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Agriculture heat pump dry  
system 3HP



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Agriculture heat pump dry system is a compact, high performance dry system. The operating temperature range is between 80° – 211° F (27°C – 85° C), this system is suitable for families and small factories agricultural products dry.

The system include heat pump, control system, fan, dehydration system, dry room and tray, operation voltage is 220V or 110V, lots of place user can use this system directly, Don't worry about the local voltage matching. The system is a complete heat pump dry system too, user needn't assemble them again. they connect power to dry system can use them directly.

Example food applications: Confectionary (Candy); Croutons; Fish and Sea Cucumber; Fruits and vegetables (apple; blueberry; kale; lime; onion; papaya; pineapple; tomato; Litchi; honeysuckle; raisin and so on); Meat (Beef Jerky); Mushrooms; rice; Petfood and so on.

## Advantage

1. 220V or 110V operation voltage, Apply anywhere
2. Function Reliable, low maintenance operation.
3. Client needn't to assemble and installation again.
4. Small footprint
5. Automatic control and operation with user friendly design.
6. Save 70% to 80% of your electrical or oil or gas heating energy, Low operating costs
7. Waste heat recovery and utilization
8. Gentle drying: High consistent product quality
9. Leading edge control systems
10. Dry room inner hot air horizontal flow. temperature fairly well-distributed

# Agriculture heat pump dry system 3HP

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- temperature and humidity automatic control. the compressor runs to remove moisture from the air whenever the relative humidity in the dry room is above the humidity set point. Since relative humidity and EMC are directly related, this system is ideal for those who want to dry mixed loads or are interested in equalizing the dry room charge.
- This system is suitable for the drying field of humidity and temperature not Strict requirement , approximately 150 KG of wet fruit can be dried at one time



### Technical datasheet

Item	Unit	Description
Model		3HP
Power Supply		230V/1Ph/50Hz
Ambient temperature	°C	-5 to 45
Load capacity	kg	100-200kg
Dryer Heating capacity	kW	10Kw (70 °C)
Rated Input power (Compressor)	kW	2.4KW
Rated Input power (Outdoor fan)	kW	0.7kw(2pcs 0.35KW)
Rated Input power (circulating fan)	kW	0.6kw
Total Power	kW	3.7KW
Rated Input Currents	Amps	13A
De humidification capacity	LPH	8-10Kg/H
Compressor Model No	Copeland	3HP (scroll compressor) ZW34KA-TPFS-582 Copeland
Refrigerant Type		Dryfree special refrigerant
Refrigerant charge	kg	4kg
Evaporator		Copper tube, Aluminum fins – Golden plated
Condenser		Copper tube, Aluminum fins – Golden plated
Outdoor fan Qty.		2
Outdoor fan volume capacity	m3/h	6500 M3 / h
Fan speed	RPM	1450R/MIN
Circulation fan volume capacity	m3/h	5000-8000 M3 / h
Circulation fan speed	RPM	2800R/MIN
*Maximum/rated temperature	°C	85/80
*Noise	dB(A)	55
*Chamber dimension (LWH)	mm	2800x1100x2200
Insulation thickness	mm	50
Nos. of Trolley		NO
Trolley dimensions	mm	NO
Trolley Materiel		NO
*No of trays		40
*Tray Dimension	mm	460x640x25
Tray Material		Aluminium frame and stainless steel 304 net
Door Size	mm	700X750
Nos. of Doors		2
Exhaust maximum temperature	°C	115
*Exhaust pressure	Mpa	≤2.35
*Return air pressure	Mpa	≤0.03
*Net weight	Kg	200
Application type		Indoor & Outdoor
Solar air collector	pcs	2000*1000*95mm(2pcs)



# Drying application

## Fruit drying machine

Lemon, banana, coconut, pineapple, plum, litchi, cherry, olive, grape, apple, mango, persimmon, watermelon, etc



## Meat drying machine

Such as Beef, bacon, duck, sausage, dried pork, so on

## Agricultural products drying machine

Beancurd, scallion, yellow cabbage, rice, dried bamboo, red jujube, ginger, sweet potato, yam, chili, corn, chili, spicy leaf, mushroom, etc

## Nut drying machine

Such as peanuts, macadamia nuts, pecans, pistachios, pine nuts, walnuts, almonds and so on