

SUNCUE CIRCULATING MAIZE DRYER

MD-165-150 · MD-165



The low-temp., even and speedy drying minimizes broken grains and produces beautiful kernels.

Parts being worn by grains are made of **Stainless Steel**, making a long-term professional use dryer.

The dryer is equipped with foolproof design. The grain quality will be consistently high from the 1st, 100th and 1000th batch.

Automatic moisture control prevents over-drying.

Rice husk as a biomass fuel option minimizes drying cost.



Maize

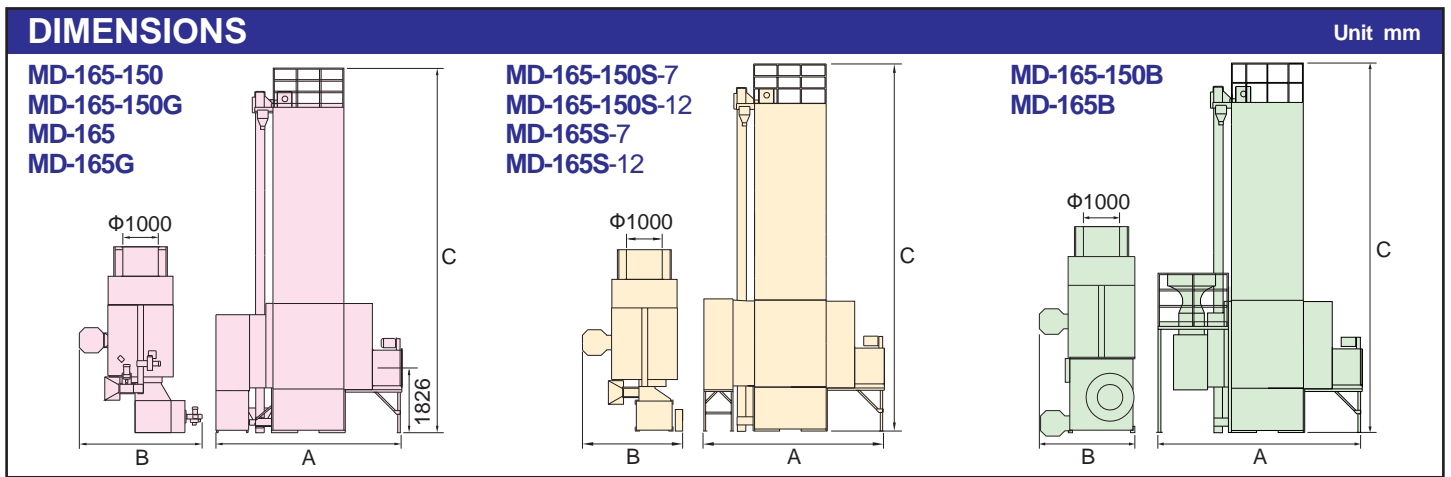


Paddy



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
Max. Thermal Energy Approx. liter/hr	Maize 1 liter=690g	54 460,000 Kcal/hr				16.6 kg/hr	18.2 m³/hr	41.6 kg/hr	45.5 m³/hr	16.6 kg/hr	18.2 m³/hr	41.6 kg/hr	45.5 m³/hr
	Paddy 1 liter=560g	27 230,000 Kcal/hr				≈233kW	≈233kW	≈581kW	≈581kW	≈233kW	≈233kW	≈581kW	≈581kW
	Wheat 1 liter=680g	27 230,000 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 Approx. min	Maize 69 Paddy, Wheat 60		75 66		— 60		69 —		— 66		75 —	
	Discharging Approx. min	Maize 63 Paddy, Wheat 58		70 65		— 58		63 —		— 65		70 —	
	Drying Rate %/hr	Maize 2.5~3.5		1.8~2.6		—		2.5~3.5		—		1.8~2.6	
		0.7~1.2		Seed 0.2~1.0		0.7~1.2		—		0.7~1.2		—	
Dimension L(A)×W(B)×H(C)mm	5,341×3,626×9,661		5,341×3,626×10,272		5,341×3,930×9,661				5,341×3,930×10,272				
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		7,000~16,500	
	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	
Dimension L(A)×W(B)×H(C)mm	4,710×2,810×9,661		5,060×2,810×9,661		4,710×2,810×10,272		5,060×2,810×10,272		5,832×2,783×9,661		5,832×2,783×10,272		
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 per unit Approx. Maize 340,000 Kcal/hr Ambient Temp. +60°C Paddy/Wheat 53,000~210,000 Kcal/hr Ambient Temp. +40°C				
Applicable grains	Paddy, Wheat		Paddy, Wheat, Maize		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		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		1.0		1.2						
Boiler pressure Approx. kg/cm²	7				7								
Function	Loading Approx. mins	Maize 69				Maize 75				Paddy 60		Paddy 66	
	Discharging Approx. mins	Maize 63				Maize 70				Paddy 58		Paddy 65	
	Drying Rate %/hr	Maize 2.5~3.5				Maize 1.8~2.6				Paddy 0.7~1.2			
Power Consumption kW	11				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 required thermal energy is for reference only. Actual data will differ among grain variety, impurity rate, and drying condition. • Gas pipe lines have to be built by certified local professionals. NEVER do it by yourself.

• The specification and graph is 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.

• 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.

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