



Ozen Desiccant Air Drying Systems

ODHR Heatless Regenerative
Desiccant Air Dryers



ODHR Series Heatless Regenerative Desiccant Air Dryers

ODHR (300-5000 scfm)

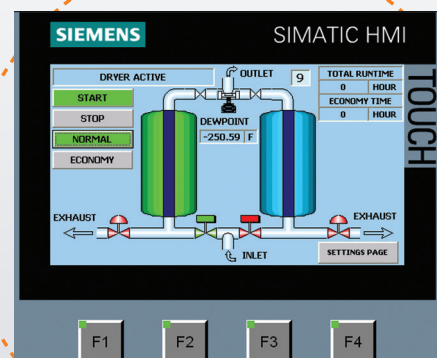


ODHR series heatless desiccant dryers are designed to provide high-quality, dry, compressed air for critical applications such as the oil-gas, food-beverage and pharmaceutical industries. Heatless desiccant dryers that provide a constant dew point of -40°F ensure flawless operation thanks to the reliable electronic controller on board. Equipped with special valves and high-quality desiccant, this series boasts the lowest pressure drop in the industry.

- This is a double-tank system.
- The first tank, which has high hygroscopic impact resistance and a large surface area, separates the moisture from the compressed air.
- The second tank simultaneously performs the drying process with regeneration. The tank with the saturated desiccant is dried with the help of super dry air at atmospheric pressure.
- The rate at which mufflers expel air can be adjusted according to the desired dew-point.
- No heater is used during this process.
- The pressure between the tanks is equalized to prevent desiccant wear.
- The air movements in the tanks are in reverse directions.

PLC control unit

- Dew point indicator
- User-friendly touch screen
- Real time monitoring of both the cycle and the valves
- Multi-language support





Active Alumina

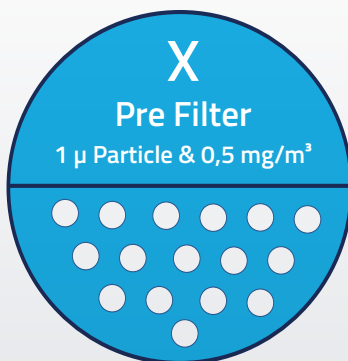
- Fixed dew point with a special mix of desiccants.
- Active alumina or molecular sieve and silica gel, as chosen according to the application.

Technical Specifications

Model	Inlet Flow Rate	Voltage	Coupling Size	Pressure Drop	Max Working Pressure	Dimensions (inch)			Weight
	scfm	V				L	W	H	
ODHR-300	300	115/1/60	1 1/2" NPT	≤2	200	40	24	87	1200
ODHR-400	400	115/1/60	1 1/2" NPT	≤2	200	46	26	88	1350
ODHR-500	500	115/1/60	2" NPT	≤2	200	46	26	88	1460
ODHR-600	600	115/1/60	2" NPT	≤2	200	46	26	88	1790
ODHR-800	800	115/1/60	3" NPT	≤2	200	55	48	105	2150
ODHR-1000	1000	115/1/60	3" NPT	≤2	200	55	48	105	2960
ODHR-1250	1250	115/1/60	3" NPT	≤2	200	60	50	109	3470
ODHR-1500	1500	115/1/60	3" NPT	≤2	200	60	50	109	4180
ODHR-2000	2000	115/1/60	3" NPT	≤2	200	70	62	115	4980
ODHR-2500	2500	115/1/60	4" NPT	≤2	200	70	62	115	5800
ODHR-3000	3000	115/1/60	4" NPT	≤2	200	80	70	120	6400
ODHR-4000	4000	115/1/60	6" NPT	≤2	200	90	80	122	9100
ODHR-5000	5000	115/1/60	6" NPT	≤2	200	98	86	120	11800

- Max. working pressure: 200 psig.
- Nominal working pressure: 100 psi.
- Max. ambient temperature: 120 °F.
- Max. Inlet temperature: 120 °F
- Pressure Dew point -40 °F, optional -100 °F
- Different voltage options are available.

Filter Efficiency Rating



CORRECTION FACTORS FOR ODRD DRYERS													
Pressure (psi)	50	60	70	80	90	100	110	120	130	140	150	175	200
X1	0.56	0.65	0.74	0.83	0.91	1.00	1.06	1.08	1.12	1.16	1.20	1.29	1.37
Inlet Temperature (°F)	70	80	90	100	105	110	115	120	-	-	-	-	-
X2	1.12	1.09	1.06	1	0.93	0.86	0.8	0.75	-	-	-	-	-

- All desiccant dryers are designed according to Pneurop conditions as per ISO7183.