

DK SERIES



21 to 11800 m³/h

REFRIGERATION 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 temperature thanks to R134a refrigerant (all through the range) and oversized condenser



FLEXIBLE



PERFORMING



COMPACT



ECONOMICAL



CHARACTERISTICS

COMPACT DESIGN

As the canopy of the dryer is designed not to leave any unused space inside, DK 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 dryers

ALUMINIUM HEAT EXCHANGER

Very low pressure drop (100mbar)
Very efficient (3°C real pressure dew point)

SCROLL COMPRESSORS (FROM DK 140)

Scroll compressors which are energy efficient and durable against liquid shocks are employed

EASY ACCESS

Easy access to every components

INTEGRATED COMPRESSED AIR FILTERS (UP TO DK 170)

The filter with X element (coalescing filter for water removal) is used for up to 1 micron particules and the filter with Y element (coalescing filter for oil removal) is used to remove oil down to 0.01 ppm



DIGIPRO CONTROLLER (up to DK130)



ESD CONTROLLER (from DK140)

SPECIFICATIONS

MODEL	VOLTAGE	CAPACITY** (m ³ /h)	CONNECTION SIZE	REFRIGERANT	MAX WORKING PRESSURE (bar)	MAX AMBIENT TEMP. (°C)	MAX INLET TEMP. (°C)	INTEGRATED FILTERS	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
DK10	230/1/50	21	1/2"	R-134a	16	50	60	1*GO45MX + 1*GO45MY	452	444	567
DK20	230/1/50	35	1/2"	R-134a	16	50	60	1*GO45MX + 1*GO45MY	452	444	567
DK30	230/1/50	50	1/2"	R-134a	16	50	60	1*GO45MX + 1*GO45MY	452	444	567
DK40	230/1/50	87	3/4"	R-134a	16	50	60	1*GO150MX + 1*GO150MY	473	453	832
DK50	230/1/50	130	3/4"	R-134a	16	50	60	1*GO150MX + 1*GO150MY	473	453	832
DK60	230/1/50	170	3/4"	R-134a	16	50	60	1*GO150MX + 1*GO150MY	473	453	832
DK70	230/1/50	198	1 1/2"	R-134a	16	50	60	1*GO500MX + 1*GO500MY	553	503	874
DK80	230/1/50	283	1 1/2"	R-134a	16	50	60	1*GO500MX + 1*GO500MY	553	503	874
DK90	230/1/50	354	1 1/2"	R-134a	16	50	60	1*GO500MX + 1*GO500MY	553	503	874
DK100	230/1/50	467	2"	R-134a	16	50	60	1*GO851MX + 1*GO851MY	678	648	1157
DK110	230/1/50	588	2"	R-134a	16	50	60	1*GO1210MX + 1*GO1210MY	678	648	1157
DK120	230/1/50	825	2"	R-134a	16	50	60	1*GO1210MX + 1*GO1210MY	948	728	1370
DK130	230/1/50	1100	2"	R-134a	16	50	60	1*GO1210MX + 1*GO1210MY	948	728	1370
DK140	400/3/50	1310	3"	R-134a	16	50	60	1*GO1820MX + 1*GO1820MY	948	798	1460
DK150	400/3/50	1628	3"	R-134a	16	50	60	1*GO1820MX + 1*GO1820MY	948	798	1460
DK160	400/3/50	2200	3"	R-134a	16	50	60	1*GO2700MX + 1*GO2700MY	1163	778	1725
DK170	400/3/50	2620	3"	R-134a	16	50	60	1*GO2700MX + 1*GO2700MY	1163	778	1725
DK180	400/3/50	3144	DN100	R-134a	16	50	60	-	1397	847	1770
DK190	400/3/50	3696	DN100	R-134a	16	50	60	-	1397	847	1770
DK200	400/3/50	4800	DN100	R-134a	16	50	60	-	1467	1077	1930
DK210	400/3/50	5522	DN100	R-134a	16	50	60	-	1467	1077	1930
DK220	400/3/50	6584	DN150	R-134a	16	50	60	-	2188	1062	1925
DK230	400/3/50	7434	DN150	R-134a	16	50	60	-	2188	1062	1925
DK240	400/3/50	8496	DN150	R-134a	16	50	60	-	2247	1200	2044
DK250	400/3/50	9912	DN200	R-134a	16	50	60	-	2247	1200	2044
DK260	400/3/50	11800	DN200	R-134a	16	50	60	-	2550	1550	2100

* MAC3 reserves its rights to change the specifications without any prior notice

** Capacity is given at atmospheric pressure at 20 OC (ISO 1217) in accordance with norms ISO 7183-8573-1 and Pneuop 6611- Class 4-7 bar -35 OC IN -25 OC ambient

CORRECTION FACTORS FOR 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

Example for choosing the correct DK air dryer model:

If a compressor delivers 200 m³/h at 6 bar, the dryer inlet temperature is 40OC and the ambient temperature is 30OC, please choose your dryer as follows:

Dryer Capacity = 200 / 0.94 / 0.92 / 0.98 = 236 m³/h

The correct dryer model for this application is DK80

YOUR DISTRIBUTOR: