318.4	315,000	87880
CHC 250S	2,500,000	732.4	175,000	48820
CHC 250D	5,000,000	1464.8	350,000	97650
CHC 300S	3,000,000	879	210,000	58590
CHC 300D	6,000,000	1758	420,000	117180
CHC 350S	3,500,000	1025.5	245,000	68350
CHC 350D	7,000,000	2051	490,000	136700
CHC 400S	4,000,000	1172	280,000	78130
CHC 400D	8,000,000	2344	560,000	156260

Optional Extras.

- Pair of transport wheels complete with axles.
- Extension frames for Duplex and Triplex fans.
- Manual heater control box.
- Air pressure cut-off switch.
- Dial indicating manometers.

Our Service Includes

Delivery
Installation
Commissioning
Maintenance

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