

REFRIGERATED TYPE DRYAIR DK COMPRESSED AIR DRYERS

- 3 °C Pressure dew point
- Very Low Pressure Drop
- Designed for Tropical Conditions
- Dryer easily runs at 60 °C Max. Inlet Temp. and 50 °C Ambient Temp. due to R134a refrigerant (all through the range) and oversized condenser.

COMPACT DESIGN

As the canopy of the dryer is designed not to leave any unused space inside, Dryair DK series air dryers cover minimal space where they are placed.

ENERGY SAVING DEVICE

Digital Controller with a lot of economy features and alarm capabilities is standard for all 3Ph dryers (Dryair DK 140 and up)

ALUMINUM HEAT EXCHANGER IS STANDARD (FROM DRYAIR DK 40)

Very Low Pressure Drop (100mbar)

Very Efficient (3 °C real Pressure dew point)

SCROLL COMPRESSORS (FROM DRYAIR DK 120)

Scroll Compressors which are energy efficient and durable against liquid shocks are employed.



EASY TO ACCESS

Easy to access in to the cooling components in seconds by the help of Screw free panels and plastic handles.



ELECTRICAL WIRES ARE SEPERATED FROM REFRIGERANT SIDE

No electrical wires inside the refrigerant side of the dryer. Electrical Box has an external cover which has an access from the outside of the dryer. No need to open dryer panels to go in to electrical box.

DRYAIR DK Series

Refrigerated Type Dryair DK Compressed Air Dryers

DALGAKIRAN

TECHNICAL DATA

MODEL	Capacity*		Connection Size	Voltage**	Refrigerant	Maximum Working Pressure	Maximum Ambient Temperature	Maximum Inlet Temperature	Included Filter and Type	Dimensions (mm)			Weight
	m ³ /min	cfm				bar	°C	°C		Length	Width	Height	Kg
Dryair DK 10	0,35	12	G ½"	230V/1/50 Hz	R-134a	16	50	60	GKO 45 MX+MY	423	393	567	32
Dryair DK 20	0,58	20	G ½"	230V/1/50 Hz	R-134a	16	50	60	GKO 45 MX+MY	423	393	567	32
Dryair DK 30	0,83	29	G ½"	230V/1/50 Hz	R-134a	16	50	60	GKO 45 MX+MY	423	393	567	32
Dryair DK 35	1,05	37	G ½"	230V/1/50 Hz	R-134a	16	50	60	GKO 70 MX+MY	423	393	567	35
Dryair DK 40	1,45	51	G ¾"	230V/1/50 Hz	R-134a	16	50	60	GKO 150 MX+MY	473	453	832	51
Dryair DK 50	2,17	77	G ¾"	230V/1/50 Hz	R-134a	16	50	60	GKO 150 MX+MY	473	453	832	53
Dryair DK 60	2,83	100	G ¾"	230V/1/50 Hz	R-134a	16	50	60	GKO 150 MX+MY	473	453	832	55
Dryair DK 70	3,30	117	G 1 ½"	230V/1/50 Hz	R-134a	16	50	60	GKO 500 MX+MY	553	503	874	78
Dryair DK 80	4,7	166	G 1 ½"	230V/1/50 Hz	R-134a	16	50	60	GKO 500 MX+MY	553	503	874	83
Dryair DK 90	5,9	208	G 1 ½"	230V/1/50 Hz	R-134a	16	50	60	GKO 500 MX+MY	553	503	874	86
Dryair DK 100	7,8	275	G 2"	230V/1/50 Hz	R-134a	16	50	60	GKO 851 MX+MY	678	648	1157	160
Dryair DK 110	9,8	346	G 2"	230V/1/50 Hz	R-134a	16	50	60	GKO 1210 MX+MY	678	648	1157	165
Dryair DK 120	13,8	487	G 2"	230V/1/50 Hz	R-134a	16	50	60	GKO 1210 MX+MY	948	728	1370	220
Dryair DK 130	18,3	646	G 2"	230V/1/50 Hz	R-134a	16	50	60	GKO 1210 MX+MY	948	728	1370	230
Dryair DK 140	21,8	770	G 3"	400V/3/50Hz	R-134a	16	50	60	GKO 1820 MX+MY	948	798	1460	270
Dryair DK 150	27,1	957	G 3"	400V/3/50Hz	R-134a	16	50	60	GKO 1820 MX+MY	948	798	1460	285
Dryair DK 160	36,7	1296	G 3"	400V/3/50Hz	R-134a	16	50	60	GKO 2700 MX+MY	1163	778	1725	392
Dryair DK 170	43,7	1543	G 3"	400V/3/50Hz	R-134a	16	50	60	GKO 2700 MX+MY	1163	778	1725	410
Dryair DK 180	52,4	1850	DN100	400V/3/50Hz	R-134a	16	50	60	Not Included	1397	847	1770	492
Dryair DK 190	61,6	2175	DN100	400V/3/50Hz	R-134a	16	50	60	Not Included	1397	847	1770	520
Dryair DK 200	80,0	2825	DN100	400V/3/50Hz	R-134a	16	50	60	Not Included	1467	1077	1930	696
Dryair DK 210	92,0	3249	DN100	400V/3/50Hz	R-134a	16	50	60	Not Included	1467	1077	1930	718
Dryair DK 220	109,7	3874	DN150	400V/3/50Hz	R-134a	16	50	60	Not Included	2188	1062	1925	900
Dryair DK 230	123,9	4375	DN150	400V/3/50Hz	R-134a	16	50	60	Not Included	2188	1062	1925	925
Dryair DK 240	141,6	5001	DN150	400V/3/50Hz	R-134a	16	50	60	Not Included	2247	1200	2044	975
Dryair DK 250	165,2	5834	DN200	400V/3/50Hz	R-134a	16	50	60	Not Included	2247	1200	2044	1100
Dryair DK 260	196,7	6946	DN200	400V/3/50Hz	R-134a	16	50	60	Not Included	2550	1550	2100	1400

- DALGAKIRAN reserves its rights to change the specifications without any prior notice.

* Capacity is given at atmospheric Pressure at 20 °C (ISO 1217) in accordance with norms ISO 7183-8573-1 and Pneurop 6611- Class 4-7 bar -35 °C inlet - 25 °C ambient.

** Consult sales representative for optional voltages

PRE FILTER (X)

Efficiency rating:
1 Micron particle
removal & 0.5mg/m³
oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle
removal & 0.01mg/m³
oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle
removal
(removes desiccant
particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle
removal & 0.003 mg/m³
oil removal

CORRECTION FACTORS FOR DRYAIR DK AIR DRYERS:

Inlet Temperature °C	30	35	40	45	50	60	-	-
F1	1,29	1	0,92	0,78	0,65	0,45	-	-
Ambient Temperature °C	20	25	30	35	40	50	-	-
F2	1,05	1	0,98	0,93	0,84	0,7	-	-
Pressure Bar	4	6	7	8	10	12	14	16
F3	0,80	0,94	1	1,04	1,11	1,16	1,22	1,25

DRYAIR DK Dryer Sizing Example:

If a compressor delivers 20 m³/min at 6 bar, the dryer inlet temperature is 40°C and the ambient temperature is 30°C, please choose your dryer as follows:

Dryer Capacity = 20 / 0.94 / 0.92 / 0.98 = 23,6 m³/min

The correct dryer model for this application is Dryair DK 150.