

مشخصات ایردراير

technical information

1. Combination machine's rated working condition:

- Inlet air pressure: 0.8 MPa.
- Inlet air temperature: 60 °C.
- Ambient temperature: 38 °C.
- Pressure dew point: -40 °C.
- Regenerated gas consumption: 5% of the inlet air flow.
- Air pressure drops: ≤ 0.02 MPa.
- Air treatment capacity: 45Nm³/min.

2. Terms for use and main technical specifications:

- Range of air treatment capacity: 45-47Nm³ / min.
- Inlet air pressure: 0.4 ~ 1.0 MPa.
- The maximum inlet air temperature: 80 °C.
- The minimum inlet air temperature: 10 °C.
- Applicable ambient temperature: ≤ 45 °C.
- Pressure dew point: ≤ -40 °C.
- Regenerated gas consumption: 2-5% of inlet air flow.
- Air pressure drops: $\leq 5\%$ Pg (inlet).

3. Electrical and cooling system parameters:

- Power supply voltage: 3 ϕ , 380V, 50 Hz.
- Refrigeration compressor power: 7.4 kW.
- Refrigerant filling capacity (R22): 8k g.
- Absorbent filling capacity: AL2Q3 600k g + molecular sieve 13* 150kg

Control settings:

- Refrigerant high-pressure: 1.4 ~ 1.6 MPa. Refrigerant low-pressure: 0.39 ~ 0.44MPa.
- Thermal expansion valve: 0.5 °C. Refrigerant high-pressure protection: 2.1 MPa.
- Hot gas bypass valve: 0.42 MPa. Micro-thermal regeneration cycle: 60min.

Connection nozzle size:

- Compressed air entrance: DN100.
- Cooling water entrance: RC1-1 / 2 "
- Sewage (water) opening:

مشخصات Controller PLC

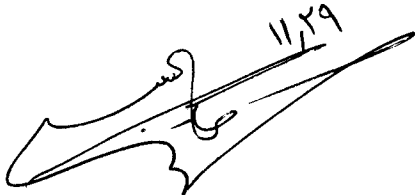
1.2 Technical Index

(1) Temperature measurement:

Thermal resistance, -35 ~ +105 °C, ± 1 °C accuracy.

K-type thermocouple, 0 ~ +400 °C, ± 1 °C accuracy.

(2) Dew point measurement: connect 4 ~ 20mA Dew point Transmitter, upper and lower limits can be set flexibly.

۱۱/۲۹


- (3) Power Input: AC voltage 240v, range: 176V ~ 264V.
 (4) Power consumption: 10W.
 (5) Switch input: 6-point, dry contact input.
 (6) switch output: 12-point relay contact, 240v/8A, normally open contact.
 (7) Working environment: Temperature 0 ~ 50 °C, humidity is not more than 85% and vibration is not more than 0.5g.

1.3 Controller model definition

Model	Input	Output	Analog Input	Dimension	Hole size
HD6CC1	6	12	5	244x170x62 (m m)	220.4x139.4 (mm)

1.4 Function and Monitoring Content

Function	Model	Signal Characteristic
Temperature collection/Monitoring	HD6CC1	
Inlet Temp.	Yes	Thermistor
Outlet Temp.	Yes	Thermistor
Cooling Temp.	Yes	Thermistor
Dew Point Temp.	Yes	Thermistor
Heating Temp.	Yes	K type Thermocouple
Switch Input		
Compressor Overload	Yes	No Power dry contract
Phase sequence error	Yes	No Power dry contract
High Pressure drop down	Yes	No Power dry contract
Low Pressure drop down	Yes	No Power dry contract
Chain	Yes	No Power dry contract
Pressure Switch input	Yes	No Power dry contract
Switch Output		
Motor Output	Yes	No Power dry contract
Motor Star-Start	Yes	No Power dry contract

دفتر مرکزی: تهران - بلوار آفریقا - بعد از ورودی همت غرب - جنب بن بست زاگرس (روبروی بیمه دانا) - پلاک ۱۱ - طبقه سوم - واحد ۱۰

تلفن: ۸۰۱ - ۰۲۱-۸۸۶۵۰۷۹۸
 شماره: ۰۲۱-۸۸۶۵۰۱۰۲

مشارکت مهندسين مشاور طرح انديشان صنعت صفاهان و مبنگران شهر صنعت
(تامسکو)



Motor Delta-Operation	Yes		No Power dry contract
Refrigerated Dryer Running	Yes		No Power dry contract
Drain	Yes		No Power dry contract
Alarm	Yes		No Power dry contract
A Inlet Valve	Yes		No Power dry contract
A discharge Valve	Yes		No Power dry contract
B Inlet Valve	Yes		No Power dry contract
B discharge Valve	Yes		No Power dry contract
Heating Output	Yes		No Power dry contract
Desiccant Dryer Running	Yes		No Power dry contract
Communication interface			
Joint	Yes		RS485 MODBUS-RTU agreement
Dew Point Inspection			
DP	Yes		4~20mA Dew Point Transmitter

دفتر مرکزی: تهران - بلوار آفریقا - بعد از ورودی همت غرب - جنب بن بست زاگرس (روبروی بیمه دانا) - پلاک ۱۱ - طبقه سوم - واحد ۱۰

تلفن: ۰۲۱-۸۸۶۵۰۷۹۸ - ۸۰۱

نمابر: ۰۲۱-۸۸۶۵۰۸۰۲

۱۱/۲۹