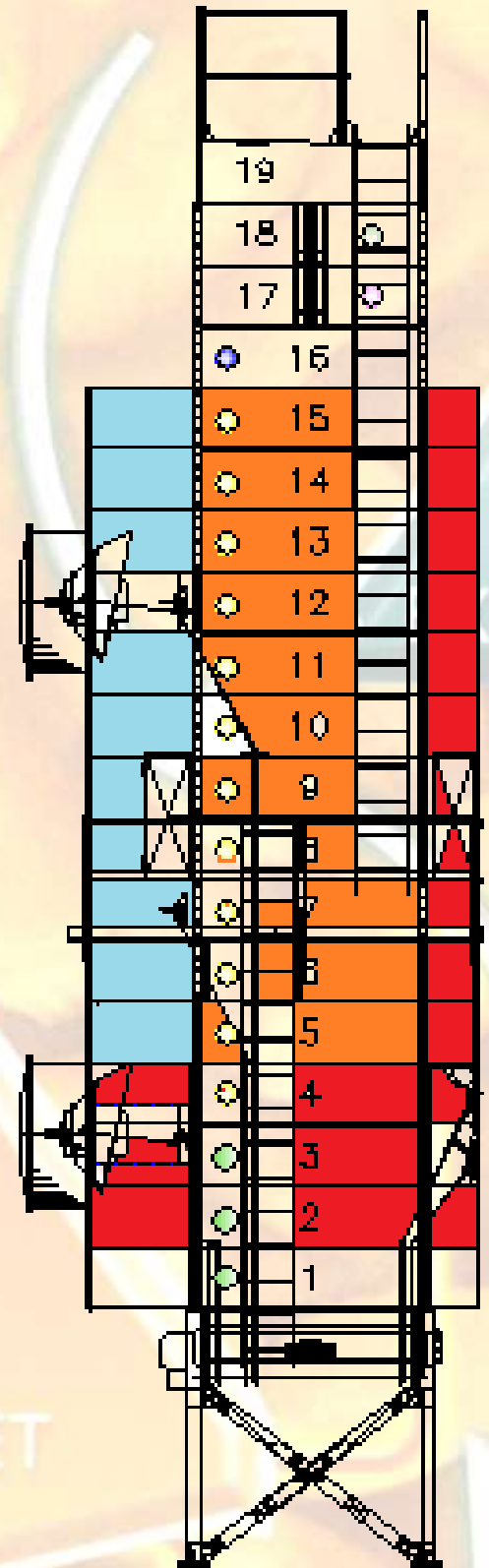


MODULER SQUARE PADDY GRAIN DRYER



Models: TWSQ-SERIES

TWSQ-07 TWSQ-09 TWSQ-11 TWSQ-13



INLET



www.tecodryer.com Tel
GSM +90 551 152 99361

Whatsapp & Viber +90 551 152 93 61

www.tecodryer.com tecodryers@gmail.com TEL:+90 322 233 8980

Model	Volume (m ³)	Height (mm)	Max gross power (kW)
TWSQ -03-1	7,8	3170	82
TWSQ -04-1	9,4	3705	82
TWSQ -05-1	11	4240	82
TWSQ -06-1	12,6	4775	179
TWSQ -07-1	14,2	5310	179
TWSQ -08-1	15,8	5845	179
TWSQ -08-2	17,8	6380	245
TWSQ -09-2	19,4	6915	245
TWSQ -10-2	21	7450	343
TWSQ -11-2	22,6	7985	343



www.tecodryer.com Tel
GSM +90 551 152 99361

Whatsapp & Viber +90 551 152 93 61

www.tecodryer.com tecodryers@gmail.com TEL:+90 322 233 8980



Heat sources



Gas

A gas burner can be integrated in the dryer, supplied with all safety equipment required, including an electrical cabinet and temperature sensors.



