

# Dehumidifier

## Desiccant Dehumidifier

### DS Series

DRYER



DS II 1250



DS II 680



DS III 680

Solutions on Humidity & Temperature from Strict Requirements



# APPLICATION

Bridge construction, Wind Power, Warehouses, Basements Dry, Military, Anti-Corrosion Engineering Etc...

## DS STANDARD:

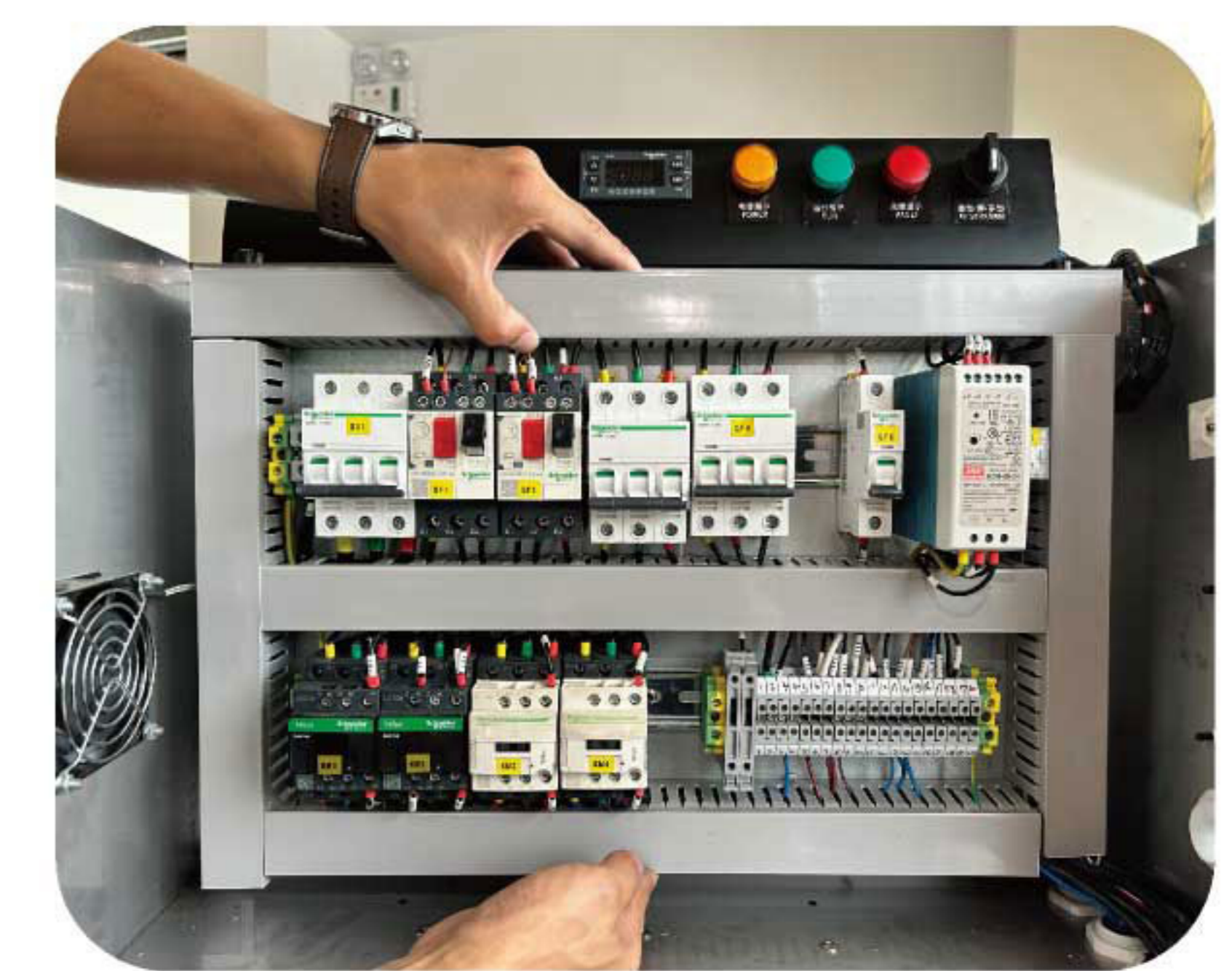
1. The supply air volume range  $220\text{m}^3/\text{h}\sim 1800\text{m}^3/\text{h}$  (DS I /III).
2. The supply air volume range  $600\text{m}^3/\text{h}\sim 2800\text{m}^3/\text{h}$  (DS II).
3. The casing is made by 304 stainless steel, suitable working in a severe condition.
4. High performance silica gel rotor with patent gasket.
5. The PTC reactivation heater is safer compared normal electrical heat elements.
6. The reactivation filter is bag type coping with dirty surrounding with less maintenance.
7. The PLC control provide auto mode with RS232.
8. Factory wiring and quick insert E plate installed in E-box for easy maintenance in narrow space.
9. DS II is type of DS with bypass, can supply more dry air volume coping with requirement of air changing in treated room.
10. (DS II) The bypass air is also be filtered and mixed with dried air supplied cleaning area.
11. (DS II) The casing can be removed separately and reassembly with “self-seal” securing air-tight inside.
12. The DS unit is made with EC standard.



