

Z-Series

Limited Space Applications

Air Sentry® Z-Series breathers are designed for applications where space is limited or air flow requirements are below 10 cubic feet per minute (cfm). The Z-Series breather is typically used on gearbox applications and has been proven to work well on low fluid volume applications where mounting space is limited or where a larger breather won't fit without remote mounting.



Typical applications include:

- GEARBOXES
- DRUMS
- TOTES
- SMALL OIL CONTAINERS

The VaporSentry™ is an oil coalescing adapter which is designed to work in conjunction with the Z-Series breather. It is only necessary to use it if there is excessive oil mist coming from the gearbox. VaporSentry's design utilizes a finned surface area to collect oil fumes from the gearbox, turn those fumes into heavier droplets, and gravity drain them back into the gear box. This helps block oil fumes from entering the breather and interrupting the moisture adsorbing properties of the silica gel.



Sizing Information

Model	Height in. (cm)	Diameter in. (cm)	Mounting Connection	Weight lbs. (g)	Water Capacity fl.oz (mL)	Maximum Air Flow cfm	Maximum Reservoir Fluid Flow gpm	Type of Medium
Z-131	2 (.51)	2 (.51)	½ inch female NPT	0.15 (68)	0.5 (15)	10	75	100% Silica Gel
Z-132	3.25 (8.3)	2 (.51)	½ inch female NPT	0.2 (91)	0.9 (27)	10	75	100% Silica Gel
Z-133	2 (.51)	3.25 (8.3)	½ inch female NPT	0.5 (227)	1.6 (47)	10	75	100% Silica Gel
Z-134	3.25 (8.3)	3.25 (8.3)	½ inch female NPT	0.8 (363)	2.8 (83)	10	75	100% Silica Gel
Z-135	5.5 (14.0)	3.25 (8.3)	½ inch female NPT	1.2 (544)	2.0 (59)	10	75	100% Silica Gel
Z-231	2 (.51)	2 (.51)	½ inch female NPT	0.13 (59)	—	3	22	100% Activated Carbon
Z-232	3.25 (8.3)	2 (.51)	½ inch female NPT	0.18 (82)	—	3	22	100% Activated Carbon
Z-233	2 (.51)	3.25 (8.3)	½ inch female NPT	0.3 (136)	—	3	22	100% Activated Carbon
Z-234	3.25 (8.3)	3.25 (8.3)	½ inch female NPT	0.4 (181)	—	3	22	100% Activated Carbon

CASE STUDY



It isn't unusual to change oil every two to three months in paper mill gearboxes, and sumps because the air contains large amounts of water and particulates. With a standard vent cap or air filter, these contaminants quickly enter the fluid reservoir leading to dirty oil that won't adequately lubricate. When one paper mill started using Air Sentry® breathers on gearboxes, sumps, hydraulic reservoirs, and lubrication systems, they were able to extend oil change intervals to 12 to 15 months. The benefits include not only longer oil life but also reduced downtime to change the oil.