Biofuel

Burning wood chips or pellets is a carbon dioxide neutral source of heat. We offer electronic process monitoring and generously sized containers, as well as conversion kits for existing oil furnaces.



Oil

Oil furnaces for indirect heating are available in various sizes. Toxic fumes leave the furnace through the chimney – only the hot air is going through the product being dried.



www.tecodryer.com Tel
GSM +90 551 152 99361

Whatsapp & Viber +90 551 152 93 61

www.tecodryer.com tecodryers@gmail.com TEL:+90 322 233 8980

EXHAUS

Biomass Grain Dr

Use renewable biomass fuels to dry paddy, wheat, corn and soya bean etc. lowest drying cost, best grain quality after drying.

Features:

1. Using Automatic Feeding & Drying & Discharging System for increased efficiency for improved productivity and labour efficiency.

2. Using online computerized moisture meter, monitor the paddy moisture content in real-time, it can ensure good quality grain & prevent over-drying

3. Automatic controlling System, equip with grain temperature sensor to control drying temperature exactly. 4. Fast heating speed & High thermal efficiency.

5. Indirect hot air to ensure the grain dries evenly and cleanly.

6. Easy operation and maintenance, no needs for professional technicians.



INCLUDED

- Level indicator
- Wet air plenum
- Discharge section – roller or pulse
- Level sensor
- Buffer zone
- Variable cooling zone

supply different sizes of catwalks, ladders and platforms. All parts are made of galvanized steel and are designed for European requirements.

offers effective silencers as accessories to our axial fans. The entire construction is galvanized, which gives a very good corrosion protection. Heavy duty construction ensures a long life.



www.tecodryer.com Tel
GSM +90 551 152 99361

Whatsapp & Viber +90 551 152 93 61

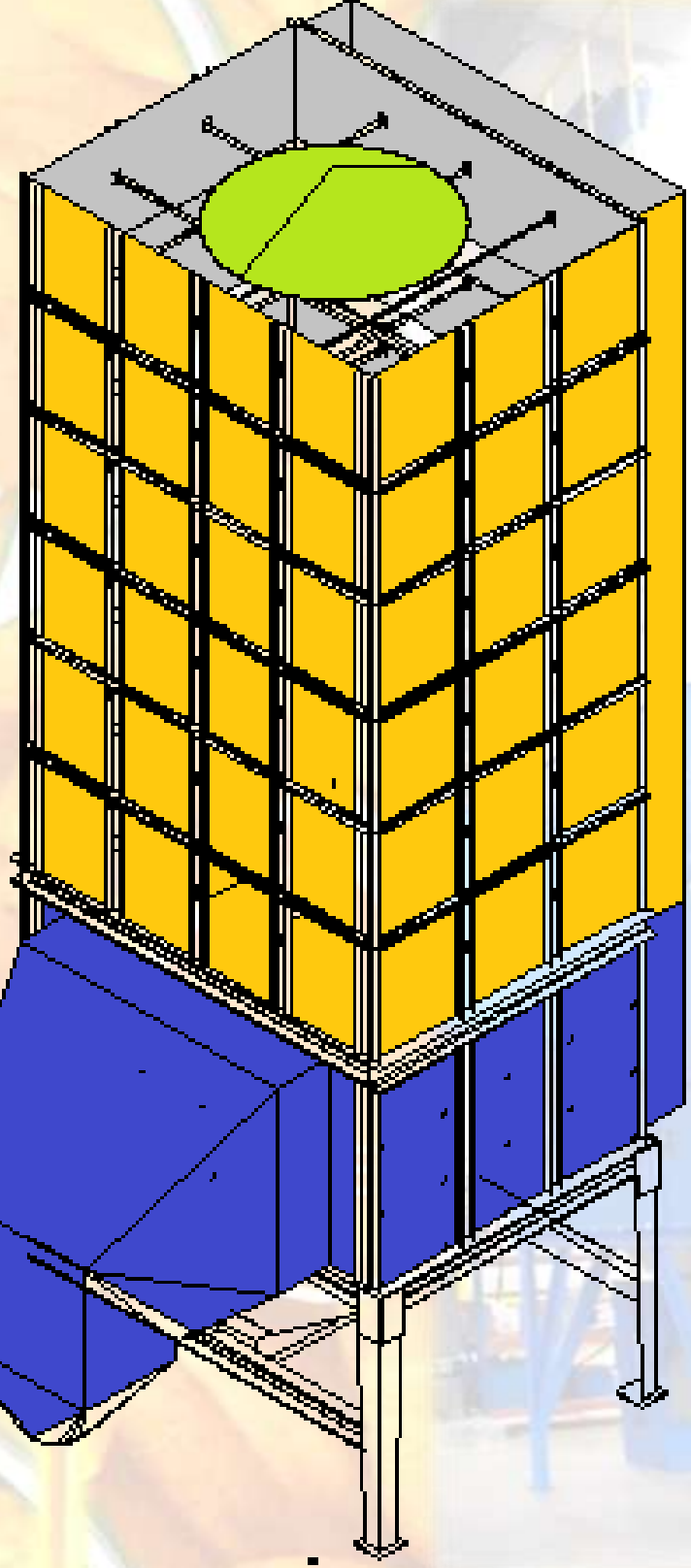
www.tecodryer.com tecodryers@gmail.com TEL:+90 322 233 8980