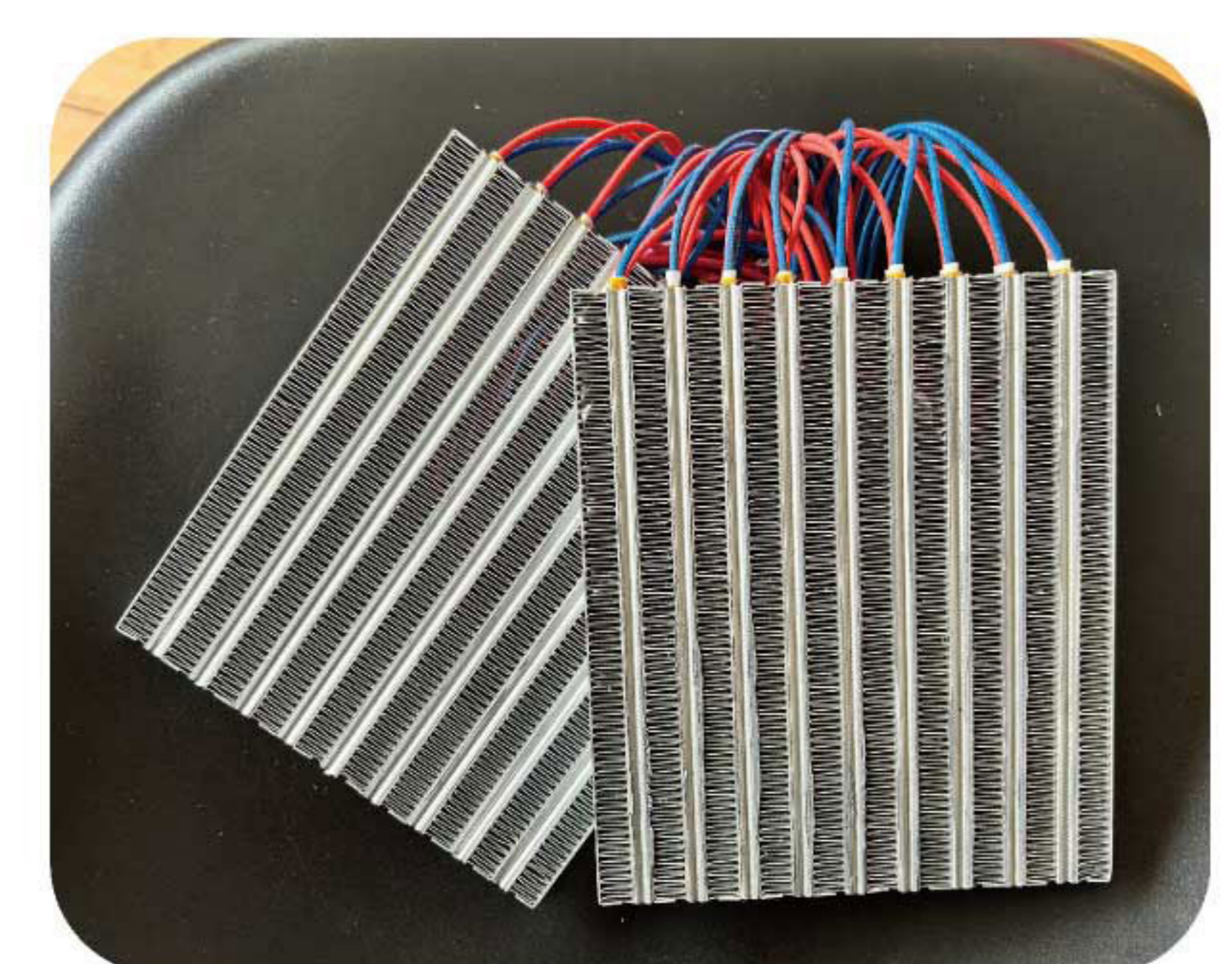
Desiccant Rotor (4)



