MEDIUM DESICCANT DRYERS QUINCY QMD55-550_HE_-40°F.

Name		QMD 55 HE -40	QMD 75 HE -40	QMD 95 HE -40	QMD 120 HE -40	QMD 140 HE -40	QMD 190 HE -40	QMD 230 HE -40	QMD 275 HE -40	QMD 350 HE -40	QMD 420 HE -40	QMD 550 HE -40
Document Number		9827890802	9827890802	9827890802	9827890802	9827890802	9827890802	9827890802	9827890802	9827890802	9827890802	9827890802
Document Revision		02	02	02	02	02	02	02	02	02	02	02
Created on		4/21/2017	4/21/2017	4/21/2017	4/21/2017	4/21/2017	4/21/2017	4/21/2017	4/21/2017	4/21/2017	4/21/2017	4/21/2017
Product Definition	Model	QMD 55 (QMD55_17)	QMD 75 (QMD75_17)	QMD 95 (QMD95_17)	QMD 120 (QMD120_17)	QMD 140 (QMD140_17)	QMD 190 (QMD190_17)	QMD 230 (QMD230_17)	QMD 275 (QMD275_17)	QMD 350 (QMD350_17)	QMD 420 (QMD420_17)	QMD 550 (QMD550_17)
	Lowest achievable pressure dew point (PRESDP)	-40 °F (MIN40)	-40 °F (MIN40)	-40 °F (MIN40)	-40 °F (MIN40)	-40 °F (MIN40)	-40 °F (MIN40)	-40 °F (MIN40)	-40 °F (MIN40)	-40 °F (MIN40)	-40 °F (MIN40)	-40 °F (MIN40)
	Efficiency (EFFICIENCY)	High efficiency (HE)	High efficiency (HE)	High efficiency (HE)	High efficiency (HE)	High efficiency (HE)	High efficiency (HE)	High efficiency (HE)	High efficiency (HE)	High efficiency (HE)	High efficiency (HE)	High efficiency (HE)
	High inlet temperature (HIT)											

A	REFERENCE CONDITIONS											
8	Compressed air effective inlet pressure (psi(g))	102	102	102	102	102	102	102	102	102	102	102
10	Compressed air inlet temperature (°F)	95	95	95	95	95	95	95	95	95	95	95
13	Pressure dewpoint (°F)	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
20	Inlet relative humidity of compressed air (%)	100	100	100	100	100	100	100	100	100	100	100
139	Ambient pressure (psi(a))	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
9	Ambient air temperature (°F)	77	77	77	77	77	77	77	77	77	77	77
B	LIMITATIONS											
1	Minimum ambient temperature (°F)	36	36	36	36	36	36	36	36	36	36	36
26	Maximum ambient temperature (°F)	113	113	113	113	113	113	113	113	113	113	113
25	Minimum compressed air inlet pressure (psi(g))	58	58	58	58	58	58	58	58	58	58	58
23	Maximum compressed air inlet pressure (psi(g))	203	203	203	203	203	203	203	203	203	203	203
34	Minimum air inlet temperature (°F)	36	36	36	36	36	36	36	36	36	36	36
2	Maximum air inlet temperature (°F)	122	122	122	122	122	122	122	122	122	122	122
48	Minimum volume flow at inlet (l/s)	6.25	8.75	11.25	13.75	16.25	22.5	27.5	32.5	41.25	48.75	65
C	PERFORMANCE DATA											
19	Volume flow at dryer inlet (l/s)	25	35	45	55	65	90	110	130	165	195	260
88	Pressure drop at maximum flow (psi)	0.4	0.9	1.7	2.6	4	1.7	2.6	4	2.6	4	4
45	Time to half a cycle (h)	0.0242	0.0242	0.0242	0.0242	0.0242	0.0242	0.0242	0.0242	0.0242	0.0242	0.0242
92	Regenerating time (s)	65	65	65	65	65	65	65	65	65	65	65
93	Pressurisation time (s)	20	20	20	20	20	20	20	20	20	20	20
94	Regeneration air consumption average (%)	16.5	16.5	16.5	16	16	16.5	16.5	16.5	16.5	17	17
49	Installed power (kW)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.07	0.09	0.09
D	DESIGN DATA											
108	Length (in)	15.5	15.5	15.5	15.5	15.5	22.2	22.2	22.2	28.9	28.9	36.6
104	Width (in)	31.8	32.6	33.3	33.3	35.7	35.7	35.7	35.7	35.7	35.7	38.8
105	Height (in)	47.4	47.4	58.9	58.9	72.2	58.9	58.9	72.2	58.9	72.2	72.2
21	Mass (lb)	220	242	281.6	308	367.4	477.4	514.8	609.4	728.2	855.8	1100
101	Desiccant type	Activated alumina	Activated alumina	Activated alumina	Activated alumina	Activated alumina	Activated alumina	Activated alumina	Activated alumina	Activated alumina	Activated alumina	Activated alumina
453	Connection inlet/outlet	0,5"/0,5"	1"/1"	1"/1"	1"/1"	1,5"/1,5"	1,5"/1,5"	1,5"/1,5"	1,5"/1,5"	1,5"/1,5"	1,5"/1,5"	2"/2"
480	Inlet filter 1	QCF 75	QCF 100	QCF 175	QCF 175	QCF 300	QCF 300	QCF 300	QCF 400	QCF 550	QCF 550	QCF 750
482	Outlet filter 1	QPF 75	QPF 100	QPF 175	QPF 175	QPF 300	QPF 300	QPF 300	QPF 400	QPF 550	QPF 550	QPF 750
508	Amount of desiccant per extruded tube (lb)	16.3	21.8	27.3	32.6	41.4	27.3	32.6	41.4	32.6	41.4	41.4
509	Quantity of extruded tubes	2	2	2	2	2	4	4	4	6	6	8
T	DATA ON DATAPLATE											
1	Name of product	QMD 55	QMD 75	QMD 95	QMD 120	QMD 140	QMD 190	QMD 230	QMD 275	QMD 350	QMD 420	QMD 550
13	Pressure dewpoint (°F)	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
14	Minimum compressed air inlet pressure (psi(g))	58	58	58	58	58	58	58	58	58	58	58
15	Maximum compressed air inlet pressure (psi(g))	203	203	203	203	203	203	203	203	203	203	203
16	Minimum air inlet temperature (°F)	36	36	36	36	36	36	36	36	36	36	36
17	Maximum air inlet temperature (°F)	122	122	122	122	122	122	122	122	122	122	122
18	Maximum compressed air outlet temperature (°F)	140	140	140	140	140	140	140	140	140	140	140