Heat

The accurate control of this heating process is what makes the equipment energy efficient. As the ambient conditions (temperature and relative humidity) change, as well as the desired plenum setpoint, the gas control system will respond to opening or closing to allow more or less fuel to flow to the burner.

Air

Ambient air is supplied to a fan that is horizontally mounted on the exterior of the dryer which pushes it through a burner to raise its temperature, then forces it across the column of grain. The function of the heated air is to facilitate a heat and mass transfer process. As the heated air passes over the grain, the heat from the air is transferred to the grain thereby elevating the temperature of the grain (heat transfer). Similarly, as the grain is heated, the moisture of the grain will start to exit to its surroundings as the equilibrium moisture of the grain is reached. This leads to the transfer of moisture from the grain to the air (mass transfer).



Time

The time element of grain drying refers to the time the grain is spent inside the dryer. The time that the grain is exposed to the heated air determines how much moisture is driven out of the grain. The longer the exposure, more moisture removal occurs. As such, the best method for controlling the amount of moisture removal in the grain is to increase or decrease the grain's retention time by increasing or decreasing the discharge metering speed. The slower the metering system operates, the longer the grain is exposed to the heated air and the moisture removal is increased. The faster the metering system operates, the shorter the grain is exposed to the heated air and the moisture removal is decreased. The easiest way to keep good grain quality and accurate control is to keep heat and air consistent while varying only grain retention time, which has proven to be the most common and efficient way to dry grain.



