



# DRYAIR DK Series

## Downstream Equipments

**DALGAKIRAN**  
COMPRESSED AIR TECHNOLOGIES

Dryair DK SERIES 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 / 110 / 120 / 130 / 140 / 150 / 160 / 170 / 180 / 190 / 200 / 210 / 220 / 230 / 240 / 250 / 260

Dalgakiran Dryair DK series clean and dry the compressed air, till the dewpoint reachesto +30 °C. Integrated 2 air filters clean compressed air till 0,01 micron particle size and 0,01 mg/m<sup>3</sup> max. oil carryover.

### > 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, DK series 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 DK 40)

Very Low Pressure Drop (100mbar), Very Efficient (3°C real pressure dew point)

### > EASY TO ACCESS

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

### > SCROLL COMPRESSORS (from DK 120)

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

### > ELECTRICAL WIRES ARE SEPARATED 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.



## TECHNICAL DATA

MODEL	Voltage	Capacity (m³/h)	Connection Size	Refrigerant	Maximum Working Pressure (bars)	Maximum Ambient Temperature (°C)	Maximum Inlet Temperature (°C)	Inlet and Outlet Filters	Length (mm)	Width (mm)	Height (mm)
Dryair DK 10	230/1/50	21	1/2"	R-134a	16	50	60	Included	413	363	557
Dryair DK 20	230/1/50	35	1/2"	R-134a	16	50	60	Included	413	363	557
Dryair DK 30	230/1/50	50	1/2"	R-134a	16	50	60	Included	413	363	557
Dryair DK 40	230/1/50	87	3/4"	R-134a	16	50	60	Included	473	453	832
Dryair DK 50	230/1/50	130	3/4"	R-134a	16	50	60	Included	473	453	832
Dryair DK 60	230/1/50	170	3/4"	R-134a	16	50	60	Included	473	453	832
Dryair DK 70	230/1/50	198	1 1/2"	R-134a	16	50	60	Included	553	503	874
Dryair DK 80	230/1/50	283	1 1/2"	R-134a	16	50	60	Included	553	503	874
Dryair DK 90	230/1/50	354	1 1/2"	R-134a	16	50	60	Included	553	503	874
Dryair DK 100	230/1/50	467	2"	R-134a	16	50	60	Included	678	648	1157
Dryair DK 110	230/1/50	588	2"	R-134a	16	50	60	Included	678	648	1157
Dryair DK 120	230/1/50	825	2"	R-134a	16	50	60	Included	948	728	1370
Dryair DK 130	230/1/50	1100	2"	R-134a	16	50	60	Included	948	728	1370
Dryair DK 140	400/3/50	1310	3"	R-134a	16	50	60	Included	948	798	1460
Dryair DK 150	400/3/50	1628	3"	R-134a	16	50	60	Included	948	798	1460
Dryair DK 160	400/3/50	2200	3"	R-134a	16	50	60	Included	1163	778	1725
Dryair DK 170	400/3/50	2620	3"	R-134a	16	50	60	Included	1163	778	1725
Dryair DK 180	400/3/50	3144	DN100	R-134a	16	50	60	Not Included	1397	847	1770
Dryair DK 190	400/3/50	3696	DN100	R-134a	16	50	60	Not Included	1397	847	1770
Dryair DK 200	400/3/50	4800	DN100	R-134a	16	50	60	Not Included	1467	1077	1930
Dryair DK 210	400/3/50	5522	DN100	R-134a	16	50	60	Not Included	1467	1077	1930
Dryair DK 220	400/3/50	6584	DN150	R-134a	16	50	60	Not Included	2188	1062	1925
Dryair DK 230	400/3/50	7434	DN150	R-134a	16	50	60	Not Included	2188	1062	1925
Dryair DK 240	400/3/50	8496	DN150	R-134a	16	50	60	Not Included	2697	897	1975
Dryair DK 250	400/3/50	9912	DN200	R-134a	16	50	60	Not Included	2697	897	1975
Dryair DK 260	400/3/50	11800	DN200	R-134a	16	50	60	Not Included	2550	1550	2100

1. Capacity is given at atmospheric pressure at 20 °C (ISO 1217) in accordance with norms ISO 7183-8573-1 and Pneurop 6611 (7 bar -35 °C IN-25 °C ambient, 2-7 °C dew point)

2. DALGAKIRAN reserves its rights to changes the specifications without any prior notice.

### 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	0,8	0,94	1	1,04	1,11	1,16	1,22	1,25

#### Example for choosing the correct dryair air dryer model;

If compressor delivers 200 m<sup>3</sup> / h at 6 bars, the dryer inlet temperature is 40 °C and the ambient temperature is 30 °C, please choose your dryer as follows;

$$\text{Dryer Capacity} / 200 / 0.94 / 0.92 / 0.98 = 236 \text{ m}^3 / \text{h}$$

The correct dryer model for this application is DryAir DK 80

