EQUIPMENT

DALGAKIRAN

ABOUT US

Türkiye's largest manufacturer and exporter of industrial compressors, Dalgakıran Kompresör was founded in Istanbul in 1965 by Ömer Dalgakıran in a modest workshop measuring 25 m². Dalgakıran Kompresör has grown rapidly since the day it was founded through the investments it made and today owns the compressor production plant with more than a total closed area covering 70.000 m².

As one of Türkiye's top 500 exporters, it reliably exports compressors to more than 130 countries and continues to work, invest, and grow for the improvement of industry and economy.

Since
1965

A big Family
900+

Total Closed Area
70.000+ m²

Global Presence
130+ Countries

In 5 Countries
23+ Locations

Continuing to work in the globalizing market focused on customer satisfaction with more than 55 years of experience and a dynamic staff, Dalgakıran provides rapid service all over the world through its 150+ international dealerships, overseas branches, and extensive service network.

DALGAKIRAN

COMPRESSED AIR DRYERS


DALGAKIRAN

What is a refrigerated air dryer?

They cool the compressed air passing through them and keep that air dry down to the dew point of +3°C. Inlet and outlet filters integrated into the dryer (up to the DK 210 model) reduce the particle level by 0.01 microns and the oil particle level by 0.01 mg/m³.

Key Features

- Very low pressure losses
- Design suitable for tropical climates
- R-134a Refrigerant
- Operates at 60°C inlet temperature and 50°C ambient temperature
- Compact design
- Minimum footprint
- Digital controller for energy savings
- High efficiency
- Ease of access
- Separate electrical and cooling sections

MODEL	Capacity*		Connection Size	Voltage**	Refrigerant	Maximum Working Pressure	Maximum Ambient Temperature	Maximum Inlet Temperature	Included Filter and Type	Dimensions (mm)			Weight
	m³/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	2 x (GKO 2700 MX+MY)	1397	847	1770	492
Dryair DK 190	61,6	2175	DN100	400V/3/50Hz	R-134a	16	50	60	2 x (GKO 2700 MX+MY)	1397	847	1770	520
Dryair DK 200	80,0	2825	DN100	400V/3/50Hz	R-134a	16	50	60	2 x (GKO 2700 MX+MY)	1467	1077	1930	696
Dryair DK 210	92,0	3249	DN100	400V/3/50Hz	R-134a	16	50	60	2 x (GKO 2700 MX+MY)	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

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.

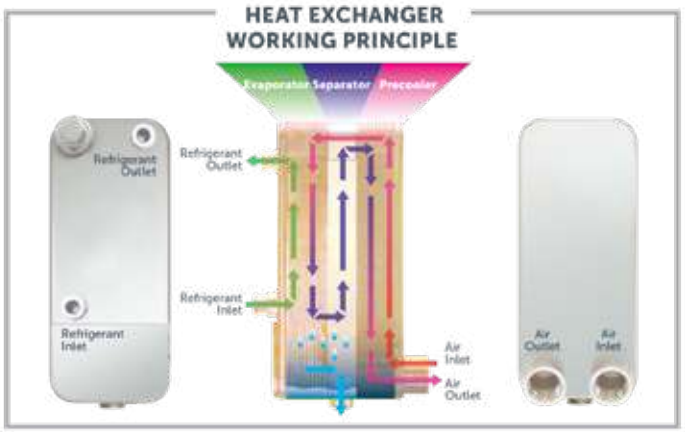
CORRECTION FACTORS FOR DRYAIR DK AIR DRYERS:								
Inlet Temperature °C	30	35	40	45	50	60	-	-
F1	1,29	1	0,92	0,78	0,65	0,45	-	-
Ambient Temperature °C	20	25	30	35	40	50	-	-
F2	1,05	1	0,98	0,93	0,84	0,7	-	-
Pressure Bar	4	6	7	8	10	12	14	16
F3	0,80	0,94	1	1,04	1,11	1,16	1,22	1,25

What is a high-pressure compressed air dryer?

They ensure 100% contact between the air and refrigerant circuits. They offer excellent cooling by combining high efficiency with advanced performance.

Key Features

- Latest technology 3-in-1 design
- Low pressure difference
- Compact design with 3-in-1 heat exchanger
- Meets every capacity and power requirement
- Stainless steel, brazed, plated heat exchanger
- Size reduction and excellent heat transfer
- Corrosion prevention
- Safety test against leakages



Model	Capacity*		Connection Size	Voltage	Maximum Working Pressure	Maximum Ambient Temperature	Maximum Inlet Temperature	Dimensions (mm)			Weight
	m^3/min	cfm			bar	°C	°C	Length	Width	Height	Kg
DK 50 HPN	0,83	29	G ¾"	230V/1/50 Hz	45	45	50	454	361	553	36
DK 90 HPN	1,50	53	G ¾"	230V/1/50 Hz	45	45	50	454	361	553	38
DK 150 HPN	2,50	88	G ¾"	230V/1/50 Hz	45	45	50	453	401	623	45
DK 220 HPN	3,67	130	G ¾"	230V/1/50 Hz	45	45	50	453	401	623	45
DK 300 HPN	5,00	177	G 1 ¼"	230V/1/50 Hz	45	45	50	505	451	761	70
DK 400 HPN	6,67	236	G 1 ¼"	230V/1/50 Hz	45	45	50	505	451	761	72
DK 500 HPN	8,33	294	G 1 ¼"	230V/1/50 Hz	45	45	50	505	451	812	78
DK 575 HPN	9,58	338	G 1 ¼"	230V/1/50 Hz	45	45	50	505	451	812	80
DK 775 HPN	12,9	456	G 1 ¼"	230V/1/50 Hz	45	45	50	675	501	984	115
DK 910 HPN	15,2	537	G 1 ¼"	230V/1/50 Hz	45	45	50	675	501	984	120
DK 1000 HPN	16,7	590	G 2"	230V/1/50 Hz	45	45	50	947	727	1170	218
DK 1160 HPN	19,4	685	G 2"	230V/1/50 Hz	45	45	50	947	727	1170	220
DK 1500 HPN	25,0	883	G 2"	230V/1/50 Hz	45	45	50	947	727	1170	225
DK 1600 HPN	26,7	943	G 2"	400V/3/50Hz	45	45	50	947	797	1460	263
DK 1800 HPN	30,0	1059	G 2"	400V/3/50Hz	45	45	50	947	797	1460	265
DK 2200 HPN	36,7	1296	G 2 ½"	400V/3/50Hz	45	45	50	1162	797	1495	352
DK 2500 HPN	41,7	1473	G 2 ½"	400V/3/50Hz	45	45	50	1162	797	1495	353
DK 2700 HPN	45,0	1589	G 2 ½"	400V/3/50Hz	45	45	50	1162	797	1495	355
DK 3000 HPN	50,0	1766	G 2 ½"	400V/3/50Hz	45	45	50	1162	797	1495	422
DK 3300 HPN	55,0	1942	G 2 ½"	400V/3/50Hz	45	45	50	1162	797	1495	423
DK 3600 HPN	60,0	2119	G 2 ½"	400V/3/50Hz	45	45	50	1162	797	1495	425

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

* Nominal flow is calculated at the following conditions: Inlet Pressure: 40 bar, Inlet Temperature: 35°C Ambient Temperature 25°C for other conditions please refer to the correction factor table.

PRE FILTER (X)

Efficiency rating:
1 Micron particle removal & 0.5mg/m^3 oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle removal & 0.01mg/m^3 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/m^3 oil removal

DK HPN Dryer Sizing Example;
If a compressor delivers 20 m^3/min at 35 bar, the dryer inlet temperature is 40°C and the ambient temperature is 30°C, please choose your dryer as follows;

Dryer Capacity = 20 / 0,96 / 0,82 / 0,63 = 40,3 m^3/min

The correct dryer model for this application is DK 2500 HPN.

CORRECTION FACTORS FOR DK-HPN SERIES									
Pressure (bar)	20	25	30	35	40	45	-	-	-
F1	0,84	0,91	0,93	0,96	1	1,02	-	-	-
Ambient Temperature (°C)	-	-	-	-	25	30	35	40	45
F2	-	-	-	-	1	0,93	0,87	0,82	0,79
Inlet Temperature (°C)	-	-	-	-	35	40	45	50	-
F3	-	-	-	-	1	0,85	0,72	0,63	-

The new DK-DS series uses proprietary digital evaporator technology to deliver significant energy savings over conventional cycle and variable speed designs. Using advanced technology, it operates within different inlet flow ranges, making it by far the most efficient compressor to be used in a refrigerated air dryer. DK-DS Dryers are equipped with a true loss-free condensate drainage ensuring effective condensate drainage without any loss of compressed air. Constantly communicating with the temperature probe in the evaporator, it adjusts the cooling pressure according to the temperature of the air leaving the evaporator, thus saving energy.

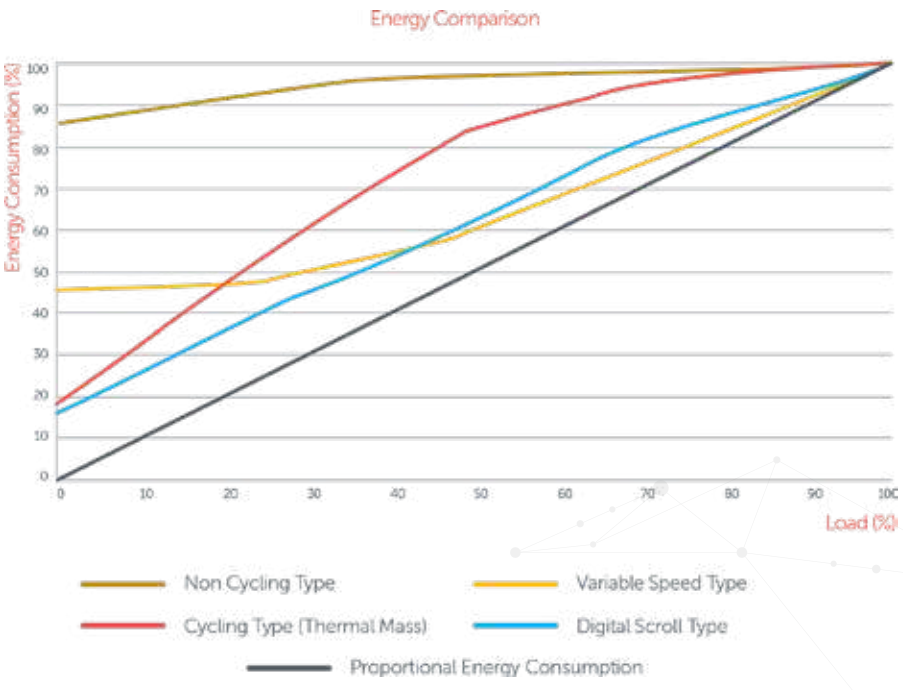
Basic Components

- Digital Scroll Compressor
- Electronic Expansion Valve
- Variable Speed Fan Motor
- Well-engineered Control Algorithm
- Cutting-Edge Technology Electronic Controller

MODEL	Capacity (m³/min)	Voltage (V/ph/Hz)	Ref. Gas Type	Connection	Filter Set
DK-DS 120	15,50	400V/3/50	R134a	2"	GKON 1205 MX+MY
DK-DS 130	20,00	400V/3/50	R134a	2"	GKON 1205 MX+MY
DK-DS 140	23,13	400V/3/50	R134a	3"	GKON 1805 MX+MY
DK-DS 150	30,00	400V/3/50	R134a	3"	GKON 1805 MX+MY
DK-DS 170	46,25	400V/3/50	R134a	3"	GKON-HC-2775 MX+MY
DK-DS 180	55,50	400V/3/50	R134a	DN100	GKON-HC-2775 MX+MY
DK-DS 190	65,25	400V/3/50	R134a	DN100	GKON-HC-5850 MX+MY
DK-DS 200	84,75	400V/3/50	R134a	DN100	GKON-HC-5850 MX+MY
DK-DS 210	97,50	400V/3/50	R134a	DN100	GKON-HC-5850 MX+MY
DK-DS 220	116,25	400V/3/50	R134a	DN150	GKON-HC-5850 MX+MY
DK-DS 230	131,25	400V/3/50	R134a	DN150	-
DK-DS 240	150,00	400V/3/50	R134a	DN150	-
DK-DS 250	175,00	400V/3/50	R134a	DN200	-
DK-DS 260	208,33	400V/3/50	R134a	DN200	-

? What Makes DK-DS so energy efficient and cost effective?

