

E Series

Refrigeration Air Dryers

(100 - 625 scfm)



E Series Dryers combine the newest technology in heat transfer with Parker Airtek's proven refrigeration system. Designed to provide the best combination of performance and economy, the E Series Dryer is the best choice when initial cost and/or space constraints are part of the decision making process. Available in models from 100 to 625 scfm, Parker Airtek quality and performance are inherent in the E Series design and manufacturing process.

The E Series Dryer incorporates an integrated heat exchanger with Micro Mesh™ separator which enables the package to be built on a smaller foot print.

All components are housed in a rugged powder coated cabinet to complete the package. When your application requires economic value with Parker Airtek's proven performance and reliability, E Series is the right choice.



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Standard Equipment:

- R-134A Refrigerant
- Micro Mesh™ Separator
- Hot Gas Bypass Valve
- Expansion Valve
- Crankcase Heater (200-625 scfm)
- Scroll Compressor (500-625 scfm)
- High/Low Refrigerant Pressure Shutdown (100-625 scfm)
- Fan Cycling Switch
- Timed Drain with ISO Strainer
- Power On Light
- Start/Stop Switch
- High Evaporator Temperature Light
- Dryer Run Light



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Product Selection

			Dimensions				
Model	Capacity @ 39°F DP scfm	Ref HP	Length Inches (mm)	Width Inches (mm)	Height Inches (mm)	Weight Lbs. (Kg.)	Connections In Out Inch (FNPT)
E-100	100	1/2	21" (533)	22 5/8" (575)	25" (635)	123 (56)	1 1/2"
E-125	125	3/4	21" (533)	22 5/8" (575)	25" (635)	151 (59)	1 1/2"
E-150	150	3/4	21" (533)	22 5/8" (575)	25" (635)	176 (80)	1 1/2"
E-200	200	1 1/2	29" (737)	25 1/4" (641)	35 1/2" (902)	194 (88)	1 1/2"
E-250	250	1 1/2	29" (737)	25 1/4" (641)	35 1/2" (902)	201 (91)	1 1/2"
E-325	325	1 1/2	29" (737)	25 1/4" (641)	35 1/2" (902)	219 (98)	2"
E-400	400	2	45 1/2" (1156)	27 3/4" (705)	35 1/2" (902)	358 (162)	2"
E-500	500	3 1/2	45 1/2" (1156)	27 3/4" (705)	35 1/2" (902)	363 (165)	2"
E-625	625	3 1/2	45 1/2" (1156)	27 3/4" (705)	35 1/2" (902)	370 (168)	2"

Air Flow Correction Factors

Capacity correction factors to be used when operating conditions differ from those shown above.
To obtain dryer capacity at new conditions multiply nominal capacities x A x B x C.

A Inlet Air Pressure Correction						
psig	50	75	100	125	150	
	barg	3.5	5.2	6.9	8.6	10.3
Factor	0.8	0.9	1	1.02	1.05	

B Ambient Air Temperature Corrections						
Temp °F	90	100	110	-	-	
	°C	32	38	43	-	-
Factor	1.05	1	0.9	-	-	

C Inlet Air Temperature Correction						
Temp °F	80	90	100	110	120	
	°C	27	32	38	43	49
Factor	1.5	1.22	1	.83	.69	

Example Condition
E Series 500 Corrected For: Inlet pressure. 125 psig / 8.6 barg Inlet Temperature 120° F / 49°C Ambient Temperature . . . 110°F / 43°C

Example Calculations
Corrected Capacity = Standard Capacity x (A) x (B) x (C) = 520 scfm (13.0 Nm ³ /min) = 329 scfm (8.8 Nm ³ /min)

Filters		
Model	Pre Filter	After Filter
E100	JC0100-F	JC0100-C
E125	JC0150-F	JC0150-C
E150	JC0250-F	JC0250-C
E200	JC0250-F	JC0250-C
E250	JC0350-F	JC0350-C
E325	JC0350-F	JC0350-C
E400	JC0450-F	JC0450-C
E500	JC0625-F	JC0625-C
E625	JC0625-F	JC0625-C

NOTICE - The equipment indicated in this Catalog is meant for use in operating "compressed air driven" apparatuses. At no time should any listed equipment be used for breathing air situations unless all government regulations regarding breathing air are met. PATENTS - Equipment listed in the Catalog are manufactured under one of more of the following U.S. Patent: 7,481,073 7,475,556 7,395,678 6,099,620 5,207,072 5,099,655 5,062,571 Airtek®, Cold Trap®, StarWatch® and PowerLoc® are Registered Trademarks of Parker-Hannifin Corporation (Airtek Division) © 2009 Parker-Hannifin, PDF Division, Lancaster, New York - Printed in U.S.A.



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