

## FLEX Series

Refrigerated Air Dryers



# FLEX Series

Dedicated Dryer for Tropical Regions

### FLEX Series Specification

Model	Fbw Capacity (Nm <sup>3</sup> /min)	Unit (kW)	Power Supply	Inlet/Outlet Connecions (PT)	Weight (kg)	Dimensions(mm)			Refrigerants
						H	W	D	
FLX85	2.41	0.52	220~240V 1PH 50Hz	1"	50	641	363	881	R-134a
FLX110	3.11	0.59		1"	52	641	363	881	R-134a
FLX150	4.25	0.71		2"	67	761	443	931	R-407C
FLX240	6.80	1.36		2"	77	761	443	1031	R-407C
FLX370	10.48	2.00		2"	97	811	493	1111	R-407C
FLX450	12.74	2.38		2"	100	811	493	1111	R-407C
FLX530	15.00	2.66		2"	128	811	553	1211	R-407C
FLX800	22.64	5.80	380V/3PH/50Hz	FLG 3"	285	1572	724	1154	R-407C
FLX1250	35.38	7.30		FLG 4"	340	1572	724	1204	R-407C
FLX1500	42.47	7.10		FLG 4"	400	1722	804	1254	R-407C

\*Standard rated condition : 50°C inlet air temperature, 7.0 barG inlet pressure, 100% relative humidity, 35°C ambient air temperature, 50Hz.

\*Max./Min.inlet pressure : 16 barG/3 barG, Max./Min.inlet air temperature: 65°C/4°C, Max./Min.ambient air temperature: 50°C/4°C

\*Other voltage & 60Hz available. Consult factory for specification

\*Option available : NEMA4(IP54) Control Box for FLX800 & FLX1500

### Capacity Correction Factors

#### Inlet Air Pressure (barG)

barG	4	5	6	7	8	9	10	13	16
Factor	0.75	0.84	0.92	1.00	1.03	1.07	1.09	1.18	1.23

#### Inlet Air Temperature (°C)

°C	40	45	50	55	60	65
Factor	1.15	1.08	1.00	0.83	0.70	0.60

#### Ambient Air Temperature (°C)

°C	25	30	35	40	43	50
Factor	1.20	1.06	1.00	0.75	0.60	0.45

#### Pressure Dew Point (°C)

°C	3	5	7	10
Factor	0.71	0.79	0.86	1.00

#### Free Air Delivery

Standard	Nm <sup>3</sup> /min	ISO1217	JIS	idm
Factor	1.00	1.07326	1.148	1.18

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Some specifications in this bulletin may change without notice.



### Jemaco Refrigerated Air Dryers

Compressed air users around the world have relied on Jemaco that provides the innovative compressed air treatment solutions for critical applications. Jemaco maintains a long standing reputation for manufacturing products that deliver superior performance, time proven reliability and optimal energy savings. Jemaco is a preferred choice for providing clean, dry compressed air for the most challenging industries.

Compressed air contains contamination in the form of solid particulate, extraneous oil and water vapor. If untreated, the air will adversely affect pneumatically operated components and equipment. Jemaco refrigerated air dryers are recognized for reliable, effective and efficient contaminant removal systems.

### About SPX

Based in Charlotte, NC, USA SPX Corporation is a global Fortune 500 multi-industry manufacturing leader with over \$5 billion in annual revenue, operations in more than 35 countries and approximately 15,000 employees. The company's highly-specialized, engineered products and technologies are concentrated in Flow Technology and energy infrastructure.

[www.spx.com](http://www.spx.com)

### \* 5 Year Warranty Program

#### Stainless Steel Brazed Plate Heat Exchanger

- ▶ High & consistent quality (counter-current flow)
- ▶ Larger heat transfer surface area
- ▶ Consistent dew point
- ▶ Minimized air pressure drop due to the minimum piping
- ▶ No moisture carry over
- ▶ Patented design  
USA, EU, China, Japan, Korea

# FLEX Series

## Refrigerated Air Dryers

The FLEX series are optimized air dryers for hot and humid climate in the tropical regions. An advanced stainless steel brazed plate heat exchanger is applied, and it deters refrigeration load with great efficiency of heat-transfer. The innovative and simplified refrigeration circuit provides reliable operation, low operating cost and versatile installation.

### Feature

Optimized for hot and humid climate in the tropical regions

Stainless steel brazed plate heat exchangers optimize heat transfer and service life

Separator, re-heater and evaporator combined into 1 compact efficiency unit

Improved ventilation by up-flow cooling air design

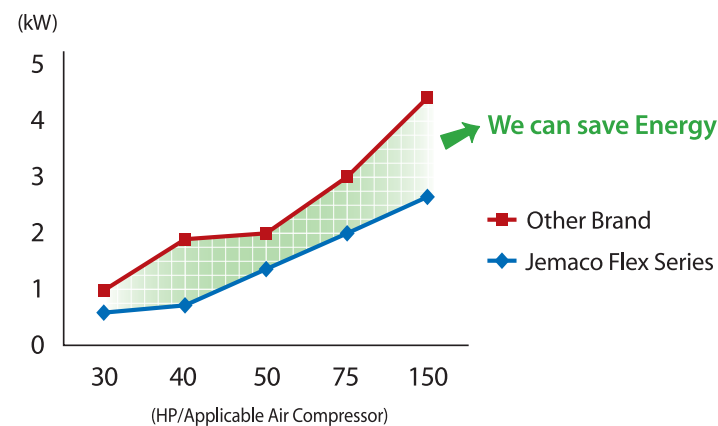
Low pressure drop reduces operating costs

Low power consumption

Easy to install package saves time and money

Environmentally friendly R-134a & R-407C refrigerants

### \* Power Consumption Comparison



### User friendly Digital Control Board II



- ❄️ : Dewpoint Temperature Indicator
- ⊛ : Compressor On Light
- ⏮ : Selection
- ⏪ : Drain Push-to-Test
- 💧 : Condensate Draining



### How it works

Warm, saturated compressed air enters the air to air heat exchanger and is cooled by the exiting air. The precooled air then enters the air to refrigerant heat exchanger and is further chilled causing water vapor to condense. Condensed moisture is collected from the air stream by an integral separator with stainless steel demister. Liquid condensate is removed from the separator by an automatic timer. Cold air is then reheated in the air to air heat exchanger to eliminate sweating on the downstream pipe line. Clean, dry air exits the dryer and is now qualified for use of purpose.

