



Oil Injected Rotary Screw Air Compressor
(Motor rating: 3.0-355kW)



PET Application Screw + Reciprocating Combination High Pressure Air Compressor
(FAD: 5.0 - 30.5m³/mm, working pressure up to: 40 bar.g)



Dry Screw Oil Free Air Compressor
(Motor rating: 55-315kW)



Rotary Scroll Oil Free Air Compressor
(Motor rating: 3.0-355kW)



Nitrogen / Oxygen Generator System
(FAD: 5.0-500Nm³/h)



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**ADEKOM
AIR TREATMENT
SYSTEM EQUIPMENT**

COMPANY PROFILE

Adekomp - Advanced Air & Gas Solution

ADEKOM (ASIA PACIFIC) LIMITED founded in the late 90's is a specialized air/gas compressors and treatment system manufacturer with headquarter in Hong Kong. Its partners located in Vicenza, Italy and Germering, Germany are the world's leading manufacturers with global recognition and experience in designing, manufacturing and marketing of rotary screw air/gas compressors for decades. **QUALITY, RELIABILITY and ENERGY EFFICIENCY** have been the main objectives of serving customers all over the world. ADEKOM follows the company core of its European partners, is committed to the research & development, quality assurance and satisfaction of customers' needs. Today, what ADEKOM can do is not just to supply the best products to the market, but to provide **THE TOTAL SOLUTION TO YOUR NEEDS!**

Nowadays, ADEKOM is a ISO9001:2015, ISO14001:2015 and CE certified global supplier who is specialized in providing high performance and low operating cost compressors and treatment system for a broad range of applications. In coping with the rapid growth of China and fast developing countries, ADEKOM had established a joint venture factory named Adekomp Kompressoren (Dongguan) Limited in Southern China early year 2000. This not only resulted in reducing the products delivery lead time, but also improved customer satisfaction by providing the best compressor packages in accordance with regional operating environment.

Throughout the years, ADEKOM have established business relationship with customers across all continents, such as Asian countries, Russia & CIS countries, Middle East countries, European countries, African countries and American countries.

Complete range of world class rotary screw, piston and scroll type air & gas compressors, with matching air & gas treatment system equipment, including high-pressure, oil-free and portable models are all fitted with international recognized components. Thus, this sets us apart from other regional screw compressor assemblers or manufacturers and our product quality is unrivalled in the marketplace!

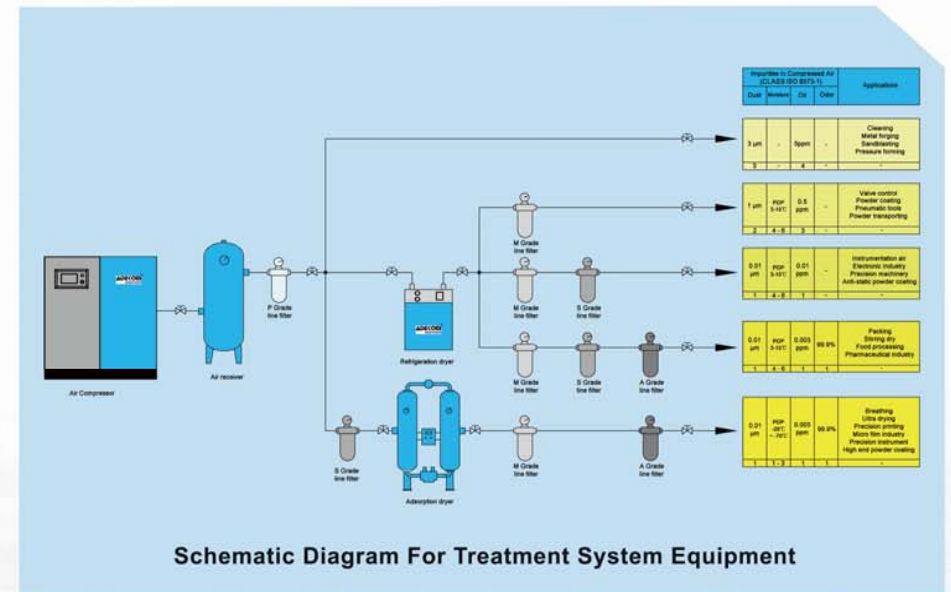


Compressed Air Dryers

A dry compressed air system is essential to maintain the reliability of production processes and the quality of end products. Untreated air can cause corrosion in pipework, premature failure of pneumatic equipment, and product spoilage. Adekomp offers a full range of air and gas dryers, filters, and generators that will protect your systems and processes.

A well designed compressed air system ensures that the air quality demands of the process are closely met. With the desired ISO class as a guide, the appropriate components can be selected.

Over the years, Adekomp has innovatively developed and improved air/gas compression and drying techniques. Whatever your application or quality requirements, Adekomp can offer the right air/gas treatment solution. Every product is designed, built and individually tested, ISO 9001 and ISO 14001 certified.



