

NON CYCLING REFRIGERATED DRYERS

MOJAVE SERIES

SIZES RANGE 10 - 480 SCFM

FEATURES:

- High efficient compact aluminum heat exchanger
- DMC15 controller allows operator to view the dew point and set the condensate drain valve cycle times and fan cycling on and off for low ambient conditions
- Hot Gas Bypass valve allows for a constant dew point of 37 degrees
- Environmentally Friendly refrigerants are used R134A & R407C



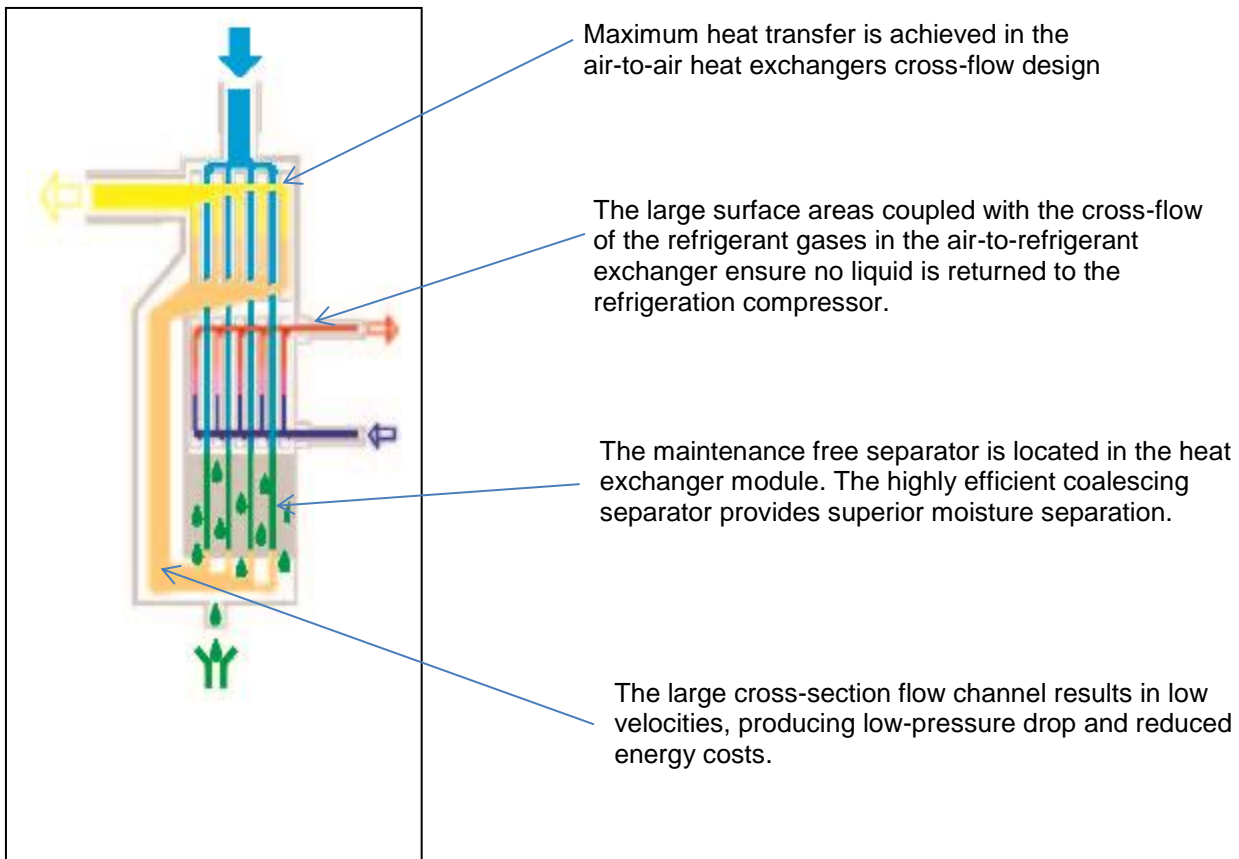
EXPERIENCE THE MOJAVE DRY AIR

Reducing Energy Consumption Through Technology.

The **MOJAVE SERIES** dryers feature a new aluminum cooling technology heat exchanger module. The heat exchanger produces a low pressure drop resulting in energy dollar savings. Application of the “Constant Pressure By-Pass Valve” delivers a steady Dew Point over all load variations. The cabinetry is state of the art in design, providing a compact foot print with easy to remove panels. All units include an integrated timed condensate drain.

MOJAVE MODULE

The unique design of the aluminum cooling technology heat exchanger combines the air-to-air, air-to-refrigerant and the demister condensate separator.



