

# SPECIFICATION

Model	SB-40	SB-80	SB-130
Max. thermal energy	380,000 kcal/hr (approx)	800,000 kcal/hr (approx)	1,300,000 kcal/hr (approx)
Husk consumption (Under maximum combustion)	128 kg/hr (approx)	270 kg/hr (approx)	420 kg/hr (approx)
Exhauster ash (Under maximum combustion)	17 kg/hr (approx)	36 kg/hr (approx)	55 kg/hr (approx)
Total horse power	6.25HP (4.68kW)	14HP (10.5kW)	22.3HP (16.75kW)
Dimension mm(L x W x H)	2814x5170x7167	3520x6515x8569	4256x6645x9612
Net weight (ton) approx	10	17.4	21.1
Attached dryers (Model x Unit)	SUPER-60B x 3 (commercial Paddy) SUPER-60B x 4 (Paddy seed)	SUPER-60B x 7 (commercial Paddy) SUPER-60B x 8 (Paddy seed)	SUPER-60B x 13 (commercial Paddy) SUPER-60B x 14~16 (Paddy seed)
	SUPER-120B x 3 (commercial Paddy) SUPER-120B x 4 (Paddy seed)	SUPER-120B x 6 (commercial Paddy) SUPER-120B x 7~9 (Paddy seed)	SUPER-120B x 10 (commercial Paddy) SUPER-120B x 11~13 (Paddy seed)
	SUPER-300B x 1 (commercial Paddy) SUPER-300B x 2 (Paddy seed)	SUPER-300B x 3 (commercial Paddy) SUPER-300B x 4 (Paddy seed)	SUPER-300B x 5 (commercial Paddy) SUPER-300B x 6~7 (Paddy seed)
	PHS-320B x 1 (commercial Paddy) PHS-320B x 2 (Paddy seed)	PHS-320B x 3 (commercial Paddy) PHS-320B x 4 (Paddy seed)	PHS-320B x 4 (commercial Paddy) PHS-320B x 5~6 (Paddy seed)
	MD-165B x 1	MD-165B x 2	MD-165B x 3
Safety Devices	Flame sensor, Abnormal combustion sensor, Pressure Relief Device, Automatic abnormal Safe Guard, Rotation sensor, Thermal relay, Control Fuse, Seismic detector for flame		

Dryer Model		SUPER-60B	SUPER-120B	SUPER-300B	MD -165B	PHS -320B
Capacity	Paddy(kg)	2,500~6,000	2,800~12,000	4,000~30,000	Maize(1 liter = 690g) 7,000~16,500	7,800~32,000
	Wheat(kg)	3,035~7,285	3,400~14,550	5,000~34,000	Paddy(1 liter = 560g) 5,500~13,200	9,600~38,800
Dimension(mm) LxWxH		3754x2411x5574	4089x2660x9602	4999x3786x11629	5710x2785x10272	6671x4871x13410
Voltage		3 Phase, 220V/380V/415V/440V, 50Hz/60Hz				
Power		5.5kW(7.3HP)	7.75kW(10.3HP)	16.19kW(21.6HP)	14.75kW(19.7HP)	17kW(22.6HP)
Net weight (kg) approx		1885	2460	5200	3398	6452
Function	Loading	30 min approx.	60 min approx.	65 min approx.	75 min approx.	55 min approx.
	Unload	41 min approx.	58 min approx.	70 min approx.	70 min approx.	50 min approx.
	Drying Rate	0.5~1.0%/hr			1.2~2.0 %/hr	0.5~1.5%/hr
Safety Devices		Thermo-over Relay, Air Pressure Switch, Full Load Buzzer, Control Fuse, Timer.				Thermo-over Relay, Air Pressure Switch, Full Load Buzzer, Timer, Control Fuse, Rotary valve sensor

- Specification subject to change without notice.
- Biomass Selection : Paddy husk.
- Thermal energy, husk consumption and exhausted ash production listed are for reference only. Actual data will differ from variety, moisture content and impurity rate.
- Listed parameters and drying rate are for reference only and in accordance to grain with initial and target moisture content as following : Paddy: 26% to 15%, wheat and maize: 30% to 12.5%. Actual value varies in correlation to ambient temperature, relative humidity, grain variety, hot air temperature, moisture content before and after drying.

## Honor & Recognition



Gold medal at the IENA 2012 in Nuremberg, Germany



2013 World Genius Convention Genius Gold Medal & Special Genius Award in Tokyo, Japan



Invention and Creation Awards of Taiwan-Contribution Award



Invention Award of Taiwan



TAIWAN EXCELLENCE 2010



Innovation Research Award

SUNCUE

# SUNCUE Rice Husk Furnace Dryer

SB SERIES Exclusively innovated Full Automatic

Best solution for Environmental Protection, Energy Saving, CO<sub>2</sub> Reduction, Earth Care

The annual paddy production in Taiwan is 1.75 million tons and it requires 35 million liters of diesel to produce thermal energy for drying. The drying cost of Suncue Rice Husk Furnace dryer is only 25% of diesel type. By using Suncue rice husk furnace, it can reduce 94,500 tons of CO<sub>2</sub> emission that equals to 4,725 hectares of forest.



