

HDK-MT - 350 Bar Compressed Air Dryers

Dryer Performance

Dryer Models	Dewpoint (Standard)		ISO8573-1:2010 Classification (Standard)	Dewpoint (Option 1)		ISO8573-1:2010 Classification (Option 1)
	°C	°F		°C	°F	
HDK-MT 15 - 70	-40	-40	Class 2.2.2	-20	-4	Class 2.3.2

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				
HDK-MT 15 - 70	100	1450	350	5076	5	41	55	131	50	122	230V 1ph 50/60Hz	115V 1ph 50/60Hz	BSP	95-115

Flow Rates

Model	Pipe Size BSP	Inlet Flow Rate			
		L/s	m ³ /min	m ³ /hr	cfm
HDK-MT 15/350	G½	56	3.3	200	118
HDK-MT 20/350	G½	83	5.0	300	177
HDK-MT 23/350	G½	111	6.7	400	235
HDK-MT 30/350	G½	139	8.4	500	294
HDK-MT 40/350	G¾	217	13	780	459
HDK-MT 50/350	G¾	261	16	940	553
HDK-MT 70/350	G¾	328	20	1180	695

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.

$$\text{Minimum Drying Capacity} = \text{System Flow} \times \text{CFIT} \times \text{CFAT} \times \text{CFMIP} \times \text{CFOD}$$

CFMIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	30	35	40	45	50	55
	°F	86	95	104	113	122	131
Correction Factor		1.00	1.00	1.32	1.68	2.15	2.8

CFMAT - Correction Factor Maximum Ambient Temperature

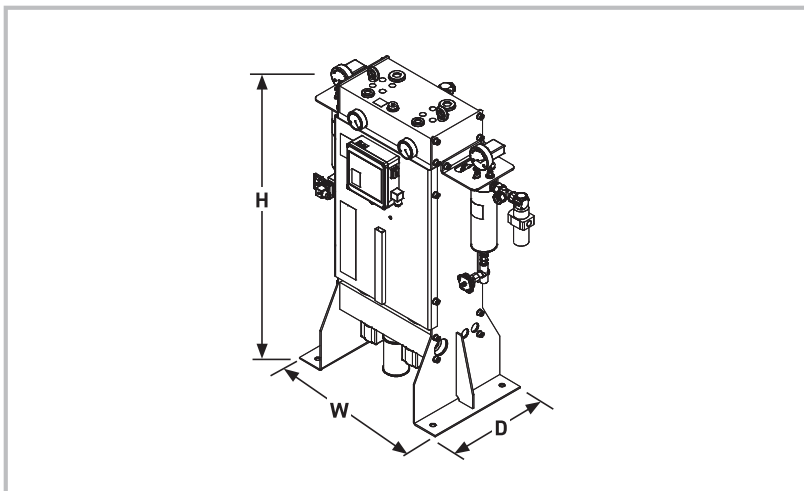
Maximum Ambient Temperature	°C	25	30	35	40	45	50
	°F	77	86	95	104	113	122
Correction Factor		1.00	1.00	1.00	1.00	1.00	1.00

CFMIP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	100	150	200	250	300	350
	psi g	1450	2175	2900	3625	4351	5076
Correction Factor		3.57	2.33	1.75	1.41	1.16	1.00

CFOD - Correction Factor Outlet Dewpoint

Outlet Dewpoint	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		1.00	1.00	N/A



Weights & Dimensions

Model	Pipe Size BSPP	Dimensions						Weight	
		Height (H)		Width (W)		Depth (D)		kg	lbs
		mm	ins	mm	ins	mm	ins		
HDK-MT 15/350	G½	1050	41.3	700	27.6	370	14.6	190	86
HDK-MT 20/350	G½	1250	49.2	700	27.6	370	14.6	220	100
HDK-MT 23/350	G½	1450	57.1	700	27.6	370	14.6	250	114
HDK-MT 30/350	G½	1650	65.0	700	27.6	370	14.6	280	127
HDK-MT 40/350	G¾	1650	65.0	770	30.3	370	14.6	310	141
HDK-MT 50/350	G¾	1850	72.8	770	30.3	450	17.7	340	155
HDK-MT 70/350	G¾	2075	81.7	770	30.3	450	17.7	380	173

Required Filtration

Model	Pipe Size BSPP or NPT	Dryer Inlet
		General Purpose Pre-filter
HDK-MT 15/350	G½	GH7/350ZP
HDK-MT 20/350	G½	GH7/350ZP
HDK-MT 23/350	G½	GH7/350ZP
HDK-MT 30/350	G½	GH7/350ZP
HDK-MT 40/350	G¾	GH9/350ZP
HDK-MT 50/350	G¾	GH9/350ZP
HDK-MT 70/350	G¾	GH9/350ZP

Included Filtration

Dryer Inlet		Dryer Outlet	
High Efficiency Filter	Oil Vapour Reduction Filter	General Purpose Dry Particulate Filter	High Efficiency Dry Particulate Filter
GH7/350XP	-	GH7/350ZP/VV	-
GH7/350XP	-	GH7/350ZP/VV	-
GH7/350XP	-	GH7/350ZP/VV	-
GH7/350XP	-	GH7/350ZP/VV	-
GH9/350XP	-	GH9/350ZP/VV	-
GH9/350XP	-	GH9/350ZP/VV	-
GH9/350XP	-	GH9/350ZP/VV	-