www.tecodryer.com Tel
GSM +90 551 152 99361

Whatsapp & Viber +90 551 152 93 61

www.tecodryer.com tecodryers@gmail.com TEL:+90 322 233 8980

ModelItem		PGD 10	PGD 12	PGD 15
LPG&NG BRUNER PRICE		14.185 USD/FOB	17.731 USD/FOB	22.163 USD/FOB
HUSK BRUNER PRICE		23.196 USD/FOB	28.995 USD/FOB	36.243 USD/FOB
Loading capacity (kg)	Paddy (kg) (1 Liter= 560g)	2300 ~ 10000	2300 ~ 12000	2300 ~ 15000
	Wheat (kg) (1 Liter= 680g)	2700 ~ 12100	2700 ~ 14500	2700 ~ 18200
Performance	Feed Time (Min)	Paddy 45 ~ 55	50 ~ 60	70 ~ 80
		Wheat 40 ~ 50	50 ~ 60	70 ~ 80
	Outlet Time (Min)	Paddy 40 ~ 50	45 ~ 55	65 ~ 75
		Wheat 35 ~ 45	45 ~ 55	65 ~ 75
Drying capacity (kg.)		7800	8000	9000
Internal volume (m ³)		18.53	23.96	27.18
Outside dimension L*W*H (mm)		2815*2000*7436	4828*2980*8750	4828*2980*9556
Packing dimension L*W*H (mm)		20" Demonte	40"Demonte	40"Demonte
Brut weight (kg)		2700	2800	3000
Power (Kw) (Excluding Burner)		15,00	22,00	24,00
Standard Devices		Grain temperature sensor, Fault sensor etc		
Safety Devices		Full load alarm device, Thermal relay, Temperature controller, Abnormal combustion sensor, Overload protection device, Earth leakage protection device.		
Axia	Rated air volume(m ³)	6677 ~ 13353		
fan	Air outlet diameter(mm)	600 mm	635 mm	750 mm
	RPM	1450/RPM/ 3PH/50HZ	1450/RPM/ 3PH/50HZ	1450/RPM/ 3PH/50HZ

Drying rate list is for reference only. Actual data will differ by ambient temperature, relative humidity, grain variety, hot air temperature, moisture rate before and after drying.



www.tecodryer.com Tel
GSM +90 551 152 99361

Whatsapp & Viber +90 551 152 93 61

www.tecodryer.com tecodryers@gmail.com TEL:+90 322 233 8980



Plenum Thermocouple

The Plenum Thermocouple is a temperature sensing device located in the plenum used to send a signal to the temperature controller to establish and maintain plenum temperature.



Proximity Switch

The Proximity Switch is used to detect the rotation of the discharge metering system by sensing the proximity of a detector on the discharge metering shaft. If the rotation of the shaft goes undetected for a set duration of time, the machine will be shutdown.



High Voltage Cabinet (Axial Fan Models)

The High Voltage Cabinet contains all of the motor starters and protectors, main power disconnect, programmable logic controller (PLC), breakers, relays, and other associated electrical hardware. The image shown below is for axial fan equipped models

Pinnacle Lite Remote Cabinet

The Pinnacle Lite Remote Cabinet is where all of the dryer controls are located including the Pinnacle Lite HMI touch screen, power switches and indicator lights, as well as fan, burner, fill and discharge controls.



Illuminated Push Button

The amber colored Illuminated Push Buttons are a combination push button and indicator light device which individually indicate the status of the air pressure and high limit switches associated with its respective fan and burner. These push buttons also serve an additional purpose which is to reset the associated plenum's temperature controller mounted in the burner control box. Pressing both of the push buttons simultaneously will reset the temperature controller by cycling the power.



Illuminated Selector Switch

Illuminated Selector Switches are a combination selector switch and indicator light device which is used to start/stop devices and also indicate that the associated devices are in operation when looking at the remote cabinet from a distance.



Burner Control Cabinet

The Burner Control Cabinet houses all of the components to safely operate the fan and burner which includes air pressure switches, high limit switches, ignition boards, and temperature controllers. The cabinet is mounted near the fan and burner for ease of access and/or troubleshooting purposes. This cabinet has a see through door so that the components, including the plenum temperature controllers, can be monitored without opening the door. Additionally, the plenum temperature setpoint can be adjusted locally on the temperature controller or remotely on the Pinnacle Lite HMI touchscreen.

Ignition Board

The Ignition Board controls the overall operation of the burner by supplying high voltage from the coil to the spark plug to ignite the burner, sending signals to open/close the gas valves, and continuously monitoring the presence of a flame for safe and reliable operation.



High Limit Switch

The High Limit Switch utilizes a capillary bulb to sense an over-temperature condition in the plenum which will cause the dryer to shutdown. The high limit setpoint is adjustable on the switch and should be set approximately 40 deg F higher than the plenum temperature setpoint.