Dryers with digital scroll technology based on the standard refrigerated type dryer can automatically switch to load or unload depending on real-time compressed air demand. This feature makes the DK-DS series much more energy-efficient than all other types of refrigerated air dryers.



DIC Series dryers use a static condenser eliminating the need for a fan. They therefore work quietly and use little electricity. Compact and durable, DIC Series dryers have a long life span and require little servicing.

Advantages

- Simple design takes up little space and delivers years of service-free operation
- Static condenser offers superior energy savings
- Efficient refrigerant compressor with low presure drop
- Low pressure loss
- +7°C dew point
- Wide condenser design eliminates condenser blockages
- Standard expansion valve
- 3-in-1 heat exchanger design (air/air - air/refrigerant - water separator)
- Easy-to-service auto-drain
- High-pressure switch
- No loss of compressed air (Zero Loss)
- Uses less refrigerant than equivalents, environmentally friendly

CORRECTION FACTORS FOR DIC SERIES								
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	45	50	-
F2	1,05	1	0,98	0,93	0,84	0,76	0,7	-
Presure (Barg)	4	6	7	8	10	12	14	16
F3	0,8	0,94	1	1,04	1,11	1,16	1,22	1,25

Correction Formula: Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2 / F3

Model	Max. Working Pressure (bar)	Capacity (m³/h)	Voltage	Connection Size	Refrigerant Gas	Filter Set	Pressure Drop	Dimensions (mm)			Weight (kg)
								Length	Width	Height	
DIC 50	16	50	230/1/50	1/2"	R-134a	GKON 55 MX+MY	140	396	366	520	21
DIC 70	16	70	230/1/50	1/2"	R-134a	GKON 75 MX+MY	170	396	366	520	23
DIC 100	16	100	230/1/50	3/4"	R-134a	GKON 75 MX+MY	200	396	366	520	25
DIC 130	16	130	230/1/50	3/4"	R-134a	GKON 155 MX+MY	180	396	366	758	34

High-Temperature Air Dryers are fitted with an aftercooler to lower the inlet temperature of the compressed air. This ensures effective dew-point management.

Key Features

- High operating inlet temperature
- Integrated condenser
- Independent air-cooled aftercooler
- Moisture separator
- Automatic drain
- Environmentally friendly R134a refrigerant
- Increased compressor life span
- Operate in high ambient temperatures
- Excellent insulation
- Easy to assemble and maintain

CORRECTION FACTORS FOR DRD H SERIES												
Pressure (bar)	4	5	6	7	8	8,5	10	11	12	13	14	16
F1	0,70	0,75	0,80	0,83	0,86	0,90	0,93	0,96	1	1,1	1,12	1,15
Ambient Temperature °C	24	29	35	38	40	46	49	-	-	-	-	-
F2	1,10	1,07	1,03	1,00	0,96	0,82	0,55	-	-	-	-	-
Inlet Temperature °C	32	38	65	82	93	98	104	-	-	-	-	-
F3	1,30	1,27	1,06	1,00	0,85	0,78	0,75	-	-	-	-	-

Correction Formula: Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2 / F3

Model	Max. Pressure		Capacity		Connection Size	Voltage (V/ph/Hz)	Dimensions (mm)			Weight (kg)	Controller	Refrigerant Type
	bar	psi	m³/min	cfm			Length	Width	Height			
DK HT 31	16	232	0,52	18	G ½"	230/ 1 /50	445	445	955	62	DigiPro	R134a
DK HT 52	16	232	0,87	31	G ½"	230/ 1 /50	445	445	955	62	DigiPro	R134a
DK HT 75	16	232	1,25	44	G ½"	230/ 1 /50	445	445	955	63	DigiPro	R134a
DK HT 106	16	232	1,77	62	G ¾"	230/ 1 /50	445	445	955	64	DigiPro	R134a
DK HT 160	16	232	2,67	94	G ¾"	230/ 1 /50	625	510	910	88	DigiPro	R134a
DK HT 212	16	232	3,53	125	G ¾"	230/ 1 /50	625	510	910	97	DigiPro	R134a

These types of dryers consume energy dependent on air flow. The dryer's cooling system cools the water-glycol mixture down to 1°C and holds this mixture in a stainless steel container.
A small pump circulates the water-glycol mixture to cool the compressed air. The cooling system's compressor turns off when the mixture reaches the required temperature resulting in considerable energy savings.

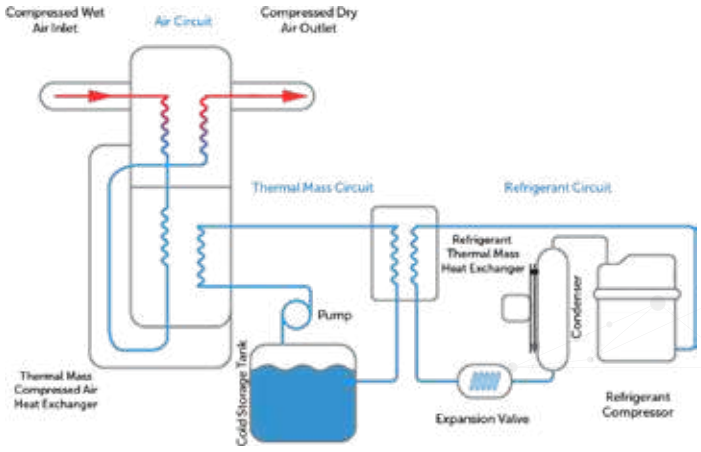
Advantages

- Energy savings with capacity control
- 3°C dew point
- Very low pressure drop
- Suitable for tropical conditions
- Environmentally friendly R134a refrigerant
- Large condenser
- Operates at 60°C inlet temperature and in 50°C ambient temperature
- Stainless steel components
- High efficiency

Model	Max. Pressure		Capacity		Connection Size	Filter Set	Voltage (V/ph/Hz)	Dimensions (mm)			Weight (kg)	Controller	Refrigerant Type
	bar	psi	m³/min	cfm				Length	Width	Height			
DRC 495	16	232	8,25	291	G 2"	GKON805 MX+MY	230 / 1 / 50	855	725	1505	178	DigiPro	R134a
DRC 623	16	232	10,4	366	G 2"	GKON1205 MX+MY	230 / 1 / 50	855	725	1505	184	DigiPro	R134a
DRC 930	16	232	15,5	547	G 2"	GKON1205 MX+MY	230 / 1 / 50	830	730	1765	242	DigiPro	R134a
DRC 1200	16	232	20,0	706	G 2"	GKON1205 MX+MY	400 / 3 /50	830	730	1765	253	ESD-3	R134a
DRC 1388	16	232	23,1	817	G 3"	GKON-HC-1805 MX+MY	400 / 3 /50	1150	800	1740	295	ESD-3	R134a
DRC 1800	16	232	30,0	1059	G 3"	GKON-HC-1805 MX+MY	400 / 3 /50	1150	800	1740	310	ESD-3	R134a
DRC 2500	16	232	41,7	1471	G 3"	GKON-HC-1805 MX+MY	400 / 3 /50	1315	880	1790	411	ESD-3	R134a
DRC 2775	16	232	46,3	1633	G 3"	GKON-HC-2275 MX+MY	400 / 3 /50	1315	880	1790	443	ESD-3	R134a
DRC 3330	16	232	55,5	1960	DN100	GKON-HC-2275 MX+MY	400 / 3 /50	1400	850	1840	537	ESD-3	R134a
DRC 3915	16	232	65,3	2304	DN100	-	400 / 3 /50	1400	850	1840	557	ESD-3	R134a
DRC 5085	16	232	84,8	2993	DN100	-	400 / 3 /50	1620	1080	1995	737	ESD-3	R134a
DRC 5850	16	232	97,5	3443	DN100	-	400 / 3 /50	1620	1080	1995	760	ESD-3	R134a
DRC 6975	16	232	116,3	4105	DN150	-	400 / 3 /50	2190	1065	2025	941	ESD-3	R134a
DRC 7875	16	232	131,3	4634	DN150	-	400 / 3 /50	2190	1065	2025	963	ESD-3	R134a
DRC 9000	16	232	150	5297	DN150	-	400 / 3 /50	2900	1200	2120	1025	ESD-3	R134a
DRC 10500	16	232	175	6179	DN200	-	400 / 3 /50	2900	1200	2120	1162	ESD-3	R134a
DRC 12500	16	232	208,3	7356	DN200	-	400 / 3 /50	2550	1550	2170	1480	ESD-3	R134a

Correction Formula: Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2 / F3

CORRECTION FACTORS FOR HRC SERIES								
Pressure (bar)	4	6	7	8	10	12	14	16
F1	0,80	0,94	1	1,04	1,11	1,16	1,22	1,25
Ambient Temperature °C	20	25	30	35	40	50	-	-
F2	1,05	1	0,98	0,93	0,84	0,70	-	-
Inlet Temperature °C	30	35	40	45	50	60	-	-
F3	1,29	1	0,92	0,78	0,65	0,45	-	-



DMD model adsorption dryers use a modular design for a lightweight, compact body. Having half the size and weight of traditional twin-tower adsorption dryers, they provide users with the advantage of flexible installation. This is one of the adsorption air dryer models with the lowest pressure drop in the world with its highly engineered inlet valve and discharge manifold design.