Intake air from the compressor always contains moisture. With the compression and subsequent cooling, the compressed air is always saturated to 100% with moisture. Anyone who sends compressed air through a pipe network needs to protect against corrosion in order to prevent machine failures or production waste. As a result, each compressed air system includes at least one dryer and/or other processing components, such as filters or condensate separators. Different drying technologies are available: refrigerant dryers for simple applications and desiccant dryers for high to extremely high standards.

Refrigerant dryers are very reliable and economical. They work with built-in refrigerant compressors, which cool the air via heat exchangers, separate the resulting condensate and produce dry air with a pressure dewpoint of 3°C, so your systems are reliably protected from corrosion.

Dry, quality air is vital for long-term, troublefree operation of your processes. Adekomp's KAD+ dryers protect your products and systems against damage or corrosion. They remove moisture from compressed air with a dew point as low as 3°C/37.4°F. Easy to install, simple to operate and reliable, they provide the dry air you need, allowing you to concentrate on your core business.

KAD+ SERIES REFRIGERATED AIR DRYER



[AIR CIRCUIT]

The compressed air flows from Air inlet into Pre-cooler for preliminary cooling, then passes through Evaporator for further cooling, the compressed air after refrigeration enters Moisture separator, the condensed water is separated and removed out via autodrain. The dried cool air is returned back to heat exchanger for gaining temperature, and then comes out the dryer through Air outlet.



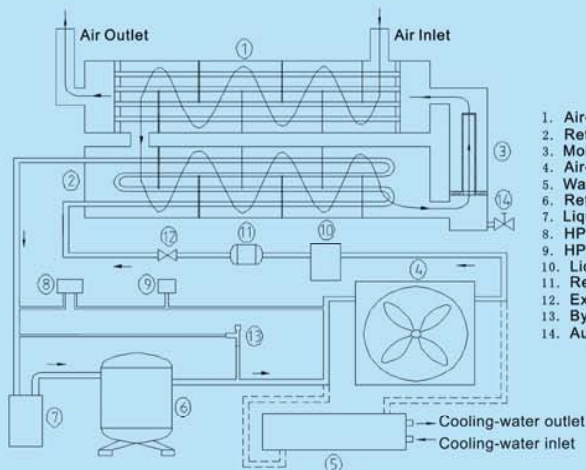
[REFRIGERANT CIRCUIT]

The refrigerant after passing through Refrigerant compressor becomes liquid form in high temperature and high pressure, this liquid form refrigerant flows through Condenser to cool down and then passes through desiccant filter for removing particulates. Refrigerant after passing through Capillary becomes low temperature vapour form then enters Evaporator to conduct heat exchange with incoming hot compressed air. After refrigeration process, the refrigerant returns back to Refrigerant compressor for the next cycle.

[INSTALLATION AND MAINTENANCE]

All KAD+ refrigerated air dryers do not require special foundation. Immediate start-up after connection of inlet and outlet pipes and power supply cable.

Working Principle Diagram Of KAD+ Series Refrigerated Air Dryer



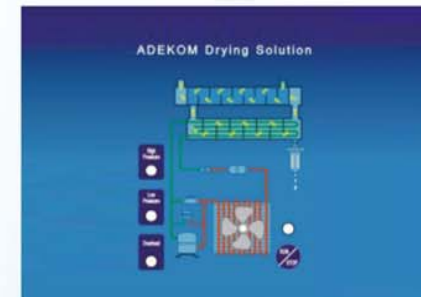
1. Air-to-air heat exchanger
2. Refrigerated evaporator
3. Moisture separator
4. Air-cooled condenser
5. Water-cooled condenser
6. Refrigerant compressor
7. Liquid-vapor separator
8. HP/LP switch
9. HP switch
10. Liquid accumulator
11. Refrigerant filter
12. Expansion valve
13. Bypass valve
14. Auto drain

[THE MAIN ADVANTAGES OF KAD+ AIR DRYER]

- 1) The evaporator and the air -to- air heat exchanger comprise a single coil with copper tubers and aluminum fins. The inlet air is efficiently cooled while the discharge air is re-heated to prevent condensate formation.
- 2) Air-cooled by an electric fan fitted with a safety grille. Comprises copper tubes and aluminum fins coil. Both the condenser and the fan are generously sized to operate at high ambient temperatures and also to ensure effective cooling of internal electronic components.
- 3) Hermetic, suction gas cooled and protected against thermal and current overloads. The compressor is mounted on anti-vibration rubber supports to ensure quiet running.
- 4) The condensate is separated in a high efficiency stainless steel mesh "demister".
- 5) The simple-to-use automatic electric control panel continuously monitors and displays overall system performance status with alarms for malfunctions and safety shutdown.
- 6) Made from sheet steel panels which have been phosphate, degreased and polyester powder painted. The panels are not structural elements and are easily removable for service.