Appreciate to choose SUNCUE Rice Husk Furnace for showing concerns in environmental friendly, energy saving, CO<sub>2</sub> reduction and earth care !

Taiwan · China



Union Rice Co., Ltd

2007 · 2008 · 2010  
SB130 x 6  
Days of usage / year : 120  
Fuel saving : 2.56 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 6,906 approx.  
Equal to forest area (Hectare) : 348 approx.



SUNSUIVI

2006 · 2007  
SB130 x 4  
Days of usage / year : 120  
Fuel saving : 1.7 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 4,604 approx.  
Equal to forest area (Hectare) : 232 approx.



DING XIANG GROUP

2007  
SB130 x 1  
Days of usage / year : 270  
Fuel saving : 0.96 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 2,589 approx.  
Equal to forest area (Hectare) : 129 approx.



PENG HAO GROUP

2008 · 2010  
SB130 x 2  
Days of usage / year : 210  
Fuel saving : 1.49 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 4,028 approx.  
Equal to forest area (Hectare) : 202 approx.

Southeast Asia



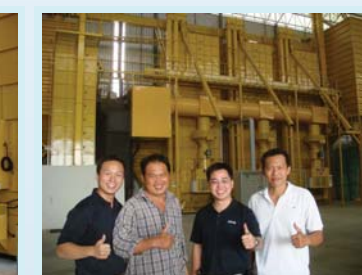
Indonesia

2006 · 2007  
SB130 x 4  
Days of usage / year : 100  
Fuel saving : 1.42 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 959 approx.  
Equal to forest area (Hectare) : 48 approx.



Indonesia

2009  
SB80 x 1  
Days of usage / year : 120  
Fuel saving : 0.26 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 708 approx.  
Equal to forest area (Hectare) : 35 approx.



Thailand

2008  
SB80 x 1  
Days of usage / year : 120  
Fuel saving : 0.12 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 334 approx.  
Equal to forest area (Hectare) : 17 approx.



Cambodia

2008  
SB130 x 1  
Days of usage / year : 180  
Fuel saving : 0.64 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 1,726 approx.  
Equal to forest area (Hectare) : 86 approx.

Europe · America



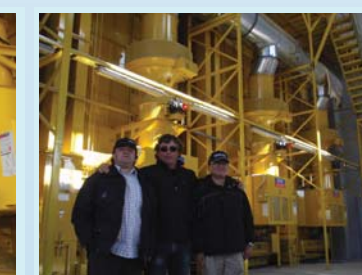
Turkey

2007  
SB130 x 1  
Days of usage / year : 60  
Fuel saving : 0.21 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 575 approx.  
Equal to forest area (Hectare) : 29 approx.



Turkey

2007  
SB80 x 1  
Days of usage / year : 60  
Fuel saving : 0.13 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 354 approx.  
Equal to forest area (Hectare) : 18 approx.



Bulgaria

2009  
SB130 x 1  
Days of usage / year : 60  
Fuel saving : 0.21 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 354 approx.  
Equal to forest area (Hectare) : 29 approx.



Nicaragua

2008  
SB40 x 1  
Days of usage / year : 120  
Fuel saving : 0.12 million L/year approx.  
Yearly CO<sub>2</sub> emission reduction (ton) : 334 approx.  
Equal to forest area (Hectare) : 17 approx.

※ The above data are calculated under max thermal energy SB furnace can produce, which is equal to the thermal energy of diesel under 24 hours daily operation. CO<sub>2</sub> emission of diesel based on 2.7 kgs/liter ; CO<sub>2</sub> absorpency of forest area per hectare based on 20 tons / year. Actual data will vary depending on different conditions.

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AGENT





# SUNCUE® Rice Husk Furnace Dryer

- Environmental friendly** SB-130 furnace can save up to 640,000 liters of diesel every year. CO<sub>2</sub> emission of diesel based on 2.7 kilograms per liter.
- Energy Saving** The drying cost of Suncue Rice Husk Furnace dryer is only about 25% of diesel type. Calculation based on diesel price TWD 27.5 / liter and husk price TWD 2 / kg.
- CO<sub>2</sub> reduction** Paddy husk is a biomass fuel, and its CO<sub>2</sub> net emission is zero. One set of SB-130 can reduce up to about 1,726 tons of CO<sub>2</sub> emission every year.
- Earth Care** CO<sub>2</sub> emission reduction by each SB-130 is equivalent to about 86 hectares of forest every year.

