

SUNCUE CIRCULATING GRAIN DRYER

PHS-130 · PHS-320 · PHS-660B · PHS-1380B

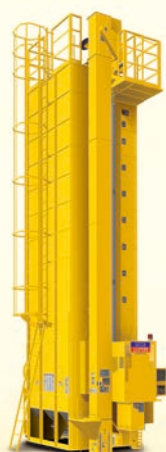
The low-temp., even and speedy drying minimizes broken rice, raises milling rate and produces beautiful rice.

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

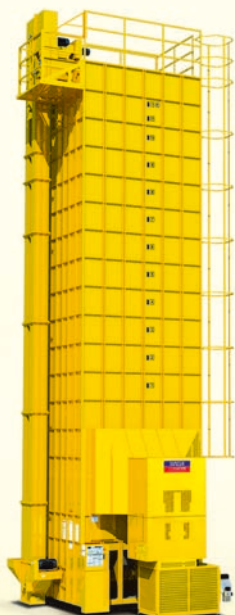
The dryer is equipped with foolproof design. The rice quality will be consistently high from the 1st, 100th and 1000th batch.

Automatic moisture control prevents over-drying.

Rice husk as a biomass fuel option minimizes drying cost.



PHS-130



PHS-320

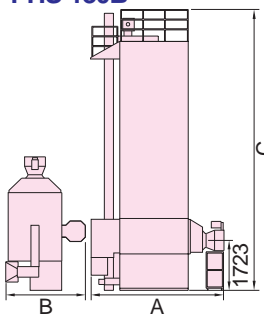
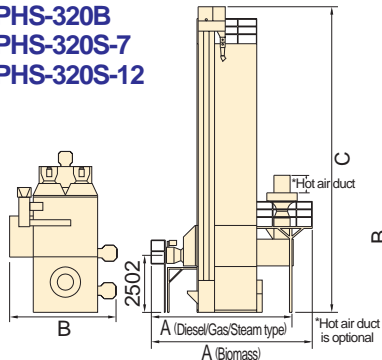
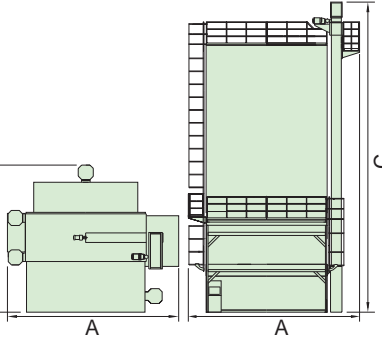
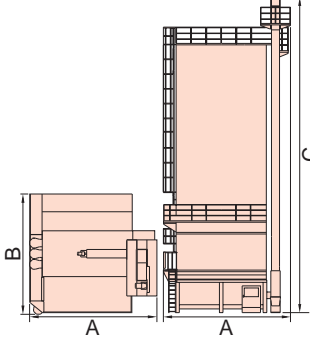


PHS-660B



PHS-1380B

Heat source \ Model	PHS-130	PHS-320	PHS-660	PHS-1380
Diesel	●	●	—	—
Gas	●	●	—	—
Biomass	●	●	●	●
Diesel & Husk Dual	●	●	—	—
Steam	—	●	—	—

