

Ozen Refrigerated
Air Drying Systems

ODRD Digital Cycling
Refrigerated Air Dryers

ODRD Series Digital Cycling Refrigerated Air Dryers

ODRD (10-5000 scfm)



Supply of clean and dry air is essential for all companies that require air for their production. In order not to compromise the quality of the end product and to protect the equipment from corrosion, the air that comes out of the compressors must be filtered to clean it from all kinds of dirt and humidity.

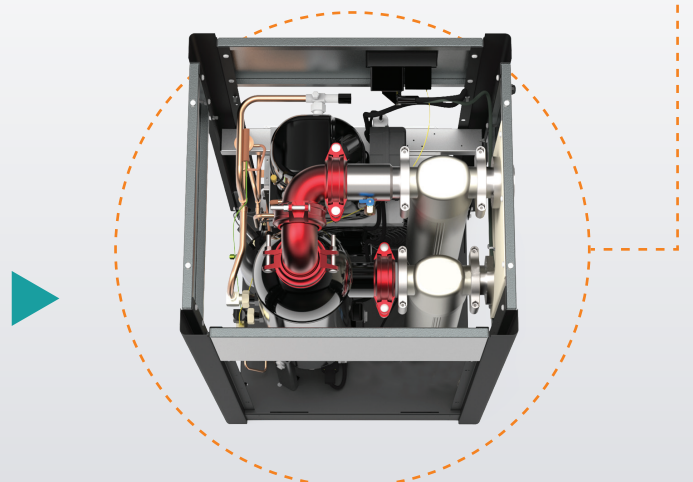
Ozen Air Technology's refrigerated air dryers ensure the quality and continuity of your production by eliminating the particles and humidity from your compressed air system.

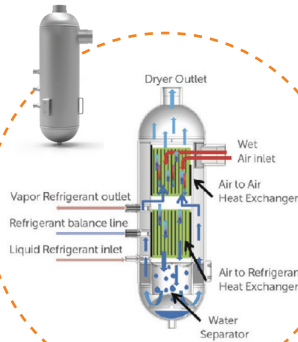
Ozen only uses environmentally friendly R134a gas in its dryers. Thanks to the thermodynamic properties of R134a, which is ideal for both low and high temperature applications, it is possible to operate at lower pressures than other dryers. Since it is designed to accommodate extreme tropical climates, the dryer provides high performance at ambient temperatures of up to 140 °F. With the Digi-Pro control unit, it is easy to monitor the actual dew-point and determine the dryer's periodical service and maintenance needs.

The strategic positioning of the electrical panel makes it easily accessible without having to open the product covers.

Compact design

- The aluminum plate heat exchanger, which is standard, generates minimum pressure drop, maximum heat transmission, and high-performance water separation.
- Compact design provides ease of installation and small space compatibility.
- Refrigerant cycle's Suction/Evaporation and Discharge/Condensation pressure gauges are connected to the cooling cycle.
- Electrical and mechanical panels are separated.
- Easy access to the electrical panel of the product.



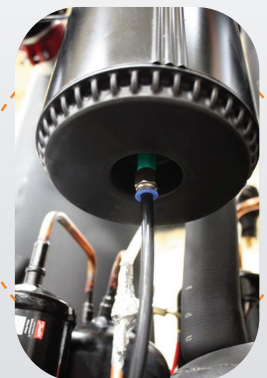


Integrated filters

- Standard filters located inside the dryer eliminate the need to install separate filters and external piping at the inlet and outlet points of the dryer. (up to ODRD 1100)
- Oversized (above capacity) filters are chosen to extend lifetime.

Ease of service

- Easy service and maintenance, thanks to the screwless panels with plastic handles.
- Filter components that can be easily replaced in small areas.
- Ease of assembly and disassembly with grooved couplings and pipe connections.
- Standard spare manual discharge.
- Service, maintenance and operating hour counter notification signals.
- Manual discharge valves on the filters make it possible to instantly lower the pressure during service.



ODRD Series Digital Cycling Refrigerated Air Dryers

ODRD (10-5000 scfm)

Digi-Pro Digital Control Unit

Digi-Pro digital control unit is standard in models between ODRD 10 and ODRD 425

- Energy saving mode
- Digital dew-point gauge
- Temperature unit selection (Celcius/Fahrenheit)
- Ability to get status reports
- Periodical maintenance indicator
- Time counter

ESD Digital Control Unit

ESD digital control unit is standard in models between ODRD 550 and ODRD 5000.

