

COMPRESSOR

D/LG/KIRAN



JOURNEY OF AIR

This line represents the standard we have set at many points.

Actually, It's an endless journey, and whatever the conditions,
we will accompany you throughout this journey.

As Dalgakiran, we understand all your needs for high quality compressed air
and offer products and services that will provide maximum added value to you
and your processes with our quality standards and advanced engineering
approach with our productive and dynamic teammates.

D/LG/KIR/N



ABOUT US

Türkiye's largest manufacturer and exporter of industrial compressors, Dalgakiran Kompresör was founded in Istanbul in 1965 by Ömer Dalgakiran in a modest workshop measuring 25 m². Dalgakiran 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.

ROTARY SCREW, RECIPROCATING, SCROLL, TURBO



JOURNEY
OF
AIR

0,38-6,40
m³/min

2,2-37
kW

7,5-10-13
bar



General Features

- High quality screw block and motor
- Electronic control
- Easy installation and quick implementation thanks to its compact design



Advantages

- Service-friendly design minimizes downtime and reduces maintenance costs.
- Models with tanks and integrated dryers are compact and take up little space leaving room for other machinery.



Screw Block

- Durable screw block provides high-capacity of air and is specially selected for each model's capacity requirement
- New rotor profiles for reduced loss air production and lower torque requirements
- Next gen bearing design for improved load bearing capabilities



Main Motor and Drive System

- IE3 efficiency-class electric motor
- Star/delta motor starter
- Soft start option
- Belt-pulley drive system
- Easy-to-use belt tensioner and pulley bushing for easy servicing

Model	Pressure		Capacity*		Motor kW/HP	Connection	Dimensions [Width x Length x Height] (mm)		Weight (kg)	
	bar	psi	m ³ /min	cfm			Base Mounted	Tank + Dryer	Base Mounted	Tank + Dryer
TIDY 3	7,5	110	0,38	13,4	2,2/3	G 1/2"	900 x 550 x 860	1834x 550 x 1335	167	288
TIDY 4	7,5	110	0,41	14,5	3/4	G 1/2"	900 x 550 x 860	1834x 550 x 1335	159	290
	10	145	0,36	12,7						
TIDY 5	7,5	110	0,56	19,8	4/5,5	G 1/2"	900 x 550 x 860	1834 x 550 x 1335	175	306
	10	145	0,46	16,3						
	13	190	0,35	12,3						
TIDY 7	7,5	110	0,8	28,3	5,5/7,5	G 1/2"	1050 x 550 x 835	1425 x 550 x 1310	197	328
	10	145	0,65	23						
	13	190	0,53	18,7						
TIDY 10	7,5	110	1,15	40,6	7,5/10	G 3/4"	1050 x 550 x 835	1912 x 640 x 1612	205	408
	10	145	0,95	33,6						408
	13	190	0,77	27,2						437
TIDY 15	7,5	110	1,7	60	11/15	G 3/4"	1217 x 650 x 915	1915 x 655 x 1605	274	477
	10	145	1,4	49,5						477
	13	190	1,16	41						506
TIDY 20	7,5	110	2,25	79,5	15/20	G 3/4"	1217 x 670 x 915	1915 x 655 x 1605	305	510
	10	145	1,96	69,2						510
	13	190	1,61	56,9						539
TIDY 20 B	7,5	110	2,7	95,4	15/20	G 1"	1276 x 850 x 1435	-	420	-
	10	145	2,3	81,2						-
	13	190	1,9	67,1						-
TIDY 25	7,5	110	3,3	116,6	18,5/25	G 1"	1276 x 850 x 1435	-	465	-
	10	145	2,8	98,9						-
	13	190	2,4	84,8						-
TIDY 30	7,5	110	3,8	134,2	22/30	G 1"	1276 x 850 x 1435	-	510	-
	10	145	3,5	123,6						-
	13	190	3	106						-
TIDY 40	7,5	110	4,6	162,5	30/40	G 1 1/4"	1610 x 1030 x 1755	-	698	-
	10	145	4	141,3						-
	13	190	3,6	127,1						-
TIDY 40 B	7,5	110	5,2	183,7	30/40	G 1 1/4"	1610 x 1030 x 1755	-	710	-
	10	145	4,3	151,9						-
	13	190	3,7	130,7						-
TIDY 50	7,5	110	6,4	226	37/50	G 1 1/4"	1610 x 1030 x 1755	-	740	-
	10	145	5,4	190,7						-
	13	190	4,3	151,9						-

- Unit performances measured in reference conditions which are 1 bar absolute air Pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.

- Dalgakiran reserves its rights to make changes in its products and specifications without prior notice.

* Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.

5,4-27,4
m³/min

45-160
kW

7,5-10-13
bar



General Features

- High-quality, easy-to-replace components with a long service life
- Next gen screw block and motor
- Electronic control
- Soft starter (optional)
- Water cooling (optional)
- Integrated dryer and heat recovery (optional)
- Food grade oil suitable for food production (optional)



Advantages

- Easily accessible parts for reduced maintenance costs.
- Protective covers can be removed and fitted quickly for easy servicing.
- Controllers allow ease of access and use.





