DALGAKIRAN

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 Dalgakıran, 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.

DALGAKIRAN



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

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

Global Presence 130+ Countries

In 5 Countries
23+ Locations

COMPRESSOR RANGE

Dalgakıran manufactures to suit your compressed air needs with a wide range product portfolio.

Our compressors are designed to provide maximum uptime and reliability with a low total cost of ownership.

We provide the specific requirements of each industry. Our air compressors ensure all industry-specific demands such as cost-efficiency, robustness and easy serviceability.



ROTARY SCREW, RECIPROCATING, SCROLL, TURBO



ROTARY SCREW & SCROLL COMPRESSORS (A)



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WATER COOLED

0

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.





- 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





- 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	Pres	ssure	Capa	city*	Motor	- Connection	Dime r [Width x Length	nsions x Height] (mm)		ight g)
Houet	bar	psi	m³/min	cfm	kW/HP		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						
	7,5	110	0,56	19,8						
TIDY 5	10	145	0,46	16,3	4/5,5	G 1/2"	900 x 550 x 860	1834 x 550 x 1335	175	306
	13	190	0,35	12,3						
	7,5	110	0,8	28,3						
TIDY 7	10	145	0,65	23	5,5/7,5	G 1/2"	1050 x 550 x 835	1425 x 550 x 1310	197	328
	13	190	0,53	18,7						
	7,5	110	1,15	40,6						408
TIDY 10	10	145	0,95	33,6	7,5/10	G 3/4"	1050 x 550 x 835	1912 x 640 x 1612	205	408
	13	190	0,77	27,2						437
	7,5	110	1,7	60						477
TIDY 15	10	145	1,4	49,5	11/15	G 3/4"	1217 x 650 x 915	1915 x 655 x 1605	274	477
	13	190	1,16	41						506
	7,5	110	2,25	79,5						510
TIDY 20	10	145	1,96	69,2	15/20	G 3/4"	1217 x 670 x 915	1915 x 655 x 1605	305	510
	13	190	1,61	56,9						539
	7,5	110	2,7	95,4						
TIDY 20 B	10	145	2,3	81,2	15/20	G 1"	1276 x 850 x 1435	-	420	-
	13	190	1,9	67,1						
	7,5	110	3,3	116,6						
TIDY 25	10	145	2,8	98,9	18,5/25	G 1"	1276 x 850 x 1435	-	465	-
	13	190	2,4	84,8						
	7,5	110	3,8	134,2						
TIDY 30	10	145	3,5	123,6	22/30	G 1"	1276 x 850 x 1435	-	510	-
	13	190	3	106						
	7,5	110	4,6	162,5						
TIDY 40	10	145	4	141,3	30/40	G 1 1/4"	1610 x 1030 x 1755	-	698	-
	13	190	3,6	127,1						
	7,5	110	5,2	183,7						
TIDY 40 B	10	145	4,3	151,9	30/40	G 1 1/4"	1610 x 1030 x 1755	-	710	-
	13	190	3,7	130,7						
	7,5	110	6,4	226						
TIDY 50	10	145	5,4	190,7	37/50	G 1 1/4"	1610 x 1030 x 1755	-	740	-
	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.

⁻ Dalgakıran 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.

0,2-12 m³/min

2,2-75 kW

7,5-10 bar





General **Features**

- Next gen screw block and motor
- Electronic control
- Designed for continuous operation
- Dryer (optional 2,2-15 kW)
- Tank-mounted (optional 2,2-22 kW)



☆ Advantages

- Economic design
- One of the products in its class that takes up the least footprint.
- Blind cover allows you to place it up against the wall. Convenient placement makes for easy servicing, mainten ance, and access.
- Optimized intake chamber and insulated cold air intake increase energy efficiency.
- Compact design has the compressed air widget and compressor in a single place.
- Meets your expectations and demands at the optimal level.
- Efficient motor keeps energy use and costs down.
- High-quality components for a long service life and low maintenance costs.





Screw Block

- Durable screw block provides high-capacity air and is specially selected for each model's capacity requirement
- Air production with less loss thanks to new rotor profiles
- Next gen bearing design increases load-bearing capacity
- Low maintenance and replacement costs



Main Motor and Drive System

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



Intake Chamber

- Insulated cold air intake for energy efficiency
- Optimized noise levels



Filter

- Two-stage filtration (initial filtration/precision filtration)
- 99.9% efficiency in particle separation down to 3 microns
- Low pressure loss
- Easy maintenance
- Long service life







- High efficiency thanks to optimized cooling performance
- Minimum footprint with quiet and effective axial fan (2,2-22 kW) coupled directly to the main motor
- Temperature-controlled additional axial fan (30-75 kW)