- Saves energy
- Automatic shutdown/economy mode when the air does not receive any air.
- Multi-parameter gauges
- Alarm signals



Technical Specifications

Model	Capacity	Voltage	Coupling Size	Pressure Drop	Integrated Filter	Replacement Filter Type	Dimensions (inch)			Weight
	scfm	V					psi	W	L	
ODRD-10	10	115/1/60	1/2" NPT	1.5	included	ODD-27-KIT	17	16	23	71
ODRD-15	15	115/1/60	1/2" NPT	1.7	included	ODD-27-KIT	17	16	23	71
ODRD-25	25	115/1/60	1/2" NPT	2.8	included	ODD-27-KIT	17	16	23	71
ODRD-30	30	115/1/60	1/2" NPT	2.8	included	ODD-41-KIT	17	16	23	77
ODRD-35	35	115/1/60	3/4" NPT	1.2	included	ODD-90-KIT	19	18	33	113
ODRD-60	60	115/1/60	3/4" NPT	1.6	included	ODD-90-KIT	19	18	33	117
ODRD-75	75	115/1/60	3/4" NPT	2.3	included	ODD-90-KIT	19	18	33	121
ODRD-100	100	115/1/60	1 1/2" NPT	1.6	included	ODD-300-KIT	22	20	35	172
ODRD-125	125	115/1/60	1 1/2" NPT	2.2	included	ODD-300-KIT	22	20	35	183
ODRD-140	140	230/1/60	1 1/2" NPT	2.8	included	ODD-300-KIT	22	20	35	190
ODRD-175	175	230/1/60	2" NPT	1.6	included	ODD-500-KIT	27	26	46	352
ODRD-200	200	230/1/60	2" NPT	1.9	included	ODD-700-KIT	27	26	46	363
ODRD-250	250	230/1/60	2" NPT	1.6	included	ODD-700-KIT	29	38	54	450
ODRD-350	350	230/1/60	2" NPT	2.6	included	ODD-700-KIT	29	38	54	485
ODRD-425	425	230/1/60	2" NPT	2.9	included	ODD-700-KIT	29	38	54	506
ODRD-550	550	460/3/60	3" NPT	2.0	included	ODD-1100-KIT	32	38	58	595
ODRD-700	700	460/3/60	3" NPT	2.5	included	ODD-1100-KIT	32	38	58	627
ODRD-900	900	460/3/60	3" NPT	1.7	included	ODD-1600-KIT	31	46	68	863
ODRD-1100	1100	460/3/60	3" NPT	2.2	included	ODD-1600-KIT	31	46	68	902
ODRD-1350	1350	460/3/60	3" NPT	1.7	included	ODD-1600-KIT	34	55	70	1082
ODRD-1500	1500	460/3/60	3" NPT	1.9	included	ODD-1600-KIT	34	55	70	1145
ODRD-2000	2000	460/3/60	4" FLANGE	2.7	OFLF-2500 P/X/Y/A	OFLFe-2500 P/X/Y/A	43	58	76	1532
ODRD-2350	2350	460/3/60	4" FLANGE	2.8	OFLF-2500 P/X/Y/A	OFLFe-2500 P/X/Y/A	43	58	76	1580
ODRD-2750	2750	460/3/60	6" FLANGE	2.5	OFLF-3800 P/X/Y/A	OFLFe-3800 P/X/Y/A	42	87	76	1980
ODRD-3000	3000	460/3/60	6" FLANGE	2.5	OFLF-3800 P/X/Y/A	OFLFe-3800 P/X/Y/A	42	87	76	2035
ODRD-3600	3600	460/3/60	6" FLANGE	2.5	OFLF-3800 P/X/Y/A	OFLFe-3800 P/X/Y/A	36	89	78	2145
ODRD-4000	4000	460/3/60	8" FLANGE	2.5	OFLF-6500 P/X/Y/A	OFLFe-6500 P/X/Y/A	36	89	78	2420
ODRD-5000	5000	460/3/60	8" FLANGE	2.5	OFLF-6500 P/X/Y/A	OFLFe-6500 P/X/Y/A	61	101	83	3080

- Max. working pressure: 230 psig.
- Max. ambient temperature: 120 °F.
- Max. inlet temperature: 140 °F
- Different voltage options are available.

CORRECTION FACTORS FOR ODRD DRYERS										
Inlet Temperature (°F)	85	90	95	100	110	120	130	140	150	-
X1	1.20	1.14	1.08	1.00	0.75	0.60	0.50	0.45	0.35	-
Ambient Temperature (°F)	60	80	90	100	105	110	115	120	-	-
X2	1.12	1.08	1.06	1.00	0.96	0.9	0.8	0.65	-	-
Pressure (psi)	60	60	75	100	115	125	150	175	200	230
X3	0.75	0.77	0.85	1	1.06	1.1	1.16	1.25	1.3	1.35