Domnick Hunter HIROSS PoleStar

Domnick Hunter Dryer

HIROSS PoleStar Refrigerated Dryer

Problems Existing in Untreated Compressed Air:

Compressed air is an important power which is widely used in various area of industry. All air of compressed system is from atmosphere, among which has large amount of dust, vapor, not fully burned hydrocarbon and bacteria.
In addition, lubricant system of air compressor will also produce some pollutants. All of this mixed together will form a kind of corrosive oil sludge which damages device, corrodes pipeline, increases maintenance cost, pollutes environment, etc.

Solutions:

Installation of one set of Domnick Hunter Oil-Xplus filter and PoloStar Refrigerated dryer system can avoid huge economic loss caused by above problems.

Characteristics of PoloStar Refrigerated Dryer:

Precise Control

microprocessor control panel (PD1100 and above models are standard configuration), use conveniently, precision control and easy maintenance.

Simple Installation

PoloStar PD series Refrigerated dryer is the most compact one in similar products, its positioning and installing are very convenient. PD0050-PD0300 model of dryer even can install on the wall.

Easy to Use

PoloStar PD dryer can operate in extremely bad condition; it can work normally under max. air inlet temperature of 60℃ and max. ambient temperature of 50℃.

High Reliability

PoloStar PD series Refrigerated dryer can ensure continuously normal operation. Firmly aluminum heat exchanger advanced scroll

compressor, PD2600 and above configuration of condenser and filter all have high reliability, which improve performance of dryer and reduce possibility of maintenance.

Drypack High-Efficiency Heat Exchanger
PoloStar PD series Refrigerated dryer adopts advanced Drypack heat exchanger (PD0700 and above model are standard configuration).

Technical Parameter and Model :

Model	Flow	Input Power	Interface Size	Width A	Height B	Depth C	Weight	Recommended Filter Model	
	Nm3/min	kW		mm	mm	mm	kg	Prefilter	Postfilter
PD0050	0.5	0.22	3/8"BSP	197	455	450	20	AO-0017G-C	AA-0017G-C
PD0100	1	0.39	1/2"BSP	282	530	600	33	AO-0017G-C	AA-0017G-C
PD0200	2	0.75	3/4"BSP	352	605	700	55	AO-0058G-C	AA-0058G-C
PD0300	3	1.05	3/4"BSP	352	605	700	58	AO-0058G-C	AA-0058G-C
PD0700	7	1.17	1½"BSP	615	791	552	70	AO-0145G-C	AA-0145G-C
PD1100	11	1.54	2"BSP	920	1015	672	140	AO-0220G-C	AA-0220G-C
PD1400	14	1.91	2"BSP	920	1015	672	144	AO-0330G-C	AA-0330G-C
PD1900	19	1.96	2"BSP	920	1015	672	150	AO-0330G-C	AA-0330G-C
PD2600	26	3.47	DN80	1010	1500	1310	420	AO-0430G-C	AA-4330G-C
PD3500	35	4.23	DN80	1010	1500	1310	450	AO-0620G-C	AA-620G-C
PD4400	44	5.68	DN100	1010	1500	1310	470	AO-1000F-C	AA-1000F-C
PD6000	60	7.42	DN100	1010	1500	1810	550	AO-1000F-C	AA-1000F-C
PD7300	73	11.0	DN150	1010	1500	1810	580	AO-1300F-C	AA-1300F-C

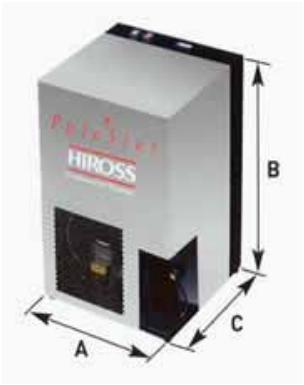
Correction Coefficient in Different Working Condition:

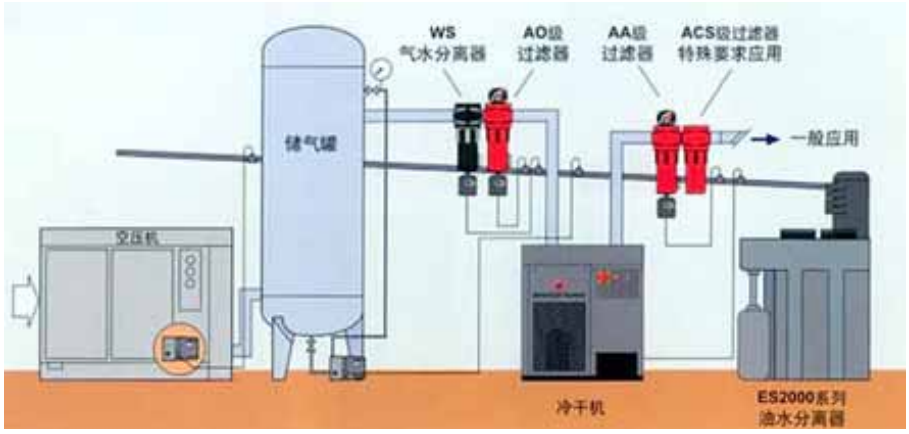
A	Working Pressure	barg	3	4	5	6	7	8	9	10	11	12
	Correction Coefficient		0.69	0.79	0.88	0.95	1	1.05	1.09	1.12	1.15	1.18
B	Air Inlet Temperature	℃	30	35	40	42	45	50	55	60		
	Correction Coefficient		1.48	1.29	1.08	1	0.90	0.75	0.63	0.52		
C	Ambient Temperature	℃	20	25	30	35	38	40	45	50		
	Correction Coefficient		1.16	1.12	1.08	1.03	1	0.98	0.80	0.52		

Air flow in different working condition can be got by multiplication of nominal capacity and correction coefficient in above table.
(for example, actual dryer capacity=nominal capacity × factor A × factor B × factor C)

Max. Working Pressure	PD0050-PD0300	16barg
	PD0700-PD7300	12barg

Max. Air inlet Temperature	60℃	
Max. Ambient Temperature	50℃	
Power Supply	PD0050-PD0700	230V/1Ph/50HZ
	PD1100-PD7300	400V/3Ph/50HZ
Cooling Method	standard : wind cooled; for PD4400-7300, water cooled is available	
Refrigerant	PD0050-PD0300	R134a
	PD0700-PD7300	R22





AO grade filter
high-efficiency filtration
filtrate dust particle, water and oil mist which are larger than 1 micron, max. oil mist content is 0.5mg/m3@21℃

AA grade filter
high-efficiency and precision filtration
filtrate dust particle, water and oil mist which are larger than 0.01 micron, max. oil mist content is 0.01mg/m3@21℃

ACS grade filter
activated adsorption and filtration
remnants of oil steam are not surpassed 0.003mg/m3@21℃.