- Longer lasting separators keep maintenance costs down
- Effective separator elements keep the amount of oil in the outlet air low (1-3 mg/m³) for high-quality compressed air







Controller

- User-friendly on-screen interface
- Built-in motor phase sequence, frequency, and voltage protection
- Continuous and automatic operating modes
- Digital input for remote operation
- Multiple compressor control for up to 8 compressors without the need for an external master controller
- Alarm log records last 15 alarms

Model	Pres	sure	Capa	city*	Motor	Connection	Dimer [Width x Length	nsions x Height] (mm)		ight g)
Model	bar	psi	m³/min	cfm	kW/HP	Connection	Base Mounted	Tank + Dryer	Base Mounted	Tank + Dryer
FORTUS 2.2	7,5	109	0,25	8,8	2.2/2	01/0"	720/201057	100/71515/7	215	2/5
FORTIUS 2,2	10	145	0,18	6,4	2,2/3	G1/2"	720x628x1057	1906x715x1547	215	345
FORTIUS 3	7,5	109	0,35	12,4	3/4	G1/2"	720x628x1057	1906x715x1547	230	360
FORTIOSS	10	145	0,24	8,5	3/4	01/2	720802081037	1700871381347	230	300
FORTIUS 4	7,5	109	0,53	18,7	4/5,5	G1/2"	720x628x1057	1906x715x1547	265	395
10001034	10	145	0,36	12,7	4/0,0	01/2	720002001037	1700071301347	203	373
FORTIUS 5,5	7,5	109	0,7	24,7	5,5/7,5	G1/2"	745x712x1106	1906x817x1596	310	440
	10	145	0,48	17	3,3/7,3	01/2	743X712X1100	1700201721370	310	440
FORTIUS 7,5	7,5	109	1,09	38,3	7,5/10	G3/4"	745x712x1106	1906x817x1596	320	450
7 01(1103 7,3	10	145	0,8	28,3	7,3/10	03/4	743X712X1100	1700001721370	320	450
FORTIUS 11	7,5	109	1,5	53	11/15	G3/4"	925x732x1200	1911x837x1690	330	460
100110311	10	145	1,1	38,8	11/13	03/4	723X732X1200	1711203721070	330	400
FORTIUS 15	7,5	109	2,13	75,2	15/20	G3/4"	925x732x1200	1911x837x1690	390	520
1011103 13	10	145	1,76	62,2	13/20	03/4	723X732X1200	1711203721070	370	320
FORTIUS 15B	7,5	109	2,3	81,2	15/20	G3/4"	925x732x1200	_	425	_
	10	145	1,95	68,9	10,20	30/4	720070201200		420	
FORTIUS 18,5	7,5	109	2,86	101	18,5/25	G3/4"	1000x948x1462	_	565	_
	10	145	2,44	86,2	10,0,20	30/4	10000,400,1402			
FORTIUS 22	7,5	109	3,39	119,7	22/30	G3/4"	1000x948x1462	_	580	_
	10	145	2,98	105,2	22,00	30/4	10000,740,71402			
FORTIUS 30	7,5	109	4,75	167,7	30/40	G1 1/4"	1100x1035x1750	_	635	_
	10	145	4,08	144,1	-5, 10	/ -				
FORTIUS 37	7,5	109	6,17	217,9	37/50	G1 1/4"	1100x1035x1750	_	665	_
	10	145	5,27	186,1	2.700	5.1/4				
FORTIUS 45	7,5	109	7,25	256	45/60	G1 1/2"	1300x1226x1850	_	1450	_
	10	145	6,2	219	.5,00	3.1/2				
FORTIUS 55	7,5	109	8,76	309,4	55/75	G1 1/2"	1300x1226x1850	_	1500	_
	10	145	7,31	258,2	55,70	0.1/2				
FORTIUS 75	7,5	109	12	423,8	75/100	G2	1800x1200x2000	_	1650	_
701110575	10	145	9,6	339	, 0, 100	02	13007120072000		1000	

⁻ 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.



45-160 kW

7,5-10-13 bar





- 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.







