

# magna 3810 PTO, ELECTRIC or AUTOMATIC



Diesel Fired Dryers



## HIGH CAPACITY, FASTER LOADING, GREATER THROUGHPUT, FASTER DRYING... 16 ton per hour throughput\*

The 3810 incorporates fixed screens and a bolt on plenum extension which is built on farm. Whilst this effectively makes the dryer fixed it allows a significant increase in the size of the drying zone which means the drying capacity increases in proportion with its holding capacity unlike large winch up machines.

The fan, burner and auger capacities have all been increased in line with the holding capacity to achieve the highest throughput possible whilst still retaining all the other features common to the Magna range.

When set up in conjunction with a wet holding facility the automated versions are amongst the most efficient and highest throughput batch dryers on the market.



- Stainless steel perforated screens, 1.5mm on the outside and 2.5mm on the inner plenum providing maximum airflow without compromise (particularly important when drying rape).
- Duax heat core – clean, efficient drying
- low level burner – easy access for servicing and setting
- Bolt on plenum top – large drying zone
- 45cm, 160tph main auger – fast recirculation and unloading for quicker drying
- Fixed stainless steel screens – longevity.
- All susceptible components are supplied in stainless or galvanised finish.

### DRYER SPECIFICATIONS

Model	3810 PTO	3810 ELECTRIC / AUTO**
Drying capacity (21-16%)*	16 t/hr	16 t/hr
Holding capacity	38t - 49m <sup>3</sup>	38t - 49m <sup>3</sup>
Height - working position / Sky-Vac	7.8m (25'7") / 7.94m (26'1")	7.8m (25'7") / 7.94m (26'1")
Height - transport position	4.3m (14'1")	4.3m (14'1")
Width	4m (13'2")	4m (13'2")
Length - working position	10.5m (26'4")	10.16m (33'4")
Length - transport position	8m (13'2")	8m (13'2")
Weight - empty	7700 kgs	8200 kgs
Grain wall thickness	500mm (19¾")	500mm (19¾")
Vertical auger size	450mm (17¾")	450mm (17¾")
Loading auger size	300mm (11¾")	300mm (11¾")
Unloading auger size (Optional)	300mm (11¾")	300mm (11¾")
Burner size - Diesel / Kerosene	5,550,000 BTU/hr (1,400,000 Kcal)	5,550,000 BTU/hr (1,400,000 Kcal)
Fan type and size - quiet fan	Centrifugal ø 1120mm (44")	Centrifugal ø 1120mm (44")
Fan rating and outlet static pressure	100,000 m <sup>3</sup> /hr @ 10Mbar 58,860 CFM @ 4"	100,000 m <sup>3</sup> /hr @ 10Mbar 58,860 CFM @ 4"
PTO drive speed / power required	470rpm, 150hp (110kW)	-
Recirculating time	145 t/hr (15 min)	145 t/hr (15 min)
Loading rate	100 t/hr (24 min)	100 t/hr (24 min)
Unloading rate	130 t/hr (17 min)	130 t/hr (17 min)
Electric drive power used	-	70kW (130Amp) - 6 Motors
Fuel tank capacity	1000 litres	1000 litres

\* Throughput per hour assumed 5% moisture reduction from 21% to 16%. Includes loading, heating, cooling and unloading time.

\*\* Electric drive requires 3-phase, 160amp supply, earth and neutral on a dedicated circuit via a residual current device

OPICO's policy is one of continuous improvement and the right to change prices, specifications or equipment at any time without prior notice is reserved.

### KEY FEATURES



A highly efficient modulating diesel burner is easily accessible for servicing, simply remove the securing nut and slide the burner out for ease of maintenance.



In the servicing position the high and low flame jets are easily accessible. The air mixture can be altered when in working position.



Controls are protected with a weather and dust proof case with a glass viewing screen for easy monitoring.



All Magna dryers are fitted with a **DUAX Heat Core** burner.

This uses heat retaining bricks similar to those in a storage heater, to heat the air as well as the burner. Inside the burner chamber is a steel barrel which is lined with the heat bricks. As the heat bricks

build up temperature, the whole burner core heats air as it is drawn past into the fan.