

**MCT**

REFRIGERATED AIR DRYERS



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### Refrigerated Air Dryers

#### Clean dry compressed air

Clean and dry compressed air is essential in every efficient and profitable manufacturing and process operation worldwide. Our vast experience includes food, beverage, chemical, laboratory, medical and natural gas applications.

Mattei understand your needs and carries the MCT range of high-performance, energy-saving compressed air and gas purification products to provide clean and dry compressed air and gases at an affordable price with unrivaled reliability.

In industries where precise control of compressed air moisture is crucial, cycling refrigerated dryers are essential. These dryers adjust their cooling capacity to match real-time requirements, optimizing energy usage and ensuring efficiency even during fluctuating operating conditions. This adaptability enhances equipment longevity and minimizes energy consumption, leading to significant cost savings over time. Check out Mattei's new range of MCT Thermal Mass Cycling Refrigerated Dryers for enhanced power savings!



#### SIMPLY SUPERIOR

Refrigeration dryers must be designed to handle the worst case operating condition they may encounter - the highest possible inlet temperature of the hottest day of the year.

Mattei MCT refrigerated air dryers are built with this in the mind to provide years of reliable service.

- Unique, glycol thermal mass treats the compressed air according to actual flow saving energy and money while the intermediate thermal mass delivers a flow of cold liquid to ensure a consistent compressed air outlet dew point.



- Compact, plug and play design helps to optimize the use of often times limited industrial space.
- Energy efficient and reliable rotary piston compressors
- Patented 5-in-1 heat exchanger comprised of air to air exchanger and an air to glycol exchanger provide a consistent dew point performance while maintaining a low pressure dew point.

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**SIMPLE TO USE DIXELL™ DIGITAL MICROPROCESSOR FEATURES DEW POINT TEMPERATURE**



**ENERGY EFFICIENT AND RELIABLE ROTARY PISTON COMPRESSORS**



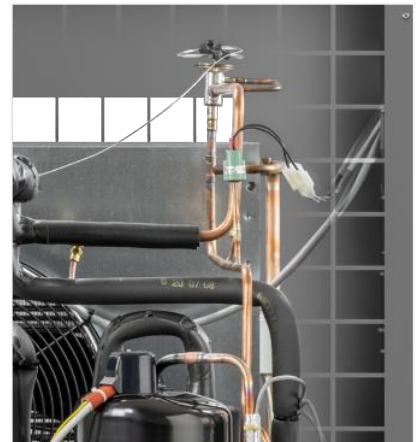
**USES R513A OR R410A ENVIRONMENTALLY FRIENDLY REFRIGERANTS WITH ZERO OZONE DEPLETION POTENTIAL.**



**ENERGY SAVING DRAIN STANDARD - ZERO AIR LOSS DRAIN PREVENTS THE LOSS OF VALUABLE COMPRESSED AIR.**



**MICROCHANNEL CONDENSER IMPROVES SYSTEM PERFORMANCE BY USING 40-60% LESS REFRIGERANT.**



**HOT GAS BYPASS VALVE - ENSURES STABLE PRESSURE DEW POINT AND ELIMINATES THE POSSIBILITY OF CONDENSATE FREEZING (MODELS MCT 130 AND ABOVE).**

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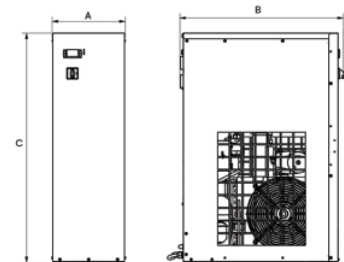
MODEL	INLET & OUTLET CONNECTIONS	RATED FLOW <sup>(1)</sup>	REFRIGERANT GAS	ABSORBED POWER <sup>(2)</sup>	DIMENSIONS (INCH)			APPROX WEIGHT	POWER SUPPLY (V/PH/60HZ)		
					A	B	C				
MCT	NPT	scfm		kW	inch	inch	inch	lbs	115/1	230/1	460/3
MCT 30	½" (F)	30	R513A	0.44	12.4	29.4	39.1	121	•		
MCT 55	½" (F)	55	R513A	0.78	12.4	29.4	39.1	132	•		
MCT 75	1 ¼" (F)	75	R513A	0.83	12.4	29.4	39.1	154	•		
MCT 105	1 ¼" (F)	105	R513A	1.1	12.4	29.4	39.1	165	•		
MCT 130	1 ½" (F)	130	R410a	1.0	20.0	34.0	49.5	396	•		
MCT 170	1 ½" (F)	170	R410a	1.1	20.0	34.0	49.5	396	•		
MCT 200	1 ½" (F)	200	R410a	1.3	20.0	34.0	49.5	418		•	
MCT 265	1 ½" (F)	265	R410a	1.9	20.0	34.0	49.5	418		•	
MCT 320	2" (F)	320	R410a	2.5	31.5	43.0	54.8	715			•
MCT 400	2" (F)	400	R410a	3.0	31.5	43.0	54.8	715			•
MCT 510	2 ½" (F)	510	R410a	3.7	31.5	43.0	54.8	737			•
MCT 635	2 ½" (F)	635	R410a	4.7	31.5	43.0	54.8	737			•

SPECIFICATIONS	
Design operating pressure range	0 to 210 psig
Maximum inlet temperature	140°F
Maximum ambient temperature	115°F

PRESSURE CORRECTION FACTORS <sup>(3)</sup>								
Inlet air pressure	psig	87	100	116	130	145	188	210
Correction factor		0.97	1.00	1.03	1.06	1.07	1.12	1.20

AMBIENT TEMPERATURE CORRECTION FACTORS <sup>(3)</sup>						
Ambient temperature	°F	77	86	95	100	113
Factor		1.10	1.06	1.02	1.00	0.93

INLET TEMPERATURE CORRECTION FACTORS <sup>(3)</sup>									
Inlet air temperature	°F	77	86	95	100	113	122	131	140
Factor		1.14	1.09	1.03	1.00	0.80	0.67	0.53	0.40



MCT 30 - MCT 635

(1) Rated flow capacity for rating dryers are in accordance with ISO7183 (Option A2.) Compressed air at dryer inlet: 100 psig and 100°F; ambient air temperature: 100°F; operating on 60 Hz power supply. (2) Nominal absorbed power at rating operating conditions using 115/1/60 or 230/1/60 or 460/3/60 power supply (as applicable). (3) To be used as a rough guide only. All applications should be confirmed by Mattei. Contact Mattei for sizing assistance.



[www.matteigroup.com/en-us/](http://www.matteigroup.com/en-us/)

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