

Compact Air Dryer

SHOE BOX SIZE

Description

The compact air dryer series meets the needs of certain low flow applications where very dry compressed air is required, i.e., atmospheric dew point of minus 50°F or lower. Designed to minimize space, the shoebox size unit is easily installed in tight spaces.

The self-regenerative air dryer can be operated continuously at flow rates ranging from 0-0.5 scfm up to 0-6 scfm at minimum inlet pressures of 80 psig.

Easy installation requires only inlet and outlet air connections and plug-in to an electric outlet.

Applications

- Instrument air systems
- Dental/medical equipment
- Industrial pneumatic controls
- Air bearing systems
- Pneumatic controls in sub-freezing environments
- Air operated vacuum pickups
- Fluidics/MPL controls
- Cryogenics
- Sub-freezing air blow-off jets
- Paint spray guns
- Microwave air guides

Features

Minimum Maintenance – Simplicity of design, few moving parts, self-regenerating desiccant tanks

Instant Dry Air – No warm-up time

Low Dew Point – Down to -100°F

Quiet Operation – Exhaust muffler

Long Life Desiccant – Under normal conditions, the desiccant material does not require replacement

Metal Bowl Guard – Transparent bowls

Electric Plug/Cord – 10 ft. cord with 3-prong plug

Specifications

Inlet Pressure – 80 to 150 psig

Maximum Inlet Temperature – +125°F

Dew Point – minus 50°F @ 80 psig inlet pressure; consult factory for lower dew point applications

Medium – Oil-free compressed air

Output Flow Rate – See chart page 5

Purge Flow – See chart page 5

Air Connections/Inlet and Outlet – 1/4" NPT – Female

Mounting – 4 mounting holes 5/16" dia. Mount unit with tanks vertical and upright only

Dimensions – See chart page 5

Filter Rating –

1557F 0.1 microns

1558F, 1559F 0.01 microns

Prefilter and coalescing filter combination remove liquid water and oil and solid particles from air stream before it enters into dryer module.

Filter Drains –

1557F Manual

1558F, 1559F Automatic

Weight –

1557F 8 pounds

1558F 10 pounds

1559F 12 pounds

Electric Power – 120 volts/60 hz

Electric Connection – 10 ft. cord with 3-prong plug

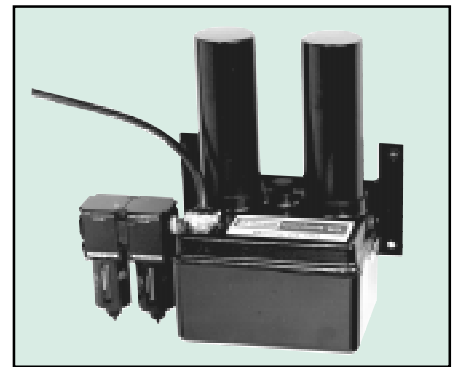
Enclosure Rating – Type 1

Benefits

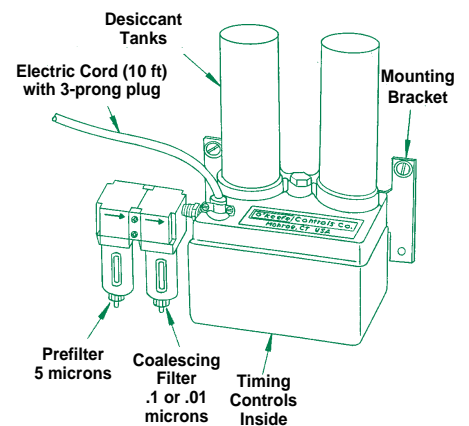
- Pipe rust eliminated
- Longer tool and instrument life
- Drier air than in refrigeration systems
- No heat wasted
- No electrical hazards
- Condensate eliminated
- Water vapor virtually nonexistent



Compact air dryer with 6" desiccant tanks – no filters.

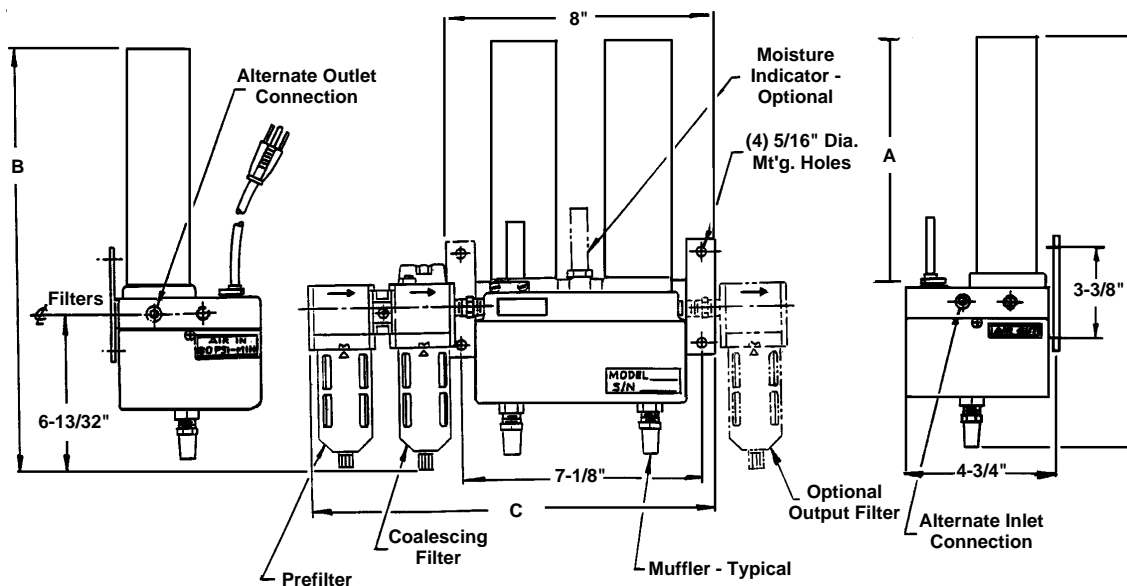


Compact air dryer with 6" desiccant tanks – with prefilter and coalescing filter.