Advantages

- Low footprint, lightweight, compact design
- Corrosion-resistant aluminium structure
- Problem-free and reliable electronic control
- Can be mounted on the floor, bench, or wall
- Suitable layout for any workplace
- Easy to install and maintain
- High efficiency and flexibility
- Energy efficient
- Dew point from -40°C to -70°C (optional)

MODEL	Max. Pressure		Capacity		Connection Size	Filter Set	Voltage	Dimensions (mm)			Weight	Controller
	bar	psi	m³/min	cfm			(V/ph/Hz)	Length	Width	Height	kg	
DMD 3	16	232	0,08	3	G 1/2"	GKO20 MX+MY+MP	230/1/50-60	336	320	558	17	Crouzet Millenium 3
DMD 5	16	232	0,17	6	G 1/2"	GKO20 MX+MY+MP	230/1/50-60	320	320	633	19	Crouzet Millenium 3
DMD 10	16	232	0,33	12	G 1/2"	GKO20 MX+MY+MP	230/1/50-60	320	320	908	27	Crouzet Millenium 3
DMD 15	16	232	0,42	15	G 1/2"	GKO25 MX+MY+MP	230/1/50-60	350	370	808	31	Crouzet Millenium 3
DMD 20	16	232	0,58	21	G 1/2"	GKO50 MX+MY+MP	230/1/50-60	350	370	1108	42	Crouzet Millenium 3
DMD 25	16	232	0,75	26	G 1/2"	GKO50 MX+MY+MP	230/1/50-60	350	370	1258	48	Crouzet Millenium 3
DMD 30	16	232	0,83	29	G 1/2"	GKO50 MX+MY+MP	230/1/50-60	350	370	1508	54	Crouzet Millenium 3
DMD 40	16	232	1,17	41	G 1 1/2"	GKO100 MX+MY+MP	230/1/50-60	495	410	1250	71	Crouzet Millenium 3
DMD 50	16	232	1,42	50	G 1 1/2"	GKO100 MX+MY+MP	230/1/50-60	495	410	1400	78	Crouzet Millenium 3
DMD 60	16	232	1,67	59	G 1 1/2"	GKO100 MX+MY+MP	230/1/50-60	495	410	1750	92	Crouzet Millenium 3
DMD 75	16	232	2,17	77	G 1 1/2"	GKO150 MX+MY+MP	230/1/50-60	622	430	1300	120	Crouzet Millenium 3
DMD 100	16	232	2,83	100	G 1 1/2"	GKO200 MX+MY+MP	230/1/50-60	622	430	1450	133	Crouzet Millenium 3
DMD 120	16	232	3,33	118	G 1 1/2"	GKO200 MX+MY+MP	230/1/50-60	622	430	1750	152	Crouzet Millenium 3
DMD 180	16	232	5,00	177	G 1 1/2"	GKO300 MX+MY+MP	230/1/50-60	734	410	1499	186	Crouzet Millenium 3
DMD 240	16	232	6,67	235	G 1 1/2"	GKO500 MX+MY+MP	230/1/50-60	889	410	1497	235	Crouzet Millenium 3
DMD 340	16	232	9,6	340	2"	*	230/1/50-60	*	*	*	*	Crouzet Millenium 3
DMD 400	16	232	11,3	400	2"	*	230/1/50-60	*	*	*	*	Crouzet Millenium 3
DMD 500	16	232	14,2	500	2"	*	230/1/50-60	*	*	*	*	Crouzet Millenium 3
DMD 590	16	232	16,7	590	2"	*	230/1/50-60	*	*	*	*	Crouzet Millenium 3
DMD 735	16	232	20,8	735	3"	*	230/1/50-60	*	*	*	*	Crouzet Millenium 3
DMD 890	16	232	25,0	890	3"	*	230/1/50-60	*	*	*	*	Crouzet Millenium 3
DMD 1060	16	232	30,0	1060	3"	*	230/1/50-60	*	*	*	*	Crouzet Millenium 3

* Please contact the sales consultant

CORRECTION FACTORS FOR DMD SERIES												
Pressure (bar)	4,5	5	6	7	8	9	10	11	12	13	14	15
F1	0,69	0,75	0.88	1	1,12	1,25	1,37	1,50	1,62	1,74	1,87	1,99
Inlet Temperature (°C)	20	25	30	35	40	45	50	-	-	-	-	-
F2	1	1	1	1	0,80	0,73	0,59		-	-	-	-

Correction Formula: Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2

DMD Dryer Sizing Example;
If a compressor delivers 2,0 m³/min at 10 bar, the dryer inlet temperature is 40 °C. please choose your dryer as follows;

Dryer Capacity = 2,0 / 1,37 / 0,80 = 1,82 m³/min

The correct dryer model for this application is DMD 75.

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)

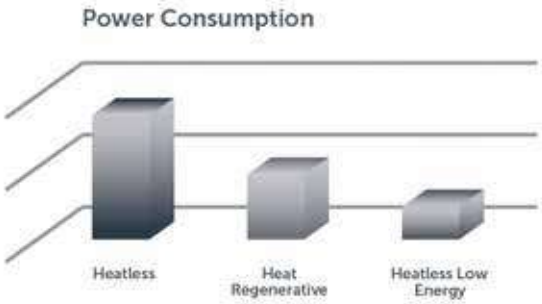
ACTIVATED CARBON FILTER (A)

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

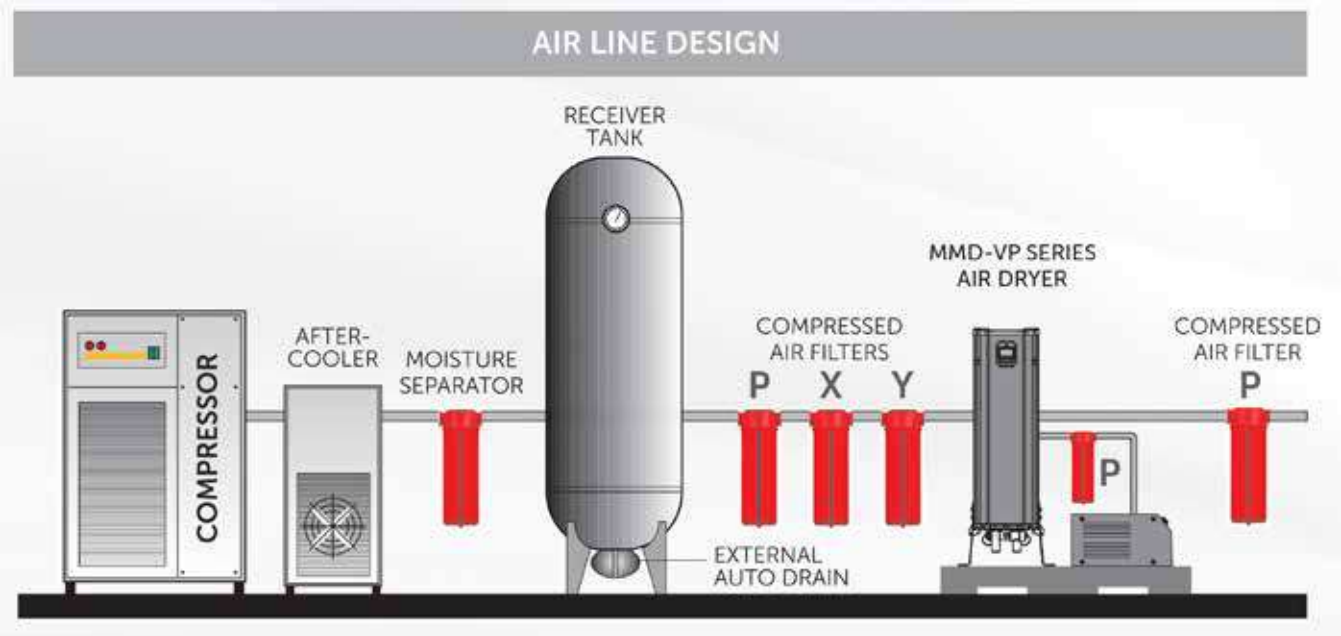
The DMD-VP Series modular, vacuum purge heatless desiccant air dryers remove water vapour from the compressed air, stop corrosion, and prevent the growth of micro-organisms when supplying the clean air crucial for production. DMD-VP Series air dryers efficiently and reliably supply the system with high-quality dry air with a dew point of -40 °C or optionally a dew point of -70 °C. This extends the machinery's life span, keeps maintenance costs to a minimum, and results in safe and healthy production. The new vacuum purge technology minimises air loss during regeneration and optimises production levels.

Areas of Use

- Food and Beverage
- Pharmaceutical
- Automotive
- Electronic
- All industries requiring a dew point of -40°C or optional -70°C.



Model	Capacity	Vacuum Pump	Connection Size	Voltage	Max. Working Pressure
	(m^3/h)	(kW)		(V)	(bar)
DMD-VP-60	100	1,1	1 1/2"	400/3/50	16
DMD-VP-75	130	1,1	1 1/2"	400/3/50	16
DMD-VP-100	170	1,3	1 1/2"	400/3/50	16
DMD-VP-120	200	2,2	1 1/2"	400/3/50	16
DMD-VP-180	300	2,2	1 1/2"	400/3/50	16
DMD-VP-240	400	3	1 1/2"	400/3/50	16
DMD-VP-340	575	4	1 1/2"	400/3/50	16
DMD-VP-400	680	4	2"	400/3/50	16
DMD-VP-500	850	5,5	2"	400/3/50	16
DMD-VP-590	1000	5,5	2"	400/3/50	16
DMD-VP-740	1250	7,5	3"	400/3/50	16



Designed to supply clean and very dry air for critical applications. They have a constant dew point of -40°C (-70°C optional).

They come with inlet and outlet line filters to keep the air flow clean and to protect the chemical mixture inside the tanks.

