

## INSERT MODULE

### Description

The 311C series air dryer is an insert module intended to be installed within an enclosure. The unit is a self-regenerative compressed air dryer which removes water vapor continuously using a molecular sieve desiccant material. Two stainless steel tanks contain the desiccant. A timer, solenoid valve and two flow control valves sequence the air flow alternately through one tank and then the other. A small amount of purge flow is discharged continuously. A nominal dew point of -50°F is achieved at maximum flow rate; even lower dew point at less than maximum flow. Compressed air supplied to the dryer should be clean (5 microns) and oil-free.

### Specifications

- Inlet Pressure** – 80 to 125 psig
- Maximum Inlet Temperature** – +125°F
- Dew Point** – See chart for typical conditions – page 9. The lower the outlet flow, the lower the dew point.
- Medium** – Oil-free air; filtered to 5 microns
- Output Flow Capacity** – See chart for typical conditions – page 9
- Purge Flow** – See chart for typical purge flow – page 9
- Air Connections** – Inlet and outlet – 1/4" NPT Female
- Mounting** – Mount unit with tanks vertical; four mounting holes
- Dimensions** – 14-3/4" x 12-7/8" x 4" – See drawing page 9
- Electric Motor and Solenoid Valve** – 120 volts/60 hz/  
single phase/15 watts
- Electric Connections** – Terminal strip
- Weight** – Approximately 21 pounds

### Recommended Operation

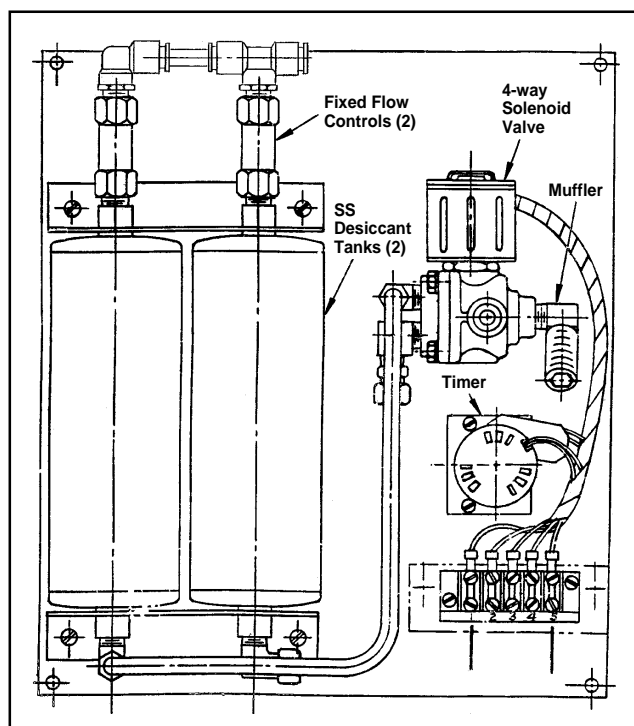
- Install the 311C module in an enclosure to protect against inadvertent contact with electric terminals.
- Always provide clean air to the dryer. Use a prefilter (OKC-730) to remove solid contamination and a downstream coalescing filter (OKC-731) to remove liquid water and oil.
- The dryer can be continuously operated.
- The output air pressure/flow has a momentary pulse as the solenoid valve switches flow (every 30 sec.). To reduce the pulsation, install a check valve and accumulator (see page 13) at the outlet of the air dryer.

### Ordering Information

Part Number	Max Flow Rate (scfm)	Purge Flow Rate (scfm)
	80 psig Supply	80 psig Supply
311C-16	2.0	.35
311C-22	3.4	.68
311C-31	6.0	1.2
311C-39	9.0	1.8
311C-46	13.0	2.6



*311C series air dryer – module for installation in enclosure. Unit is capable of achieving -50°F atmospheric dew point.*



*311C air dryer module has field replaceable components. Unit can be continuously operated.*

# Standard Air Dryer

## FIELD MOUNT

### Description

The 2016 series air dryer employs a solid state timer. Electric connections employ a DIN 43650 connector which is gasketed and protected against inadvertent contact. The unit is a self-regenerative compressed air dryer which removes water vapor continuously using a molecular sieve desiccant material. Two stainless steel tanks contain the desiccant. A timer, solenoid valve and two control valves sequence the air flow alternately through one tank and then the other. A small amount of purge flow is discharged continuously. A nominal dew point of -50°F is achieved at maximum flow rate; even lower dew point at less than maximum flow. Compressed air supplied to the dryer should be clean (5 microns) and oil-free.