Screw Block

- Specially selected, durable screw blocks for different capacity needs
- New rotor profiles for reduced loss air production and lower torque requirements
- Next gen bearing design for improved load resistance capabilities

Model	Pressure		Capacity*		Motor kW/HP	Connection	Dimensions (mm)			Weight kg
	bar	psi	m ³ /min	cfm			Width	Length	Height	
DVK 60	7,5	110	7,2	254	45/60	G 1 1/4"	1605	1030	1755	878
	10	145	6,4	226						
	13	190	5,4	191						
DVK 75	7,5	110	9,6	339	55/75	G 1 1/2"	2065	1200	1810	1371
	10	145	8,5	300						
	13	190	6,6	233						
DVK 100	7,5	110	12,4	438	75/100	G 1 1/2"	2065	1200	1810	1408
	10	145	10,5	371						
	13	190	8,7	307						
DVK 125	7,5	110	15,8	558	90/125	G 2"	2525	1440	2040	2240
	10	145	13,5	477						
	13	190	11	388						
DVK 150	7,5	110	18,8	664	110/150	G 2"	2525	1440	2040	2500
	10	145	16,5	583						
	13	190	14	495						
DVK 180	7,5	110	22,8	805	132/180	G 2 1/2"	2500	1805	2000	2873
	10	145	19,5	689						
	13	190	16	565						
DVK 220	7,5	110	27,4	968	160/220	G 2 1/2"	2500	1805	2000	3030
	10	145	23	812						
	13	190	19,5	689						

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0,36-54,10
m³/min

5,5-315
kW

7,5-10-13
bar



Advantages

- Up to 65% energy saving*
- Operation at constant output pressure value
- Wide operating pressure range (5-14 bar)**
- Long component life cycle thanks to soft start
- Protection against the adverse effects of peak currents
- Effective and energy efficient compressed air production even in case of highly variable compressed air requirements

* When compared with compressors without an inverter for applications with variable requirements

** If requested, it is produced specially according to the need.



Main Motor and Drive System

- IE3 efficiency-class electric motor
- Direct coupled (1:1)
- Elasting coupling for a maintenance free long-lasting and efficient power transmission system
- Variable-speed starting with frequency converter
- High temperature protection for motor bearings (Inversys 15-315 Plus)



Screw Block

- A durable and specially selected patented screw block that provides high capacity air according to the capacity needs of each model
- New rotor profiles for reduced loss air production
- Next gen bearing design for improved load bearing capabilities

Model	Pressure		Capacity*				Motor (kW/HP)	Connection	Dimensions [Width x Length x Height] (mm)		Weight (kg)	
	bar	psi	Minimum m³/min	Minimum cfm	Maximum m³/min	Maximum cfm			Base Mounted	Tank + Dryer	Base Mounted	Tank + Dryer
INVERSYS 5 PLUS	7,5	110	0,38	13,4	1,03	36	5,5/7,5	G 1/2"	1058 x 650 x 963	1828 x 650 x 1438	235	366