Advantages

- Uninterrupted and perfect operation
- -40°C (-70°C optional) pressurized dew point
- Optional dew point monitoring and control
- 16 and 40 bar working pressure options
- Constant dew point
- Easy-to-use control panel
- Touchscreen interface
- User friendly
- Different language options

MODEL	Max. Pressure		Capacity		Connection Size	Filters	Voltage	Dimensions (mm)			Weight	Controller
	bar	psi	m³/min	cfm			V/ph/Hz	Length	Width	Height	kg	
DA 130	10	145	2,17	77	G 1"	GKO150 MX+MY+MP	230/1/50-60	814	600	1312	160	Crouzet Millenium 3
DA 185	10	145	3,08	109	G 1"	GKO200 MX+MY+MP	230/1/50-60	806	600	1566	180	Crouzet Millenium 3
DA 250	10	145	4,17	147	G 1"	GKO250 MX+MY+MP	230/1/50-60	772	760	1580	200	Crouzet Millenium 3
DA 300	10	145	5,00	177	G 1 1/2"	GKO300 MX+MY+MP	230/1/50-60	900	690	1558	250	Crouzet Millenium 3
DA 360	10	145	6,00	212	G 1 1/2"	GKO500 MX+MY+MP	230/1/50-60	900	690	1558	250	Crouzet Millenium 3
DA 440	10	145	7,33	259	G 1 1/2"	GKO500 MX+MY+MP	230/1/50-60	900	698	1759	340	Crouzet Millenium 3
DA 575	10	145	9,58	338	G 1 1/2"	GKO600 MX+MY+MP	230/1/50-60	900	680	1991	500	Crouzet Millenium 3
DA 680	10	145	11,3	400	G 2"	GKO851 MX+MY+MP	230/1/50-60	960	680	2216	535	Crouzet Millenium 3
DA 850	10	145	14,2	500	G 2"	GKO851 MX+MY+MP	230/1/50-60	1016	857	2277	750	Crouzet Millenium 3
DA 1000	10	145	16,7	589	G 2"	GKO1210 MX+MY+MP	230/1/50-60	1075	1010	2386	755	Schneider
DA 1250	10	145	20,8	736	DN80	GKO1820 MX+MY+MP	230/1/50-60	1294	1100	2413	1000	Schneider
DA 1500	10	145	25,0	883	DN80	GKO1820 MX+MY+MP	230/1/50-60	1300	1010	2547	1050	Schneider
DA 1800	10	145	30,0	1059	DN80	GKO1820 MX+MY+MP	230/1/50-60	1513	1110	2479	1215	Schneider
DA 2200	10	145	36,7	1295	DN80	GKO2220 MX+MY+MP	230/1/50-60	1460	1110	2793	1550	Schneider
DA 2700	10	145	45,0	1589	DN80	GKO2700 MX+MY+MP	230/1/50-60	1533	1252	2831	1890	Schneider
DA 3200	10	145	53,3	1883	DN100	GKO3200 MX+MY+MP	230/1/50-60	1653	1212	3054	2240	Schneider
DA 3600	10	145	60,0	2119	DN100	GKO4300 MX+MY+MP	230/1/50-60	1653	1210	3268	2330	Schneider
DA 4400	10	145	73,3	2590	DN100	GKO4300 MX+MY+MP	230/1/50-60	1905	1535	2910	3000	Schneider
DA 5000	10	145	83,3	2943	DN150	F6500 MX+MY+MP	230/1/50-60	1843	1714	3382	3180	Schneider
DA 6300	10	145	105,0	3708	DN150	F6500 MX+MY+MP	230/1/50-60	2114	1693	3328	3450	Schneider
DA 7200	10	145	120,0	4238	DN150	F8500 MX+MY+MP	230/1/50-60	2518	1795	3047	3600	Schneider
DA 8800	10	145	146,7	5179	DN150	F8500 MX+MY+MP	230/1/50-60	2518	1795	3341	3850	Schneider
DA 10800	10	145	180,0	6357	DN200	F11000 MX+MY+MP	230/1/50-60	2583	1875	3747	4200	Schneider

CORRECTION FACTORS FOR DA DRYERS							
Bar	4.5	5	6	7	8	9	10
	0,69	0,75	0,88	1	1,12	1,25	1,37
Inlet Temp. °C	20	25	30	35	40	45	50
	1	1	1	1	0,80	0,73	0,59

DA Dryer Sizing Example;
If a compressor delivers 10 m³/min at 6 bar, the dryer inlet temperature is 40 °C. please choose your dryer as follows;

Dryer Capacity = 10 / 0,88 / 0,80 = 14,2 m³/min

The correct dryer model for this application is DA 850.

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

They use a blower to draw in the ambient air and pass it through a heater. The heated air is sent in the opposite direction to the drying flow. This removes the moisture from the chemical substance pores. The advanced control system continuously monitors dew point and adjusts the temperature. This results in energy savings. The heater is insulated for high energy efficiency.

Advantages

- Dew point monitoring and control
- Computer control
- Status, alarm, and pressure display
- Remote start and stop
- Low-pressure alarm
- High-pressure switches and alarms
- Externally heated or heat-free operation
- Reliable electronic control units
- User friendly and Different language options

MODEL	Max. Pressure		Capacity		Connection Size	Filter Set	Voltage	Dimensions (mm)			Controller
	bar	psi	m³/min	cfm			V/ph/Hz	Length	Width	Height	
DBP 850	10	145	14,2	500	G 2"	GKO851 MX+MY+MP(H)	400 / 3 / 50	1296	1180	2299	Schneider
DBP 1000	10	145	16,7	589	G 2"	GKO1210 MX+MY+MP(H)	400 / 3 / 50	1200	1310	2415	Schneider
DBP 1250	10	145	20,8	736	DN80	GKO1820 MX+MY+MP(H)	400 / 3 / 50	1610	1270	2468	Schneider
DBP 1500	10	145	25,0	883	DN80	GKO1820 MX+MY+MP(H)	400 / 3 / 50	1610	1270	2563	Schneider
DBP 1800	10	145	30,0	1059	DN80	GKO1820 MX+MY+MP(H)	400 / 3 / 50	1563	1515	2479	Schneider
DBP 2200	10	145	36,7	1295	DN80	GKO2220 MX+MY+MP(H)	400 / 3 / 50	1563	1455	2789	Schneider
DBP 2700	10	145	45,0	1589	DN80	GKO2700 MX+MY+MP(H)	400 / 3 / 50	1615	1514	2836	Schneider
DBP 3200	10	145	53,3	1883	DN100	GKO3200 MX+MY+MP(H)	400 / 3 / 50	1710	1660	3054	Schneider
DBP 3600	10	145	60,0	2119	DN100	GKO4300 MX+MY+MP(H)	400 / 3 / 50	1710	1660	3268	Schneider
DBP 4400	10	145	73,3	2590	DN100	GKO4300 MX+MY+MP(H)	400 / 3 / 50	1975	2492	2910	Schneider
DBP 5000	10	145	83,3	2943	DN 150	F6500 MX+MY+MP(H)	400 / 3 / 50	2045	2560	3382	Schneider
DBP 6300	10	145	105,0	3708	DN150	F6500 MX+MY+MP(H)	400 / 3 / 50	2090	2963	3328	Schneider
DBP 7200	10	145	120,0	4238	DN150	F8500 MX+MY+MP(H)	400 / 3 / 50	2020	3363	3047	Schneider
DBP 8800	10	145	146,7	5179	DN150	F8500 MX+MY+MP(H)	400 / 3 / 50	2020	3363	3341	Schneider
DBP 10800	10	145	180,0	6357	DN200	F11000 MX+MY+MP(H)	400 / 3 / 50	2492	3481	3765	Schneider
DBP 12000	10	145	200,0	7063	DN200	F11000 MX+MY+MP(H)	400 / 3 / 50	*	*	*	Schneider
DBP 16000	10	145	267,0	9429	DN200	F14000 MX+MY+MP(H)	400 / 3 / 50	*	*	*	Schneider

Dew point monitoring and control are standard.
* Please contact the sales consultant.

CORRECTION FACTORS FOR DBP AIR DRYERS							
Bar	4.5	5	6	7	8	9	10
	0,69	0,75	0,88	1	1,12	1,25	1,37
Inlet Temp. °C	20	25	30	35	40	45	-
	1	1	1	1	0,80	0,73	-

DBP Dryer Sizing Example;

If a compressor delivers 35 m³/min at 6 bar, the dryer inlet temperature is 40 °C. please choose your dryer as follows;

Dryer Capacity = 35 / 0,88 / 0,80 = 49,7 m³/min

The correct dryer model for this application is DBP 3200.

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)

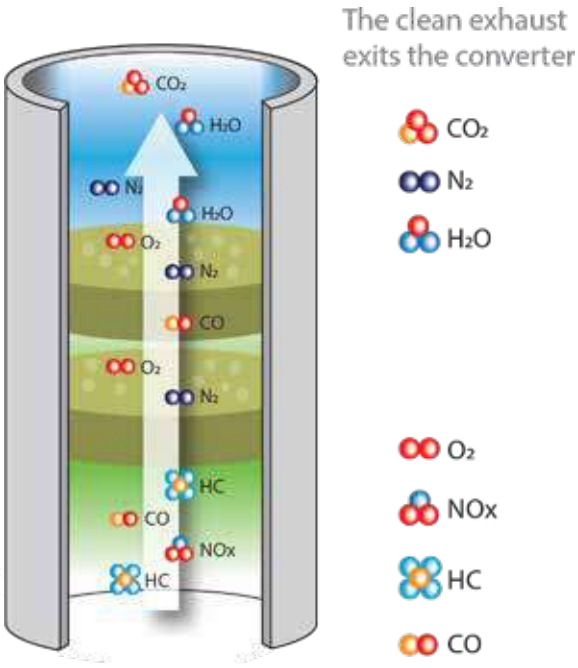
Efficiency rating:
0.01 Micron particle removal & 0.003mg/m³ oil removal

The new DCC Series use a catalytic reaction to remove the oil in the compressed air. They use a catalytic oxidisation process to convert the oil and hydrocarbons in the compressed air into H_2O and CO_2.

DCC Catalytic Converters deliver Class 0 oil-free compressed air in accordance with the ISO 8573-1 International Standard. The heat-reactivated catalyst lowers the oil content in the compressor's air outlet to less than 0.0025 mg/m³.

Basic Components

- Low investment and operating costs (compared with oil-free compressors)
- Low maintenance costs
- Longer periods between filter replacement
- No extra expense required to separate oil condensate
- Avoids production standby and shut-downs
- Consistent air quality level throughout the catalyst's life span
- Longer service life for equipment
- Reduced energy consumption (max. 0.01 kWh/m³ at max. load)



Model	Air Capacity (Nm^3/min)	Connection Size	Max. Working Pressure (bar)	Pressure Drop (mbar)	Voltage	Total Installed Power (kW)	Fuse Amp.	Specific Power Consumption (kWh/m^3)
DCC 11	1	1/2"	16	≤ 400	230/1/50-60	1,2	16	0,009
DCC 22	2	3/4"	16	≤ 400	230/1/50-60	2,5	16	0,009
DCC 55	5	1 1/4"	16	≤ 400	400/3/50-60	5	20	0,007
DCC 75	7	1 1/2"	16	≤ 400	400/3/50-60	5	20	0,006
DCC 110	10	1 1/2"	16	≤ 400	400/3/50-60	10	20	0,005
DCC 160	15	2"	16	≤ 400	400/3/50-60	10	20	0,005
DCC 210	20	2 1/2"	16	≤ 400	400/3/50-60	15	50	0,005
DCC 330	30	2 1/2"	16	≤ 400	400/3/50-60	21	50	0,005
DCC 430	43	DN 80	16	≤ 400	400/3/50-60	28	50	0,005
DCC 650	65	DN 100	16	≤ 400	400/3/50-60	28	50	0,005

Basic Working Principle of DCC Series Catalytic Converter

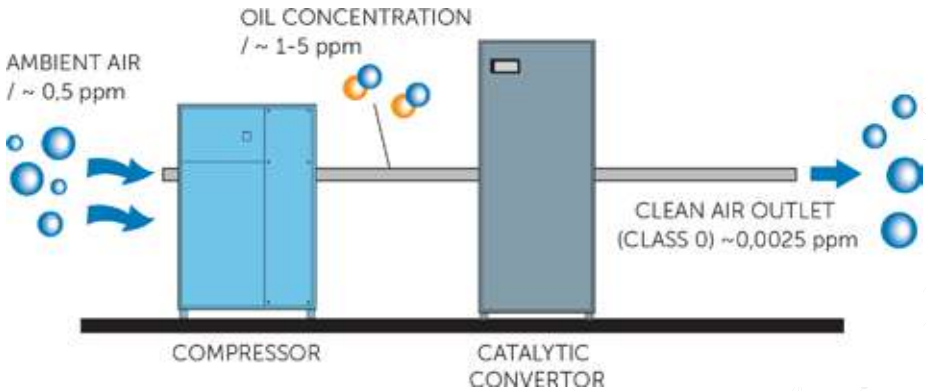
The specially designed catalyst in the DCC vessels is first heated to a specific temperature. The hydrocarbons are separated from the oily inlet air when it enters the heated vessel. The oxygen molecules on the surface of the catalyst react with these hydrocarbons turning them into water and CO2. Then, the completely oil-free Class 0 compressed air is cooled by a heat exchanger and sent directly into the system without the need for any additional processing.