DIMENSIONS				Unit mm
PHS-130 PHS-130G PHS-130B	PHS-320 PHS-320G PHS-320B PHS-320S-7 PHS-320S-12	PHS-660B	PHS-1380B	
				

SPECIFICATIONS									
Item		Model	PHS-130	PHS-320	PHS-130G	PHS-320G			
Heat Source			Kerosene or Premium Diesel		LPG	NG	LPG	NG	
Max. Combustion			Approx. liter/hr	17.5	35	16.6 kg/hr ≒233kW	18.2 m³/hr ≒233kW	41.6 kg/hr ≒450kW	45.5 m³/hr ≒450kW
Type			Gun type	Gun type	Gun type		Gun type		
Capacity Approx. kg	Paddy	1 liter=560g	3,600~13,000	7,800~32,000	3,600~13,000		7,800~32,000		
	Wheat	1 liter=680g	4,370~15,780	9,600~38,800	4,370~15,780		9,600~38,800		
	Corn, Animal Feed	1 liter=690g	4,440~16,000	9,600~39,400	4,440~16,000		9,600~39,400		
Dimension			L(A)×W(B)×H(C)mm	4,308×2,755×9,698	5,871×4,871×13,410	4,308×2,755×9,698		5,871×4,871×13,410	
Net Weight			Approx. kg	2,840	6,360	2,840		6,360	
Power Consumption			kW	6.53	13.45	6.68		13.8	
Function Paddy	Loading	Approx. mins	40	55	40		55		
	Discharging	Approx. mins	35	50	35		50		
	Drying Rate	%/hr	0.5~1.5						
Electricity			3P, 220V/380V/415V/440V, 50/60Hz						
Safety Devices			Thermo-over relay, Air pressure switch, Full load buzzer, Timer, Control fuse, Rotary valve sensor, Burner flame sensor, Over-heat sensor						

Item		Model	PHS-130B	PHS-320B	PHS-660B	PHS-1380B	PHS-320S-7	PHS-320S-12
Heat Source			SUNCUE Biomass Furnace BB-18, Rice Husk Furnace SB		SUNCUE Rice Husk Furnace SB-130 / SB-200		Steam	
Capacity Approx. kg	Paddy 1 liter=560g		3,600~13,000	7,800~32,000	16,000~66,000	30,000~138,000	7,800~32,000	
	Wheat 1 liter=680g		4,370~15,780	9,600~38,800	19,500~80,100	37,000~138,000	9,600~38,800	
	Corn, Animal Feed 1 liter=690g		4,440~16,000	9,600~39,400	19,700~81,300	37,540~138,000	9,600~39,400	
Dimension		L(A)×W(B)×H(C)mm	4,532×2,755×9,698	6,671×4,871×13,410	8,124×6,969×14,703	8,610×8,134×21,345	5,497×4,871×13,410	5,846×4,871×13,410
Net Weight		Approx. kg	2,950	6,600	15,400	25,000	6,465	6,530
Required Thermal Energy per unit	Paddy, Wheat Approx. Kcal/hr		35,000~135,000 Ambient Temp. +10~40°C	83,000~330,000 Ambient Temp. +10~40°C	166,000~660,000 Ambient Temp. +10~40°C	360,000~1,230,000 Ambient Temp. +10~40°C	Applicable region Regular	Cold
							Applicable grains Paddy, Wheat	Paddy, Wheat, Maize
	Corn, Animal Feed Approx. Kcal/hr		220,000 Ambient Temp. +65°C	560,000 Ambient Temp. +65°C	1,120,000 Ambient Temp. +65°C	2,000,000 Ambient Temp. +52°C	Temperature increase range Ambient Temp. +15~45°C	+15~70°C
							Boiler capacity Approx. ton/hr 1.2	2.4
			Boiler pressure Approx. kg/cm² 7					
Power Consumption		kW	7.98	17	40.1	79.6	13.1	
Function Paddy	Loading	Approx. mins	40	55	57	70	55	
	Discharging	Approx. mins	35	50	52	70 Bucket elevator capacity: 120 tons/hr	50	
	Drying Rate	%/hr	0.5~1.5				0.6~1.0	0.5~1.5
Electricity			3P, 220V/380V/415V/440V, 50/60Hz					
Safety Devices			Thermo-over relay, Air pressure switch, Full load buzzer, Timer, Control fuse, Rotary valve sensor					

- 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 required thermal energy is for reference only. Actual data will differ among grain variety, impurity rate, and drying condition.
- 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: 8,900 Kcal/m³ in Taiwan, 11,000 Kcal/m³ in Japan, 8,400 Kcal/m³ in Sichuan province of China.
- 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.
- Diesel/Rice Husk Dual-type is made to order.



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