- 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

	Pre	ssure	Сара	city*	Motor			Dimensions (mm)	Weight
Model	bar	psi	m³/min	cfm	kW/HP	Connection	Width	Length	Height	kg
	7,5	110	7,2	254						
DVK 60	10	145	6,4	226	45/60	G 1 1/4"	1605	1030	1755	878
	13	190	5,4	191						
	7,5	110	9,6	339						
DVK 75	10	145	8,5	300	55/75	G 1 1/2"	2065	1200	1810	1371
	13	190	6,6	233						
	7,5	110	12,4	438						
DVK 100	10	145	10,5	371	75/100	G 1 1/2"	2065	1200	1810	1408
	13	190	8,7	307						
	7,5	110	15,8	558						
DVK 125	10	145	13,5	477	90/125	G 2"	2525	1440	2040	2240
	13	190	11	388						
	7,5	110	18,8	664						
DVK 150	10	145	16,5	583	110/150	G 2"	2525	1440	2040	2500
	13	190	14	495						
	7,5	110	22,8	805						
DVK 180	10	145	19,5	689	132/180	G 2 1/2"	2500	1805	2000	2873
	13	190	16	565						
	7,5	110	27,4	968						
DVK 220	10	145	23	812	160/220	G 2 1/2"	2500	1805	2000	3030
	13	190	19,5	689						

⁻ 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.

3,60-53 m³/min

22-315 kW

7,5-10-13 bar





General Features

- High-quality, easy-to-replace components with a long service life
- Continuous operation for minimum stops
- Next gen screw block and motor
- Electronic control
- Integrated dryer (132 kW and below)
- Water cooled and heat recovery (optional)
- Food grade oil option suitable for food production



- Advanced screw block and direct coupled motor ensure saving and high performance by minimizing power transmission losses.
- Service-friendly design reduces maintenance costs.
- Controllers allow ease of access and use.







- A durable and specially selected screw block that provides high capacity air according to the capacity needs of each model
- New rotor profiles for production with reduced loses and lower torque requirements
- Next gen bearing design for improved load bearing capabilities
- Direct coupling

	Pres	ssure	Сара	city*	Motor			Dimensions (mn	າ)	Weight
Model	bar	psi	m³/min	cfm	kW/HP	Connection	Width	Length	Height	kg
DV// 00 D	7,5	110	4	141	00/00	0.1"	1000	050	1/05	F00
DVK 30 D	10	145	3,6	127	22/30	G 1"	1280	850	1435	538
	7,5	110	5,5	194						
DVK 40 B D	10	145	4,5	159	30/40	G 1 1/4"	1635	1030	1755	747
	13	190	3,9	138						
	7,5	110	6,6	233						
DVK 50 D	10	145	5,6	198	37/50	G 1 1/4"	1635	1030	1755	869
	13	190	4,6	163						
	7,5	110	8,5	300						
DVK 60 B D	10	145	7,1	251	45/60	G 1 1/2"	2065	1200	1810	1203
	13	190	5,9	208						
	7,5	110	9,8	346						
DVK 75 D	10	145	8,7	307	55/75	G 1 1/2"	2065	1200	1810	1387
	13	190	7	247						
	7,5	110	12,6	445						
DVK 100 D	10	145	11	388	75/100	G 1 1/2"	2065	1200	1810	1424
	13	190	9,2	325						
	7,5	110	16,2	572						
DVK 125 D	10	145	13,7	484	90/125	G 2"	2525	1440	2040	2240
-	13	190	11,2	396						
	7,5	110	19,5	688						
DVK 150 D	10	145	17,9	632	110/150	G 2"	2525	1440	2040	2640
-	13	190	14	494						
	7,5	110	23,4	826						
DVK 180 D	10	145	20	706	132/180	G 2 1/2"	2775	1805	2000	2970
	13	190	16,5	583						
	7,5	110	28	989						
DVK 220 D	10	145	23,5	830	160/220	G 2 1/2"	2775	1805	2000	3080
	13	190	20	706						
	7,5	110	37	1307						
DVK 270 D	10	145	30,8	1088	200/270	DN80	3290	2285	2455	5300
-	13	190	24,5	865						
	7,5	110	45	1590						
DVK 340 D	10	145	38,6	1363	250/340	DN100	3315	2285	2455	5600
	13	190	32,6	1151						
	7,5	110	53	1872						
DVK 430 D	10	145	45,5	1607	315/430	DN100	3315	2285	2455	5920
	13	190	39,5	1395	1, ,,					

⁻ 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.

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)





