ORION

INDUSTRIAL DEHUMIDIFIER

INVERTER CONTROL

EASY TO MOVE

HOT GAS DEFROST

ECO-FRIENDLY REFRIGERANT

LARGE-CAPACITY WATER TANK

ERB502-X

ERF802-X

ERF1800-X

Specification

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ITEM		MODEL	AC Constant Frequency	DC Inverter (New Product)	
			ERB502-X	ERF802-X	ERF1800-X
Dehumidification capacity ※1		L/h	1.5	1.8	4.3
Ambient temperature range		℃	2~40		
Electrical rating	Power source	V・Hz	1Phase 220V±10% 50Hz		
	Power consumption	kW	0.60	0.58	1.30
	Current	A	2.8	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		Cabtyre cord with plug 2.0 x 5m		

※1 The dehumidification capacity represents values for operation under suction air temperature of 27℃ 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.

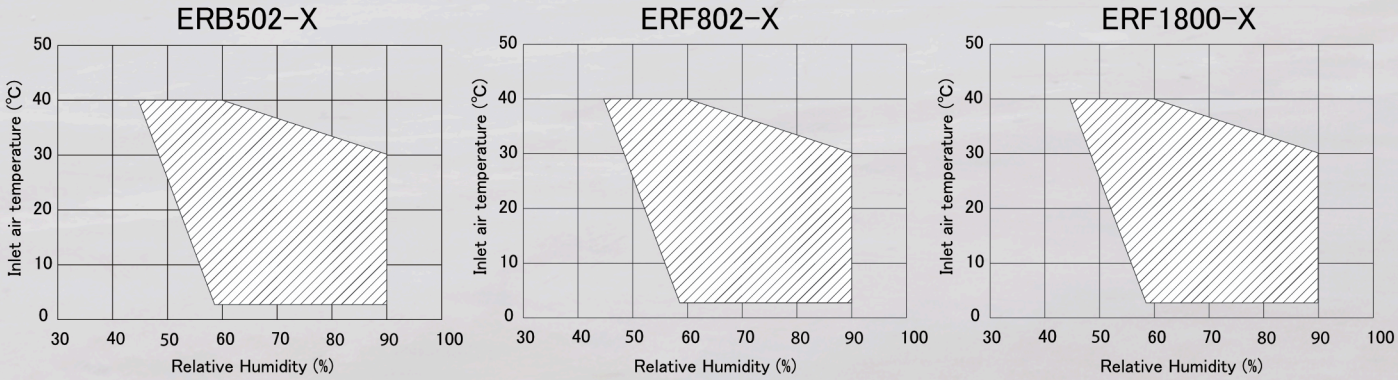
Reliable Moisture Control, Maximum Efficiency
Optimize Your Production Environment !

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



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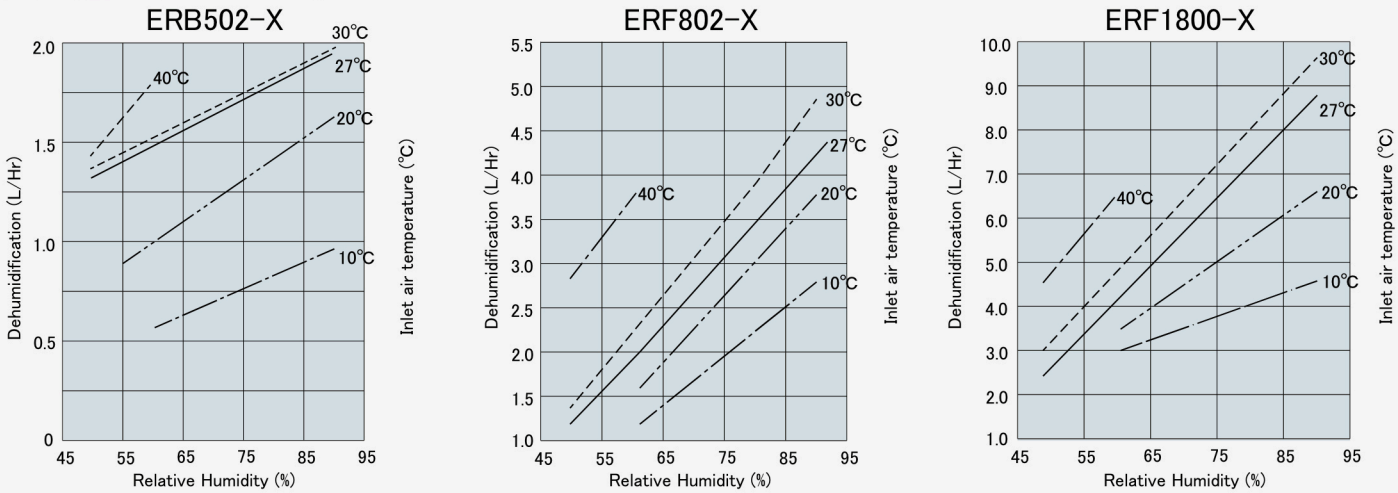
Dehumidification capacity



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Application examples

Important.
This catalog contains product specifications as of May,2025
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