REFRIGERANT AIR DRYERS



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INSTALLATION TIP



It is recommended to use a filter before the dryer to protect it from contaminants and condensates and increase the service life of internal components of the dryer.

EXTENDED WARRANTY

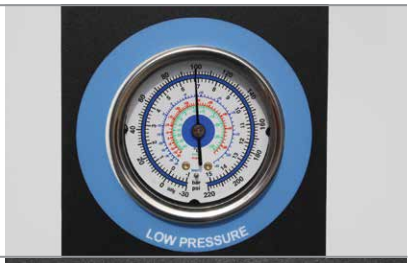
Some dryers (models 49.563 to 49.583) already include the filter. Using the recommended TOPDRY air filter of Series 53 (purchased simultaneously with the air dryer) extends the dryer warranty to 2 years.

General features and benefits

Gauge

The gauge located above the controller facilitates the establishment of a diagnosis in the event of troubleshooting because it allows:

- A rigorous, fast and easy check of refrigerant PSI following the shipment of the dryer
- Controller adjustment without the installation of additional gauges
- To establish a rapid diagnosis without having to open the panels



Microprocessor controller

Equipped with a 3-digit display microprocessor

- Allows to start and stop the compressor and automatic drain timer
- Provides quick and easy reading with the dew point indicator
- Allows to test high and low pressure



Automatic drain with a timer

- Reliable and robust
- Simplifies automatic drain operations with a timer
- Allows adjustable load demand
- Drain is on the back of the refrigerated dryer for easy access without removing panels



Stainless steel heat exchanger

- High capacity built-in moisture separator used for the removal of condensed liquids
- Corrosion resistant for severe and critical environments



REFRIGERANT AIR DRYERS

TOPRING refrigerant air dryers quickly remove condensate to give almost perfectly dry compressed air. The benefits are notable: an improved finished product, fewer system downtime, and maintenance reduced costs



Features and benefits

- Simple, reliable and efficient design
- High quality and corrosion resistant
- User-friendly digital microprocessor displays dew point indicator, high and low pressure and drain operation
- Robust, reliable and fully adjustable timed solenoid drain
- Automatic expansion valve to ensure stable dew point performance even in changing ambient conditions
- Environmentally friendly refrigerant R134a and R407c known for their efficiency and safety

Applications

General manufacturing, air tools, paint shops, body shops, sand blasting operations, food and beverage, plastics and textiles, and chemical industries

Specifications

Maximum Inlet Temperature: 70 °C

Maximum Ambient Temperature: 46 °C

Working Pressure: 0 to 232 PSI

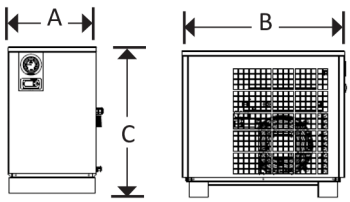
Dew Point: 1 to 4 °C

Refrigerant:
49.502 to 49.532: R134a
49.537 and 49.542: R407c

Power supply:
15V/1 phase/60 Hz except models 49.535, 49.537, 49.540 and 49.542: 230V/1 phase/60Hz

Dryer with 1 micron filter	Dryer	Nominal Flow SCFM*	Inlet/Outlet connection (F) NPT	Dimensions (cm)			Weight kg
Product No				A	B	C	
49.502	49.500	15	1/2	38	38	43	26
49.507	49.505	30	1/2	38	38	43	33
49.512	49.510	45	1/2	38	38	43	36
49.517	49.515	55	3/4	38	38	49	39
49.522	49.520	85	3/4	38	38	49	43
49.524	49.523	110	1	41	74	66	65
49.527	49.525	135	1	41	41	66	66
49.532	49.530	175	1-1/2	41	41	66	70
49.537	49.535	215	1-1/2	41	41	71	90
49.542	49.540	250	1-1/2	41	41	71	102

* At 100 PSIG, 38 °C inlet temperature, 38 °C ambient temperature



PRESSURE CORRECTION FACTORS													
Inlet air pressure (psig)	58	72	87	**100**	115	130	145	160	175	190	204	218	232
Correction factor	0.72	0.82	0.92	**1.00**	1.06	1.09	1.11	1.15	1.18	1.19	1.21	1.23	1.26

INLET TEMPERATURE CORRECTION FACTORS															
Inlet air temperature (°C)	29	32	35	**38**	41	43	46	49	52	54	57	60	63	66	68
Correction factor	1.27	1.19	1.09	**1.00**	0.91	0.78	0.71	0.63	0.56	0.52	0.48	0.44	0.40	0.36	0.33

AMBIENT TEMPERATURE CORRECTION FACTORS						
Ambient temperature (°C)	21	27	32	**38**	41	43
Correction factor	1.18	1.16	1.06	**1.00**	0.96	0.90

CAUTION

To select the proper model or for all other conditions, please contact **TOPRING** or download the "Application worksheet S49" on **TOPRING**.com

REFRIGERANT HIGH TEMPERATURE AIR DRYERS

Equipped with a stainless steel heat exchanger, **TOPRING**'s high temperature refrigerant dryers are specifically designed to be used with reciprocating (piston) compressors ranging from 2 to 25 HP. The high temperature air from the compressor can be directed to the refrigerant dryer while achieving industry standard 10 °C dew point.

They work efficiently and save money on the energy bill.



Features and Benefits:

- Handles very high inlet temperatures
- Energy efficient and low operating costs
- R134a environmentally friendly refrigerant
- High efficiency, air-cooled, oversized refrigerant condenser for high ambient temperature
- Automatic expansion valve to ensure stable dew point performance, even changing the ambient conditions
- Automatic solenoid condensate drain with a fully adjustable and extremely reliable timer
- 1.8 m electrical cord for a quick and easy installation (49.551 to 49.578 models)

Applications

Manufacturing workshops where clean and dry air is very important, automotive mechanics workshops, painting, coating and finishing work, machine tools, sandblasting

Specifications

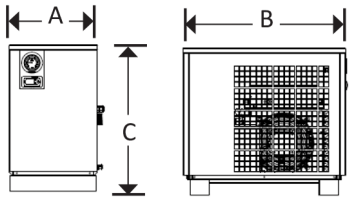
Maximum Inlet Temperature: 70 °C

Working Pressure: 0 to 232 PSI

Dew Point: 10 °C

Refrigerant: R134a

Power Supply:
115V/1 phase/60 Hz except models 49.583 and 49.581: 230V/1 phase/60Hz



Dryer with 1 micron filter Product No	Dryer	Nominal Flow SCFM*	Compressor Power HP	Inlet/Outlet connection (F) NPT	Dimensions (cm) A	B	C	Weight kg
49.553	**49.551**	10	2	1/2	38	46	43	28
49.558	**49.556**	15	3	1/2	38	46	43	32
49.563	**49.561**	25	5	1/2	38	46	43	35
49.568	**49.566**	45	7.5 - 10	3/4	38	51	48	42
49.573	**49.571**	75	15	1	41	74	66	65
49.578	**49.576**	90	20	1-1/2	41	74	66	69
49.583	**49.581**	110	25	1-1/2	41	86	76	89

* At 125 PSIG, 60 °C inlet temperature, 35 °C ambient temperature and a 10 °C outlet pressure dew point.

CAUTION

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