

# SUNCUE CIRCULATING MAIZE DRYER

## MD-165



- The low-temp., even and speedy drying minimizes broken grains and produces beautiful kernels.
- The entire dryer is designed to be strong and sturdy, making it suitable for heavy-duty.
- With foolproof design, users can dry high-quality grain from the 1<sup>st</sup>, 100<sup>th</sup> to 1000<sup>th</sup> batch. Grain consistent in quality will be available to customers.
- Automatic moisture control prevents over-drying and weight loss.
- By using self-milled free rice husk, users no longer need to spend on diesel, natural gas or electricity as dryers' heat sources.



Maize



Paddy

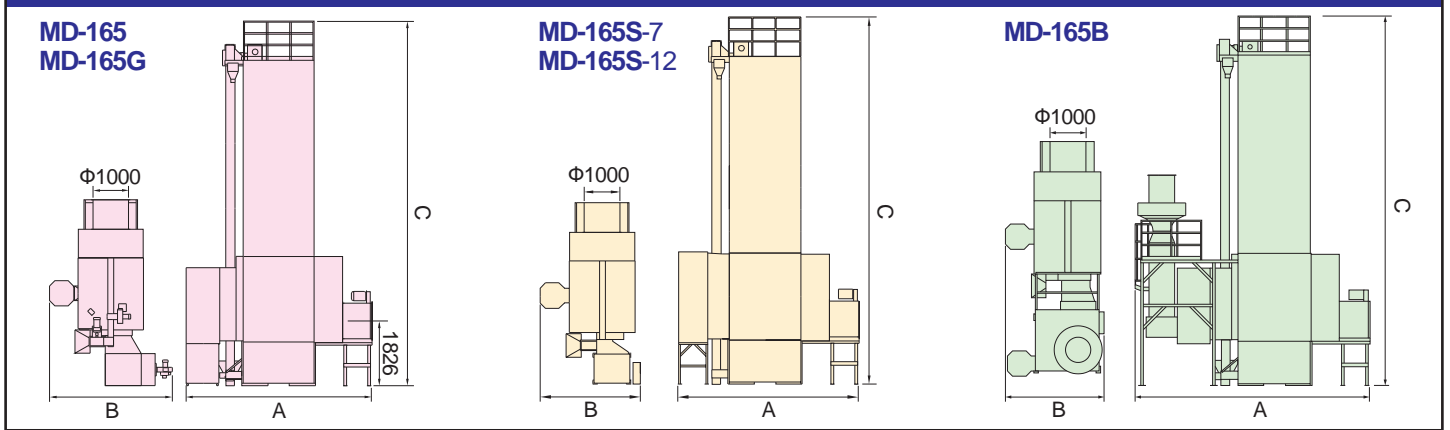


Wheat

Heat Source	Model	MD-165
Diesel		●
Gas		●
Steam		●
Biomass		●
Diesel & Husk Dual		●
Gas & Husk Dual		●

# DIMENSIONS

Unit mm



# SPECIFICATIONS

Item	Model	MD-165		MD-165G			
		Kerosene or Premium Diesel*		Low-temp		High-temp	
Heat Source				LPG	NG	LPG	NG
Combustion Approx. liter/hr	Maize 1 liter=690g	27~54 230,000~460,000 Kcal/hr		Max. 16.6kg/hr ≈233kW	Max. 18.2m³/hr ≈233kW	Max. 41.6kg/hr ≈581kW	Max. 45.5m³/hr ≈581kW
	Paddy 1 liter=560g	11.3~27 96,000~230,000 Kcal/hr					
	Wheat 1 liter=680g	11.3~27 96,000~230,000 Kcal/hr					
Capacity Approx. kg	Maize 1 liter=690g	7,000~16,500		—		7,000~16,500	
	Paddy 1 liter=560g	5,700~13,200		5,700~13,200		—	
	Wheat 1 liter=680g	6,900~16,200		6,900~16,200		—	
Function	Loading Approx. min	Maize	75	—		75	
		Paddy, Wheat	66	66		—	
	Discharging Approx. min	Maize	70	—		70	
		Paddy, Wheat	65	65		—	
Drying Rate %/hr	Maize	1.8~2.6		—		1.8~2.6	
	Paddy, Wheat	0.7~1.2 Seed 0.2~1.0		0.7~1.2		—	
Dimension	L(A)×W(B)×H(C)mm	5,341×3,626×10,272			5,341×3,930×10,272		
Net Weight	Approx. kg	3,170			3,170		
Power Consumption	kW	Maize 11.75	Paddy 11.25	11.75			
Type		Gun type					
Electricity		3P, 220V/380V/415V/440V, 50/60Hz					
Safety Devices		Thermo-over relay, Air pressure switch, Full load buzzer, Timer, Control fuse, Burner flame sensor, Over-heat sensor					