### Specifications

**Inlet Pressure** – 80 to 125 psig

**Maximum Inlet Temperature** – +125°F

**Dew Point** – See chart for typical conditions – page 9. The lower the outlet flow, the lower the dew point.

**Medium** – Oil-free air; filtered to 5 microns

**Output Flow Capacity** – See chart for typical conditions – page 9

**Purge Flow** – See chart for typical purge flow – page 9

**Air Connections** – Inlet and outlet – 1/4" NPT Female

**Mounting** – Mount unit with tanks vertical; four mounting holes

**Dimensions** – 14-3/4" x 12-7/8" x 4" – See drawing page 9

**Electric Timer and Solenoid Valve** – 120 volts/60 hz/  
single phase/15 watts

**Electric Connections** – DIN 43650 (see optional cord below)

Mating connector only – P/N OKC-2034

**Weight** – Approximately 21 pounds

### Recommended Operation

- The 2016 series air dryer has protected electrical connections and can be field mounted.
- Always provide clean air to the dryer. Use a prefilter (OKC-730) to remove solid contamination and a coalescing filter (OKC-731) to remove liquid water and oil.
- The dryer can be continuously operated.
- The output air pressure/flow has a momentary pulse as the solenoid valve switches flow (every 30 sec.). To reduce the pulsation, install a check valve and accumulator (see page 13) at the outlet of the air dryer.

### Ordering Information

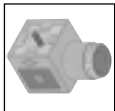
Part Number	Max Flow Rate (scfm)	Purge Flow Rate (scfm)
	80 psig Supply	80 psig Supply
OKC-2016-16	2.0	.35
OKC-2016-22	3.4	.68
OKC-2016-31	6.0	1.2
OKC-2016-39	9.0	1.8
OKC-2016-46	13.0	2.6

#### Optional Cord P/N OKC-822

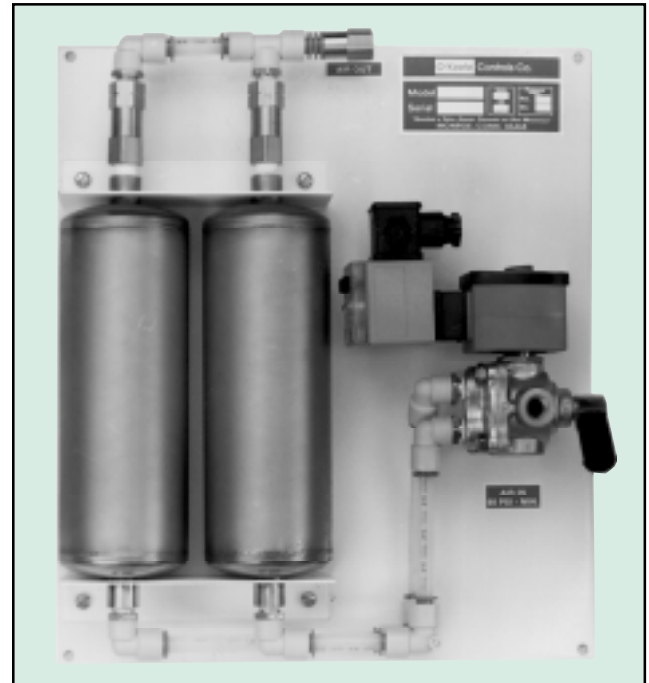


A six foot long cord with a 3-prong plug for 120 volts/60 hz has a DIN connector for attaching to the timer.

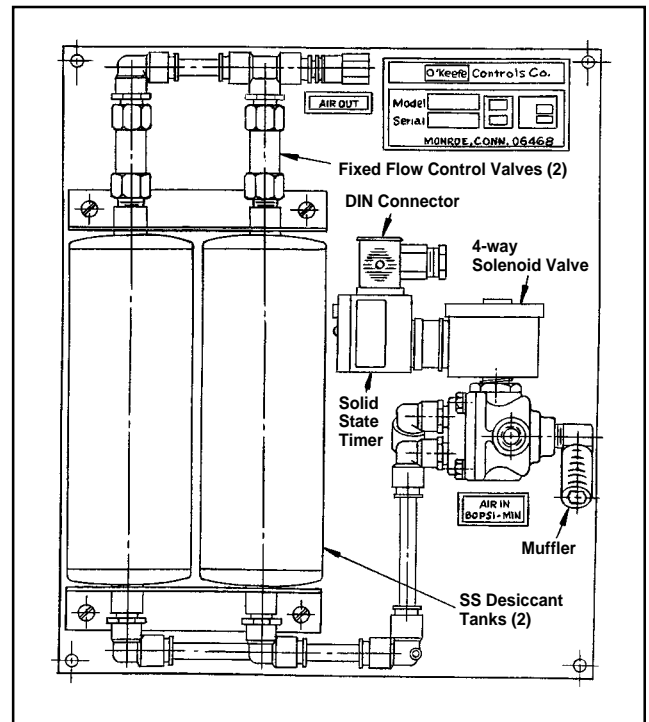
#### Optional DIN Connector P/N OKC-2034



Connector attaches to timer. Customer supplied 3-wire cord attaches to screw terminals in connector.



