

KE-MT Large Flow Heatless Adsorption Dryers

Dryer Performance

Dryer Models	Dewpoint (Standard)		ISO8573-1:2010 Classification (Standard)	Dewpoint (Option 1)		ISO8573-1:2010 Classification (Option 1)	Dewpoint (Option 2)		ISO8573-1:2010 Classification (Option 2)
	°C	°F		°C	°F		°C	°F	
KE-MT	-40	-40	Class 2.2.2	-70	-100	Class 2.1.2	-20	-4	Class 2.3.2

ISO8573-1 Classifications when used with OIL-X pre / post filtration

Technical Data

Dryer Models	Minimum Operating Pressure		Maximum Operating Pressure		Minimum Operating Temperature		Maximum Operating Temperature		Maximum Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Type	Noise Level dB(A)
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				
KE-MT 250 - 600	5	73	10	145	5	41	50	122	50	122	230V 1ph 50Hz/60Hz	115V / 1ph 50/60Hz	Flange	65-95

Flow Rates

Model	Pipe Size	Inlet Flow Rate			
		L/s	m ³ /min	m ³ /hr	cfm
KE-MT 250	DN 80	695	42	2500	1472
KE-MT 300	DN 80	833	50	3000	1766
KE-MT 380	DN 100	1056	63	3800	2237
KE-MT 500	DN 100	1347	81	4850	2855
KE-MT 600	DN 125	1695	102	6100	3590

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures, apply the correction factors shown below.

Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the maximum (summer) inlet temperature, maximum (summer) ambient temperature, minimum inlet pressure, required outlet dewpoint and maximum flow rate of the installation.

To select a dryer, first calculate the MDC (Minimum Drying Capacity) using the formula below then select a dryer from the flow rate table above with a flow rate equal to or above the MDC.

Minimum Drying Capacity = System Flow x CFMIT x CFMAT x CFMIP x CFOD

CFMIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	25	30	35	40	45	50
	°F	77	86	95	104	113	122
Correction Factor		0.94	0.95	1.00	1.15	1.22	1.28

CFMAT - Correction Factor Maximum Ambient Temperature

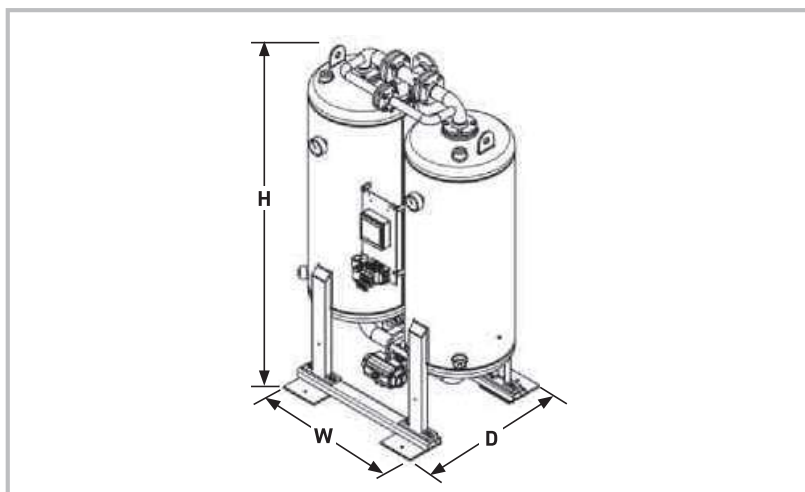
Maximum Ambient Temperature	°C	25	30	35	40	45	50
	°F	77	86	95	104	113	122
Correction Factor		1.00	1.00	1.00	1.00	1.00	1.00

CFMIP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	5	6	7	8	9	10
	psi g	73	87	100	116	131	145
Correction Factor		1.33	1.12	1.00	0.88	0.79	0.76

CFOD - Correction Factor Outlet Dewpoint

Outlet Dewpoint	°C	-25	-40	-70
	°F	-13	-40	-100
Correction Factor		1.00	1.00	2.00



Weights & Dimensions

Model	Dimensions						Weight	
	Height (H)		Width (W)		Depth (D)			
	mm	ins	mm	ins	mm	ins	kg	lbs
KE-MT 250	1647	64.8	687	27.0	550	21.7	235	518
KE-MT 300	1647	64.8	856	33.7	550	21.7	316	696
KE-MT 380	1892	74.5	856	33.7	550	21.7	355	782
KE-MT 500	1892	74.5	1025	40.3	550	21.7	450	992
KE-MT 600	1892	74.5	1194	47.0	550	21.7	543	1197

Recommended Filtration

Model	Pipe Size BSP or NPT	Dryer Inlet		Dryer Outlet		
		General Purpose Pre-filter	High Efficiency Filter	Oil Vapour Reduction Filter	General Purpose Dry Particulate Filter	High Efficiency Dry Particulate Filter
KE-MT 250	DN 80	AO070OD	AA070OD	-	AO070OD	-
KE-MT 300	DN 80	AO070OD	AA070OD	-	AO070OD	-
KE-MT 380	DN 100	AO070OD	AA070OD	-	AO070OD	-
KE-MT 500	DN 100	AO075PD	AA075PD	-	AO075PD	-
KE-MT 600	DN 125	AO075PD	AA075PD	-	AO075PD	-

Parker Catalogue Numbers

Model	Catalogue Number No Dewpoint Control	Catalogue Number With Dewpoint Control
KE-MT250	K250/10D1-F230M	K250/10D1-F230MT
KE-MT300	K300/10D1-F230M	K300/10D1-F230MT
KE-MT380	K380/10D1-F230M	K380/10D1-F230MT
KE-MT500	K500/10D1-F230M	K500/10D1-F230MT
KE-MT600	K600/10D1-F230M	K600/10D1-F230MT