Air Pressure Switch

The purpose of the Air Pressure Switch is to prove airflow from the fan for safe operation of the burner. The air pressure switch is adjustable and should be set once the dryer is full of grain. Adjustment of the switch is done in the burner control cabinet and indication of reaching the air pressure switch's setpoint is indicated on the green light on the outside of the burner control cabinet as well as the amber light on the remote cabinet.

Temperature Controller

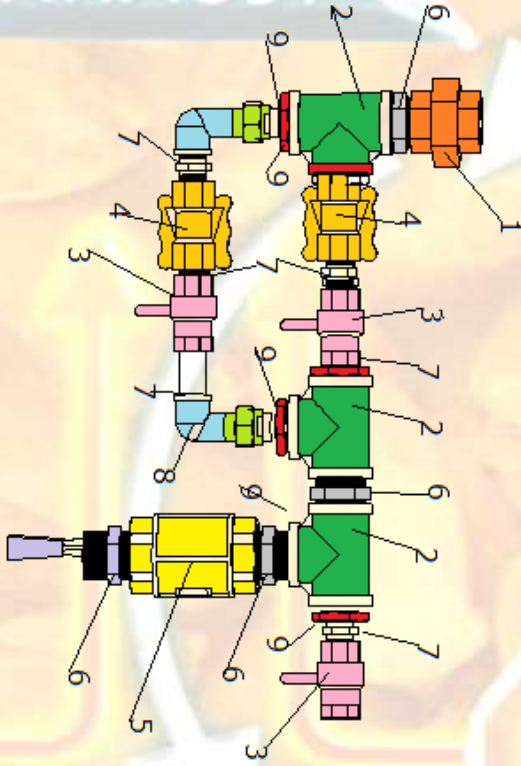
The Temperature Controller controls the plenum temperature by continuously adjusting the position of the gas control valve and in doing so displays both the setpoint and the actual temperature in the plenum which is measured by the plenum thermocouple. Additionally, the plenum temperature setpoint, actual plenum temperature, and the controller output % can be viewed on the Pinnacle Lite HMI touch screen.





Discharge Limit Switch

The Discharge Limit Switch is a spring loaded lever that maintains a normally open contact which is held closed. The purpose of this switch is to detect a discharge grain overload condition that may be a result of a failed discharge auger or takeaway equipment. Once an overload conditions exists, the top door on the discharge auger will lift up and the switch will return to its normally open position; in doing so, the safety circuit is opened and the dryer is shutdown.

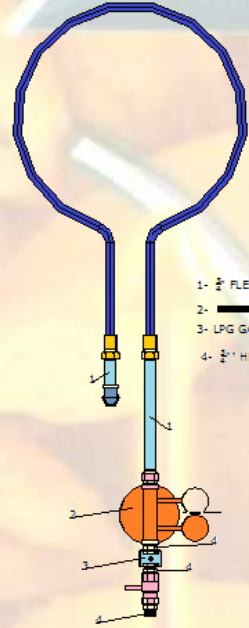


Gas Train

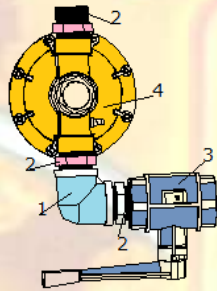
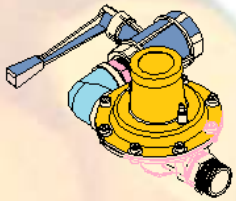
The purpose of the gas train is to safely and efficiently supply fuel at the correct pressures and flow rates to the burners. There are several variations of the gas train depending on what model and options are

equipped on the machine. If the dryer is equipped for LPG fuel, there will be liquid lines sending LPG to the vaporizer and back to the manifold. CE equipped machines will have gas pressure switches to meet local codes. CGA equipped machines will have valve proving shut-off valves as well as liquid and vapor venting to meet local codes.