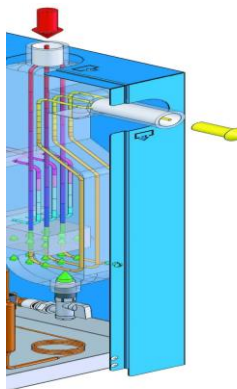
EXPERIENCE THE MOJAVE DRY AIR



The DMC15 controller monitors the function of the air dryer. It allows the operator to view dryer operation from the digital display. The DMC15 provides a test button and setting control for the condensate drain operation and the condenser fan motor can be adjusted to cycle off for low ambient conditions.



A unique constant pressure hot gas by-pass valve allows the evaporator to be set at 35°F and not freeze up regardless of flow. Preset and calibrated at the factory, the valve never needs adjusted in the field, resulting in a simpler maintenance.



The condensate is discharged from the heat exchanger by an electric time drain that is controlled from the DMC15 controller. Drain open times are adjustable between 1 to 10 seconds and the closed time is adjustable between 1 to 10 minutes. A manual push to test makes checking the condensate drain operation quick and simple.

TECHNICAL SPECIFICATION

MOJAVE

Standard rating condition:

Ambient temperature of 100°F, with inlet air at 100 psig and a pressure dew point of 39° to 41°F.

Minimum ambient temperature 34°F, Maximum operating ambient temperature 115°F

Maximum inlet temperature is 130°F

Maximum operating pressure 200 psig

MODEL	SCFM	CONNECTION	VOLTAGE	AMPS	REFRIGERANT	DIMENSIONS L x W x H	WEIGHT
MS10	10	3/8" NPT-F	115/60/1	2.5	R134A	12" x 12 3/16" x 17 1/8"	46
MS15	15	3/8" NPT-F	115/60/1	2.6	R134A	12" x 12 3/16" x 17 1/8"	48
MS20	20	1/2" NPT-F	115/60/1	2.7	R134A	18 11/16" x 14 9/16" x 18 11/16"	55
MS35	35	1/2" NPT-F	115/60/1	3.2	R134A	18 11/16" x 14 9/16" x 18 11/16"	62
MS50	50	1/2" NPT-F	115/60/1	3.4	R134A	18 11/16" x 14 9/16" x 18 11/16"	70
MS75	75	1" NPT-F	115/60/1	5.1	R134A	15 3/8" x 13 9/16" x 29 1/8"	75
MS100	100	1 1/4" NPT-F	115/60/1	8.0	R134A	16 5/16" x 13 9/16" x 29 1/8"	86
MS125	125	1 1/4" NPT-F	115/60/1	7.6	R407C	16 5/16" x 13 9/16" x 29 1/8"	88
MS150	150	1 1/4" NPT-F	115/60/1	7.7	R407C	16 5/16" x 13 9/16" x 29 1/8"	110
MS175	175	1 1/2" NPT-F	115/60/1	7.7	R407C	22 3/16" x 21 7/8" x 34 3/16"	119
MS220	220	1 1/2" NPT-F	230/1/60	5.2	R407C	22 3/16" x 21 7/8" x 34 3/16"	123
MS300	300	2" NPT-F	230/1/60	5.9	R407C	24 5/8" x 21 7/8" x 38 3/8"	207
MS375	375	2" NPT-F	230/1/60	9.1	R407C	24 5/8" x 21 7/8" x 38 3/8"	212
MS480	480	2 1/2" NPT-F	230/1/60	9.4	R407C	28 9/16" x 26 3/16" x 43 1/2"	317

CORRECTION FACTORS FOR INLET AIR PRESSURE CHANGES								
INLET AIR PRESSURE	60	80	100	120	140	160	180	200
FACTOR (F1)	0.79	0.91	1	1.07	1.13	1.18	1.23	1.27

CORRECTION FACTORS FOR AMBIENT TEMPERATURE CHANGES								
AMBIENT TEMPERATURE	80	90	95	100	105	110	115	*
FACTOR (F2)	1.1	1.07	1.04	1	0.93	0.83	0.75	*

CORRECTION FACTORS FOR INLET AIR TEMPERATURE CHANGES								
INLET AIR TEMPERATURE	90	100	110	122	130	*	*	*
FACTOR (F3)	1.1	1.07	1.04	1	0.93	*	*	*

CORRECTION FACTORS FOR DEWPOINT CHANGES								
DEWPOINT	38	41	45	47	50	*	*	*
FACTOR (F4)	0.92	1	1.07	1.16	1.25	*	*	*

How to find Air Flow Capacity: MODEL SCFM x F1 x F2 x F3 x F4

Based on the following conditions. 75 scfm x inlet pressure 80 psig x ambient temperature 90 x inlet air temperature 122 x dewpoint temperature 38F.

Example: 75 scfm x 0.91 x 1.07 x 1 x 0.92 = 67.18 scfm

Model MS75 would be the selected air dryer based on the following conditions.

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