Selection

The flow rate of the compressor is the basis of model selection but with the decrease of pressure or the increase of temperature, saturated water content entering the dryer will be increased. Therefore, it is necessary to adjust the model selection according to the actual conditions to ensure that the system configuration is reasonable and the operation is stable and reliable.

Inlet Temperature Correction -CX

Inlet	\mathcal{C}	20	25	30	35	40	45	50
Temperature	CX	1.20	1.00	1.00	1.00	0.80	0.70	0.50

PressureCorrection-PX

Duagayyaa	мРа	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2
Pressure	PX	0.60	0.75	0.85	1.00	1.02	1.05	1.10	1.15	1.20

Pressure Dew point Correction -CF

Pressure	С	-20	-40	-50	-60	-70
Dew point	CF	1.10	1.00	0.70	0.60	0.50

Corrected dryer flow rate = Compressor flow rate /(CX*PX*CF) For example Compressor flow rate is 20m³/min, then Inlet temperature is 40°C, operating Pressure is 0.6Mpa, and the required Pressure Dewpoint is -40°C, so the corrected dryer flow rate $=20\text{m}^3/\text{min}/(0.8*0.85*1)=29.41\text{m}^3/\text{min}$. As the above dryer sizing table, the correct dryer for this application should better be selected a model with a nearer flow rate of 29.41m³/ min, that is a BTGMXD295-A

Note: equipment selection should fully meet the requirements of the worst workingconditions, to ensure safety and reliability, consider the standby machine, whennecessary, to avoid the impact of maintenance, failure and other aquipment on productiongas and shutdown loss.



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iteman Compressed Air Dryers

ALL FOR BETTER PRODUCTION

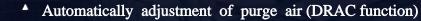


Biteman Desiccant Cartridge Dryer

World's leading compressed air drying and purification equipment

Features:

- ▲ Constant Pressure Dewpoint -40 ℃ ~ -70
- ▲ Easy maintenance, Convenient replacement of absorbent (independent Desiccant Cartridge)
- ▲ LCD touch panel displays operation parameters in real-time, Consumables replacement reminder





PARTS DISPLAY OF

DESICCANT CARTRIDGE DRYER



Note: Due to the different sizes of the models, it is divided into 2P machines and 4P machines

illustrate: ① -Display panel、② -power switch button、③ -Control System、④ -base、⑤ -outlet manifold、⑥ -one-way valve seat、



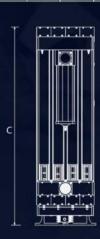
- 7 -one-way valve 、8 -Air outlet、9 -Adsorption core、
- ① -outlet filter、①- junction box、②-Biaxial cylinder、
- ③-intake valve seat、 ④-Water separator、 ⑤-Air inlet、
- (6)-Exhaust valve seat、(7)-Silencer、(8)-Central drain valve

