Product information and performance data

CHC 20S

CHC 45S

CHC 45D

CHC 60S

CHC 100S

MODEL	MAX. HEAT OUTPUT REQUIRED		MAX. AIRFLOW FOR GUARANTEED DRYING C.F.M.	MAX. AIRFLOW FOR 20°C TEMPERATURE LIFT C.F.M.
	BTU/HR	kW		
CHC 20S	200,000	58.6	14,000	5,860
CHC 20D	400,000	117.2	28,000	11,700
CHC 30S	300,000	87.9	21,000	8,790
CHC 30D	600,000	175.8	42,000	17,580
CHC 35S	350,000	102.5	24,500	10,250
CHC 35D	700,000	205	49,000	20,500
CHC 45S	450,000	131.8	31,500	13,185
CHC 45D	900,000	263.6	63,000	26,370
CHC 60S	600,000	175.8	42,000	17,580
CHC 60D	1,200,000	351.7	84,000	35,160
CHC 75S	750,000	219.7	52500	22,000
CHC 75D	1,500,000	439.4	105,000	44,000
CHC 100S	1,000,000	293	70,000	29,300
CHC 100D	2,000,000	586	140,000	58,600
CHC 200S	2,000,000	586	140,000	58,600
CHC 200D	4,000,000	1172	280,000	117,200
CHC 400S	4,000,000	1172	280,000	117,200

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.

Gas Fittings

Tee pieces.
20inch pig tails.
High pressure changeover valves.

Our service includes

DELIVERY
INSTALLATION
COMMISSIONING
MAINTENANCE

DEALER

HARVEST INSTALLATIONS

UNIT H1, North Yard
The Brents
Faversham, Kent, ME13 7DZ
Tel: (01795) 533903 Fax:(01795) 538524

HARVEST INSTALLATIONS

Constant Humidity Control Systems

CHC

SILVER MEDAL 1966

GOLD MEDAL 1980

The most accurate, efficient, low-cost bulk crop drying system available in the U.K.

CHC - Automatic, Constant Humidity Control Systems

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. It's 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.

Twelve CHC models produce 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. And there's a back-up service to match.

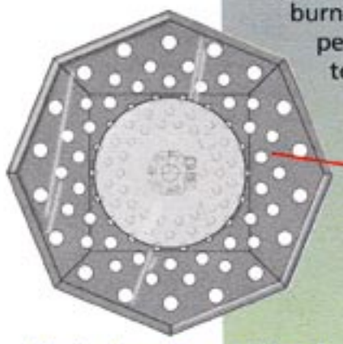
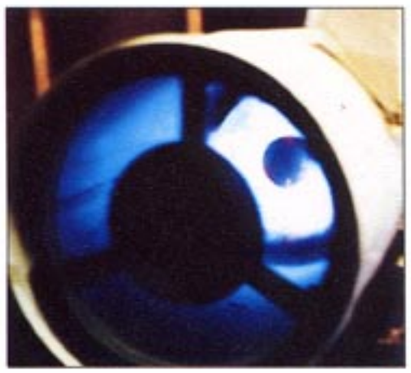


Plate-type Burner Head

Harvest's purpose-built burner head has been developed to give the 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 store types.

Fan Technology

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



Electronic Controls

The CHC control system is conveniently housed under a protective lid. It incorporates a large digital display showing humidity and temperature levels. A computerised programme of heat output 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.

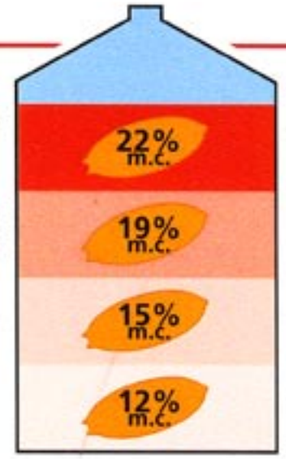
SAFETY

All Harvest equipment and components are manufactured to current BS and ISO regulations and each CHC unit carries the CE mark.
This guarantees that each CHC model has the highest specifications and top-quality components.

The Problem...

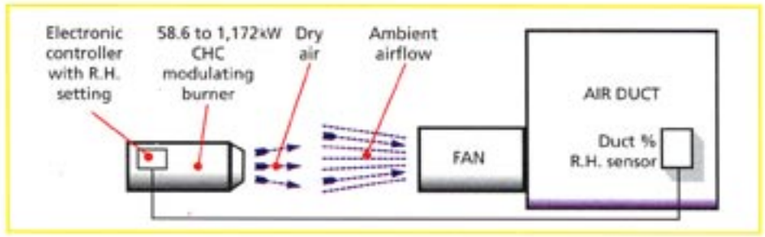
Uncontrolled amounts of dry or hot air in your bulk drying store can produce this damaging pattern.

Condensation and wetting of the top layers of crops is caused by either excessive overheating of ambient air or the constant blowing of air which is too dry. The hotter and dryer the air, the more moisture it can hold. So, if the air holds an excess of moisture - it cools and unloads some of the water as it meets colder material in the crop. This causes harmful wetting in the top layers of the crop.



...the proven solution

By blending ambient air with heated air the CHC system produces accurately controlled, constant humidity in the air duct, regardless of ambient %RH, temperature changes or back pressure. By simply dialling-in the %RH required, the CHC electronics will remove up to 0.5% moisture per 24 hours with an air flow of 100 cu.ft/min/tonne.



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

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

MAXI STIRRER

More and more farmers are using the Harvest Maxi-Stirrer system as a batch drier by employing it in conjunction with the CHC system for temperature or relative humidity control. Crop conditioning is accelerated because increased drying rates are possible with the Maxi-Stirrer.
The combined systems work very effectively for either on-floor or silo stores. Multiples of the model CHC100S (one million BTU) or CHC 200S (two million BTU) provide the temperature lift required on large capacity store fans as used for onions or in high capacity grain stores. Please see separate leaflet.

Awards

CHC