	10	145	0,37	13	0,83	29						
	13	190	0,36	12,7	0,64	22,6						
INVERSYS 7 PLUS	7,5	110	0,42	14,8	1,4	49,4	7,5/10	G 1/2"	1058 x 650 x 963	1828 x 650 x 1438	273	436
	10	145	0,43	15,1	1,2	42,3						
	13	190	0,43	15,1	0,95	33,5						
INVERSYS 11 PLUS	7,5	110	0,77	27	1,8	64	11/15	G 3/4"	1200 x 730 x 1050	1911 x 730 x 1708	320	533
	10	145	0,81	29	1,61	57						533
	13	190	0,74	26	1,3	46						590
INVERSYS 15 PLUS	7,5	110	0,79	28	2,85	101	15/20	G 3/4"	1200 x 730 x 1050	1911 x 730 x 1708	420	638
	10	145	0,77	27	2,33	82						638
	13	190	0,99	35	2,07	73						658
INVERSYS 18 PLUS	7,5	110	1,1	39	3,5	124	18,5/25	G 1"	1280 x 860 x 1435	-	500	-
	10	145	1	35	3	106						-
	13	190	1,1	39	2,6	92						-
INVERSYS 22 PLUS	7,5	110	1,3	46	4,2	148	22/30	G 1"	1280 x 860 x 1435	-	516	-
	10	145	1,3	46	3,8	134						-
	13	190	1,2	42	3	106						-
INVERSYS 30 PLUS	7,5	110	1,2	43	5,3	187	30/40	G 1 1/4"	1605 x 1040 x 1755	-	819	-
	10	145	1,2	43	4,6	162						-
	13	190	1,2	43	4	141						-
INVERSYS 37 PLUS	7,5	110	1,3	46	6,8	240	37/50	G 1 1/4"	1605 x 1040 x 1755	-	870	-
	10	145	1,3	46	5,8	205						-
	13	190	1,3	46	5	177						-
INVERSYS 45 PLUS	7,5	110	1,3	46	7,6	268	45/60	G 1 1/4"	1605 x 1040 x 1755	-	945	-
	10	145	1,2	42	6,8	240						-
	13	190	1,2	42	5,9	208						-
INVERSYS 55 PLUS	7,5	110	2,5	88	9,9	350	55/75	G 1 1/2"	2065 x 1200 x 1810	-	1524	-
	10	145	2,4	85	8,2	290						-
	13	190	2,6	92	7,4	261						-
INVERSYS 75 PLUS	7,5	110	2,6	92	12,9	456	75/100	G 1 1/2"	2065 x 1200 x 1810	-	1647	-
	10	145	2,5	88	10,9	385						-
	13	190	2,5	88	9,6	339						-
INVERSYS 90 PLUS	7,5	110	6,2	219	16,8	593	90/125	G 2"	2525 x 1440 x 2037	-	2020	-
	10	145	6	212	14,4	509						-
	13	190	6,2	219	12,3	434						-
INVERSYS 110 PLUS	7,5	110	6,6	233	20,1	710	110/150	G 2"	2525 x 1440 x 2037	-	2380	-
	10	145	7,1	250	17,3	611						-
	13	190	7	247	15	530						-
INVERSYS 132 PLUS	7,5	110	6,9	244	24,3	858	132/180	G 2 1/2"	2775 x 1820 x 2000	-	2555	-
	10	145	6,8	240	20,3	717						-
	13	190	9,7	343	18,1	639						-
INVERSYS 160 PLUS	7,5	110	6,8	240	28,2	996	160/220	G 2 1/2"	2775 x 1820 x 2000	-	2760	-
	10	145	7,1	251	24,6	869						-
	13	190	8,5	300	21,7	766						-
INVERSYS 200 PLUS	7,5	110	14	494	37,5	1324	200/270	DN80	3290 x 2285 x 2455	-	4460	-
	10	145	13,9	491	32,3	1141						-
	13	190	13,8	487	28,8	1017						-
INVERSYS 250 PLUS	7,5	110	13,6	480	45,2	1596	250/340	DN100	3315 x 2285 x 2455	-	5600	-
	10	145	13,5	477	38,5	1360						-
	13	190	13,5	477	33,5	1183						-
INVERSYS 315 PLUS	7,5	110	13,2	466	54,1	1911	315/430	DN100	3315 x 2285 x 2455	-	6000	-
	10	145	13,2	466	44,3	1564						-
	13	190	12,9	456	38	1342						-