Item	Model	MD-165S-7	MD-165S-12	MD-165B	
		Steam		SUNCUE Biomass Furnace BB-18, Rice Husk Furnace SB	
Capacity Approx. kg	Maize 1 liter=690g	7,000~16,500		7,000~16,500	
	Paddy 1 liter=560g	5,700~13,200		5,700~13,200	
	Wheat 1 liter=680g	6,900~16,200		6,900~16,200	
Dimension	L(A)×W(B)×H(C)mm	4,710×2,810×10,272	5,060×2,810×10,272	6,491×2,759×10,272	
Net Weight	Approx. kg	3,900	4,490	3,520	
Applicable Region		Regular	Regular, Cold, Frigid	Required Thermal Energy Per unit approx.	Maize 340,000 Kcal/hr Ambient Temp. +60°C
Applicable Grains		Paddy, Wheat	Paddy, Wheat, Maize		
Temp. Increase Range Approx. ambient temp.		Maize +14~49°C Paddy +16~55°C	Maize +25~72°C Paddy +27~80°C		
Boiler Capacity	Approx. ton/hr	1.0	1.2		
Boiler Pressure	Approx. kg/cm²	7		Paddy 66	Paddy 65 Paddy 65 Paddy 0.7~1.2
Function	Loading	Maize 75			
	Discharging	Maize 70			
	Drying Rate	Maize 1.8~2.6			
Power Consumption	kW	11		14.75	
Electricity		3P, 220V/380V/415V/440V, 50/60Hz			
Safety Devices		Thermo-over relay, Air pressure switch, Full load buzzer, Timer, Control fuse			

- Above numbers and drying rate are derived from reducing moisture in paddy from 26% to 15%, wheat/corn from 30% to 12.5% — for reference only. Actual results vary among different ambient temperature, relative humidity, grain varieties, hot air temperature, moisture content before and after drying. \* Please apply low hot air temperature for drying paddy to prevent high breakage rate. • Gas pipe lines have to be built by certified local professionals. NEVER do it by yourself.
- The specification and graph are for reference only. Actual specification of SUNCUE product shall be based on the Sales Confirmation which customers sign and delivered products.
- The specifications of burner shown above are Japanese standard (Thermal energy: NG 11,000 Kcal/m³; LPG 12,000 Kcal/kg). Please consult with SUNCUE for burner with CE standard.
- The density, composition and pressure of natural gas vary at different locations, thus thermal energy per m³ also varies. Ex: 8,900kcal/m³ in Taiwan, 11,000kcal/m³ in Japan, 8,400kcal/m³ in Sichuan province of China.
- Only use kerosene or premium diesel or diesel conformed to national standards. Please choose good quality diesel that can completely vaporize according to ambient temperature. • Diesel/Rice Husk & Gas/Rice Husk Dual-type are made to order.
- Boiler is a dangerous device. It should be installed in a boiler house and operated by professionally-trained personnel with official license by laws. The operation must obey local government regulations.
- The required thermal energy is for reference only. Actual data will differ among grain variety, impurity rate, and drying condition. \*Use high-quality kerosene or premium diesel only.



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