SUNCUE unique patented Complete Combustion technology. Consume the lowest quantity of paddy husk while produce maximum thermal energy.

Paddy husk from 1 hectare of farm can dry approximately 3 hectares of wet paddy.

Paddy husk from 1 ton of wet paddy can dry approximately 3 tons of wet paddy.



- Minimum Cost** • Drying cost reduce about 75% ! Fear free from high oil price.
- Easy Management** • Computerized auto control. Error proof design. Easy operation.
- Premium Quality** • Constant temperature brings tasty rice (seed).
- Good Price** • Indirect clean hot air and constant temperature drying bring quality rice and greater profit.



Model	SB-40		SB-80		SB-130	
Max. Thermal energy (kcal/hr)	Approx. 380,000 kcal/hr		Approx. 800,000 kcal/hr		Approx. 1300,000 kcal/hr	
Equally to diesel consumption (approx) (Liter/Hr)	43		91		148	
CO <sub>2</sub> emission reduction (approx.) (ton/day)	2.8		5.9		9.6	
Days of usage/year	120	180	120	180	120	180
Yearly CO <sub>2</sub> emission reduction (approx.) (ton)	334	502	708	1,061	1,151	1,726
Equal to forest area (approx.) (Hectare)	17	25	35	53	58	86
Yearly Diesel saved per SB unit (approx.)(liter)	124,000	186,000	262,000	393,000	426,000	639,000

■ The above data are calculated under max thermal energy SB furnace can produce, which is equal to the thermal energy of diesel under 24 hours daily operation. CO<sub>2</sub> emission of diesel based on 2.7 kgs/liter ; CO<sub>2</sub> absorbency of forest area per hectare based on 20 tons / year. Actual data will vary depending on different conditions.

Exclusively passed the Air Pollution Standard for Environmental Testing in Taiwan and Japan. Smoke wash free. Obtain patents in Taiwan, Japan, U.S.A.,...etc.

## DIMENSION

SUNCUE SB series Husk furnace can apply to various demands.

**SB-40**

Weight of furnace: 10 Tons

**SB-80**

Weight of furnace: 17.4 Tons

**SB-130**

Weight of furnace: 21.1 Tons

Unit:mm

Top view

Side view

Front view

Unit:mm

Top view

Side view

Front view

Unit:mm

Top view

Side view

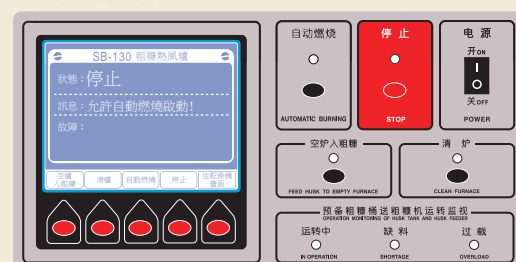
Front view



## Rice Husk Furnace Drying Complex

Unique!! Computerized Auto Control. Indirect hot air system. Clean hot air does not contaminate grains.

- 1 Husk Tank Feeder
- 2 Husk Tank
- 3 Husk Feeder
- 4 SB-130 Husk furnace
- 5 Main Control Box
- 6 Auxiliary air blower
- 7 Auto Ash Discharger
- 8 Cyclone
- 9 Hot air duct
- 10 Dumping Pit
- 11 Bucket Elevator
- 12 Wet Grain Silo
- 13 Precleaner
- 14 Loading Chain Conveyor
- 15 Dryer
- 16 Micro Air Adjuster
- 17 Hot Air Damper
- 18 Discharging chain conveyor
- 19 Dry Grain Silo



### Computerized auto control of husk feeding

- Auto husk feeding volume according to dryer numbers and hot air temperature requirement.



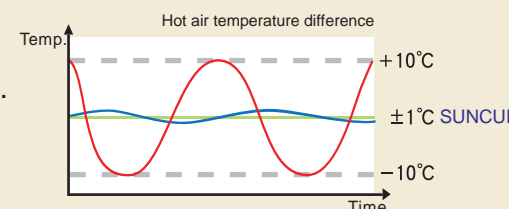
### Computerized auto control air adjuster

- Auto hot air temperature adjusted according to dryers' requirement.



### Steady hot air temp

- Hot air temperature difference  $\pm 1^{\circ}\text{C}$ .
- World-leading and constant temperature control technology.



### Computerized auto ash discharging

- Auto ash sweeping and discharging.
- Ensure normal combustion.



- Attached one to multi-dryers with different and constant temperature of each dryer at the same time is available.
- Easy operation system with multi-dryers control simultaneously to avoid any careless mistake. Professional operator is not required.