- Unit performances measured in reference conditions which are 1 bar absolute air Pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.

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* Refers to free air delivery measured according to ISO 1217:2009, Annex E standard.

0,16-3,40
m³/min

1,5-30
kW

8-10
bar



General Features

- Compact design
- Soundproofed canopy
- Internal air cooler(s), water separator and stainless pipes
- Robust and durable single unit or stacked design

Advantages

- Low noise level thanks to low-vibration operation.
- User-friendly, robust and long-lasting microprocessor control device with communication features based on the product
- Smooth operation and interruption-free production.
- Component placement specifically designed to reduce downtimes during maintenance process.



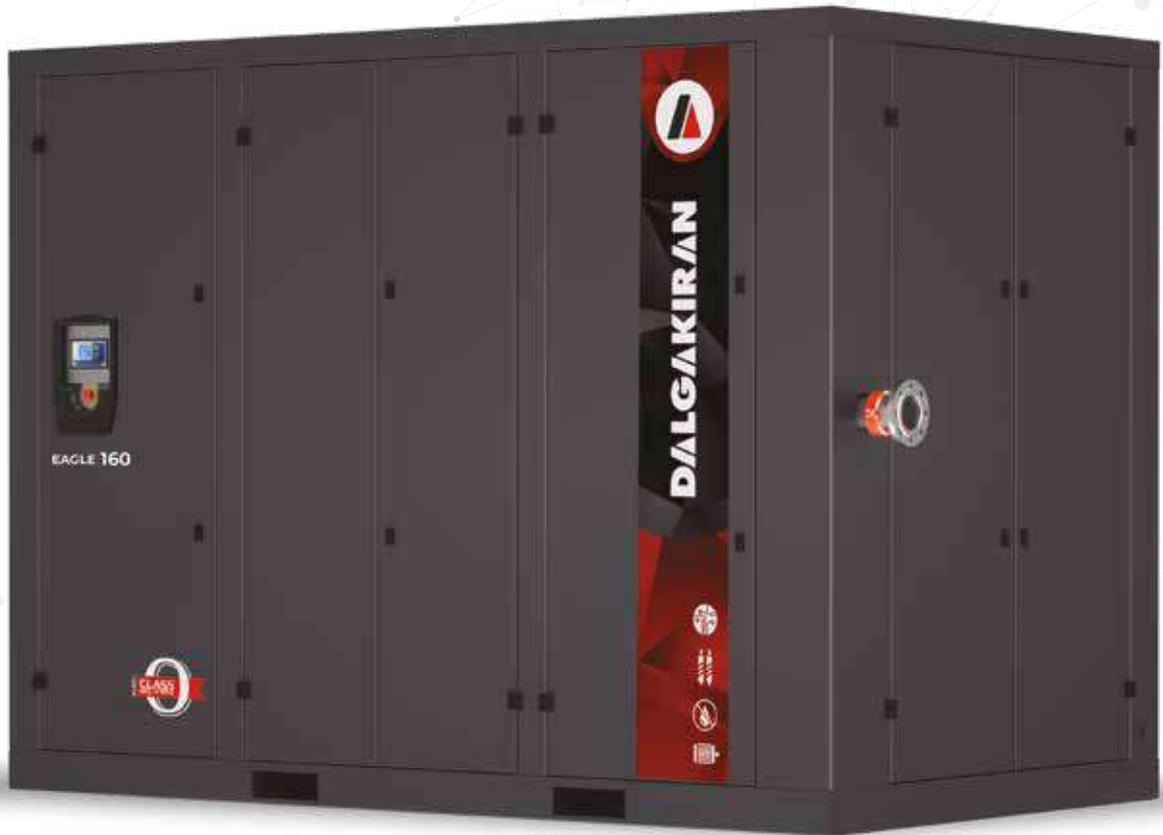
	Model	Pressure		Capacity		Motor	Connection	Dimensions (mm) [Width x Length x Height]			Weight (kg)		
		bar	psi	m³/min	cfm	kW/HP		Base Mounted	Tank Mounted	Tank + Dryer	Base Mounted	Tank Mounted	Tank + Dryer
SINGLE	DS1.5-S	8	115	0,16	5,65	1,5 / 2	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	195	329	372
	DS2.2-S	8	115	0,24	8,48	2,2 / 3	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	200	334	377
		10	145	0,2	7,06								
	DS3.7-S	8	115	0,4	14,13	3,7 / 5,5	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	220	354	397
		10	145	0,34	12,01								
	DS5.5-S	8	115	0,6	21,19	5,5 / 7,5	G 1/2"	750x731x900	1773x823x1381	1818x823x1381	230	364	407
		10	145	0,47	16,6								
	DS7.5-S	8	115	0,85	30,01	7,5 / 10	G 1/2"	750x731x900	1773x823x1381	1818x823x1428	235	369	431
		10	145	0,68	24,01								
	DOUBLE	DS7,5-D	8	115	0,8	28,25	2x(3,7 / 5,5)	G 3/4"	1500x821x1050	1972x926x1725	-	405	590
10			145	0,68	24,01								
DS11-D		8	115	1,2	42,38	2x(5,7 / 7,5)	G 3/4"	1500x821x1050	1972x926x1725	-	425	610	-
		10	145	0,94	33,2								
DS15-D		8	115	1,7	60,03	2x(7,5 / 10)	G 3/4"	1500x821x1050	1972x926x1725	-	440	625	-
		10	145	1,36	48,02								
TRIPLE	DS11-T	8	115	1,2	42,38	3x(3,7 / 5,5)	G 1"	1500x823x1840	-	-	540	-	-
		10	145	1,02	36,02								
	DS16,5-T	8	115	1,8	63,57	3x(5,7 / 7,5)	G 1"	1500x823x1840	-	-	615	-	-
		10	145	1,41	49,79								
	DS22.5-T	8	115	2,55	90,05	3x(7,5 / 10)	G 1"	1500x823x1840	-	-	625	-	-
		10	145	2,04	72,04								
QUADRUPLE	DS15-Q	8	115	1,6	56,5	4x(3,7 / 5,5)	G 1"	1500x823x1840	-	-	645	-	-
		10	145	1,36	48,03								
	DS22-Q	8	115	2,4	84,75	4x(5,7 / 7,5)	G 1"	1500x823x1840	-	-	745	-	-
		10	145	1,88	66,39								
	DS30-Q	8	115	3,4	120,07	4x(7,5 / 10)	G 1"	1500x823x1840	-	-	755	-	-
		10	145	2,72	96,06								

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3,8-48,8
m³/min

37-315
kW

7-8,5-10
bar



General Features

- IE4 efficiency-class electric motors
- Soundproofed canopy
- Electrostatic coated canopy components for high corrosion resistance
- Electric motor protection to prevent overload
- Air-cooled and water-cooled options available
- Fixed and variable speed drive options
- Soft starting at variable speed models
- Soft starter at fixed speed models
- Direct coupled drive system



Advantages

- Eco-friendly technology.
- It can be used safely in sensitive industries such as food and pharmaceutical for the highest hygiene.
- Highly durable performance suitable for working in the harshest operational conditions.
- Models with VSD technology save up to 65% energy and reduce your energy costs.
- Special venturi design prevents rapid pressure fluctuations and high-frequency vibrations.