Additionally, the centrifugal fan equipped Infinity Series dryers



- 1- 2" FLEX BORU MAKARONLU 60 CM
- 2- _____
- 3- LPG GAZ FLITRESİ 6 BARLIK
- 4- 1/2" HEXSONAL NİPPEL



- 1- 1 1/2" DIRSEK
- 2- 1 1/2" HEXSONAL NİPPEL
- 3- 1 1/2" KÜRESEL VANA
- 4- NG REGULATOR 1 BAR GİRİŞ 300 MB ÇIKIŞ 1 1/2" FİLİRELİ TORK
- 5- 1/2" 100 CM LİK BORU HASIR ORGULU

- 1- 1/2" HONK REBOR
- 2- 1/2" TEE
- 3- 2" KÜRESEL VANA
- 4- 2" ÇEVİNTON SÖLÜND
- 5- 1 1/2" KÜRESEL VANA
- 6- 1 1/2" HEXSONAL NİPPEL
- 7- 3/4" HEXSONAL NİPPEL
- 8- 3/4" DISLI DIRSEK
- 9- 1 1/2" DEN 3/4" REDUKSIYON
- 10- 3/4" FLEX MAKRONLU BORU 30 CM



Control Valve

The Control Valve is a throttling butterfly valve that controls the fuel flow rate to the burner which is precisely positioned by the control valve actuator. The control valve is connected to the control valve actuator through a mechanical linkage.



Solenoid Valve

The Solenoid Valve is to start and stop the flow of fuel to the burner. The opening/closing actuation of the solenoid valve is monitored and performed by the ignition board.

Pressure Regulator

The Primary purpose of a Pressure Regulator is to continuously control the supply pressure of the fuel to the gas train manifold. There are various sizes and configuration based on model and configured options, however the primary purpose is the same.



Manual Hand Valve

The purpose of a Manual Hand Valve is to manually open and close various portion of the gas train for maintenance purposes.

Burner

The purpose of the burner is to provide heat to the drying air. This heat comes from the combustion of the supplied fuel and takes place in either the Venturi Burner found on the centrifugal fan equipped Infinity Series dryers

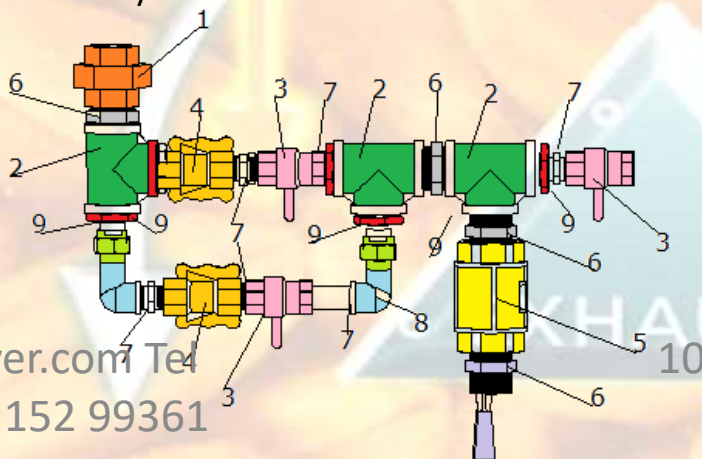


Spark Igniter

The Spark Igniter receives high voltage current from the ignition board and sparks to provide direct spark ignition for the burner.

Flame Sense Probe

The Flame Sense Probe detects the presence of the flame and provides positive confirmation to the ignition board so that operation of the burner may continue.





