



DK-HP Series

Downstream Equipments

DK 33 HP / 38 HP / 54 HP / 87 HP / 135 HP / 190 HP / 218 HP / 256 HP /
355 HP / 412 HP / 461 HP / 577 HP / 705 HP / 904 HP / 1149 HP / 1305 HP /
1648 HP / 1873 HP / 2309 HP / 2444 HP / 2932 HP

Dalgakiran Dryair DK HP series, dry the compressed air (up to 50 bar) till + 3 °C dew point. DK HP series are used in many high pressure applications because of its reliable and user friendly design.

REFRIGERATED TYPE HIGH PRESSURE COMPRESSED AIR DRYERS

Durable, compact and efficient Dalgakiran dryers will soon become the global standard for performance. Heat Exchanger design is unique and patented. The Mono-Block Heat Exchangers are constructed with thick, steel tubes specially treated to resist corrosion. The heavy-duty steel construction makes it the most reliable, long lasting heat exchanger available. Specially designed louvered copper plates are welded to the steel tubes with a proprietary technology. This design achieves a hyper-efficient 100 % contact between the air and refrigerant circuits delivering state-of-art performance and great cooling efficiency. The state-of-the-art Mono-Block design features very low differential pressure delivering real energy savings.

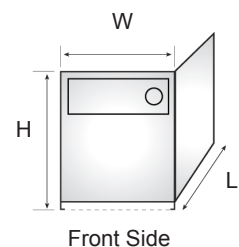
The Mono-Block Heat-Exchanger is compact and allows the dryer to be smaller and reducing the space required for the dryer. Dalgakiran offers a variety of Mono-Block dryers equipped with the Mono-Block Heat-Exchanger to meet a full range of capacity and power requirements.



Maximum Pressure:	DK 33 HP - DK 412 HP / 50 Bar DK 461 HP -DK 2932 HP / 45 bar
Maximum Temperature:	Inlet air 70°C Ambiant 60°C
Automatic Drain / Timed Drain Pneumatic operated membrane valve (2)	

OPTIONS:

- Condansate drain
- Ambient temperature until -20°C
- Ambient temperature until +60°C
- Water condenser
- Digital controller
- Micro processor
- Zero loss drain



Front Side

CORRECTION FACTORS FOR DK-HP SERIES

PRESSURE BAR	20	25	30	35	40	45	50	-	-	-	-
F1	1,19	1,10	1,07	1,04	1,02	1	0,98	-	-	-	-
AMBIENT TEMPERATURE °C	-	-	-	-	20	25	30	35	40	42	-
F2 (R134a) (R404a)	-	-	-	-	0,93	1	1,07	1,15	1,22	1,27	-
	-	-	-	-	-	1	1,11	1,23	1,3	1,35	-
INLET TEMPERATURE °C	-	-	-	-	30	35	40	45	50	55	60
F3	-	-	-	-	0,83	1	1,18	1,38	1,59	1,83	2,04

TECHNICAL DATA

TYPE	FLOW			CONDENSER AIR FLOW m ³ /h	POWER kw	FITTINGS (**) BSP	NOISE dB	PR DROP Bar	DIMENSIONS (mm)			WEIGHT (with box) Kg	DRAIN
	l/min	(m ³ /h)	(cfm)						W	L	H		
DK 33 HP	548	33	19	100	0.25	3/8"	53	0.01	570	440	490	30	1
DK 38 HP	631	38	22	370	0.25	3/8"	52	0.02	570	440	490	32	1
DK 54 HP	896	54	32	340	0.25	3/8"	53	0.03	570	440	490	32	1
DK 87 HP	1444	87	51	370	0.28	3/4"	52	0.02	760	490	530	54	1
DK 135 HP	2241	135	79	340	0.35	3/4"	51	0.05	760	490	530	55	1
DK 190 HP	3154	190	112	410	0.58	3/4"	53	0.06	760	490	530	57	1
DK 218 HP	3619	218	128	800	0.66	3/4"	58	0.08	760	490	530	62	1
DK 256 HP	4250	256	151	980	0.8	1"	59	0.13	780	575	730	88	1
DK 355 HP	5893	355	209	980	1.1	1"	63	0.16	780	575	730	92	1
DK 412 HP	6839	412	242	980	1.3	1"	63	0.22	780	575	730	92	1

VOLTAGE: 230V/1/50Hz. Option. 115V/1/60Hz. (***) Connection back side.

TECHNICAL DATA

TYPE	FLOW			CONDENSER AIR FLOW m ³ /h	CONDENSER WATER FLOW m ³ /h	POWER kw	FITTINGS (**) BSP	DIMENSIONS (mm)			WEIGHT (with box) Kg	DRAIN
	m ³ /min	(m ³ /h)	(cfm)					W	L	H		
DK 461 HP	8	461	271	980	—	1.1	1 1/2"	620	730	1040	129	1
DK 577 HP	10	577	339	980	—	1.3	1 1/2"	810	760	1300	168	1
DK 705 HP	12	705	415	980	—	1.4	1 1/2"	810	760	1300	225	1
DK 904 HP	15	904	532	2250	—	1.9	1 1/2"	810	760	1300	240	1

VOLTAGE: 230V/1/50Hz. Option. 115V/1/60Hz. or 400-440V/3/50 - 60Hz. (***) Connection back side.

TECHNICAL DATA

TYPE	FLOW			CONDENSER AIR FLOW m ³ /h	CONDENSER WATER FLOW m ³ /h	POWER kw	FITTINGS (**) BSP	DIMENSIONS (mm)			WEIGHT (with box) Kg	DRAIN
	m ³ /min	(m ³ /h)	(cfm)					W	L	H		
DK 1149 HP	19	1149	676	2250	—	2.4	2 1/2"	870	770	1500	278	2
DK 1305 HP	22	1305	768	2250	—	2.6	2 1/2"	870	770	1500	295	2
DK 1648 HP	27	1648	969	2250	—	2.6	2 1/2"	870	770	1500	348	2
DK 1873 HP	31	1873	1102	5000	—	3	2 1/2"	1180	1070	1600	453	2
DK 2309 HP	38	2309	1358	4800	0.7	4.3	2 1/2"	1180	1070	1600	456	2
DK 2444 HP	41	2444	1438	7000	1.0	5	2 1/2"	1180	1070	1600	532	2
DK 2932 HP	49	2932	1725	7000	1.0	5.6	DN60	1180	1070	1600	536	2

VOLTAGE: 400-440V/3/50 - 60Hz. (***) Connection back side.

REFRIGERANT: R134a between DK 33 HP and DK 1873 HP, R404a between DK 2309 HP and DK 2932 HP (*) Flow given at atmospheric pressure at 20 °C (ISO 1217) in accordance with normes ISO 7183 - 8573-1 and Pneurop 6611-Class 4-7 bar-35 °C IN - 25 °C ambient.

