

ORION

INDUSTRIAL DEHUMIDIFIER

INVERTER
CONTROL

EASY
TO
MOVE

HOT
GAS
DEFROST

ECO-FRIENDLY
REFRIGERANT

LARGE-
CAPACITY
WATER TANK

ERB500

ERF802

ERF1800

Specification

ITEM		MODEL	AC Constant Frequency		DC Inverter		New Product
			ERB500		ERF802		ERF1800
Dehumidification capacity ※ ¹		L/h	1.5		1.8		4.3
Ambient temperature range		℃	2~40				
Electrical rating	Power source	V・Hz	1Phase 110V±10% 60Hz		1Phase 220V±10% 50/60Hz		
	Power consumption	kW	0.55		0.58		1.30
	Current	A	5.0		2.7		6.0
	Power supply capacity	kVA	1.0		1.0		2.0
Equipment Specification	Compressor		Fully enclosed, rotary-type				
	Condenser		Fin-tube, forced air cooling		Microchannel, forced air cooling		
	Evaporator		Fin-tube, forced air cooling				
	Fan motor	W	30		47		60
	Air flow	m ³ /min	10		15		25
	Refrigerant expansion valve		Capillary				
	Refrigerant		R32				
	Defroster		Defrost thermostat				
	Humidity regulator		Mechanical type		Digital control		
External dimension (HxDxW)		mm	870 x 407 x 377		1002 x 476.5 x 554		1191 x 539 x 695
Weight		kg	36		56		85
Protective device	Refrigerant compressor		Motor protector, Thermal relay		Startup failure or abnormal loss, Inverter abnormality protection, Discharge temp. protection, Inverter module fault protection, Voltage boost abnormality protection.		
	Refrigerant system		High pressure switch				
Accessory	Tank ※ ²		17L, float switch device			-	
	Power cord				Cabletyre cord with plug 3.5m		

※1 The dehumidification capacity represents values for operation under suction air temperature of 27°C and relative humidity of 60%. The actual dehumidification capacity is above 95% of the rated dehumidification capacity.

※2 It can be connected with a hose for continuous drainage. (A hose with Di of 19mm can be used)

● Product mechanisms, specifications, etc. listed in this catalog are subject to change without notice.

Reliable Moisture Control, Maximum Efficiency

Optimize Your Production Environment !

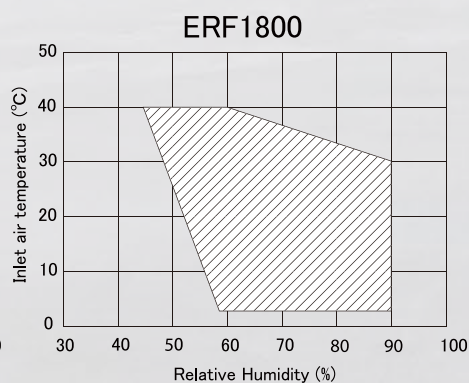
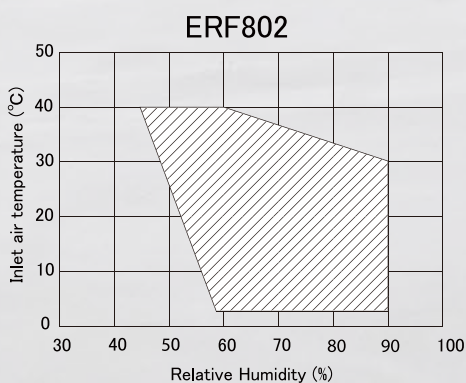
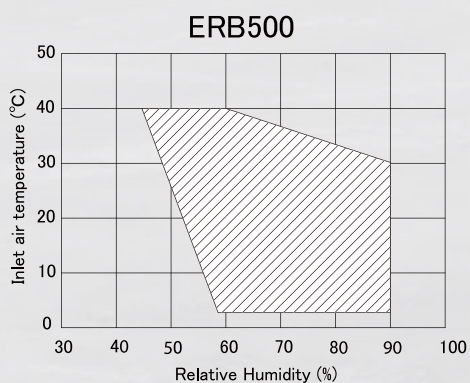
By using R32 refrigerant, the GWP value can be effectively reduced by **58%**



01/Drying 02/Storing 03/Production Process 04/Humidity Control

The newly launched AC Constant Frequency (ERB) and DC Inverter (ERF) industrial dehumidifiers in 2025 have an enhanced energy efficiency ratio and are more eco-friendly. They not only effectively control humidity but also achieve energy savings. Designed to adapt to various environments, they maintain high-quality performance in both high and low temperatures, making them especially suitable for industrial applications.

Range of operation



Dehumidification capacity

