

Specification sheet of 40ft shipping container mushroom farm



1.Part list details each unit

NO	Name	Model	Qty
1	Mushroom climate control machine	QSB15FPC-RXP	1set
2	With Dry&web bulb box	/	1set
3	With Frequency inverter for fan	/	1set
4	With PLC touch screen control box and sensors	/	1set
5	Ultrasonic Humidifier	14L/h	1set
6	Outdoor Air duct	SS201/Aluminium	1set
7	Indoor air duct connector	SS201	1set
8	Indoor PE bag air duct	Dr:430mm	11m
9	Insulated pipe for outdoor air ducts	Thickness:20mm	3m2
10	Electric cables and cable pipes (not including power supply cables)	/	1set
11	PVC-U pipes for humidity	Dr:110mm	12m
12	Overpressure louver	300x300mm	2pc
13	LED Light	18w	8pcs
14	Mushroom shelves	10.5x0.6m ,4layers	2sets
15	Mushroom container 40ft same as freezing shipping container	Size:12x2.3x2.5m	1set
16	Installation accessories (screws,glues ect)	/	1set

2. Technical Parameters

Model		QSB15FPC-RXP (5HP)	
Cooling capacity		13KW	
PTC Electrical Heating		6KW	
COP		2.48	
Power		3PH: 380±10%; 50HZ±2%	
Compressor	Mode	Full-hermetic scroll style compressor	
	Quantity	Set	1 (5HP)
	Input power	KW	3.89
	Rated load current	A	7.61
Power of centrifugal fan	KW	1	
Matching wire	mm ²	6	
Way to unload	%	0 , 100	
Refrigerant		R410A	
Condenser	Mode	High efficient inside screw tube shinizu fin style	
	Air condenser temperature	℃	50
Evaporator	Mode	High efficient inside screw tube shinizu fin style	
	Normal air volume	M ³ /h	3000 (With frequency inverter)
	Normal static press	Pa	250
	Evaporator temperature	℃	5
Throttle methods	External balance expansion valve		
Purification device	Return air primary filter,fresh air F5 filter		
Control function	Fill up air humidity,illumination signal,microcirculation		
Safety protection	Leakage protection,overload protection,overpressure and anti-phase protection,refrigerant abnormality protection,compressor over temperature protection,lack of water protection,and automatic fault detection,etc		
Overall(LxWxH)	L	mm	1250
	W	mm	1000
	H	mm	1650
Weight		KG	360

3.Brand Of Main Parts

Name	Model	Brand	Brand Origin
Compressor	/	Copeland	USA
Expansion valve	/	STF	Shanghai
Condenser	/	KF	ZheJiang
Evaporator	/	KF	ZheJiang
PLC CPU	/	Siemens	Germany
Electrical parts	/	Schneider	France
Centrifugal fan	/	Dewo	Jiangsu
Solenoid valve	/	KF	ZheJiang
Refrigerant	R410A	JUHUA	Zhejiang
Copper pipe	/	HongTai	QingDao
Valve	/	HengSen	ZheJiang
Pressure controller	/	KF	ZheJiang
High & low pressure gas gauge	/	KF	ZheJiang
Fresh air filter	/	TaiXu	ShangHai
Fresh air damper actuator	/	Belimo	Swissland
Stainless steel bellows	/	KF	ZheJiang
Vibration Absorber	/	KF	ZheJiang
Anti-Corrosion frame	/	KF	ZheJiang

4. Pictures for reference














Machine state
Time:15:43:59
Date: 2015-12-19

User setting Function Machine state I/O State Alarm Graph	Mode	Cooling					
	Control value	20.5 °C					
	Main Fan						
	Compressor						
	Fan						
	Humidification						
Light							
		Phase		Running time	H	Remain time	H
		Room temperature	°C	Humidity	%		
		Wet bulb temperature	°C	Compost temperature 1	°C		
		Coil temperature	°C	Compost temperature 2	°C		
		Outdoor temperature	°C	CO2	PPM		
		Fresh air open percent	%	Frequency	HZ		

Communication fault!!!



Start

Stop


Phase 1
Time:15:43:59
Date: 2015-12-19

User setting Function Machine state I/O State Alarm Graph	Temperature setting	°C	Fan frequency	HZ
	Temperature range	°C	Fresh air damper open	Min
	Humidity setting	%	Fresh air damper close	Min
	Humidity range	%	Light on	Min
	CO2 setting	PPM	Light off	Min
	CO2 range	PPM	Phase running time	H
	Phase 1 Phase 2 Phase 3 Phase 4 Phase 5 Phase 6 Phase 7 Phase 8 Phase 9 Phase 10 Phase 11 Phase 12 Phase 13 Phase 14 Phase 15 Phase 16 Phase 17 Phase 18 Phase 19 Phase 20			

Communication fault!!!



Start

Stop