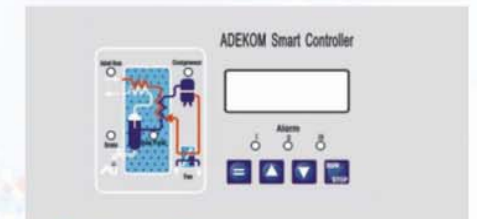


1. World renowned brand hermetic or scroll type refrigerant compressor with double-stage reverse-flow heat exchanger to maximize cooling and heat exchange efficiency.
2. Intelligent control system + multiple electronic control and protection settings.
3. High-speed low-noise level cooling fan with fin-type high-efficiency condenser, heat dissipation effect is maximized.



LG 5 INTELLIGENT CONTROL PANEL

Start / stop control with trip protection.
Condensate drainer timer/manual discharge selection.
3-way fault signal input and alarm.



LG 10 VERSATILE CONTROL PANEL

Load / remote control selection.
Condensate drainer functional control.
Multi-spots temperature monitoring.
LED display with parameter setting.
Proactive fault alarm.
RS485 data communication availability.
Online pressure dew point temperature monitoring as option .

KAD+ SERIES REFRIGERATED AIR DRYER

Model	Air flow (Nm ³ /min)	Power (V/Hz)	Normal power (kW)	Fan power (kW)	Air connections	Water connection	Cooling/Water capacity (m ³ /h)	Weight (kg)	Dimension (mm)		
									L	W	H
KAD5AS+	0.9	220/50	0.5	55	G1"	/	/	50	470	650	550
KAD10AS+	1.6		0.6	55				50	470	650	550
KAD20AS+	2.5		0.75	90	G1-1/4"			70	500	710	700
KAD30AS+	4		0.9	135				75	600	800	800
KAD50AS+	6.5		1.3	135	G2"			125	600	850	900
KAD60AS+	7.8		1.5	135				130	600	850	900
KAD80AS+	9.5		2	190				160	650	950	900
KAD100AS+	11.5		2.3	250				180	700	1000	1100
KAD120AS+	14		2.6	250	G2-1/2"			205	700	1050	1100
KAD150AS(WS)+	17.5		380/50	3	500			DN80	R1"	3	235(200)
KAD200AS(WS)+	24	4		2*250	3.7	310(250)	800(700)			1500(1460)	1150(1040)
KAD250AS(WS)+	28	5.2		2*250	4.4	390(320)	900(760)			1650(1620)	1150(1040)
KAD300AS(WS)+	35	6.5		2*280	5.9	510(420)	900(800)			1700(1700)	1560(1290)
KAD400AS(WS)+	45	7.5		3*250	DN100	R1-1/2"	7.4	680(520)	2000(900)	1900(1840)	1620(1320)
KAD500AS(WS)+	55	9		3*250			8.9	850(830)	2580(2220)	1090(1260)	2320(1890)
KAD600AS(WS)+	65	11.5		3*520	DN125	R1-1/2"	11.1	1050(1020)	2450(2230)	1500(1130)	2510(1930)
KAD800AS(WS)+	85	14		3*550	14.5		1650(1600)	2640(2460)	1300(1260)	2350(2150)	
KAD1000AS(WS)+	105	17.5		8*250	DN150		18.5	2455(2400)	3060(2790)	1170(1260)	2000(2150)

NOTE:

KAD5AS+ means air -cooled model; KAD200AS(WS)+ means air-/water-cooled models available; KAD600WS+ means only water-cooled model is available. In compliance with ISO 7183 standard at the following rated standard conditions. Maximum operation pressure 1.6, 2.5, 4.5, or 5.0 Mpa on request.

Standard conditions

Air inlet temperature: 45°C
Ambient temperature: 35°C
Working pressure: 0.7MPa

Working conditions

Pressure dew point: 3-10°C
Refrigerant: R22 / R134a / R407c / R410a
Working pressure: 0.6-1.3Mpa
Ambient temperature: 5-45°C
Max. inlet temperature: 50°C

Inlet air temperature correction formula

$\frac{\text{Standard temperature}}{\text{Actual temperature}} \times \text{Standard air flow rate} = \text{Actual air flow rate}$

e.g. Standard air flow rate for KAD20AS+ is 2.5 m³/min. If actual inlet air temperature is 65°C, then the actual air rate will be:

$\frac{45^\circ\text{C}}{65^\circ\text{C}} \times 2.5\text{m}^3/\text{min} = 1.73\text{m}^3/\text{min}$

Working pressure correction formula

$\frac{\text{Actual air inlet pressure}}{\text{Standard air inlet pressure}} \times \text{Standard air flow rate} = \text{Actual air flow rate}$

e.g. Standard air flow rate of KAD60AS+ is 7.8m³/min. If the actual inlet pressure is 10bar(g), then actual air flow will be:

$\frac{10\text{bar}}{7\text{bar}} \times 7.8\text{m}^3/\text{min} = 11.14\text{m}^3/\text{min}$

Adekomp reserves the right to make changes without prior notice.