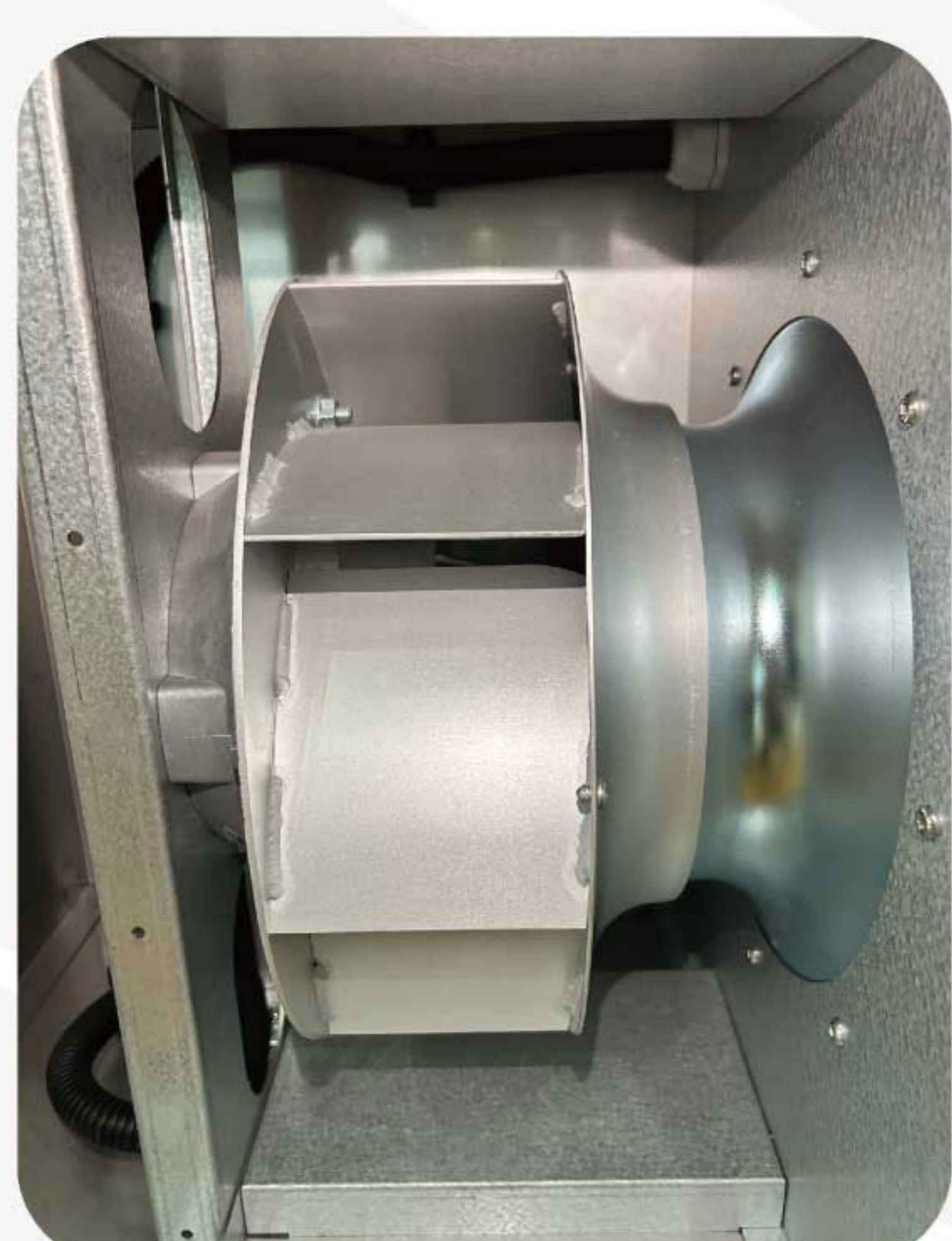
Filter (6)



E-BOX(8)



PTC(5)