Standard Oil Indicator

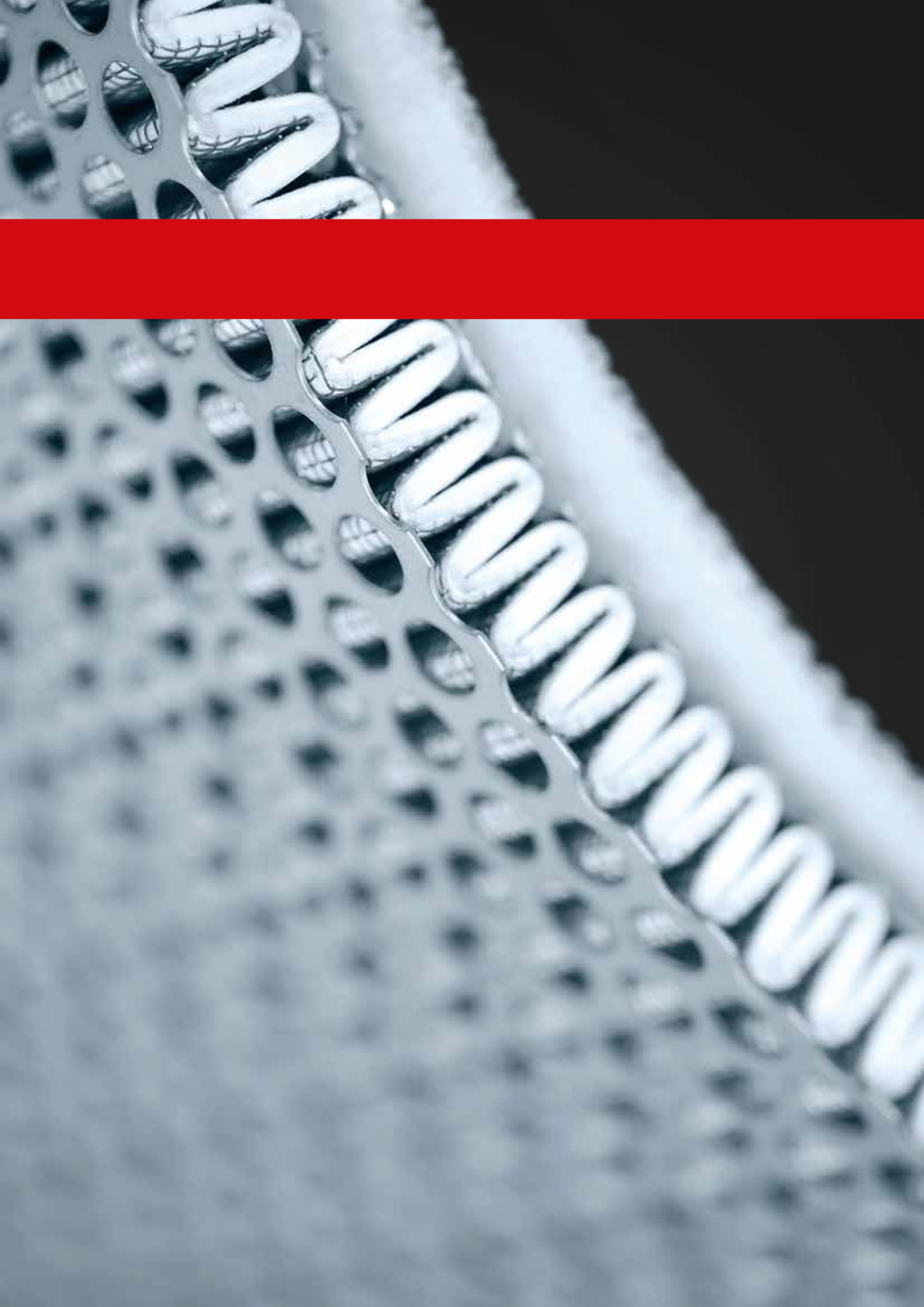
Producers want to be sure that their processes are being supplied with oil-free compressed air. The DCC Series has an oil indicator fitted as standard to prove that the exiting compressed air is free of oil.

MOI Oil Sensor

DCC Series Catalytic Converters come with an optional MOI Sensor. The MOI Sensor reads the oil level in the air and shows this on a digital display. The alarm level can be set to halt the entire system and protect the process if there is oil in the air.



FILTRATION AND SEPARATION



They prevent unwanted substances such as dust particles and oil particles in the compressed air coming from the compressor from damaging equipment, pipes, and the quality of the end product.

Advantages

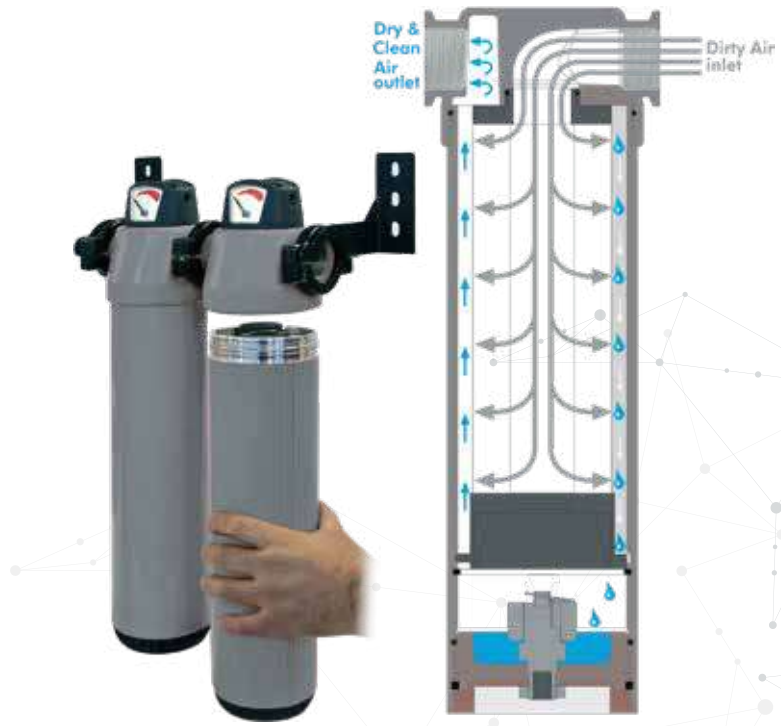
- More convenient for the end user
- Robust and durable
- High efficiency
- Low pressure drop
- Easy to maintain
- High-protected filter
- Electronic, external, loss-free, and manual drain options
- Durable element structure
- High-efficiency drainage layer

MODEL	Max. Pressure		Capacity		Connection Size	Element Model	Dimensions (mm)			
	bar	psi	m³/min	cfm			A	B	C	D
GO 25	20	290	0,42	15	G 1/2"	MO25	102	214,5	192,5	45
GO 50	20	290	0,83	29	G 1/2"	MO50	102	214,5	192,5	45
GO 100	20	290	1,67	59	G 1/2"	MO100	102	252,5	230,5	45
GO 150	20	290	2,50	88	G 1"	MO150	123	297,5	270,5	45
GO 200	20	290	3,33	118	G 1"	MO200	123	361,5	334,5	45
GO 250	20	290	4,17	147	G 1"	MO250	123	401,5	374,5	45
GO 300	20	290	5,00	177	G 1 1/2"	MO300	123	458	422,5	45
GO 500	20	290	8,33	294	G 1 1/2"	MO500	123	488	452,5	45
GO 600	20	290	10,0	353	G 1 1/2"	MO600	123	533	497,5	45
GO 851	20	290	14,2	501	G 2"	MO851	160	622,5	581	45
GO 1210	20	290	20,2	712	G 2"	MO1210	160	692,5	651	45
GO 1520	20	290	25,3	895	G 3"	MO1520	194	725,5	669	45
GO 1820	20	290	30,3	1071	G 3"	MO1820	194	865	808	45
GO 2220	20	290	37,0	1307	G 3"	MO2220	194	919,5	863	45
GO 2700	20	290	45,0	1589	G 3"	MO2700	194	1063,5	1007	45

CORRECTION FACTORS FOR GO COMPRESSED AIR FILTER SERIES										
Operating Pressure (bar)	1	3	5	7	9	11	13	15	16	20
PSIG	15	44	73	100	131	160	189	218	232	290
Correction Factor	0,5	0,71	0,87	1	1,12	1,22	1,32	1,44	1,50	1,63

HGO Compressed Air Filter Sizing Example;

If a compressor delivers 24 m³/min at 11 psi please choose your Filter model as follow: 24 m³/min / 1,22=19,7m³/min your model is HGO 1210.



Dalgakıran's GON Series of Industrial Air Filters offer its compressed air users high-efficiency filtration with low pressure losses. Having more port sizes, it delivers a reliable performance, minimising air contamination in compressed air systems. The innovative "Zero Clearance" design allows users to assemble and replace the filter and other components in any compressed air unit easily. Constructed of aluminium, the GON series is built to last, meets PED and ISO 8573 standards, and is extremely economical.