Screw Block

- Two-stage screw block
- Special ultracoated rotors for minimum gap tolerance, high efficiency, high temperature resistance
- Bearing system developed with the latest technology ensures long life and vibration-free operation
- High level sealing system ensures high performance even during long operation periods
- Synchronizing gears for contact-free power transmission between the rotors
- Stainless steel rotors to counter risk of corrosion and locking for a long service life

Cooling System

- Two-stage cooling with stainless steel pipe and finned pre-cooler system
- After-cooler with aluminium bar and plate system
- Easy to maintain and clean
- Washable panel filter
- Optimum in-cabinet air circulation to keep the motor and screw block cool

Water Separator

- Improved design for highly efficient water separation at the cooler outlet with minimum pressure loss
- Energy-efficient and zero-loss electronic drain system drains the water before the compressed air is sent to the dryer



Model	Pressure		Capacity *		Motor kW/HP	Connection	Dimensions (mm) [Air Cooled / Water cooled]		
	bar	psi	m ³ /min.	cfm			Width	Length	Height
EAGLE 37	7	100	6	212	37/50	G 2"	2593	1640	2160
	8,5	125	5,3	187					
	10	145	4,8	170					
EAGLE 45	7	100	7,5	265	45/60	G 2"	2593	1640	2160
	8,5	125	6,5	230					
	10	145	5,9	208					
EAGLE 55	7	100	9,4	332	55/75	G 2"	2593	1640	2160
	8,5	125	8,6	304					
	10	145	7,5	265					
EAGLE 75	7	100	12,7	449	75/100	G 2"	2593	1640	2160
	8,5	125	11,8	417					
	10	145	10,2	360					
EAGLE 90 B	7	100	15,5	547	90/125	DN80	3197	1840	2450/2200
	8,5	125	13	459					
	10	145	13	459					
EAGLE 110	7	100	19,5	689	110/150	DN80	3197	1840	2450/2200
	8,5	125	17,6	622					
	10	145	15,5	547					
EAGLE 132	7	100	22,3	788	132/180	DN80	3197	1840	2450/2200
	8,5	125	20,9	738					
	10	145	19,4	685					
EAGLE 160	7	100	25,4	897	160/220	DN80	3197	1840	2450/2200
	8,5	125	25,3	893					
	10	145	24	848					
EAGLE 185	7	100	28	989	185/250	DN80	3197	1840	2450/2200
	8,5	125	28	989					
	10	145	28	989					
EAGLE 200	7	100	36	1271	200/270	DN100	3797/3544	2140	2715/2450
	8,5	125	34	1200					
	10	145	28,3	999					
EAGLE 250	7	100	44,3	1564	250/340	DN100	3797/3544	2140	2715/2450
	8,5	125	40,5	1430					
	10	145	35,8	1264					
EAGLE 315	7	100	48,7	1720	315/430	DN100	3797/3544	2140	2715/2450
	8,5	125	48,7	1720					
	10	145	44,2	1560					

- Unit performances measured in reference conditions which are 1 bar absolute air Pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.
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- Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.

Model	Pressure		Capacity *				Motor kW/HP	Connection	Dimensions (mm) [Air Cooled / Water cooled]		
	bar	psi	Min. m ³ /min	Min. cfm	Max. m ³ /min	Max. cfm			Width	Length	Height
EAGLE 55 VSD	7	100	3,8	134	9,1	321	55/75	G 2"	2588/2593	1640	2160
	8,5	125	3,7	131	8,3	293					
	10	145	3,7	131	7,5	265					
EAGLE 75 VSD	7	100	6,2	219	12,8	452	75/100	G 2"	2588/2593	1640	2160
	8,5	125	6,2	219	11,9	420					
	10	145	6,2	219	11	389					
EAGLE 90 VSD	7	100	6,2	219	14,6	516	90/125	G 2"	2588/2593	1640	2160
	8,5	125	6,2	219	14,2	501					
	10	145	6,2	219	13,2	466					
EAGLE 110 VSD	7	100	9,1	321	18,8	664	110/150	DN80	3197	1840	2450/2200
	8,5	125	10,3	364	18,5	653					
	10	145	10,3	364	17,4	614					
EAGLE 132 VSD	7	100	10,4	367	22,2	784	132/180	DN80	3197	1840	2450/2200
	8,5	125	10,4	367	21	742					
	10	145	10,3	364	19,6	692					
EAGLE 160 VSD	7	100	10,7	378	26,9	950	160/220	DN80	3197	1840	2450/2200
	8,5	125	10,6	374	25,5	901					
	10	145	10,6	374	23,5	830					
EAGLE 185 VSD	7	100	14	494	29,6	1045	185/250	DN80	3197	1840	2450/2200
	8,5	125	14	494	29,5	1042					
	10	145	13,9	491	27,7	978					
EAGLE 200 VSD	7	100	17,4	614	36,2	1278	200/270	DN100	3797/3540	2140	2715/2450
	8,5	125	17,3	611	33,3	1176					
	10	145	17,2	607	30,4	1074					
EAGLE 250 VSD	7	100	18,9	667	44,6	1575	250/340	DN100	3797/3540	2140	2715/2450
	8,5	125	18,8	664	41,3	1458					
	10	145	18,7	660	38,2	1349					
EAGLE 315 VSD	7	100	22,9	809	48,8	1723	315/430	DN100	3797/3540	2140	2715/2450
	8,5	125	22,9	809	46,6	1646					
	10	145	22,9	809	46,3	1635					

- Unit performances measured in reference conditions which are 1 bar absolute air Pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.