KAD+ Series High Temperature Air-cooled Type Refrigerated Air Dryer

Model	Air capacity (Nm ³ /min)	Power (V/Hz)	Refrigeration compressor power (kW)	Fan power (W)	Air connection	Weight (kg)	Dimension (mm)			
							L	W	H	
KAD5AS+(HT)	0.9	220/50	0.6	90	G1"	60	470	700	600	
KAD10AS+(HT)	1.6					60	470	700	600	
KAD20AS+(HT)	2.5		0.75	135	G1-1/4"	85	530	770	830	
KAD30AS+(HT)	4.0					100	600	900	900	
KAD50AS+(HT)	6.5		1.5	2*90	G2"	160	600	1080	1000	
KAD60AS+(HT)	7.8					165	600	1080	1000	
KAD80AS+(HT)	9.5					190	680	1200	1200	
KAD100AS+(HT)	11.5					235	750	1450	1250	
KAD120AS+(HT)	14		2.8	380/50	2*190	G2-1/2"	265	750	1450	1250
KAD150AS+(HT)	17.5		3.5				2*250	330	750	1650
KAD200AS+(HT)	24	5	DN80		570	1880	890	1770		
KAD250AS+(HT)	28	6.5			660	1880	970	1970		
KAD300AS+(HT)	35	8			770	2390	1030	1910		
KAD400AS+(HT)	45	9.5			3*520	850	2580	1090	2320	
KAD500AS+(HT)	55	12	3*550		DN125	1050	2580	1090	2320	
KAD600AS+(HT)	65	14	3*550			1650	2650	1260	2350	

KAD+ Series High Temperature Water-cooled Type Refrigerated Air Dryer

Model	Air flow (Nm ³ /min)	Power (V/Hz)	Refrigeration compressor power (kW)	Cooling water capacity (Nm ³ /h)	Air connection	Water connection	Weight (kg)	Dimension (mm)		
								L	W	H
KAD150WS+(HT)	17.5	380/50	3.5	3.7	DN80	R1"	420	1980	890	1770
KAD200WS+(HT)	24		4.8	4.4			550	1980	890	1770
KAD250WS+(HT)	28		6.5	5.9			640	1980	970	1970
KAD300WS+(HT)	35		7.2	7.4			730	2490	1030	1910
KAD400WS+(HT)	45		9	8.9	DN100	R1½"	830	2680	1090	2320
KAD500WS+(HT)	55		10.5	11.1			1020	2680	1090	2320
KAD600WS+(HT)	65		14	12.4	DN125	R2"	1600	2740	1260	2350
KAD800WS+(HT)	85		16.5	25.5			1700	2560	1540	2023
KAD1000WS+(HT)	100		19	29.5	DN150	R2½"	2480	2990	1620	2200
KAD1200WS+(HT)	120		23.5	32.5			2520	3090	1720	2180

Rated operating condition:

Air inlet temperature: ≤80°C
Intake pressure: 6-13bar
Ambient temperature: ≤40°C
Pressure dew point: 3-10°C

(Water-cooled) Cooling water temperature: ≤32°C
(Water-cooled) cooling water pressure: 2-4bar
Refrigerant: R22, R134a, R410a, R407c

KRD SERIES REGENERATIVE DESICCANT AIR DRYER

HEATLESS REGENERATIVE DESICCANT AIR DRYER

Refrigerated compressed air dryers are limited to a minimum pressure dewpoint of about +3°C. When a higher standard of dryness is required. KRD desiccant dryers are the perfect answer with "activated alumina", for a pressure dewpoint of -40°C.

[WORKING PRINCIPLE]

The KRD dries the air by operating four solenoid valves to alternate the airflow between two columns.

(1) The compressed air flows from the bottom to the top of one of the two columns (A) for a certain period of time and transfers water vapour to the adsorbent substance. At the same time, 14% of the dried air passes through a by-pass, expands to atmospheric pressure and flows from the top to the bottom of the other column (B) removing the moisture that the adsorbent substance had adsorbed during the previous cycle. This phase, known as the regeneration phase, is shorter than the drying phase in order to allow the regenerated column time to return to operating pressure. (2) A new cycle begins, passing the incoming compressed air into column (B) while column (A) is now regenerated.