Prefilter and coalescing filters remove solids, liquid water and oil from air stream before it enters into dryer module.

LOW DEW POINT



Dimensions

Part Number	A	B	C	D
OKC-1557 (All)	6"	—	—	11-9/16"
OKC-1558 (All)	9"	—	—	14-9/16"
OKC-1559 (All)	12"	—	—	17-9/16"
OKC-1557F (All)*	6"	10-13/32"	11-1/4"	11-9/16"
OKC-1558F (All)*	9"	15-29/32"	12-13/16"	14-9/16"
OKC-1559F (All)*	12"	18-29/32"	12-13/16"	17-9/16"

Part Numbers

Air Dryer Part Number*	Max Outlet Flow Rate at 80 psig and 70°F	Purge Flow Rate at 80 psig and 70°F	Max System Air Pressure	Dew Point
OKC-1557-1				
OKC-1557-1F	0.5 scfm	0.1 scfm	150 psig	-50°F
OKC-1557-2				
OKC-1557-2F	1.0 scfm	0.2 scfm	150 psig	-50°F
OKC-1557-3				
OKC-1557-3F	1.5 scfm	0.3 scfm	150 psig	-50°F
OKC-1558-1				
OKC-1558-1F	2.0 scfm	0.4 scfm	150 psig	-50°F
OKC-1558-2				
OKC-1558-2F	3.0 scfm	0.6 scfm	150 psig	-50°F
OKC-1558-3				
OKC-1558-3F	4.0 scfm	0.8 scfm	150 psig	-50°F
OKC-1559-1				
OKC-1559-1F	5.0 scfm	1.0 scfm	150 psig	-50°F
OKC-1559-2				
OKC-1559-2F	6.0 scfm	1.2 scfm	150 psig	-50°F

*Dryers with suffix F in part number include prefilter and coalescing filters.

Ordering Information

From the part number chart below left, select an air dryer that will provide the outlet air flow required.

For example

Outlet flow required 2.0 scfm

- Assembly complete with filters; Part Number is OKC-1558-1F
- Assembly without filters; Part Number is OKC-1558-1
- Assembly complete with filters and with moisture indicator; Part Number is OKC-1558-1FM

Optional Moisture Indicator

Add the suffix **M** to the air dryer part number to include the optional moisture indicator. To order the moisture indicator separately, use part number OKC-1739.

Optional Output Filter

Add the suffix **P** to the air dryer part number to include an output filter.

For example

OKC-1558-1FP This assembly is complete with inlet filters and an output filter.

To order the output filter separately, use part number from the chart on page 6.

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REPLACEMENT PARTS

Parts for Compact Air Dryers

Description	Qty.	Part Number
Moisture Indicator 1/4" NPT	1	OKC-1739
Muffler 1/4" NPT	2	OKC-1751
Solid State Timer 120/240 volts 50/60 hz	1	OKC-1752
Solenoid Valve 3-way N.C. 53 VDC (special)	2	OKC-1753-1
Solenoid Valve Repair Kit	2	OKC-1753-2
Solenoid Valve Coil	2	OKC-1753-3
Desiccant Tanks for OKC-1557 (6")	2	OKC-1754-1
Desiccant Tanks for OKC-1558 (9")	2	OKC-1754-2
Desiccant Tanks for OKC-1559 (12")	2	OKC-1754-3
Prefilter Assembly for OKC-1557 (6")	1	OKC-1737-1
Prefilter Cartridge for OKC-1557 (6")	1	OKC-1742-1
Coalescing Filter Assembly for OKC-1557 (6")	1	OKC-1738-1
Coalescing Filter Cartridge for OKC-1557 (6")	1	OKC-1743-1
Prefilter Assembly for OKC-1558 (9")	1	OKC-1737-2
Prefilter Cartridge for OKC-1558 (9")	1	OKC-1742-2
Coalescing Filter Assembly for OKC-1558 (9")	1	OKC-1738-2
Coalescing Filter Cartridge for OKC-1558 (9")	1	OKC-1743-2
Prefilter Assembly for OKC-1559 (12")	1	OKC-1737-2
Prefilter Cartridge for OKC-1559 (12")	1	OKC-1742-2
Coalescing Filter Assembly for OKC-1559 (12")	1	OKC-1738-2
Coalescing Filter Cartridge for OKC-1559 (12")	1	OKC-1743-2
Output Filter Assembly for OKC-1557 (6")	1	OKC-1737-1
Output Filter Cartridge for OKC-1557 (6")	1	OKC-1742-1
Output Filter Assembly for OKC-1558 (9")	1	OKC-1737-2
Output Filter Cartridge for OKC-1558 (9")	1	OKC-1742-2
Output Filter Assembly for OKC-1559 (12")	1	OKC-1737-2
Output Filter Cartridge for OKC-1559 (12")	1	OKC-1742-2