GRAIN SYSTEMS MANUFACTURER

TURKEY

Warranty Statement

TECODRYER COMPANY

LIMITED WARRANTY FOR WHOLE GOODS

Except as otherwise set forth herein, Tecodryer Company (Seller) warrants that the equipment supplied by Seller to Buyer shall be free from defects in materials and workmanship when properly installed and operated under normal conditions and in accordance with all applicable instruction manuals. This limited warranty shall expire two (2) years from the date of shipment from Seller's Turkey/Adana, Turkey Adana. facility. In addition, for a period of five (5) years from the date of shipment from Seller's Misis Organize, Adana, TURKEY . facility, Seller will re-balance TECO gamak rotors for Buyer at Seller's TECO-TURKEY Turkey facility, provided that the rotors did not become unbalanced through abnormal use by Buyer or were not damaged by Buyer in any way. To obtain consideration under this limited warranty, Buyer must first notify Seller in Turkey/Adana, stating in what respects the equipment is believed by Buyer to be defective and providing a list of the parts at issue. Additionally, Buyer must complete a warranty request form stating the machine serial number. Upon receipt by Seller of such notice from Buyer, Buyer may receive authorization from Seller to return the parts. If parts are to be scrapped locally, Buyer will be so advised. If Seller provides Buyer with authorization to return the parts, Buyer shall return such parts to Seller's facility in Turkey/Adana, transportation prepaid, for examination by Seller. No parts shall be returned to Seller unless Buyer first obtains a return authorization number from Seller. If, in Seller's sole judgment, the parts returned by Buyer are defective and covered under this limited warranty, Seller shall have the option of repairing, rebuilding or replacing such parts. This limited warranty shall not apply to parts which, in Seller's sole judgment, have been the subject of negligence, abuse, accident, misapplication, tampering, alteration, improper adjustment, or electrical problems caused by low voltage conditions; nor shall it apply to consumables, such as belts; nor shall it apply to parts damaged by acts of God, war or civil insurrection, acts of terrorism, improper installation, operation, maintenance or storage, or other than normal application, use or service, including, without limitation, operational failures caused by corrosion, erosion, wear and tear, rust or other foreign materials in the system in which they are utilized. Failure to give notice within the warranty period shall be a waiver of this limited warranty and no assistance or other action thereafter taken by Seller shall be deemed to extend or revive the warranty period. This limited warranty covers only whole goods and shall not apply to replacement parts or upgrade kits. A separate warranty statement published by Seller covers the warranty on parts and upgrade kits. This limited warranty shall not apply to any products, parts, accessories or other equipment not manufactured by Seller, provided that Seller, upon request by Buyer, shall advise Buyer of any warranties known to Seller that may be offered by the manufacturer of such equipment. This limited warranty shall not cover, and Seller shall not under any circumstances be liable for, damages for injuries to persons or property; loss of crops or other products; losses caused by harvest delays; loss of profits; loss of use; cost of rental equipment; expenses of labor, travel or other items relating to the removal or replacement of defective parts; damages resulting from the removal of defective parts or the installation of repaired, rebuilt or replaced parts; expenses relating to the transportation of parts to and from Seller's facility; any consequential, incidental, contingent or special damages, whether arising in contract, in tort or under statute; or any other damages or expenses not agreed upon in writing by Seller, even if Seller has been advised of the potential for any such damages or expenses. THIS LIMITED WARRANTY IS IN LIEU OF ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE. No person is authorized to give any other warranty or to assume any other liability on Seller's behalf.

WARRANTY SERIAL NUMBER CARD MUST BE RETURNED IMMEDIATELY UPON PURCHASE OF MACHINE

Register warranty online Whatsapp & viber +90 551 152 99361

TECO COMPANY
INCIEVLER SITESI T.OZAL BULV.KAT:6 NO:22
TURKEY/ADANA/CUKUROVA

Phone: +90 322 233 8980
Fax: +90 322 233 89 83
web: www.tecodryer.com & info@tecodryer.com

DEPENDABLE MANUFACTURER

TECO
Whatsapp & Viber +90 551 152 99361

www.tecodryer.com Tel



www.tecodryer.com tecodryers@gmail.com TEL:+90 322 233 8980

GSM +90 551 152 99361