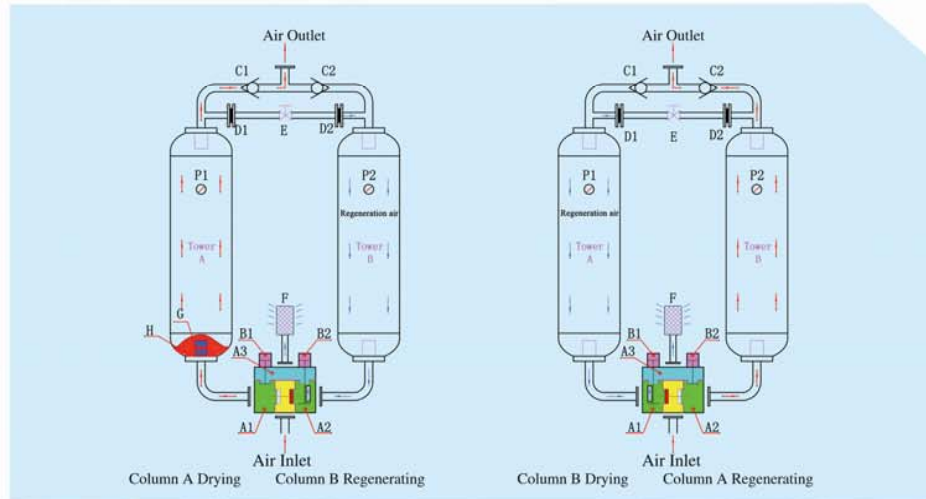


[PRODUCT FEATURES]

Consistent outlet pressure and dew point

- Accurate columns design to ensure minimum of 4.8 seconds contact time between inlet air and adsorbent substance for the desired dew point.
- Extra desiccant filled to compensate bed aging, this ensures optimum performance over the expected life span.
- Modern design flow diffusers ensure air flow evenly through desiccant bed and prevent "channeling" effect.

WORKING PRINCIPLE DIAGRAM



EXTERNALLY HEATED REGENERATIVE DESICCANT AIR DRYER

[PRODUCT INTRODUCTION]

Externally heated regenerative desiccant air dryer is developed based on the successful design of the heatless type and heated type desiccant air dryers. The purge air is pre-heated before regeneration to reduce its required capacity in order to achieve energy saving. It avoids the disadvantage of short switching period of heatless type desiccant air dryer, and at the same time it consumes much less heating energy like heated type desiccant air dryer. This is the energy saving desiccant air dryer you can rely on!

[WORKING PRINCIPLE]

This series of desiccant dryer incorporates the working principles of pressure swing adsorption and temperature swing adsorption. Desiccant absorbs water moisture in drying column and being regenerated with high quality dried and heated purge air in regeneration column by air thermal diffusion and high pressure difference mechanisms.

[STANDARD INSTRUMENTATION]

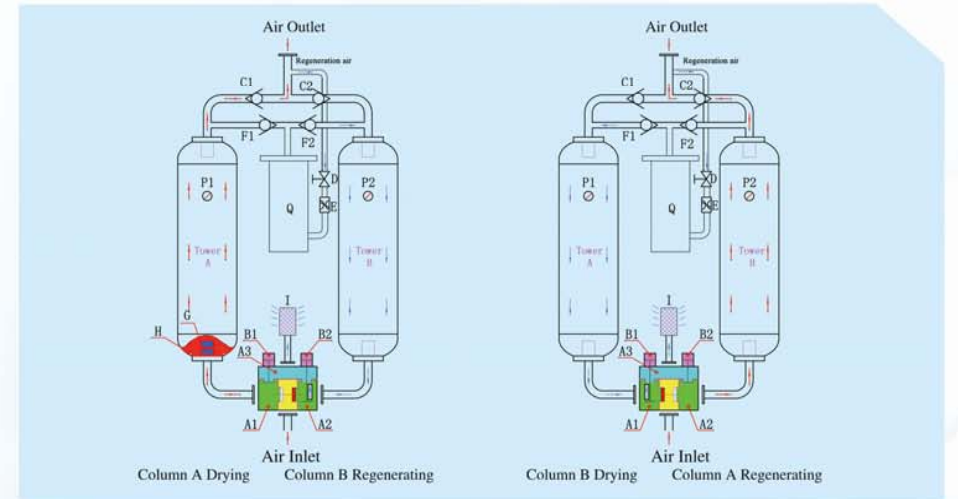
- Left and right column pressure gauges
- Temperature transducer
- Standard pilot air filter and regulator
- KRD series electronic control panel



[FILTRATION PACKAGE WITH BY-PASS PIPING]

KAF series pre-filter P and coalescing filter S forming a filtration package can be installed in various by-pass arrangements.

