

## Compressed Air Dryer

# Membrane Dryer with optional Purge Saver



### Simplicity in drying

KAESER Modular Membrane (KMM) dryers provide a simple and reliable way to dry compressed air to dew points as low as -40°F and reduce maintenance costs. KMMs keep moisture from ruining paint jobs, clogging sandblasters, and fouling pneumatic instruments, valves, and controls.

### Operation

Compressed air, saturated with water vapor, flows through a bundle of parallel, tube-shaped membranes. As the compressed air passes along the length of the bundle, water vapor passes through the membrane, dehydrating the compressed air. The

separated water vapor is then purged from the membrane bundle housing with a stream of the dried air and exits to atmosphere through a port in the bottom of the housing.

### Automatic Purge Saver control

The KAESER Automatic Purge Saver (PS) valve prevents the unnecessary loss of valuable compressed air. The PS valve is strategically located to automatically stop the flow of purge air while maintaining pressure on the membrane tubes and keeping the bundle housing at atmospheric pressure. This design not only saves energy and purge air, it also extends the life of the membrane bundle by preventing

the excessive flexing of the membrane material that results from pressurizing and depressurizing the dryer. The Purge Saver valve can be actuated by an external signal, such as the air compressor unload signal or from a device no longer demanding air.

### Easy installation

The modular design of the KMM makes installation easy. The KMM is lightweight, so no support is needed other than the piping. The KMM requires no electricity unless it has the Purge Saver and because water is removed as a vapor, no condensate drain is needed.

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### Standard Features:

- Space-saving modular design mates easily to prefilters
- No after-filter required
- Inside-to-outside permeation allows tight control of purge flow rate
- Replaceable membrane bundles combine convenience and simplicity
- Welded aluminum housings are lightweight and rugged
- Powder coating inside and out for excellent corrosion resistance

### Optional equipment:

- Purge Saver (shown at left)
- Pre-filter packages
  - Single pre-filter
  - Dual pre-filters (shown at left)

# Technical Specifications

Table 1: Rated Capacity (scfm) @ 100 psig

Model	Inlet Temp (°F)	Outlet Dew Point (°F)			
		40	20	-20	-40
KMM 1-3	40	Inlet	—	1.07	0.81
	40	Outlet	—	0.88	0.62
	60	Inlet	—	1.62	0.90
	60	Outlet	—	1.43	0.71
	100	Inlet	1.39	1.08	0.67
	100	Outlet	1.20	0.89	0.48
KMM 2-3	40	Inlet	—	3.56	2.75
	40	Outlet	—	2.96	2.15
	60	Inlet	—	5.24	3.02
	60	Outlet	—	4.64	2.42
	100	Inlet	4.55	3.60	2.34
	100	Outlet	3.95	3.00	1.74
KMM 3-4	40	Inlet	—	7.21	5.38
	40	Outlet	—	5.89	4.06
	60	Inlet	—	11.09	5.98
	60	Outlet	—	9.77	4.66
	100	Inlet	9.47	7.29	4.47
	100	Outlet	8.15	5.97	3.15
KMM 4-4	40	Inlet	—	10.83	8.46
	40	Outlet	—	9.05	6.68
	60	Inlet	—	15.72	9.24
	60	Outlet	—	13.94	7.46
	100	Inlet	13.69	10.94	7.22
	100	Outlet	11.91	9.16	5.44
KMM 5-6	40	Inlet	—	18.4	13.3
	40	Outlet	—	15.1	10.0
	60	Inlet	—	28.4	15.0
	60	Outlet	—	25.1	11.7
	100	Inlet	24.3	18.6	10.7
	100	Outlet	21.0	15.3	7.4
KMM 6-6	40	Inlet	—	32.4	25.3
	40	Outlet	—	27.3	20.2
	60	Inlet	—	46.2	27.7
	60	Outlet	—	41.1	22.6
	100	Inlet	40.5	32.7	21.5
	100	Outlet	35.4	27.6	16.4
KMM 7-8	40	Inlet	—	48.6	33.7
	40	Outlet	—	39.0	24.1
	60	Inlet	—	79.2	38.6
	60	Outlet	—	69.6	29.0
	100	Inlet	66.6	49.3	26.2
	100	Outlet	57.0	39.7	16.6

Specifications are subject to change without notice.



Built for a lifetime.

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