*Field mount air dryer has gasketed and protected electrical connections.*

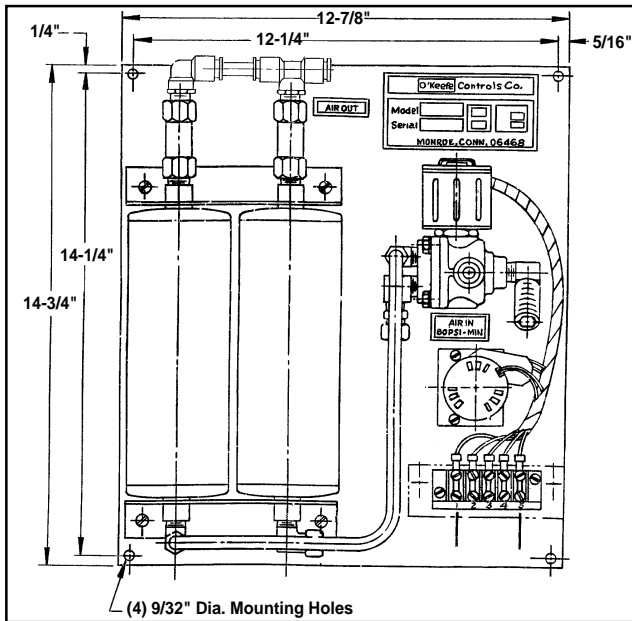


*All major components of the 2016 series air dryers are easily replaced.*

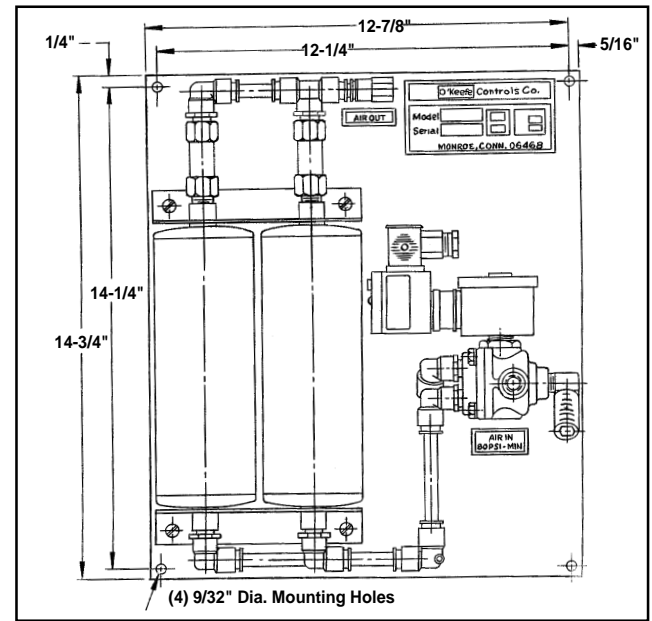
# Standard Air Dryer

## SPECIFICATIONS

### Insert Module



### Field Mount



### Operating Conditions for Standard Air Dryer

Model 311C, 2016	-16	-22	-31	-39	-46
Inlet pressure – PSIG	80	80	80	80	80
Inlet temperature – °F	70	70	70	70	70
Purge Flow – SCFM	.35	.68	1.2	1.8	2.6
Outlet Flow – SCFM	2.0 1.4 1.2	3.4 2.7 2.2	6.0 4.8 4.0	9.0 7.2 6.0	13.0 10.4 8.8
Atmos. Dew Point – °F	-50 -60 -65	-50 -60 -65	-50 -60 -65	-50 -60 -65	-50 -60 -65
Dew Point @ 80 PSIG – °F	-18 -30 -35	-18 -30 -35	-18 -30 -35	-18 -30 -35	-18 -30 -35

### Parts for Standard Air Dryers

Description	Qty/Air Dryer	Part Number
Timer for 311C Series	1	OKC-781
Timer for 2016 Series	1	OKC-2032
Solenoid Valve for 311C Series	1	OKC-779
Solenoid Valve for 2016 Series	1	OKC-2033
Muffler for 311C, 2016 Series	1	OKC-780
Desiccant Tank for 311C, 2016 Series	2	OKC-777
<b>Flow Control Valves for 311C, 2016 Series:</b>		
311C-16, OKC-2016-16	2	Y4F-16-BR-DE
311C-22, OKC-2016-22	2	Y4F-22-BR-DE
311C-31, OKC-2016-31	2	Y4F-31-BR-DE
311C-39, OKC-2016-39	2	Y4F-39-BR-DE
311C-46, OKC-2016-46	2	Y4F-46-BR-DE
Din Connector for 2016 Series	1	OKC-2034