WORKING PRINCIPLE DIAGRAM



KRD Series Heatless Regenerative Desiccant air Dryer

[WORKING CONDITIONS]

- Purge air: ≤12~15%
- Working pressure: 0.6~1.0Mpa
- Inlet content: ≤0.1mg/m³
- Outlet air pressure dew point: -20°C~-70°C
- Desiccant: Activated alumina+Molecular sieves
- Working periods: T=4~20min.
- Inlet temperature: 0°C~45°C

[TECHNICAL DATA]

Model	Air flow (Nm ³ /min)	Power (V/Hz)	Air connection	Weight (kg)	Dimension (mm)		
					L	W	H
KRD-0.7WXF	0.72	220/50	DN15	55	500	185	1050
KRD-1WXF	1.2			DN25	102	605	560
KRD-2WXF	2.4		145		605	560	1688
KRD-3WXF	3.8		180		750	560	1568
KRD-6WXF	6.5		DN40	400	973	600	1813
KRD-8WXF	8.5			430	1062	600	1950
KRD-10WXF	10.7		DN50	470	1162	900	2090
KRD-12WXF	13			550	1162	900	2090
KRD-16WXF	17			DN65	625	1374	1000
KRD-20WXF	23		795		1374	1000	2208
KRD-25WXF	27		DN80	900	1418	1000	2207
KRD-30WXF	32			1130	1616	1100	2208
KRD-40WXF	45		DN100	1440	1666	1100	2393
KRD-50WXF	55			1900	2016	1200	2673
KRD-60WXF	65			2200	2218	1300	2693
KRD-80WXF	85		DN125	2360	2218	1300	2693
KRD-100WXF	100			5100	2540	1350	2693

KRD Series Externally Heated Regenerative Desiccant air Dryer

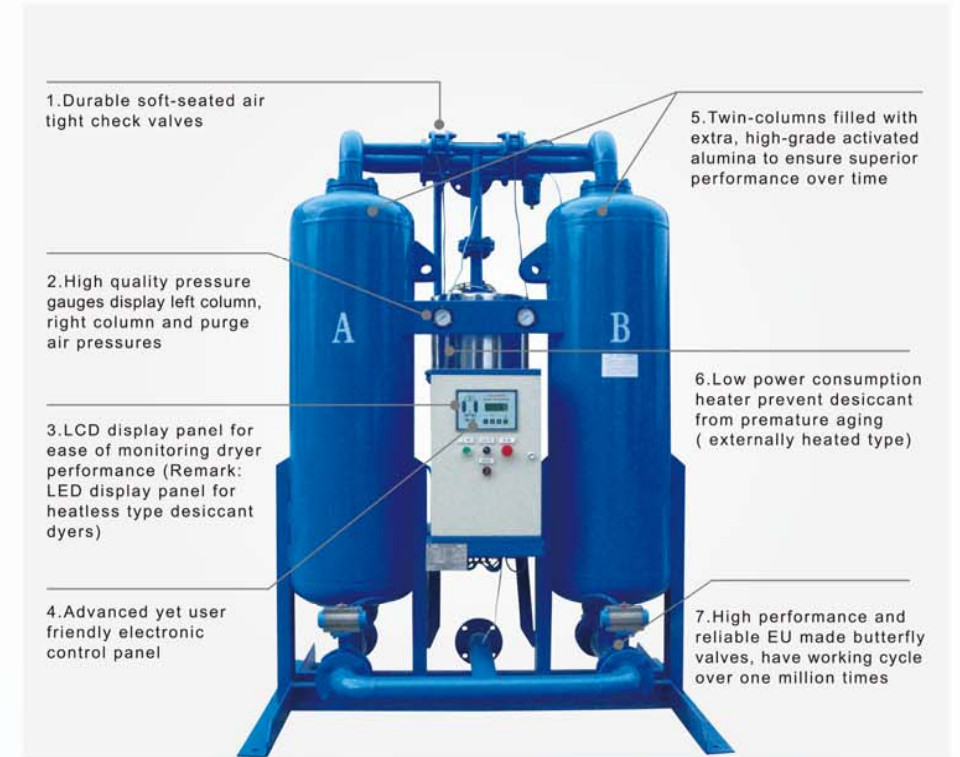
[WORKING CONDITIONS]

- Purge air: ≤6~8%
- Working pressure: 0.6~1.0Mpa
- Inlet content: ≤0.1mg/m³
- Outlet air pressure dew point: -20°C~-40°C
- Desiccant: Activated alumina+Molecular sieves
- Working periods: T=60~180min.
- Inlet temperature: 0°C~45°C

[TECHNICAL DATA]

Model	Air flow (Nm ³ /min)	Heater power (kW)	Power (V/Hz)	Air connection	Weight (kg)	Dimension (mm)		
						L	W	H
KRD-1MXF	1.2	1.2	220V/50hz	DN25	144	605	560	1188
KRD-2MXF	2.4	1.5			182	605	560	1646
KRD-3MXF	3.8	2		211	750	560	1620	
KRD-6MXF	6.5	3.0		DN40	430	973	800	1818
KRD-8MXF	8.5	3.5			470	1062	900	1950
KRD-10MXF	10.7	3.9		DN50	550	1162	900	1880
KRD-12MXF	13	3.9			700	1162	900	2090
KRD-16WXF	17	5.1			DN80	780	1374	1100
KRD-20MXF	23	5.7		930		1374	1100	2208
KRD-25MXF	27	7		DN100	1000	1426	1150	2160
KRD-30MXF	32	8.2			1250	1616	1200	2208
KRD-40MXF	45	110			1530	1666	1200	2402
KRD-50MXF	55	12.5		DN125	2100	2016	1400	2472
KRD-60MXF	65	15			2450	2016	1400	2672
KRD-80MXF	85	20.4		DN150	2800	2218	1300	2693
KRD-100MXF	100	30			5240	2820	1635	3014

