COMPRESSED AIR DRYERS

NITROKOMP®



Excess moisture in your pneumatic system can harm equipment and ruin processes or products, costing you time and money. Air compressors draw in ambient air that always contains some amount of water vapor. The process of compressing air to around 7 bar raises the air's temperature, but also dew point and water-holding capacity. Any subsequent cooling downstream will likely cause some water vapor to condense. Liquid water in pneumatic systems creates problems such as corrosion and bacteria growth, sludge etc… which, in turn, leads to sluggish controls or component breakdowns. Thus, air dryers are necessary to mitigate water issues.

In a typical system, NITROKOMP air dryers are a must. They remove most of the water in compressed air before it reaches critical components or processes.

NITROKOMP refrigerated air dryers remove water by cooling the compressed-air temperature and causing condensation. An internal moisture separator collects the liquid water and sends it to a drain. Refrigerated dryers typically generate air with pressure dew points between 3°C and 5°C. They tend to be used in general plant operations. Ideally, High Efficiency NITROKOMP Filters are to be installed before and after the dryer to obtain what can be considered for most applications a technically Dry and Oil-free compressed air.

SPECIFICATIONS

Model	AD008	AD015	AD025	AD040	AD068	AD110	AD140
Air Flow Rate (L/min)	800	1500	2500	4000	6800	11000	14000
Refrigerant	R~22						
Motor Power of the Refrigerant Compressor	3/5HP	3/4HP	1HP	1HP	1-1/2HP	2-1/2HP	3HP
Power Supply	220V / 1 phase / 50Hz						380V / 3 phase / 50Hz
Port Size	1/2"	1"	1 1/2"	1 1/2"	2"	2 1/2"	2 1/2"
Dimensions L x W xH (mm)	700x320x590	705x425x715	705x425x815	1005x505x855	1005x505x905	1255x575x1015	1255x575x1115
Weight (kg)	40	54	60	102	110	158	182

** Capacities are based on 40 °C Inlet Air Temperature, 35 °C Ambient Air Temperature*

Correction factor F1 for operating pressure changes:

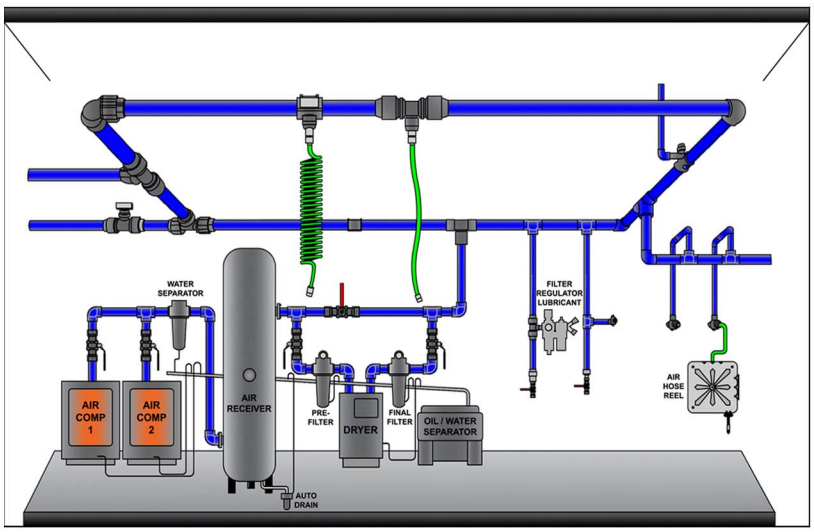
Inlet Air Pressure	5	6	7	8	9	10	11	12	13
Factor (F1)	0.9	0.95	1.0	1.05	1.1	1.16	1.21	1.26	1.31

Correction factor F2 for ambient temperature changes:

Ambient Temperature °C	30	35	40	45	50
Factor (F2)	1.16	1.08	1.0	0.95	0.88

Correction factor F3 for inlet air temperature changes:

Inlet Air Temperature °C	35	40	45	50
Factor (F3)	1.15	1.0	0.87	0.78



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