



Refrigerated Air Dryers

MS Series

Refrigerated Air Dryers

Compressed air users around the world have relied on KAESER to provide innovative compressed air treatment solutions for critical applications. KAESER maintains a long standing reputation for manufacturing products that deliver superior performance, time proven reliability and optimal energy savings. KAESER is the preferred choice for providing clean, dry compressed air for the most challenging industries.

Compressed air contains ingested and generated contaminants in a solid particulate form, extraneous oils and water vapor. If untreated, the air will adversely affect pneumatically operated components and equipment. KAESER refrigerated air dryers are recognized for reliable, effective and efficient contaminant removal systems.

MS Series

The MS series are optimized air dryers for hot and humid climate in the tropical regions. An advanced stainless steel brazed plate heat exchanger is applied, and it deters refrigeration load with great efficiency of heat-transfer. The innovative and simplified refrigeration circuit provides reliable operation, low operating cost and versatile installation.

Feature

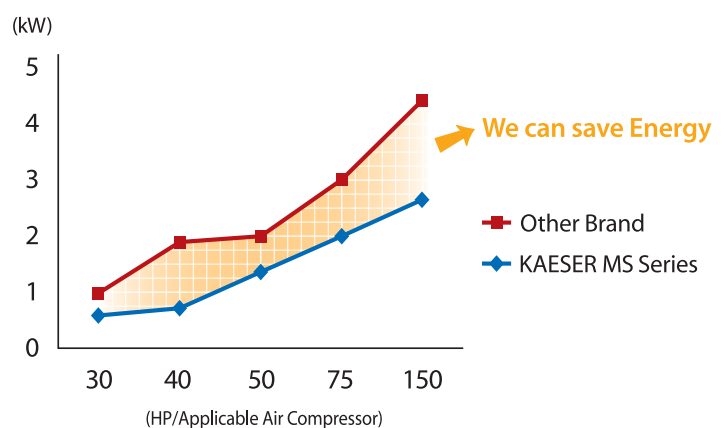
- Optimized for hot and humid climate in the tropical regions
- Stainless steel brazed plate heat exchangers optimize heat transfer and service life
- Separator, re-heater and evaporator combined into 1 compact efficiency unit
- Improved ventilation by up-flow cooling air design
- Low pressure drop reduces operating costs
- Low power consumption
- Easy to install package saves time and money
- Environmentally friendly R-134a & R-407C refrigerants

* 5 Year Warranty Program

Stainless Steel Brazed Plate Heat Exchanger

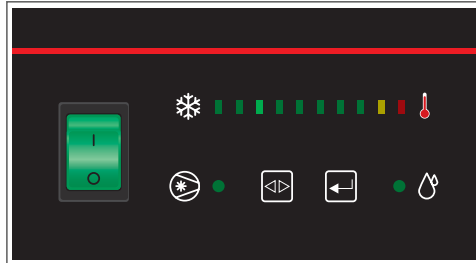
- High & consistent quality (counter-current flow)
- Larger heat transfer surface area
- Consistent dew point
- Minimized air pressure drop due to the minimum piping
- No moisture carry over
- Patented design
USA, EU, China, Japan, Korea






* Power Consumption Comparison





User Friendly Digital Control Board II

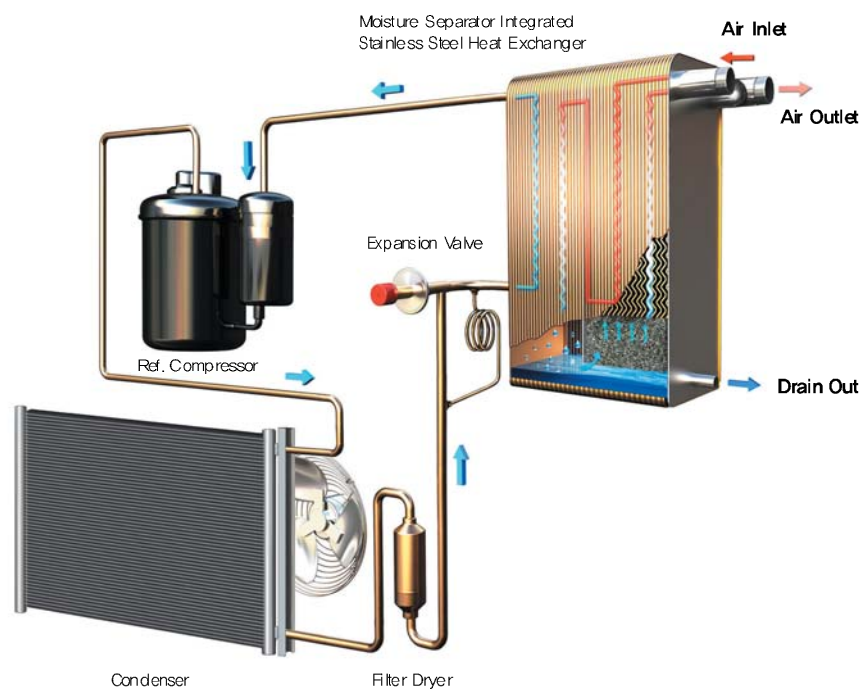


-  : Dewpoint Temperature Indicator
-  : Compressor On Light
-  : Selection
-  : Drain Push-to-Test
-  : Condensate Draining



How It Works

Warm, saturated compressed air enters the air to air heat exchanger and is cooled by the exiting air. The precooled air then enters the air to refrigerant heat exchanger and is further chilled causing water vapor to condense. Condensed moisture is collected from the air stream by an integral separator with stainless steel demister. Liquid condensate is removed from the separator by an automatic timer. Cold air is then reheated in the air to air heat exchanger to eliminate sweating on the downstream pipe line. Clean, dry air exits the dryer and is now qualified for use of purpose.



MS Series Specifications

Model	Flow Capacity (Nm ³ /min)	Unit (kW)	Power Supply	Inlet/Outlet Connections (PT)	Weight (kg)	Dimensions(mm)			Refrigerants
						H	W	D	
MS 2.4	2.41	0.52	220~240V 1PH 50Hz	1"	50	641	363	881	R-134a
MS 3.1	3.11	0.59		1"	52	641	363	881	R-134a
MS 4.2	4.25	0.71		2"	67	761	443	931	R-407C
MS 6.8	6.80	1.36		2"	77	761	443	1031	R-407C
MS 10.4	10.48	2.00		2"	97	811	493	1111	R-407C
MS 12.7	12.74	2.38		2"	100	811	493	1111	R-407C
MS 15.0	15.00	2.66		2"	128	811	553	1211	R-407C

* Standard rated condition : 50°C inlet air temperature, 7.0 barG inlet pressure, 100% relative humidity, 35°C ambient air temperature, 50Hz

* Max. / Min. inlet pressure : 16 barG / 3 barG, Max. / Min. inlet air temperature: 65°C / 4°C, Max. / Min ambient air temperature: 50°C / 4°C

Capacity Correction Factors

Table 1.

Inlet Air Pressure(barG)	4	5	6	7	8	9	10	13	16
Factor	0.75	0.84	0.92	1.00	1.03	1.07	1.09	1.18	1.23

Table 2.

Inlet Air Temperature(°C)	40	45	50	55	60	65
Factor	1.15	1.08	1.00	0.83	0.70	0.60

Table 3.

Ambient Air Temperature(°C)	25	30	35	40	43	50
Factor	1.20	1.06	1.00	0.75	0.60	0.45

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Some specifications in this bulletin may change without notice.

