

Refrigerated Air Dryers



effective, efficient & economical
quality without compromise



RD25 - RD1000 (12 sizes)

25 to 1000 scfm / 0.65 to 26.8 m³/min

STERLING
separation

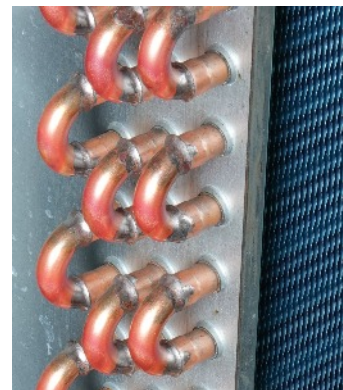
● General characteristics of the dryers



- Complies with all relevant industry and national standards
- Designed for high efficiency and easy maintenance
- Dewpoint range down to 2°C
- Rugged powder-coated exterior finish
- Great accessibility for easy maintenance
- All popular sizes held in stock for immediate delivery

● 3 in 1 aluminium plate fin type heat exchanger

- >5 times transfer area compared to shell/tube type
- Efficient and rapid heat transfer
- Compact size
- Long life guaranteed



● World-standard refrigeration system



- Component brands include Danfoss & Panasonic (model dependent)
- Rugged and fully enclosed
- Low noise & vibration at unobtrusive levels
- Using environmentally friendly R410a, R134a & R407c refrigerants (Model dependent)

● Full feature control system

- High- and low-pressure protection on refrigerant circuit
- Over current, over- & under-voltage protection
- Phase loss and compressor reverse protection
- Optional remote operation support via MODBUS



PREMIUM



Compressed Air Filtration option

AirDry refrigerated dryers can be supplied either with or without **STERLING's** PREMIUM line filters. Select the (F) option, and we'll supply our PREMIUM filters, complete with quality float drain and differential pressure gauge, with the dryer.

For details of these hi-spec filters, please go to <https://www.sterlingsep.com/premium-filtration> to see the video or download brochures



AirDRY specifications and dimensions

Model	Total Input power	Capacity		Compatibility Compressor kW	Product dims (mm)			Package dims (mm)		
		m3/m	scfm		w	d	h	w	d	h
RD25 (F)	0.22	0.65	25	4	400	560	730	580	430	750
RD45 (F)	0.37	1.2	45	7.5	40	560	730	580	430	750
RD90 (F)	0.45	2.5	90	15	520	640	890	660	550	910
RD130 (F)	0.86	3.6	130	22	520	640	890	660	550	910
RD180 (F)	1.1	5	180	22-30	540	700	1000	720	570	1130
RD250 (F)	1.3	6.8	250	37	540	700	1000	720	570	1150
RD320 (F)	1.9	8.5	320	45	610	900	1070	910	650	1200
RD400 (F)	2.9	10.9	400	55	610	900	1070	910	650	1200
RD465 (F)	2.9	12.8	465	55-75	610	900	1070	910	650	1200
RD580 (F)	3.42	16	580	75-90	1170	920	1420	1150	1370	1760
RD800 (F)	3.83	22	800	90-110	1170	920	1420	1150	1370	1760
RD1000 (F)	4.48	26.8	1000	132-160	1170	920	1420	1150	1370	1760

Dryer Selection Tables - according to ISO 7183

Inlet Air Temperature Correction Factor

Inlet Air Temp (°C)	30	35	38	40	45	50	55	60
Change Factor	1.3	1.1	1.0	0.94	0.78	0.64	0.53	0.46

Inlet Pressure Correction Factor - RD25 to RD465 are rated to 16 bar. Larger sizes rated to 10 bar

Inlet pressure (Bar)	4	5	6	7	8	9	10	12	14	16
Change Factor	0.63	0.75	0.88	1.0	1.04	1.07	1.1	1.16	1.22	1.25

Ambient Temperature Correction Factor

Ambient air °C	20	25	30	35	38	40	45	50
Change Factor	1.16	1.12	1.08	1.03	1.0	0.98	0.8	0.7