- Dalgakiran reserves its rights to make changes in its products and specifications without prior notice.

* Refers to free air delivery measured according to ISO 1217:2009, Annex E standard.



Controller

- Mains voltage and phase monitoring to protect the main motor at certain limits
- Multiple compressor control for up to 8 compressors without the need for an external master controller
- Internal ModBus communication
- Alarm log records the last 9 alarms



Main Motor and Drive System

- IE3 efficiency-class electric motors
- Belt pulley drive system
- Easy belt tensioning system
- Specially designed fan type cast iron pulley
- Star/delta motor starter
- Special loadless start system and automatic discharge system for loadless start



Compressor Block

- Cast iron cylinder with cooling fins and special aluminium alloy cylinder heads
- Specially designed long-life and high-speed stainless steel concentric valves
- High-strength cast iron crankcase
- Dynamically balanced cast steel crankshaft and counterweight
- Special aluminium alloy pistons and cast connecting rods

Model	Working Pressure				Inlet Capacity						Motor kW/HP	Connection	Dimensions (mm)			Weight kg
	Minimum bar - psi		Maximum bar - psi		7 bar m ³ /min - cfm		10 bar m ³ /min - cfm		13 bar m ³ /min - cfm				Length	Width	Height	
DBK 10 GP	15	218	40	580	2,1	74	2,89	102	3,67	130	7,5/10	1"	1430	1010	1025	350
DBK 15 GP	15	218	40	580	2,45	87	3,37	119	4,29	152	11/15	1"	1430	1010	1025	400
DBK 20 GP	15	218	40	580	3,75	132	5,15	182	6,55	231	15/20	1"	1430	1010	1025	410
DBK 25 GP	15	218	40	580	4,9	173	6,73	238	8,57	303	18,5/25	1 1/4"	1500	1025	957	440
DBK 30 GP	15	218	40	580	5,56	196	7,65	270	9,74	344	22/30	1 1/4"	1500	1025	957	480
DBK 40 GP	15	218	40	580	6,68	236	9,18	324	11,68	413	30/40	1 1/4"	1500	1025	957	550

- Unit performances measured in reference conditions which are 1 bar absolute air pressure, 0% relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.

- Dalgakiran reserves its rights to make changes in its products and specifications without prior notice.



Easy Maintenance

IHI Dalgakiran turbo compressors have a simple and robust design, in order to reduce maintenance costs. IHI Dalgakiran have worked hard to simplify maintenance procedures so that our products can provide a stable supply of compressed air throughout the year, with minimal maintenance.



Control Panel

IHI Dalgakiran offers advance control panel for T2A, TRA, T3A, TRE and TRX compressors with high speed and high reliability

Control panel specifications are stated as below;

- High quality touch screen with special functions
- Flexible and high resolution Analog/Digital Inputs, Outputs
- Profinet communication protocol standard, Profibus and Modbus are optional
- Adjustable capacity control methods for machine type
- Easily integrated with DCS or Scada System of the customer.



Certification

IHI Dalgakiran Turbo Compressors have been audited by an independent third party (TÜV, Germany) and received the best rating, i.e. Class 0 (100%) oil-free certificate.



Model	Motor (kW)	Pressure Range bar	Pressure Range psi	Flow Rate (m ³ /h)	Dimensions (mm)			Weight (kg)
					Length	Width	Height	
T2A	132-250	4-9	59-130	1,394-2,700	3,043	2,066	2,506	4,500
TRA	200-600	2-11	30-160	2,400-6,600	3,700-4,940	2,000-2,100	2,000-2,400	7,100-9,500
TRE	355-1,060	2-16	30-232	3,600-11,400	4,100-5,429	2,100-4,100	2,000-3,000	8,300-13,500
T3A	400-1,400	2-11	30-188	8,200-15,000	4,600-6,700	2,250-2,500	2,000-3,500	10,000-16,000
TRX	710-2,000	2-10	30-145	8,200-22,000	4,850-7,260	2,400-3,900	2,150-3,400	13,500-20,000