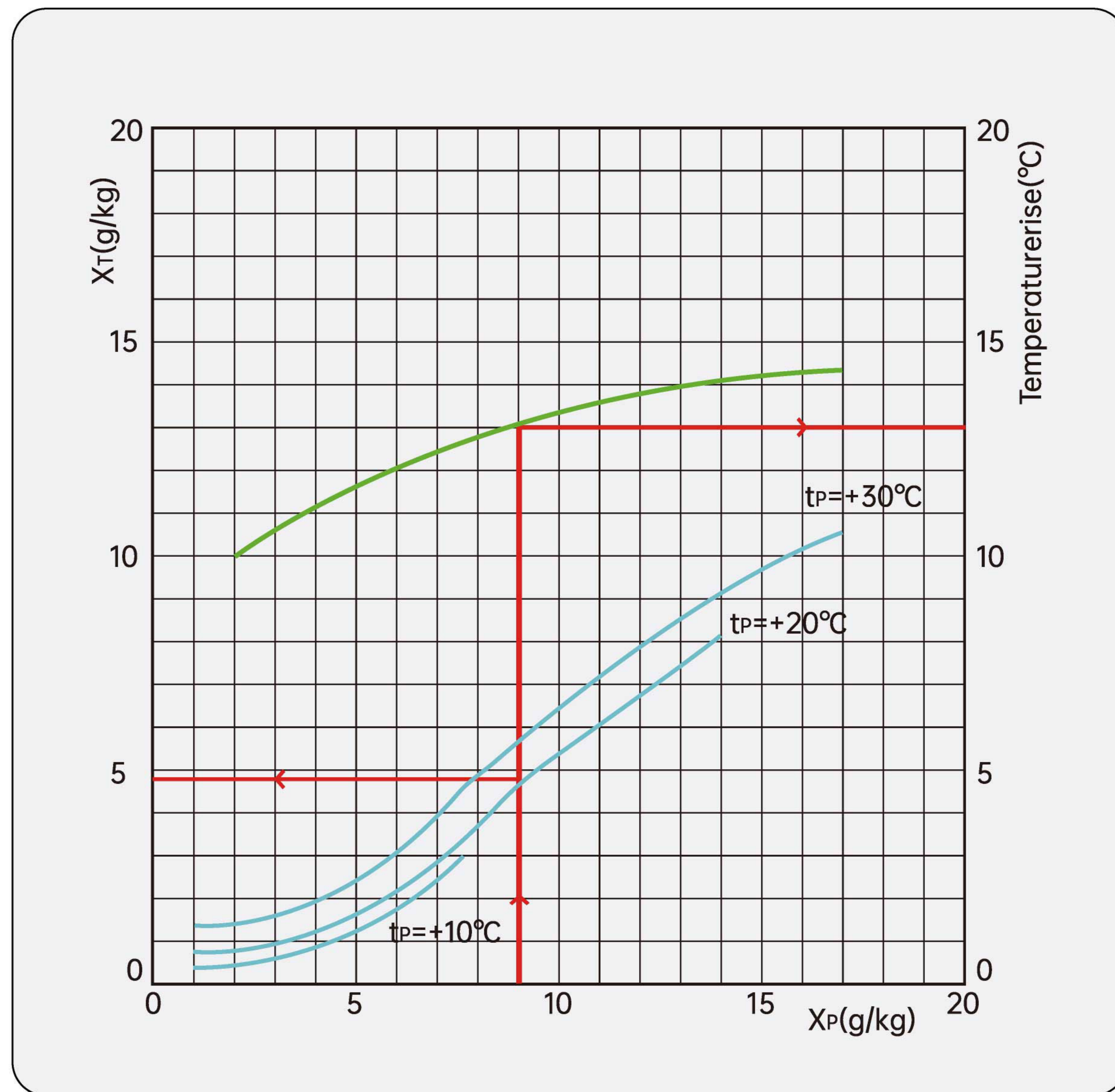
Supply Fan / EC Type (9)



(11)



# PERFORMANCE CURVE



Inlet Condition:  $T=20^{\circ}\text{C}$  Moisture= $9.0\text{g/kg}$  ;  
 Outlet Condition:  $T=38^{\circ}\text{C}$  Moisture= $4.8\text{g/kg}$