ADVANCED DESIGN



GXF+ BLOWER PURGE DESICCANT AIR DRYER

Adekom's GXF+ blower purge desiccant air dryers are designed for outstanding industrial performance and a long lifetime of reliable operation. They eliminate moisture completely before it can cause any damage to your compressed air net or production equipment. GXF+ dryers use a combination of air from an external blower, heat and minimal compressed air, and incorporate unique, patented technological innovations and energy-saving options. GXF+ dryers are available in a range of sizes with a guaranteed dewpoint down to -40°C /-40°F (optionally -70°C/-100°F) and come in an IP54 protected cubicle.

CUSTOMER BENEFITS

- **High reliability** - GXF+ dryers eliminate system failures, production downtime and costly repairs by removing moisture from compressed air with a pressure dewpoint as low as -70°C/-100°F. Up to 30% desiccant overflow and the long lifetime of the desiccant further enhance reliability.
- **Maximum energy savings** - GXF+ dryers incorporate energy-saving features that cut your carbon footprint. A low pressure drop below 0.2 bar/2.9 psi drives down energy costs. Dewpoint sensing and control adapts the energy consumption to the real load of the dryer.
- **Easy installation** - Your GXF+ dryer is delivered ready for use with heaters, sensors and the control unit already wired and connected.
- **Advanced control and monitoring** - The advanced PLC control and monitoring system gives clear indication of dryer status, operation cycle and alarms. It includes alarms for low inlet pressure, blower, heater and valve operation, plus limit switches, pressure and temperature sensors.
- **Minimum maintenance** - All internal components are easily accessible to facilitate maintenance. The use of high-grade desiccant and high-quality valves assumes long maintenance intervals.
- **Durability** - A proven, rugged design for the switching valves and the blower, the most important moving components in the dryer, significantly improves the lifetime of your GXF+ dryer.

How Blower Purge Desiccant Dryers Work

(with and without zero purge cooling):

The blower takes ambient air and blows it over the external heater. The heated air is then sent through the saturated desiccant, forcing the adsorbed moisture out, from bottom to top.

Cooling

Zero purge: After the heating, the hot tower desiccant is cooled. Cooling is done by sending air from the hot vessel over a cooler and back into the hot tower, from bottom to top.
 Purge: After the heating, the hot tower desiccant is cooled. Cooling is done by expanding dry compressed air from the outlet of the adsorbing vessel over the hot reactivated tower, from top to bottom.

Technical Parameters:

Model	Air flow (Nm ³ /min)	Blower power (kW)	Electric heater power (kW)	Air connection	Weight (kg)	Dimension (mm)		
						L	W	H
KRD-20GXF	23	0.75	11	DN80	1115	1830	1750	2630
KRD-25GXF	27	1.75	13	DN80	1122	1830	1750	2845
KRD-30GXF	33	1.75	16	DN80	1352	1830	1750	3060
KRD-40GXF	45	3.4	20	DN100	2430	2316	2050	2742
KRD-50GXF	55	5.5	28	DN125	2430	2500	1950	3142
KRD-60GXF	65	5.5	32	DN125	3637	2570	2050	3024
KRD-100GXF	100	7.5	32	DN150	4660	2680	1940	3112

KAF SERIES COMPRESSED AIR INLINE FILTER

Compressed air inline filters are now recognized as being an integral part of any system. Few, if any, compressed air system can be operated successfully without high efficiency inline air filters. Production and process standards demand the finest quality air and end products are now manufactured to such tight tolerance that no contamination is permitted.



Familiar Four Kinds of Pollutant in Your Compressed Air System

(Water Oil Fume Particles Odour)

Compressed air is the most widely used source of basic power in industry, which features such characteristics including convenience, rapidness, safe and cost saving. However, the following pollutants exist in the system and they combine into acid oil mud with causticity, which is the pollution source in the compressed air.

Water: Water moisture produced by air through compression and condensation fills the air pipes to cause rust and erode pipes.

Oil Fume: Apart from small amount of oil pressure in air, lubricated air compressors produce oily air to pollute products and production processes as well.

Particles: Solid particles exist in air and produced through high temperature operation inside the air compressors erode pneumatic tools, motors and parts in cylinders, cause blocking or breaking.

Odour: Toxic gases including hydrocarbon and carbon monoxide not only affect the working efficiency of the employees, but also pollute the respiratory air.