Advantages

- Air flow from 35 m³/h to 5400 m³/h
- NPT/BSP pipe sizes range from ¼" to 4" inclusive
- Pore-free aluminium construction
- Options:
- "Standard Drain" with a ½" connector or
- "Drain-free" with a ½" connector and adaptor.
- Neatly designed connection clips and wall apparatus
- ISO 8573-compliant production
- Zero clearance
- Anodised
- Locking System Indicator

MODEL	Connection Size			Flow Rate		Max. Working Pressure (bar)	Element Model	Housing Dimensions (mm)				
				(m^3/h)	cfm			A	B	C	D	E
GON-35	1/4"	3/8"	1/2"	35	21	20	MON35	90	36,5	214	192	19
GON-55	1/4"	3/8"	1/2"	55	33	20	MON55	90	36,5	251,5	230	19
GON-70	3/8"	1/2"	-	70	42	20	MON70	128	45	273	249,5	32
GON-100	3/8"	1/2"	-	100	60	20	MON100	128	45	302,5	279	32
GON-125	3/8"	1/2"	-	125	75	20	MON125	128	45	343	319,5	32
GON-150	3/4"	1"	-	150	90	20	MON150	140	45	369	334,5	31
GON-225	3/4"	1"	-	225	135	20	MON225	140	45	398	364,5	31
GON-300	1 1/4"	1 1/2"	-	300	180	20	MON300	140	45	474	432	31
GON-400	1 1/4"	1 1/2"	-	400	240	20	MON400	140	45	564	522	31
GON-500	1 1/4"	1 1/2"	2"	500	300	20	MON500	151	45	511	464,5	25
GON-600	1 1/2"	1 1/2"	2"	600	360	20	MON600	151	45	626	579,5	25
GON-800	1 1/4"	1 1/2"	2"	800	480	20	MON800	151	45	696	649,5	25
GON-1000	1 1/4"	1 1/2"	2"	1000	600	20	MON1000	151	45	851	804,5	25
GON-1200	1 1/4"	1 1/2"	2"	1200	720	20	MON1200	151	45	976	929,5	25
GON-1550	2 1/2"	3"	-	1550	930	20	MON-HC1550	240	45	707	659,5	25
GON-2000	2 1/2"	3"	-	2000	1200	20	MON-HC2000	240	45	862	814,5	25
GON-2700	2 1/2"	3"	-	2700	1620	20	MON-HC2700	240	45	987	939,5	25

Head Clamping

Head clamping connects filters in series without the need for more pipes and uses connection clamps to join multiple filters together. Wall-mounting apparatus lets you fix the filters to the walls with ease.

Drainage Pipes

Drainage pipes support the flow of moisture.

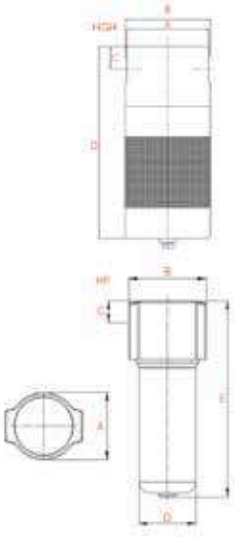
Correction Factor

Multiply the model flow rate shown in the table below by the correction factor corresponding to the working pressure to calculate the maximum flow rate of the filter model.

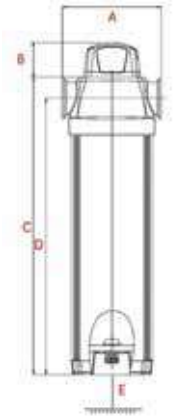
This model filters are produced in a weldless structure to withstand high pressures. High-pressure test guarantee safe and efficient operation.t

Advantages

- Durable and compact
- Safe and efficient operation
- High performance
- Strong and reliable design
- Excellent high-pressure applications
- Product performance warranty
- Carbon steel filters designed for 350 bar (optional)
- Sufficient wall thickness
- High-pressure tested
- Anodised interior and exterior surfaces



MODEL	Max. Pressure		Capacity		Connection Size	Element Model	Dimensions (mm)			
	bar	psi	m³/min	cfm			A	B	C	D
HGO 100	50	725	1,7	59	G 1/4"	M25	113,4	115,4	25,75	155
HGO 300	50	725	5,0	177	G 1/2"	M50	113,4	115,4	25,75	158,5
HGO 600	50	725	10,0	353	G 3/4"	M100	109,4	115,4	32,25	207
HGO 850	50	725	14,2	500	G 1"	M150	133	138	37,35	250
HGO 1200	50	725	20,0	706	G 1"	M200	133	138	37,35	314
HGO 1600	50	725	26,7	942	G 1 1/2"	M250	128	138	44,4	368
HGO 2500	50	725	41,7	1471	G 2"	M2500	145	158	51,5	393
HGO 3000	50	725	50,0	1766	G 2 1/2"	M3000	160	178	57,6	386



Advantages

- Specially designed for medical compressed air plants
- Partical removal down to 0.01 micron
- Suitable for steam sterilisation in an autoclave

MODEL	Max. Pressure		Capacity		Connec-tion Size	Dimensions (mm)				
	bar	psi	m³/min	cfm		A	B	C	D	E
G 20 MSS	16	232	0,33	12	G 1/4"	72	19	193	100	22
G 25 MSS	16	232	0,42	15	G 1/4"	72	19	193	100	22
G 40 MSS	16	232	0,67	24	G 3/8"	96	20	237	110	22
G 50 MSS	16	232	0,83	30	G 3/8"	96	20	237	110	22
G 100 MSS	16	232	1,67	59	G 1/2"	96	20	237	150	22
G 150 MSS	16	232	2,50	88	G 3/4"	117	34	375	190	56
G 200 MSS	16	232	3,33	118	G 3/4"	117	34	375	250	56
G 250 MSS	16	232	4,17	147	G 1"	117	34	465	300	56
G 300 MSS	16	232	5,00	177	G 1 1/4"	117	34	465	350	56
G 500 MSS	16	232	8,33	294	G 1 1/4"	117	34	530	380	56
G 600 MSS	16	232	10,0	353	G 1 1/2"	117	34	530	425	56
G 851 MSS	16	232	14,2	501	G 2"	170	64	722	480	56
G 1210 MSS	16	232	20,2	712	G 2"	170	64	722	550	56
G 1520 MSS	16	232	25,3	895	G 2 1/2"	235	72	760	430	56
G 1820 MSS	16	232	30,3	1071	G 3"	235	72	760	550	56
G 2220 MSS	16	232	37,0	1307	G 3"	235	72	760	600	56

They filter unwanted substances in the compressed air before they go to the system.

Advantages

- Simple design to replacement to internal element
- Two external float drains for excellent drainage
- CE and ASME tank options
- Low pressure drop
- Durable epoxy powder coating and rust-preventing anodised interior surface coating
- Strong welds
- Long service life

Model	Capacity		Connection Size	Drain Port Size	Maximum working Pressure	Element Model	Number of Elements	Housing Dimensions (mm)				
	m³/min	cfm			bar			A	B	C	D	E
F 2400	40,0	1413	DN80	G ½"	14	M1200	2	450	1287	277	747	650
F 3600	60,0	2119	DN100	G ½"	14	M1200	3	450	1317	277	767	650
F 4800	80,0	2825	DN100	G ½"	14	M1200	4	530	1344	279	769	650
F 7200	120,0	4238	DN150	G ½"	14	M1200	6	580	1425	331	769	650
F 9600	160,0	5650	DN150	G ½"	14	M1200	8	650	1439	333	798	650
F 12000	200,0	7063	DN200	G ½"	14	M1200	10	750	1504	345	825	650
F 16800	280,0	9888	DN200	G ½"	14	M1200	14	800	1545	383	833	650
F 19200	320,0	11301	DN250	G ½"	14	M1200	16	850	1583	417	862	650
F 20400	340,0	12007	DN300	G ½"	14	M1200	17	850	1680	447	887	650
F 27600	460,0	16245	DN350	G ½"	14	M1200	23	850	1778	487	917	650
F 33600	560,0	19776	DN350	G ½"	14	M1200	28	850	1778	487	917	650

Specifications	Pre Filtering	General Purpose	Oil Removal	Activated Carbon
Grade	P	X	Y	A
Particle Removal (Micron)	5	1	0,01	0,01
Max. Oil carryover at 21°C (mg/m³)	5	0,5	0,01	0,003
Max. working Temperature (°C)	80	80	80	25
Max.working Pressure	16	16	16	16
Initial Pressure loss (mbar)	40	80	100	80
Pressure loss for element change (mbar)	700	700	700	700
Element colour code	WHITE	WHITE	WHITE	METAL SS

CORRECTION FACTORS FOR F COMPRESSED AIR FILTER									
Operating Pressure (barg)	1	3	5	7	9	11	13	15	16
PSIG	15	44	73	100	131	160	189	218	247
Correction Factor	0,5	0,71	0,87	1	1,12	1,22	1,32	1,44	1,57

F Compressed Air Filter Sizing Example;

If a compressor delivers 140 m³/min at 11 bar please choose your Filter model as follow:

140 m³/min / 1,22=114,8 m³/min your model is F 7200.

NOTES

1) Grade A must not operate in oil saturated conditions.

2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.

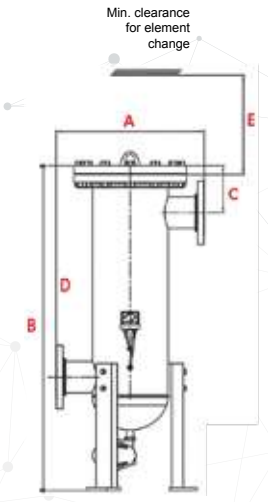
3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.

4) Flow rates are based on a 7 bar operating Pressure, for flows at other. Pressures use correction factor given above.

5) All filters are suitable for use with mineral and synthetic oils.

6) Other standards for flanged connections are available.

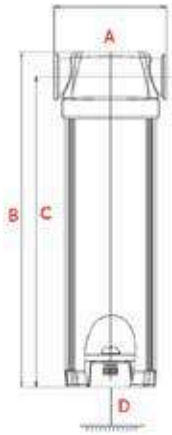
7) Direction of air flow, inside to out, through filter element



Dalgakıran water separators are designed to remove liquid water and some particulates in compressed air at the compressor outlet. Their unique centrifugal effect separates heavier-than-air matter and the low pressure drop makes them energy-efficient.

Advantages

Dalgakıran's G WS water separators have 1/4" - 3" pipes for flow rates of 2200 m^3/h. Line filters should be used to remove unwanted substances left in the compressed air after the extremely efficient water separators.



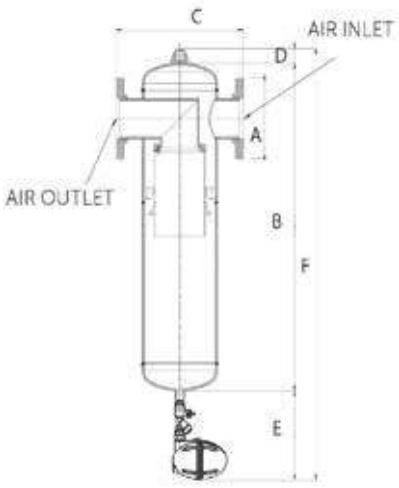
MODEL	Max. Pressure		Capacity		Connection Size	Dimensions (mm)			
	bar	psi	m³/min	cfm		A	B	C	D
G 25 WS	16	232	0,4	15	G 1/4"	103	257,5	236	160
G 100 WS	16	232	1,7	59	G 1/2"	103	257,5	236	210
G 200 WS	16	232	3,3	118	G 3/4"	123	304	277	285
G 300 WS	16	232	5,0	177	G 1"	123	304	277	380
G 600 WS	16	232	10,0	353	G1 1/2"	123	320	285	470
G 1200 WS	16	232	20,0	706	G 2"	160	484	443	560
G 2200 WS	16	232	36,7	1295	G 3"	193	546	490	610

CORRECTION FACTORS FOR HG WS COMPRESSED AIR FILTER SERIES										
Operating Pressure (barg)	1	3	5	7	9	11	13	15	16	20
PSIG	15	44	73	100	131	160	189	218	232	290
Correction Factor	0,5	0,71	0,87	1	1,12	1,22	1,32	1,44	1,57	1,63

Dalgakıran water separators are designed to remove liquid water and some particulates in compressed air at the compressor outlet. Their unique centrifugal effect separates heavier-than-air matter and the low pressure drop makes them energy-efficient.