Specification of Biteman Desiccant Cartridge Dryer (Heat) >>>

Model		Pipe	Volume flow (m³/min) Normal size (mm)			Normal BTHG size (mm)			BTHG wgt	power					
		size	@0.7~0.8MPa	А	В	c	(kg)	A	В	С	(kg)	(kW)			
Normalitem	BTGMXD065-A/B	DNICO	6.5	040	275	4000	170	200		4000	400	0.85			
BTHG series	BTHGMXD065-A/B	DINSU	DN50	DN50	6.5	819	2/5	1688	170	808	275	1688	183	0.85	
Normalitem	BTGMXD085-A/B	DN50	DNICO	0.5	027	275	4600	203	924	275	1000	240	4.05		
BTHG series	BTHGMXD085-A/B		8.5	927	275	1688	203	924	2/5	1688	219	1.05			
Normalitem	BTGMXD106-A/B	DNEO	10.6	1035	275	1688	239	1040	275	1000	250	1.05			
BTHG series	BTHGMXD106-A/B	DN50	10.6	1035	2/5	1688	239	1040	2/5	1688	259	1.05			
Normalitem	BTGMXD146-A/B	DN50	44.0	4050	075	4000	205	1272	275	1688	332	4.45			
BTHG series	BTHGMXD146-A/B		14.6	1252	275	1688	305					1.45			
Normalitem	BTGMXD165-A/B	DN50	16.5	1360	275	1688	340	1388	275	1688	375	1.65			
BTHG series	BTHGMXD165-A/B											1.05			
Normalitem	BTGMXD206-A/B	DN80	20.6	1589	275	1688	390	1633	275	1688	435	2.05			
BTHG series	BTHGMXD206-A/B		20.0									2.05			
Normalitem	BTGMXD248-A/B	DN80	24.8	1806	275	1688	526	1865	275	1688	574	2.45			
BTHG series	BTHGMXD248-A/B		24.0		2/5										
Normalitem	BTGMXD295-A/B	DNIGO	DNISO	DN80	DN80	29.5	1264	516	1688	595	1285	516	1688	646	2.85
BTHG series	BTHGMXD295-A/B	DINOU	29.5	1204	310	1000	333	1200	310	1000	646	2.00			
Normalitem	BTGMXD336-A/B	DN80	33.6	1372	516	1688	643	1401	516	1688	678	3.25			
BTHG series	BTHGMXD336-A/B	DINOU	33.0	1312	310	1000	643	1401	310	1000	070	3.23			
Normalitem	BTGMXD385-A/B	DN80	38.5	1480	516	1688	720	1517	516	1688	790	3.65			
BTHG series	BTHGMXD385-A/B	DINOU	30.5	1460	310	1000	120	1517	516	1000	790	3.05			
Normalitem	BTGMXD425-A/B	DN80	42.5	1588	516	1688	790	1633	516	1688	870	4.05			
BTHG series	BTHGMXD425-A/B	DINOU	42.5	1300	310										
Normalitem	BTGMXD465-A/B	DNI100	46.5	1680	516	1688	850	1732	516	1688	940	4.45			
BTHG series	BTHGMXD465-A/B	DN100	40.5	1000							940				
Normalitem	BTGMXD516-A/B	DN100	51.6	1789	516	1688	922	1848	516	1688	1018	4.85			
BTHG series	BTHGMXD516-A/B		01.0		316										
Normalitem	BTGMXD568-A/B	DN100	56.8	1897	516	1688	996	1964	516	1688	1106	5.25			
BTHG series	BTHGMXD568-A/B	DN100	DN100	56.6	1097	516	1000	996	1964	516	1000	1106	5.25		







Standard working condition: Working pressure 0.7 MPa \leq P < 0.8 MPa, Inlet temperature T \leq 35 °C; Applied working condition: Working pressure 0.4 MPa \leq P < 1.0 MPa, Inlet temperature 2 °C \leq T \leq 35 °C Technical performance: PDP \leq -40 °C, Purge air 2%, Pressure loss \leq 0.02 Mpa, Noise \leq 75 dB

Standard configuration: Biteman control system

Standard power supply: 220V 50Hz

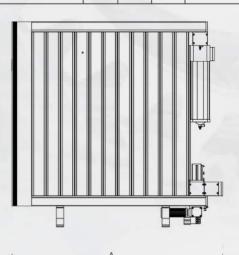
 $Optional \, configuration: \,\, Pressure \, Dew \, Point \, display, \, DCS \, remote \, control \, function, \, Biteman \, flow \, meter, \, smart \, electricity \, meter \, display, \, DCS \, remote \, control \, function, \, Biteman \, flow \, meter, \, smart \, electricity \, meter \, display, \, DCS \, remote \, control \, function, \, Biteman \, flow \, meter, \, smart \, electricity \, meter \, display, \, DCS \, remote \, control \, function, \, Biteman \, flow \, meter, \, smart \, electricity \, meter \, display, \, DCS \, remote \, control \, function, \, Biteman \, flow \, meter, \, smart \, electricity \, meter \, display, \, DCS \, remote \, control \, function, \, Biteman \, flow \, meter, \, smart \, electricity \, meter \, display, \, DCS \, remote \, control \, function, \, Biteman \, flow \, meter, \, smart \, electricity \, meter \, display,

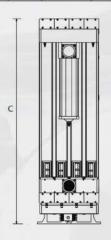
High pressure model of Working pressure 1 MPa ≤ P < 2 MPa, and model of Flow range 59~120 m³/min can be customized

Specification of Biteman Desiccant Cartridge Dryer (Heatless)