These pollutants not only rust air pipes, increase voltage (operation cost), damage precise instrument and cause machines malfunction. In addition, they even influence the product quality, reduce production efficiency, endanger body health and increase and production cost. Dry and clean compressed air is your best partner, it ensures the quality of your products and reduces the possibility of production down time, so as to save you a considerable amount of maintenance expenses and production costs.

Different Filtration Grades to Meet with Your Requirements

Filter Grade	Pre-Filter	
	Air Quality	
	Solid and liquid particle removal down to:	maxi. remaining oil content
P	3 micron	/

Filter Grade	Coalescing Filter	
	Air Quality	
	Solid and liquid particle removal down to:	maxi. remaining oil content
M	1 micron	0.5 ppm
S	0.01 micron	0.01 ppm

Filter Grade	Activated Carbon Filter	
	Air Quality	
	Solid and liquid particle removal down to:	maxi. remaining oil content
A		0.003 ppm

APPLICATION GUIDE FOR COMPRESSED AIR INLINE FILTERS

Four filtration Grades are Available

P Grade	Particle removal pre-filter	Installed after air compressor and before refrigerated dryer to remove solid and liquid particle sizes down to 3 micron.
M Grade	Oil removal filter	Installed before S grade filter or after desiccant dryer to remove solid and liquid particle sizes down to 1 micron and max. remaining oil content of 0.5 ppm.
S Grade	High Efficiency Oil Mist Removal After-Filter	Installed before desiccant air dryer filter or after refrigerated dryer to remove oil vapour down to 0.01 micron and max. remaining oil content of 0.001 ppm. Install M grade filter before is recommended.
A Grade	Activated Carbon Filter	Installed After S grade filter to remove hydrocarbons or odours of max. remaining oil content of 0.003 ppm.

Note: P, M, S grade inline filter elements could be used continuously for 5000-8000 hours, while A grade Inline filter element could be used continuously for 3000 hours.

KAF Series Compressed Air Inline Filter Technical Data

Model	Air flow (Nm ³ /min)	Air connection (RP)	Weight (kg)	Dimension (mm)		Working pressure bar(g)	
				H	W		
KAF007	0.7	Rp3/4"	1.1	267	89	≤16 bar	
KAF015	1.5		1.1	267	89		
KAF024	2.4		2.2	366.5	109		
KAF035	3.5	Rp1-1/2"	2.2	366.5	109		
KAF060	6.0		2.7	515	109		
KAF090	9.0	Rp2-1/2"	4.5	550	150		
KAF120	12.0		7	928	150		
KAF150	15.0		8	928	150		
KAF200	20.0	DN80	27	780	400		≤10 bar
KAF240	24.0		30	780	400		
KAF360	36.0		35	1000	405		
KAF450	45.0	DN100	40	1005	565		
KAF550	55.0		45	1005	565		
KAF600	65.0	DN125	60	1205	570		
KAF900	90.0	DN150	100	1150	670		
KAF1200	120.0	DN150	160	1430	650		

Note:

Nominal air flows referred to 20°C and 1 bar(a); operating pressure 7 bar(g). Adekom reserves the right to make changes without prior notice. For high pressure models, please consult manufacturer or your local sales agent for further inquiry.

ADEKOM KWS Series Air / Water Separator

99% Liquid water can be removed by installing air/water separator before compressed air inline filters and drying equipments, which can guarantee better performance of the downstream purifying equipment.

Made entirely of totally rustproof material, these general purpose separators feature very efficient separation by cyclone. Reliable automatic drain devices prevent condensed water from building up in the coolers. Maintenance-free with no moving parts, they have an automatic and manual drain.



Working condition and technical data:

Designed operation pressure: 7.0 bar
 Maximum operation pressure (KWS035-120): ≤16.0 bar
 Maximum operation pressure (KWS150-1000): ≤10.0 bar
 Maximum operation temperature: ≤66 °C
 Minimum operation temperature: >1.5 °C



KWS Series Air / Water Separator Technical Parameters

Model	Air Flow (Nm ³ /min)	Air Connection	Dimension(mm)			Weight (kg)
			A	H1	H2	
KWS035	3.0	Rp 1"	125	380	335	2
KWS060	6.0	Rp 1-1/2"	125	380	335	2.8
KWS090	11	Rp 2"	125	495	455	4.5
KWS150	16	Rp 2"	135	630	590	5.5
KWS200	21.5	DN80	400	600	410	30
KWS240	27	DN80	400	660	460	30
KWS360	35	DN100	400	800	600	60
KWS450	45	DN100	460	760	680	62
KWS600	65	DN125	460	800	680	100
KWS800	78	DN150	565	1205	950	110
KWS1000	110	DN150	670	1260	985	120

Note: Maximum operation pressure 2.0; 2.5; 3.0; 4.0 or 5.0 Mpa on request.

Pressure correction coefficient:

Working pressure (bar)	3	5	6	7	8	10	12	14	16
Coefficient	0.5	0.75	0.88	1	1.13	1.25	1.34	1.4	1.45