

# SUNCUE CIRCULATING MAIZE DRYER

## MD-165-150 · 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

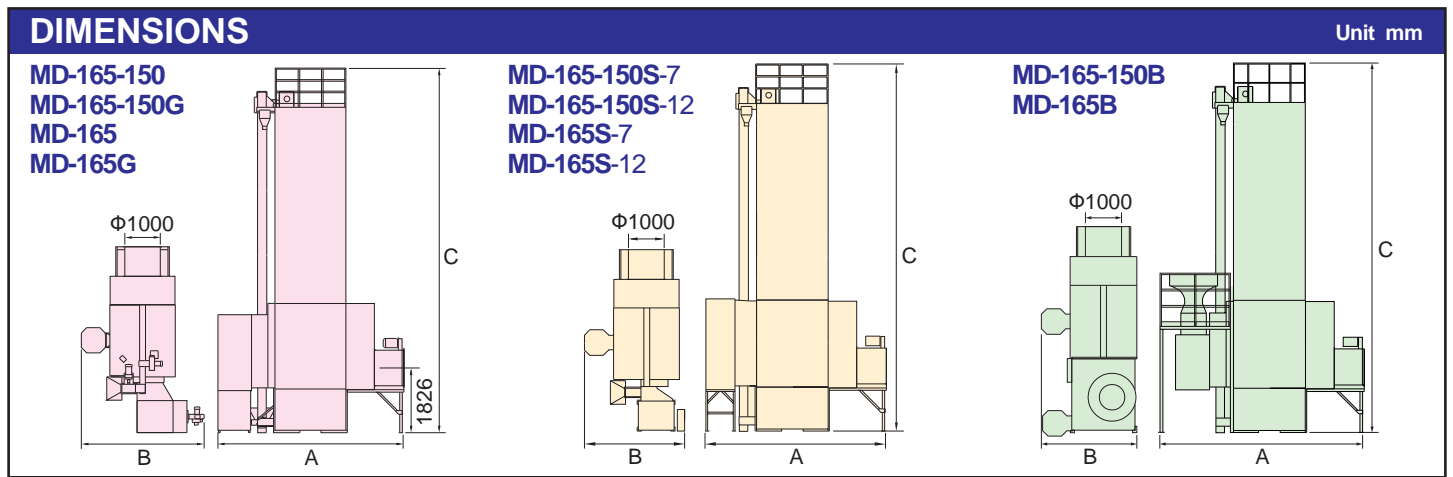


Paddy



Wheat

Heat Source	Model	MD-165-150	MD-165
Diesel		●	●
Gas		●	●
Steam		●	●
Biomass		●	●



## SPECIFICATIONS

Item	Model	MD-165-150	MD-165	MD-165-150G				MD-165G					
				Low-temp		High-temp		Low-temp		High-temp			
Heat Source		Kerosene or Premium Diesel*				LPG	NG	LPG	NG	LPG	NG	LPG	NG
Combustion Approx. liter/hr	Maize 1 liter=690g	27~54 230,000~460,000 Kcal/hr				Max. 16.6 kg/hr	Max. 18.2 m <sup>3</sup> /hr	Max. 41.6 kg/hr	Max. 45.5 m <sup>3</sup> /hr	Max. 16.6 kg/hr	Max. 18.2 m <sup>3</sup> /hr	Max. 41.6 kg/hr	Max. 45.5 m <sup>3</sup> /hr
	Paddy 1 liter=560g	11.3~27 96,000~230,000 Kcal/hr				≈233kW	≈233kW	≈581kW	≈581kW	≈233kW	≈233kW	≈581kW	≈581kW
	Wheat 1 liter=680g	11.3~27 96,000~230,000 Kcal/hr											
Capacity Approx. kg	Maize 1 liter=690g	7,000~15,000	7,000~16,500	—		7,000~15,000		—		7,000~16,500		—	
	Paddy 1 liter=560g	5,700~12,000	5,700~13,200	5,700~12,000		—		5,700~13,200		—		—	
	Wheat 1 liter=680g	6,900~14,700	6,900~16,200	6,900~14,700		—		6,900~16,200		—		—	
Function	Loading	Maize 69	75	—		69		—		75		—	
	Discharging	Maize 63	70	—		63		—		70		—	
	Drying Rate	Maize 2.5~3.5	1.8~2.6	—		2.5~3.5		—		1.8~2.6		—	
		Paddy, Wheat 0.7~1.2	Seed 0.2~1.0	0.7~1.2		—		0.7~1.2		—		—	
Dimension	L(A)xW(B)xH(C)mm	5,341x3,626x9,661	5,341x3,626x10,272	5,341x3,930x9,661				5,341x3,930x10,272					
Net Weight	Approx. kg	3,075	3,170	3,075				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-165-150S-7	MD-165-150S-12	MD-165S-7	MD-165S-12	MD-165-150B		MD-165B		
						Steam				SUNCUE Biomass Furnace BB-18, Rice Husk Furnace SB
Capacity Approx. kg	Maize 1 liter=690g	7,000~15,000	7,000~16,500	7,000~15,000		7,000~15,000		7,000~16,500		
	Paddy 1 liter=560g	5,700~12,000	5,700~13,200	5,700~12,000		5,700~12,000		5,700~13,200		
	Wheat 1 liter=680g	6,900~14,700	6,900~16,200	6,900~14,700		6,900~14,700		6,900~16,200		
Dimension	L(A)xW(B)xH(C)mm	4,710x2,810x9,661	5,060x2,810x9,661	4,710x2,810x10,272	5,060x2,810x10,272	5,832x2,783x9,661		5,832x2,783x10,272		
Net Weight	Approx. kg	3,805	4,395	3,900	4,490	3,303		3,398		
Applicable Region		Regular	Regular, Cold, Frigid	Regular	Regular, Cold, Frigid	Required Thermal Energy				
Applicable Grains		Paddy, Wheat	Paddy, Wheat, Maize	Paddy, Wheat	Paddy, Wheat, Maize	Per unit approx.	Maize	340,000 Kcal/hr Ambient Temp. +60°C		
Temp. Increase Range Approx. ambient temp.		Maize +14~49°C Paddy +16~55°C	Maize +25~72°C Paddy +27~80°C	Maize +14~49°C Paddy +16~55°C	Maize +25~72°C Paddy +27~80°C		Paddy	53,000~210,000 Kcal/hr Ambient Temp. +40°C		
Boiler Capacity	Approx. ton/hr	1.0	1.2	1.0	1.2					
Boiler Pressure	Approx. kg/cm <sup>2</sup>	7			7					
Function	Loading	Maize 69		Maize 75		Paddy 60		Paddy 66		
	Discharging	Maize 63		Maize 70		Paddy 58		Paddy 65		
	Drying Rate	Maize 2.5~3.5		Maize 1.8~2.6		Paddy 0.7~1.2				
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.   
 • 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/m<sup>3</sup>; 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 m<sup>3</sup> also varies. Ex: 8,900kcal/m<sup>3</sup> in Taiwan, 11,000kcal/m<sup>3</sup> in Japan, 8,400kcal/m<sup>3</sup> 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.   
 • 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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