Advantages

F WS models have 3" - 8" pipes for flow rates up to 14.000 m³/h. Line filters should be used to remove unwanted substances left in the compressed air after the extremely efficient water separators.



MODEL	Max. Pressure		Capacity		Connec-tion Size	Dimensions (mm)					
	bar	psi	m³/min	cfm		A	B	C	D	E	F
F 2500 WS	14	203	41,6	1471	DN80	200	934	450	75	280	1289
F 3200 WS	14	203	53,3	1883	DN100	220	964	450	75	280	1319
F 4300 WS	14	203	71,6	2531	DN100	220	928	530	75	280	1283
F 6500 WS	14	203	108,3	3826	DN150	285	1092	580	75	280	1447
F 8500 WS	14	203	141,6	5003	DN150	285	1091	650	75	280	1446
F 11000 WS	14	203	183,3	6474	DN200	340	1168	750	75	280	1523
F 14000 WS	14	203	233,3	8240	DN200	340	1201	800	75	280	1556

DACT

ACTIVATED CARBON TOWERS

2,17-180,0 M³/MIN

Some industries require the compressed air to be clean of oil mist and the smell of oil. The DACT series of activated carbon towers remove the oil mist and the smell from the compressed air.

Advantages

- Reduces the oil content in the compressed air to 0.003 mg/m³
- Provides high-quality air
- Serves such sectors as hospital, pharma, food-drink, etc.

CORRECTION FACTORS						
Operating Pressure (bar)	1	3	5	7	9	10
PSIG	15	44	73	100	131	145
Correction Factor	0,5	0,71	0,87	1	1,12	1,15

MODEL	Max. Pressure		Capacity		Connection Size	Dimensions (mm)		
	bar	psi	m³/min	cfm		Length	Width	Height
DACT 130	10	145	2,17	77	G 1"	347	450	1172
DACT 185	10	145	3,08	109	G 1"	450	563	1413
DACT 250	10	145	4,17	147	G 1"	430	601	1370
DACT 300	10	145	5,00	177	G 1 1/2"	500	649	1336
DACT 360	10	145	6,00	212	G 1 1/2"	500	649	1336
DACT 440	10	145	7,33	259	G 1 1/2"	500	648	1536
DACT 575	10	145	9,58	338	G 2"	469	604	1733
DACT 680	10	145	11,3	400	G 2"	550	540	1936
DACT 850	10	145	14,2	500	G 2"	580	600	1957
DACT 1000	10	145	16,7	589	DN80	657	638	1617
DACT 1250	10	145	20,8	736	DN80	708	880	2400
DACT 1500	10	145	25,0	883	DN80	708	880	2558
DACT 1800	10	145	30,0	1059	DN80	810	980	2423
DACT 2200	10	145	36,7	1295	DN80	810	1100	2600
DACT 2700	10	145	45,0	1589	DN100	910	1100	2758
DACT 3200	10	145	53,3	1883	DN100	866	1050	3023
DACT 3600	10	145	60,0	2119	DN100	866	1050	3237
DACT 4400	10	145	73,3	2589	DN150	1130	1250	2914
DACT 5000	10	145	83,3	2943	DN150	1130	1310	3420
DACT 6300	10	145	105,0	3708	DN150	1230	1410	3365
DACT 7200	10	145	120,0	4237	DN 150	1430	1575	3075
DACT 8800	10	145	146,7	5179	DN150	1430	1575	3369
DACT 10800	10	145	180,0	6356	DN200	1430	1650	3863

Air tanks are used for storage in compressed air systems. They prevent pressure fluctuations in the system and eliminate inefficiencies especially in fix speed compressor applications.

Advantages

- They allow the system to respond quickly to high and sudden consumption
- A key component of compressed air systems
- Storage function
- Reduces system pressure fluctuations
- Increases efficiency
- Galvanized and stainless steel options
- Energy saving
- Highly durable with a long service life

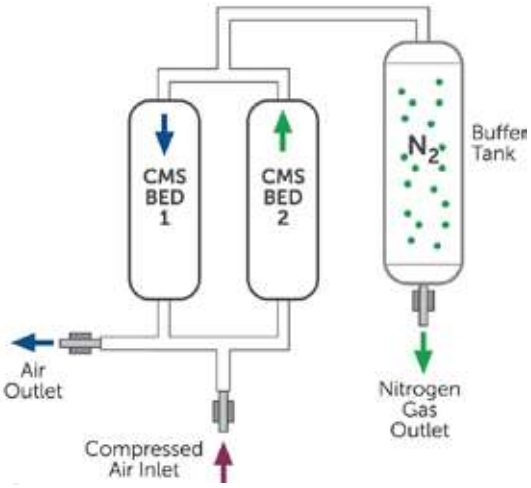
Model	Volume	Pressure	Configuration	Dimensions (mm)		Connection Inlet / Outlet
	L	bar		Diameter	Height	
DHT 100	100	10	VERTICAL	C/F	C/F	C/F
		15	VERTICAL	324	1564	2 X G1"
DHT 200	200	10	VERTICAL	C/F	C/F	C/F
		15	VERTICAL	450	1618	G 1"
DHT 300	300	10	VERTICAL	450	1918	G ¾"
		15	VERTICAL	450	1918	G ¾"
		40	VERTICAL	450	2012	G 1"
DHT 500	500	10	VERTICAL	642	1980	G 1"
		15	VERTICAL	642	1970	G 1"
		40	VERTICAL	642	2083	G 1 ¼"
DHT 900	900	10	VERTICAL	800	2120	G 1 ½"
DHT 1000	1000	10	VERTICAL	C/F	C/F	C/F
		15	VERTICAL	850	2120	G 1 ½"
		40	VERTICAL	850	2120	G 1 ½"
DHT 1800	1800	10	VERTICAL	C/F	C/F	C/F
		15	VERTICAL	1150	2150	G 2"
		40	VERTICAL	C/F	C/F	C/F
DHT 2000	2000	10	VERTICAL	1080	2566	G 2"
		15	VERTICAL	1080	2566	G 2"
		15	VERTICAL	1150	2240	G 2"
DHT 3000	3000	10	VERTICAL	1400	2370	G 2 ½"
		15	VERTICAL	1400	2370	G 2 ½"
DHT 4000	4000	10	VERTICAL	1400	3120	G 3"
		15	VERTICAL	1400	3120	G 3"
DHT 5000	5000	10	VERTICAL	1400	3870	G 3"
		15	VERTICAL	1400	3870	G 3"
DHT 6000	6000	10	VERTICAL	1500	3930	G 3"
		15	VERTICAL	1500	3930	G 3"
DHT 8000	8000	10	VERTICAL	1750	4040	DN100
		15	VERTICAL	1750	4040	DN100
DHT 10000	10000	10	VERTICAL	1900	4100	DN100
		15	VERTICAL	1900	4100	DN100

AIR SEPARATION SYSTEMS

PSA nitrogen generators are systems which separate and store nitrogen and use a CMS as an adsorbent. The CMS (Carbon Molecular Sieve) allows nitrogen to pass through while absorbing oxygen and water vapour molecules.

Advantages

- Used in the metal, chemical, plastic, and manufacturing industries,
- Simple, compact design and automation control
- 7/24 on-site nitrogen production
- Touchscreen display for monitoring and imaging
- Safety system
- Low noise levels when discharging
- Durable piston valves for a long life span
- Low cost and high performance
- Low maintenance costs
- Instantaneous operation



APPLICATIONS

Metal Industry

- Annealing of ferrous and non-ferrous metal (Inert circumstance)
- Metallurgical heat treatment (Carbonizing)
- Soldering / Brazing
- Plasma sheet metal cutters
- Inert gas in welding process
- Sintering of metal powder

Chemical Industry

- Transportation of raw material in storage tank
- Container ventilation and prevention of explosion in reaction tank
- Sealing of nitrogen in storage tank
- Cleaning tank and container
- Pressure testing of pipe

Production Process and Storage of Food

- Storage of low oxygen CA or super low oxygen
- Charge of nitrogen gas in packing and transportation of coffee, snack or dry nut

Tire Inflation

- Reducing noise re duction, improving fuel efficiency, reducing tire unbal ance and improving driving comport

Plastic

- Ejecting high Pressure gas (Sustaining vacuum, shortening cooling time in Ejection)
- Suppressing gas generation in ejection

Purge

- Diluting or transposing gas or vapor to eliminate dangerous gas and oxidized substance

REFERENCE CONDITIONS				
Inlet Compressed Air Pressure	Outlet Nitrogen Pressure	Ambient Temperature	Inlet air dewpoint	
			3 °C (under 99.5 % purity)	-40 °C (above 99.5 % purity)
7,5 Bar (g)	6 Bar (g)	25 °C	Refrigerant air dryer and activated carbon filter is required	Desiccant air dryer and activated carbon filter is required

