

# 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.
- The entire dryer is designed to be strong and sturdy, making it suitable for heavy-duty.
- With foolproof design, users can produce high-quality rice from the 1<sup>st</sup>, 100<sup>th</sup> to 1000<sup>th</sup> batch. Small-package rice 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.

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



PHS-130



PHS-320



PHS-660B

### HONOR & RECOGNITION OF SUNCUE

Gold medal at the iENA 2012 in Nuremberg, Germany



World Genius Convention 2013 in Tokyo, Japan  
Special Genius Award



Genius Gold Medal



Invention and Creation Awards of Taiwan-  
Contribution Award



Invention Award of Taiwan



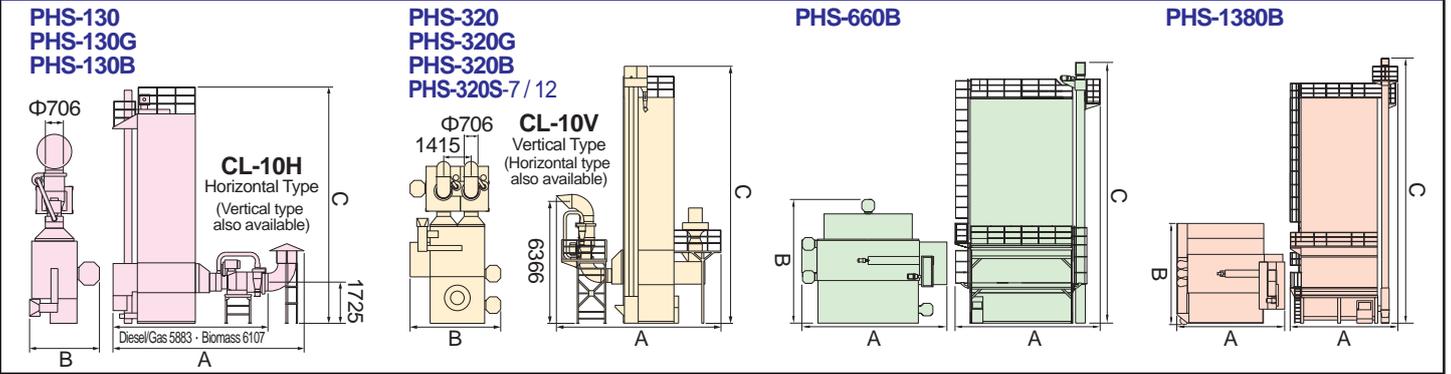
TAIWAN EXCELLENCE 2021



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# DIMENSIONS

Unit mm



# SPECIFICATIONS

Item	Model	PHS-130	PHS-320	PHS-130G	PHS-320G
Heat Source		Kerosene or Premium Diesel*		LPG	NG
Combustion	Approx. liter/hr	8.8~17.5	17.5~35	Max. 16.6 kg/hr ≈233kW	Max. 18.2 m³/hr ≈233kW
Type		Gun type		Gun type	
Capacity	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	Without CL-10	4,308x2,755x9,698	5,871x4,871x13,410	4,308x2,755x9,698	5,871x4,871x13,410
	With CL-10	7,393x2,755x9,698	8,201x4,871x13,410	7,393x2,755x9,698	8,201x4,871x13,410
	Horizontal Type	Please contact the sales department		Please contact the sales department	
Net Weight	Without CL-10	2,840	6,360	2,840	6,360
	With CL-10	3,344	7,402	3,344	7,402
	Horizontal Type	Please contact the sales department		Please contact the sales department	
Power Consumption	Without CL-10	6.53	13.5	6.68	13.8
	With CL-10	10.33	21.05	10.48	21.4
Function	Loading	40	55	40	55
	Discharging	35	50	35	50
	Drying Rate	0.5~1.5 %/hr			
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	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	Without CL-10	4,532x2,755x9,698	6,671x4,871x13,410	8,124x6,969x14,703	8,610x8,134x21,345	5,497x4,871x13,410	5,846x4,871x13,410
	With CL-10	7,617x2,755x9,698	9,001x4,871x13,410	—	—	7,827x4,871x13,410	8,176x4,871x13,410
	Horizontal Type	Please contact the sales department		—		6,917x4,871x13,410	
Net Weight	Without CL-10	2,950	6,600	15,400	25,000	6,465	6,530
	With CL-10	3,454	7,642	—	—	7,507	7,572
	Horizontal Type	Please contact the sales department		—		7,808	
Required Thermal Energy	Paddy, Wheat	35,000~135,000	83,000~330,000	176,000~705,000	360,000~1,230,000	Applicable Region Regular	Cold
	Approx. Kcal/hr	Ambient Temp. +10~40°C	Ambient Temp. +10~40°C	Ambient Temp. +10~40°C	Ambient Temp. +10~35°C	Applicable Grains Paddy, Wheat	Paddy, Wheat, Corn
per unit	Corn, Animal Feed	220,000	560,000	1,190,000	2,000,000	Temperature Increase Range +15~45°C	+15~70°C
	Approx. Kcal/hr	Ambient Temp. +65°C	Ambient Temp. +65°C	Ambient Temp. +65°C	Ambient Temp. +52°C	Boiler Capacity Approx. ton/hr 1.2	2.4
Power Consumption	Without CL-10	7.98	16.84	40.1	79.6	Boiler Pressure Approx. kg/cm² 7	
	With CL-10	11.78	24.44	—	—	13.1	
Function	Loading	40	55	57	70	20.7	
	Discharging	35	50	52	70	55	
	Drying Rate	0.5~1.5 %/hr			70	50	
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 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: 8,900 Kcal/m³ in Taiwan, 11,000 Kcal/m³ in Japan, 8,400 Kcal/m³ in Sichuan province of China.
- Different platform, rain hood, exhaust chamber, exhaust pipe, stand, balustrade and other accessories are required for each dryer and CL-10 model.
- The user shall prepare dust collecting bags when using CL-10 without a central dust collecting system.
- Gas pipe lines have to be built by certified local professionals. NEVER do it by yourself.
- Diesel/Rice Husk & Gas/Rice Husk Dual-type are made to order. \*Use high-quality kerosene or premium diesel only.



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