Model		Pipe	Volume flow (m³/min)	Normal size (mm)			Normal wgt	BTHG size (mm)			BTHG wgt			
	ouct	size	@ 0.7~ 0.8 MPa	А	В	C	(kg)	А	В	C	(kg)	(kW)		
Normalitem	BTGMXW015-A/B	20000	3. 2	222		-27.		222				2002		
BTHG series	BTHGMXW015-A/B	DN25	DN25	1.5	572	275	732	85	692	275	732	93	0.05	
Normalitem	BTGMXW026-A/B		4.5				22				- 22			
BTHG series	BTHGMXW026-A/B	DN25	2.6	572	275	952	87	692	275	952	95	0.05		
Normalitem	BTGMXW038-A/B	Environ-				050				050				
BTHG series	BTHGMXW038-A/B	DN25	3.8	688	275	952	107	808	275	952	115	0.05		
Normalitem	BTGMXW065-A/B	DNIES	0.5	040	075	4600	407	200	0.75	4600	400	0.05		
BTHG series	BTHGMXW065-A/B	DN50	DN50	6.5	819	275	1688	167	808	275	1688	180	0.05	
Normalitem	BTGMXW085-A/B	DN50	0.5	007	075	4000	000	004	075	4000	0.40	0.05		
BTHG series	BTHGMXW085-A/B		DN50	DN50	8.5	927	275	1688	200	924	275	1688	216	0.05
Normalitem	BTGMXW106-A/B	DN50	40.0	4005	075	4000	005	4040	075	4000	0.55			
BTHG series	BTHGMXW106-A/B		DN50	10.6	1035	275	1688	235	1040	275	1688	255	0.05	
Normalitem	BTGMXW146-A/B	DN50	DN50	2.4.2		0.000	4000	2000		Charles of				
BTHG series	BTHGMXW146-A/B			DN50	14.6	1252	275	1688	300	1272	275	1688	328	0.05
Normalitem	BTGMXW165-A/B	DN50	DN50	DNEO	40.5	4000	075	4000	205	4000	075	4000	070	0.05
BTHG series	BTHGMXW165-A/B			16.5	1360	275	1688	335	1388	275	1688	370	0.05	
Normalitem	BTGMXW206-A/B	DN80	DN80	20.0	4500	075	4000	000	4000	075	4000	400	0.05	
BTHG series	BTHGMXW206-A/B			20.6	1589	275	1688	390	1633	275	1688	430	0.05	
Normalitem	BTGMXW248-A/B	DN80	51100	24.2	4000	075	4000	500	4005	075	4000	500		
BTHG series	BTHGMXW248-A/B		24.8	1806	275	1688	520	1865	275	1688	568	0.05		
Normalitem	BTGMXW295-A/B									4000		72.12.2		
BTHG series	BTHGMXW295-A/B	DN80	29.5	1264	516	1688	585	1285	516	1688	640	0.05		
Normalitem	BTGMXW336-A/B	Duine	22.2	4070	540	4000	205	4404	540	4000	070	0.05		
BTHG series	BTHGMXW336-A/B	DN80	33.6	1372	516	1688	635	1401	516	1688	670	0.05		
Normalitem	BTGMXW385-A/B	21100	20.5	4400		4000	740		510	4000	700	0.05		
BTHG series	BTHGMXW385-A/B	DN80	38.5	1480	516	1688	710	1517	516	1688	782	0.05		
Normalitem	BTGMXW425-A/B	DHIOO	10.5	4500	540	4000	700	1000	540	4000	000	0.05		
BTHG series	BTHGMXW425-A/B	DN80	42.5	1588	516	1688	780	1633	516	1688	860	0.05		
Normalitem	BTGMXW465-A/B		40.5	4000	546	4000	0.10	4700	546	4000	000	0.05		
BTHG series	BTHGMXW465-A/B	DN100	46.5	1680	516	1688	840	1732	516	1688	928	0.05		
Normalitem	BTGMXW516-A/B	DNIAGO	54.0	4700	F46	4000	040	40.40	546	1000	4000	0.05		
BTHG series	BTHGMXW516-A/B	DN100	51.6	1789	516	1688	910	1848	516	1688	1006	0.05		
Normalitem	BTGMXW568-A/B	DAMAGO	FC 0	4007	546	4600	004	4004	546	1600	4000	0.05		
BTHG series	BTHGMXW568-A/B	DN100	56.8	1897	516	1688	984	1964	516	1688	1088	0.05		







 $Standard\ working\ condition:\ \ Working\ pressure\ 0.7\ MPa \leqslant P < 0.8\ MPa, Inlet\ temperature\ T \leqslant 35\ ^\circ C;$

Applied working condition: Working pressure 0.4 MPa \leq P \leq 1.0 MPa, Inlet temperature 2 °C \leq T \leq 35 °C

(If T exceed 35 °C, please consult with Biteman technology);

Technical performance: PDP≤ -40 °C, Purge air 3%, Pressure loss ≤0.02Mpa, Noise ≤75dB

Standard configuration: Biteman control system

Standard power supply: 220V 50Hz

Optional configuration: Pressure Dew Point display, DCS remote control function, Biteman flow meter,

smart electricity meter.

High pressure model of Working pressure 1 MPa≤P<2 MPa, and model of Flow range 59~120 m³/min can be customized.