Model	Free Nitrogen Delivery @ following purity level (Nm^3/h)									
	95%	97%	98%	99%	99,5%	99,90%	99,95%	99,99%	99,999%	
DNG 10	2,7	2,2	1,9	1,5	1	0,8	0,7	0,5	0,2	Modular
DNG 20	4,40	3,5	3,1	2,4	2	1,3	1,1	0,8	0,4	
DNG 35	8,10	6,5	5,6	4,4	3,5	2,3	2,0	1,4	0,7	
DNG 60	13,5	10,8	9,4	7,3	6	3,8	3,4	2,4	1,2	
DNG 95	23,3	18,6	16,2	12,6	10,4	6,6	5,9	4,1	2,0	Twin Tower
DNG 120	31,0	24,8	21,6	16,8	13,9	8,8	7,8	5,5	2,7	
DNG 150	38,0	30,4	26,4	20,6	17,0	10,8	9,6	6,7	3,3	
DNG 250	60,5	48,3	42,1	32,7	27,1	17,2	15,2	10,6	5,3	
DNG 330	80,0	63,9	55,7	43,3	35,8	22,8	20,1	14,1	7,0	
DNG 450	108,2	86,4	75,2	58,5	48,4	30,8	27,2	19,0	9,5	
DNG 510	123,9	99,0	86,2	67,1	55,5	35,3	31,2	21,8	10,9	
DNG 570	137,6	109,9	95,7	74,5	61,6	39,2	34,6	24,2	12,1	
DNG 730	180,1	143,9	125,3	97,5	80,6	51,3	45,3	31,6	15,8	
DNG 910	220,3	176,0	153,2	119,2	98,6	62,7	55,5	38,7	19,3	
DNG 1110	267,8	214,0	186,3	145,0	119,9	76,2	67,4	47,0	23,5	
DNG 1230	295,4	236,0	205,5	159,9	132,3	84,1	74,4	51,9	25,9	
DNG 1370	327,4	261,5	227,7	177,2	146,6	93,2	82,4	57,5	28,7	
DNG 1820	442,6	353,6	307,9	239,6	198,2	126,0	111,4	77,8	38,8	
DNG 2050	516,2	412,4	359,0	279,4	231,1	146,9	130,0	90,7	45,3	
DNG 2550	618,8	494,4	430,4	334,9	277,1	176,1	155,8	108,7	54,3	
DNG 2950	763,2	609,8	530,9	413,1	341,8	217,2	192,1	134,1	67,0	
DNG 3540	894,5	714,6	622,1	484,1	400,5	254,6	225,1	157,1	78,5	
DNG 4160	1.031,4	824,1	717,4	558,3	461,9	293,6	259,6	181,2	90,5	
DNG 5560	1.241,7	992,0	863,6	672,1	556,0	353,4	312,5	218,1	109,0	
DNG 9170	2.048,0	1.636,1	1.424,3	1.108,4	917,0	582,9	515,5	359,7	179,7	
DNG 11200	2.501,2	1.998,3	1.740,0	1.353,8	1.120,0	712,0	629,6	439,4	219,4	

Model	Buffer Tank	Connections		Dimensions (mm)			Weight
		Air Inlet	Nitrogen Outlet	Length	Width	Height	Kg
DNG 10	26 L	G ½"	G ½"	670	500	1130	40
DNG 20	35 L	G ½"	G ½"	1043	596	1284	67
DNG 35	52 L	G ½"	G ½"	1082	689	1278	86
DNG 60	70 L	G ½"	G ½"	1100	890	1433	124
DNG 95	97 L	G ½"	G ½"	1659	760	1485	184
DNG 120	126 L	G ½"	G ½"	1634	890	1442	228
DNG 150	151 L	G ½"	G ½"	1634	890	1639	313
DNG 250	280 L	G ¾"	G ½"	1760	892	1975	491
DNG 330	408 L	G 1"	G ½"	1901	950	2025	692
DNG 450	464 L	G 1"	G ½"	2218	1010	2134	677
DNG 510	515 L	G 1"	G ¾"	2208	1010	2028	912
DNG 570	573 L	G 1"	G ¾"	2208	1010	2226	951
DNG 730	712 L	G 1"	G ¾"	2685	1110	2084	1091
DNG 910	1,0 m3	G 1 ½"	G 1"	2727	1220	2485	1395
DNG 1110	1,3 m3	G 1 ½"	G 1"	2896	1322	2521	1704
DNG 1230	1,4 m3	G 2"	G 1"	2898	1322	2724	2031
DNG 1370	1,5 m3	G 2"	G 1 ¼"	2895	1355	2941	2096
DNG 1820	2,0 m3	G 2"	G 1 ½"	3599	1793	2634	2686
DNG 2050	2,3 m3	DN80	G 1 ½"	3390	1964	3124	3009
DNG 2550	2,3 m3	DN80	G 2"	3666	2139	3194	3040
DNG 2950	2,3 m3	DN80	G 2"	4074	2245	2787	3065
DNG 3540	2,3 m3	DN80	G 2"	4024	2375	3054	3214
DNG 4160	2,3 m3	DN80	G 2"	4020	2376	3361	3466
DNG 5560	2,3 m3	DN100	G 2 ½"	4125	2425	3890	4144
DNG 9170	2,3 m3	DN150	DN80	4502	2986	4364	5298
DNG 11200	2,3 m3	DN150	DN100	3081	4672	4728	5846

Note: Dalgakıran supplies buffer tank volumes for 99,5 % and higher Nitrogen purities. For purities lower than 99,5 %, it may be necessary to use additional tank. "Dalgakıran reserves the right to change the design and /or Dimensions and /or Weight of his products at any time without any notice or liability."

CORRECTION FACTOR			
CMS Temperature (°C)	Correction Factor (Kt)	Inlet Pressure (Bar)	Correction Factor (Kp)
5	0,85	6	0,82
10	1	6,5	0,88
15	1	7	0,94
20	1	7,5	1,0
25	1	8	1,05
30	0,91	8,5	1,1
35	0,82	9	1,14
40	0,74	8,5	1,2
45	0,60	10	1,21

EXAMPLE: If nitrogen requirement of the plant is 20 Nm^3/h at 99,5 % purity while air Pressure is 7 barg and ambient Temperature is 40 °C

Calculation of DNG model as follows
For 40 °C ambient, Kt = 0,74
For 7 barg inlet, Kp = 0,94

DNG Model Flow
(Required N2 Flow) / (Kt x Kp) = (20Nm^3/h) / (0,74 x 0,94) = 28,7 Nm^3/h
Therefore the correct N2 Generator will be DNG-330

Dalgakıran's brand new DDX Nitrogen Treatment System offers an extremely economic means of increasing the required nitrogen purity beyond 99.9% to 99.999%.
The DDX Series uses a specially designed catalyst with a large surface area to increase nitrogen purity. The oxygen left on the catalyst surface after the reaction is reduced to no more than 10 ppm.
DDX Nitrogen Treatment Devices when used in conjunction with DNG Nitrogen Generators use small amounts of hydrogen to prevent compressed air loss and deliver very pure nitrogen. This system delivers very pure nitrogen while keeping power consumption to a minimum.

Advantages

- Short payback period
- Small footprint
- Long-lasting efficiency (> 10 years)
- Best quality high-performance solutions
- Investing in a lower capacity DDX system instead of a higher capacity DNG system for the same purity of nitrogen reduces costs and saves on energy
- Up to 99.999% nitrogen purity with minimum space and energy requirements
- Low energy consumption
- Low CO_2 emissions
- Heavy-duty build designed for hard conditions and industrial use
- High-quality and durable components
- System produces minimum 99.999% pure nitrogen with a very low air/nitrogen ratio (3.0 instead of 8.4).
- Compact design, fully automated system
- 24/7 nitrogen production at the desired purity
- High energy savings
- Low-cost and special production
- Minimum maintenance costs

Working Principle

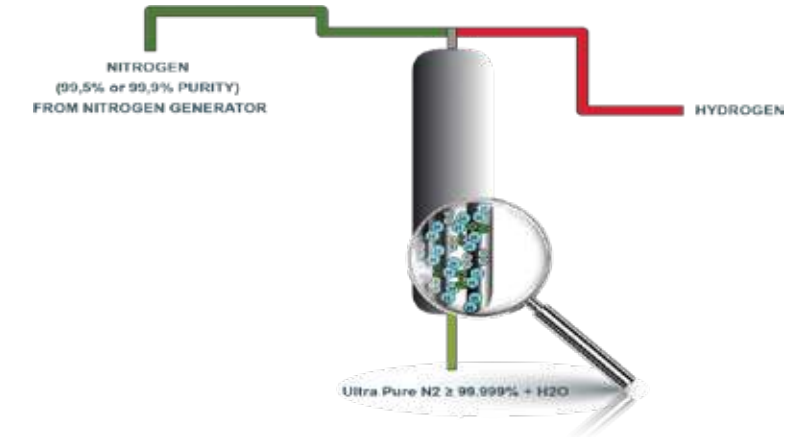
Compared with existing applications, Dalgakıran's compact designed Nitrogen Treatment System can take nitrogen produced at 99.5-99.9% purity and convert it to 99.999% pure nitrogen while delivering considerable energy savings in nitrogen production costs.

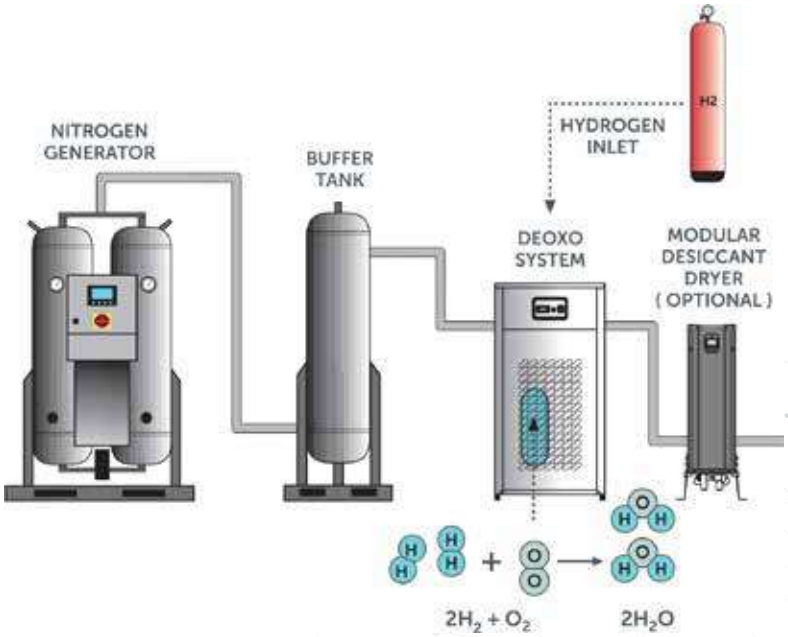
The system uses a catalytic reaction to remove the oxygen left over from the DNG generator from the PSA Nitrogen Generator outlet by utilizing the reaction between the residual oxygen and hydrogen to produce 99.999% pure nitrogen. The only by-product of this catalytic reaction is water.

The low cost of the hydrogen needed for the reaction results in considerable long-term savings.
In fact, this newly developed nitrogen purifier lets you produce extremely pure nitrogen using lower capacity air compressors and equipment.

As the reaction increases the temperature of the nitrogen, the DDX Nitrogen Purifying System is integrated into a High-Temperature Air Dryer, combining two products in a single unit for a complete solution.

Model	N_2 Flow at 99.999% Purity (m^3/h)
DDX 10	1
DDX 20	2
DDX 35	3,5
DDX 60	6
DDX 95	10,4
DDX 120	13,9
DDX 150	17
DDX 250	27,1
DDX 330	35,8
DDX 450	48,4
DDX 510	55,5
DDX 570	61,6
DDX 730	80,6
DDX 910	98,6
DDX 1110	119,9
DDX 1230	132,3
DDX 1370	146,6
DDX 1820	198,2
DDX 2050	231,1
DDX 2550	277,1
DDX 2950	341,8
DDX 3540	400,5
DDX 4160	461,9
DDX 5560	556
DDX 6050	686,3
DDX 7500	816,4
DDX 9170	917
DDX 11200	1120





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