

QCMD12-64 115/1/60HZ -40°F Dew Point Technical Data Sheets

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QCMD-12	QCMD-22	QCMD-32	QCMD-43	QCMD-53	QCMD-64
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REFERENCE CONDITIONS						
Inlet air pressure (psi(g))	100	100	100	100	100	100
Inlet air temperature (°F)	100	100	100	100	100	100
Pressure dewpoint (°F)	-40	-40	-40	-40	-40	-40
Inlet relative humidity (%)	100	100	100	100	100	100
Ambient pressure (psi(a))	14.7	14.7	14.7	14.7	14.7	14.7
Ambient air temperature (°F)	100	100	100	100	100	100
Ambient relative humidity (%)	90	90	90	90	90	90

LIMITATIONS						
Minimum ambient temperature (°F)	35.6	35.6	35.6	35.6	35.6	35.6
Maximum ambient temperature (°F)	113.0	113.0	113.0	113.0	113.0	113.0
Minimum inlet air pressure (psi(g))	58.0	58.0	58.0	58.0	58.0	58.0
Maximum inlet air pressure (psi(g))	203.0	203.0	203.0	203.0	203.0	203.0
Minimum inlet air temperature (°F)	35.6	35.6	35.6	35.6	35.6	35.6
Maximum inlet air temperature (°F)	140.0	140.0	140.0	140.0	140.0	140.0
Minimum flow at inlet (cfm)	2.9	5.3	7.9	10.6	13.2	15.9

PERFORMANCE DATA						
Volume flow at dryer inlet (cfm)	12	22	32	43	53	64
Pressure drop at maximum flow (psi)	1.16	1.60	2.18	2.61	3.48	3.63
Time to half a cycle (h)	0.01	0.01	0.01	0.01	0.01	0.01
Regenerating time (s)	30	30	30	30	30	30
Pressurisation time (s)	10	10	10	10	10	10
Regen air consumption average (%)	16	16	16	16	16	16.5
Regen air consumption peak (%)	22.4	22.4	22.4	22.4	22.4	22.4
Installed power (kW)	0.05	0.05	0.05	0.05	0.05	0.05
Power consumption average (kW)	0.04	0.04	0.04	0.04	0.04	0.04

DESIGN DATA						
Length (inch)	15.6	15.6	15.6	15.6	15.6	15.6
Width (inch)	14.3	14.3	14.3	14.3	14.3	14.3
Height (inch)	37.4	43.5	49.6	55.7	62.8	69.1
Desiccant type	Solides	Solides	Solides	Solides	Solides	Solides
Connection inlet/outlet	1	1	1	1	1	1
Mass (lbs)	70.5	81.6	92.6	105.8	119.0	130.1
Inlet filter 1	FG	FG	FG	FG	FG	FG
Inlet filter 2	FC	FC	FC	FC	FC	FC
Amount of desiccant per tube (lbs)	2.0	4.0	6.0	7.9	9.9	11.9
Quantity of extruded tubes	2	2	2	2	2	2