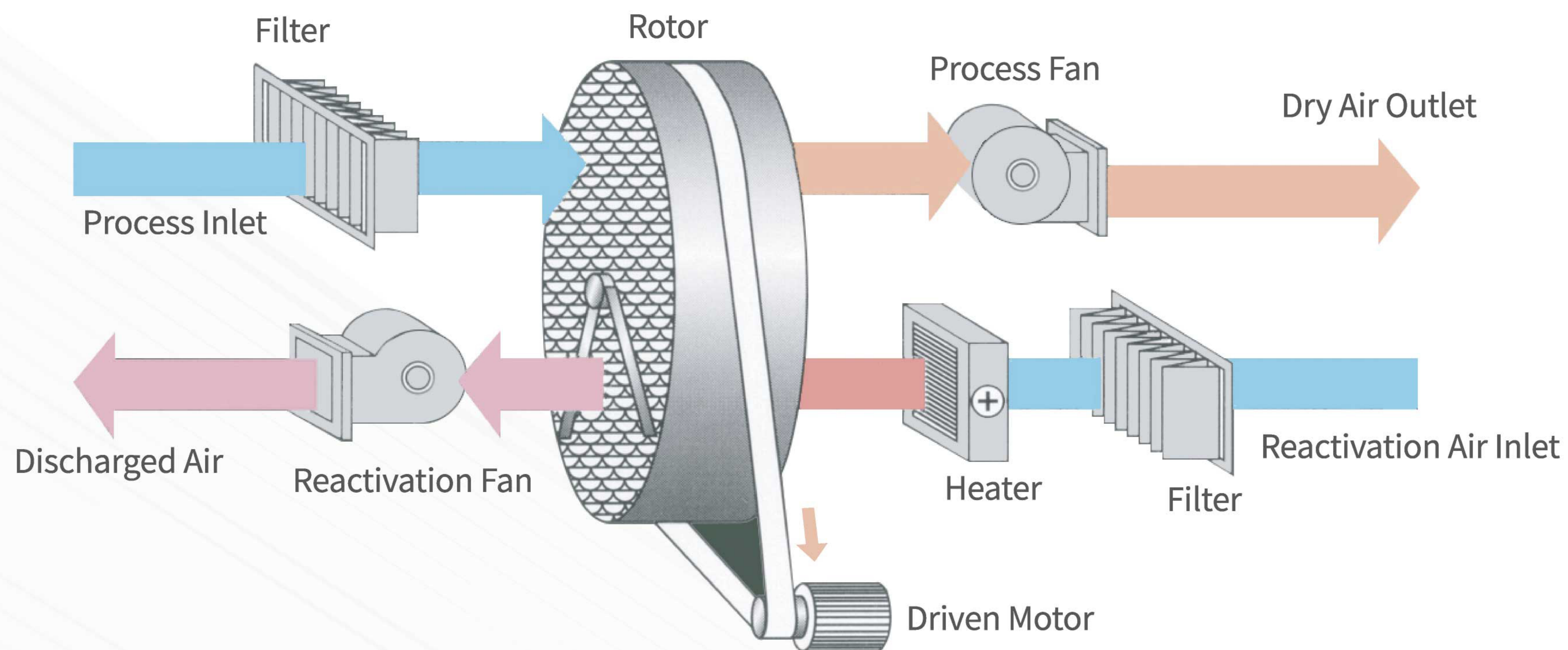
## Specification

Project Name	Processing Air		Reactivation Air		Consumption		External Dimensions			Others	
	Volume (m <sup>3</sup> /h)	External Pressure (pa)	volume (m <sup>3</sup> /h)	External Pressure (pa)	Power (KW)	Maximum Power (KW)	Length (mm)	Width (mm)	Height (mm)	Noise (max) (dBA)	Weight (kg)
DS220 I /III	220	150	90	130	4.6	3.8	933	426	577	65	40
DS450 I /III	450	180	150	290	7	5.8	1000	470	657	65	50
DS550 I /III	550	200	150	150	7	5.8	1089	516	657	65	60
DS680 I /III	680	300	200	300	10.7	9.7	1138	550	658	65	65
DS1250 I /III	1250	300	400	250	16.3	14.3	1340	616	704	65	80
DS220 II	600	300	90	130	5.5	4.7	935	420	1070	61	68
DS450 II	1200	500	150	290	9	7.8	1000	510	1177	65	74
DS550 II	1500	300	150	150	9	7.8	1088	510	1177	65	80
DS680 II	1800	300	200	300	12	11	1138	510	1177	68	92
DS1250 II	1800	300	400	250	17	15	1188	598	1223	71	106

◆ Figures above is based on air density at  $1.2\text{kg/m}^3$



# OPERATION PRINCIPLE



## COMPANY ADDRESS

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