SERVICE & MAINTENANCE

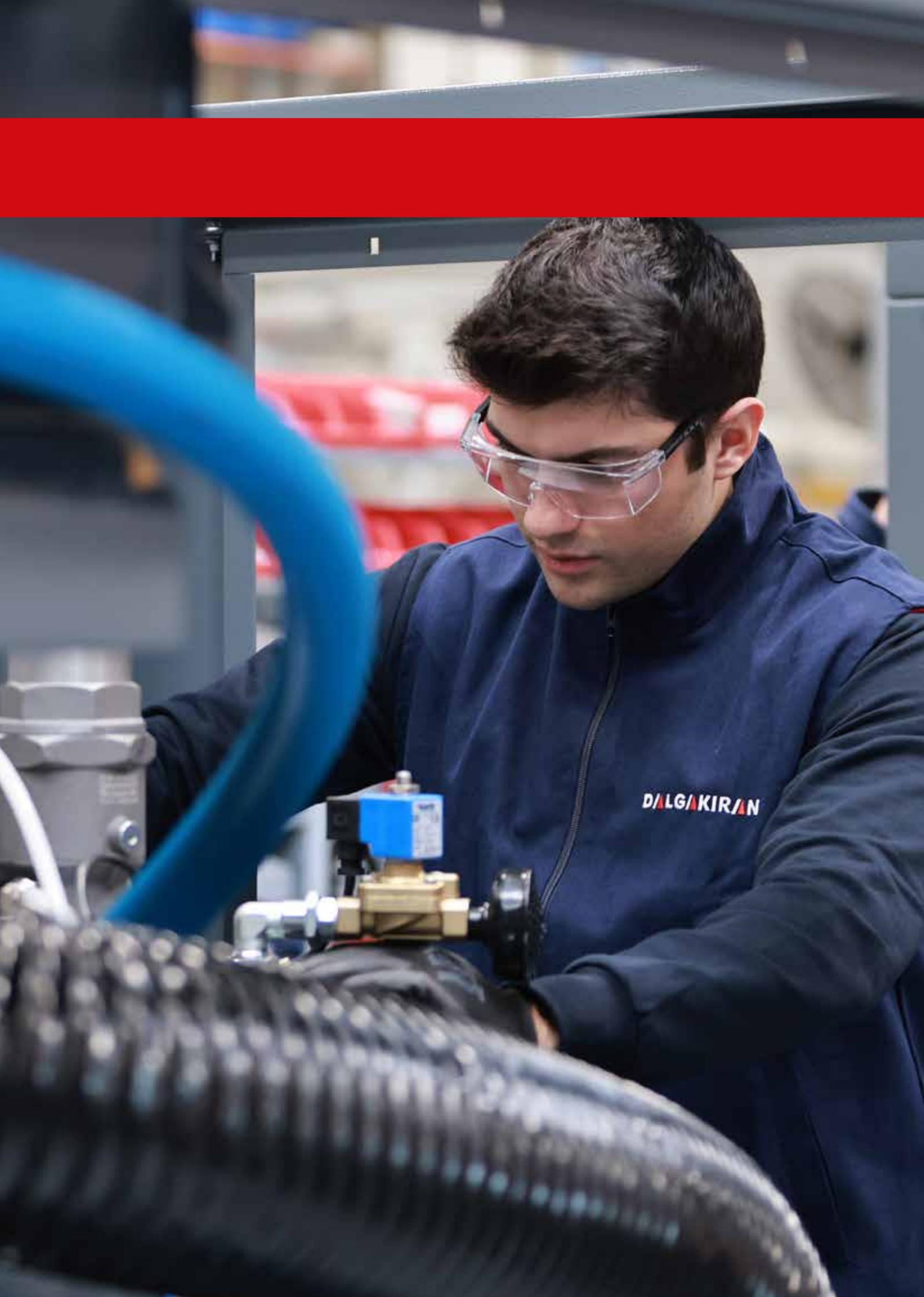
- If compressed air is essential to your daily operations, it is vital to keep the components of your compressed air supply system well maintained.
- Each component of an air compressor has a specific function. The regular maintenance of the air compressor will ensure a better quality of compressed air and energy efficiency, further improving business productivity and profits.
- Beyond that identifying certain areas of repairs or more importantly timely interventions can help you save on energy consumption and cost.

We are at the closest point to your compressor

- We provide a worldwide network of highly qualified Dalgakiran service technicians and specially trained and authorized service partners.

We leave nothing to chance

- As Dalgakiran, we know how important quality is. Therefore, we are extremely careful and ensure that the compressor always has the right conditions to function in its plant.
- When we repair, we assess and recommend any measures regarding service life and efficiency. We also perform mechanical processing of the compressor's various components.





CE DALGAKIRAN



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
	m ³ /min	cfm				bar	°C	°C		Length	Width	Height	Kg
Dryair DK 10	0,35	12	G 1/2"	230V/1/50 Hz	R-134a	16	50	60	GKO 45 MX+MY	423	393	567	32
Dryair DK 20	0,58	20	G 1/2"	230V/1/50 Hz	R-134a	16	50	60	GKO 45 MX+MY	423	393	567	32
Dryair DK 30	0,83	29	G 1/2"	230V/1/50 Hz	R-134a	16	50	60	GKO 45 MX+MY	423	393	567	32
Dryair DK 35	1,05	37	G 1/2"	230V/1/50 Hz	R-134a	16	50	60	GKO 70 MX+MY	423	393	567	35
Dryair DK 40	1,45	51	G 3/4"	230V/1/50 Hz	R-134a	16	50	60	GKO 150 MX+MY	473	453	832	51
Dryair DK 50	2,17	77	G 3/4"	230V/1/50 Hz	R-134a	16	50	60	GKO 150 MX+MY	473	453	832	53
Dryair DK 60	2,83	100	G 3/4"	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 1/2"	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 1/2"	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 1/2"	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;

$$\text{Dryer Capacity} = 20 / 0.94 / 0.92 / 0.98 = 23,6 \text{ m}^3/\text{min}$$

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



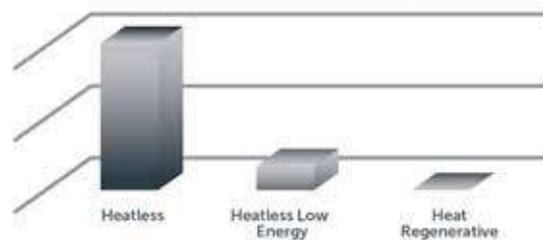
The DMD-VP Series modular, vacuum purge heatless desiccant air dryers remove water vapour from the compressed air, stop corrosion, and prevent the growth of micro-organisms when supplying the clean air crucial for production. DMD-VP Series air dryers efficiently and reliably supply the system with high-quality 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.



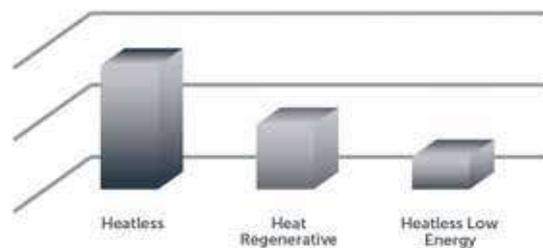
Areas of Use

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

Dry Compressed Air Loss

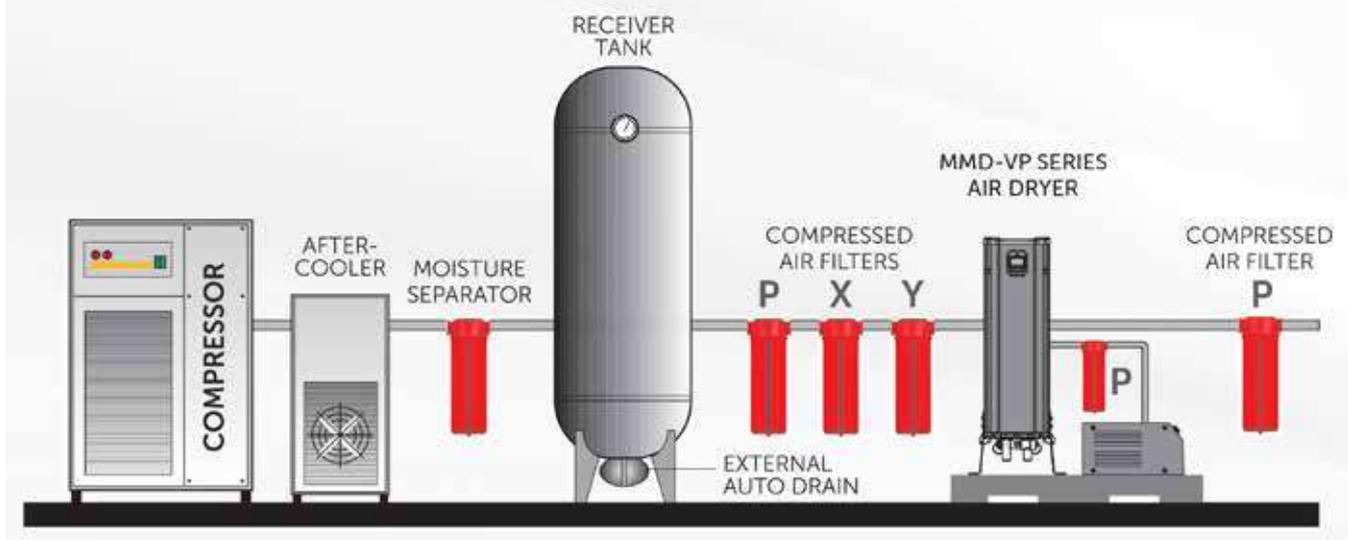


Power Consumption



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

AIR LINE DESIGN

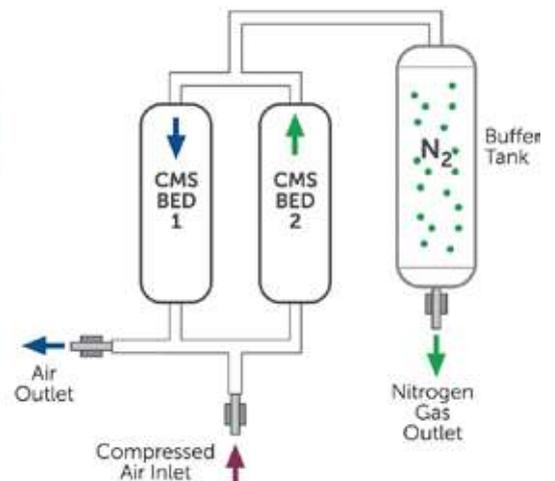
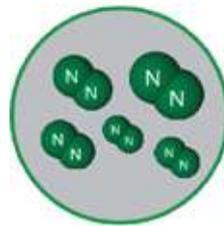




PSA nitrogen generators are systems which separate and store nitrogen and use a CMS as an adsorbent. The CMS (Carbon Molecular Sieve) allows nitrogen to pass through while absorbing oxygen and water vapour molecules.

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



TURBO COMPRESSORS

OIL-FREE

WATER COOLED