- 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

	Pres	sure		Сара	city*		Motor			nsions x Height] (mm)	Wei (k	
Model	bar	psi	Minimum	Minimum	Maximum	Maximum	(kW/HP)	Connection	Base Mounted	Tank + Dryer	Base	Tank +
			m³/min	cfm	m³/min	cfm			Dase Mounted	Talik + Di yei	Mounted	Dryer
INVERSYS	7,5 10	110 145	0,38	13,4 13	1,03 0,83	36 29	5,5/7,5	G 1/2"	1058 x 650 x 963	1828 x 650 x 1438	235	366
5 PLUS	13	190	0,37	12,7	0,64	22,6	5,5/7,5	G 1/2	1036 X 630 X 763	1020 X 030 X 1430	233	300
	7,5	110	0,30	14,8	1,4	49,4						
INVERSYS	10	145	0,42	15,1	1,4	47,4	7,5/10	G 1/2"	1058 v 450 v 943	1828 x 650 x 1438	273	436
7 PLUS	13	190	0,43	15,1	0,95	33,5	7,3/10	0 1/2	1030 x 030 x 703	1020 x 030 x 1430	273	430
	7,5	110	0,77	27	1,8	64						533
INVERSYS	10	145	0,81	29	1,61	57	11/15	G 3/4"	1200 x 730 x 1050	1911 x 730 x 1708	320	533
11 PLUS	13	190	0,74	26	1,3	46		, -				590
	7,5	110	0,79	28	2,85	101						638
INVERSYS	10	145	0,77	27	2,33	82	15/20	G 3/4"	1200 x 730 x 1050	1911 x 730 x 1708	420	638
15 PLUS	13	190	0,99	35	2,07	73	-					658
	7,5	110	1,1	39	3,5	124						
INVERSYS 18 PLUS	10	145	1	35	3	106	18,5/25	G 1"	1280 x 860 x 1435	-	500	-
10 PLU3	13	190	1,1	39	2,6	92						
	7,5	110	1,3	46	4,2	148						
INVERSYS 22 PLUS	10	145	1,3	46	3,8	134	22/30	G 1"	1280 x 860 x 1435	-	516	-
221203	13	190	1,2	42	3	106						
INIVERSIVE	7,5	110	1,2	43	5,3	187			1/05 10/0			
INVERSYS 30 PLUS	10	145	1,2	43	4,6	162	30/40	G 1 1/4"	1605 x 1040 x 1755	-	819	-
	13	190	1,2	43	4	141			., 00			
INVERSYS	7,5	110	1,3	46	6,8	240			1605 x 1040 x			
37 PLUS	10	145	1,3	46	5,8	205	37/50	G 1 1/4"	1755	-	870	-
	13	190	1,3	46	5	177						
INVERSYS	7,5	110	1,3	46	7,6	268			1605 x 1040 x			
45 PLUS	10	145	1,2	42	6,8	240	45/60	G 1 1/4"	1755	-	945	-
	13	190	1,2	42	5,9	208						
INVERSYS	7,5	110	2,5	88	9,9	350		0.4.4/00	2065 x 1200 x		150/	
55 PLUS	10	145	2,4	85	8,2	290	55/75	G 1 1/2"	1810	-	1524	-
	13	190	2,6	92	7,4	261						
INVERSYS	7,5	110	2,6	92	12,9	456	75/100	0.1.1/0"	2065 x 1200 x		1//7	
75 PLUS	10	145 190	2,5	88 88	10,9	385 339	/5/100	G 1 1/2"	1810	-	1647	-
	7,5	110	2,5	219	9,6 16,8	593						
INVERSYS	10	145	6,2	217	14,4	509	90/125	G 2"	2525 x 1440 x	_	2020	_
90 PLUS	13	190	6,2	219	12,3	434	70/123	0.2	2037	_	2020	_
	7,5	110	6,6	233	20,1	710						
INVERSYS	10	145	7,1	250	17.3	611	110/150	G 2"	2525 x 1440 x	_	2380	_
110 PLUS	13	190	7	247	15	530		0 2	2037		2000	
	7,5	110	6,9	244	24,3	858						
INVERSYS	10	145	6,8	240	20,3	717	132/180	G 2 1/2"	2775 x 1820 x	_	2555	-
132 PLUS	13	190	9,7	343	18,1	639			2000			
	7,5	110	6,8	240	28,2	996						
INVERSYS 160 PLUS	10	145	7,1	251	24,6	869	160/220	G 2 1/2"	2775 x 1820 x 2000	_	2760	-
100 PLUS	13	190	8,5	300	21,7	766			2000			
	7,5	110	14	494	37,5	1324			0000 0005			
INVERSYS 200 PLUS	10	145	13,9	491	32,3	1141	200/270	DN80	3290 x 2285 x 2455	-	4460	-
100 100	13	190	13,8	487	28,8	1017			2400			
INIVERSES	7,5	110	13,6	480	45,2	1596			2215 2225			
INVERSYS 250 PLUS	10	145	13,5	477	38,5	1360	250/340	DN100	3315 x 2285 x 2455	-	5600	-
	13	190	13,5	477	33,5	1183						
INVERSYS	7,5	110	13,2	466	54,1	1911			3315 x 2285 x			
315 PLUS	10	145	13,2	466	44,3	1564	315/430	DN100	2455	-	6000	-
	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.

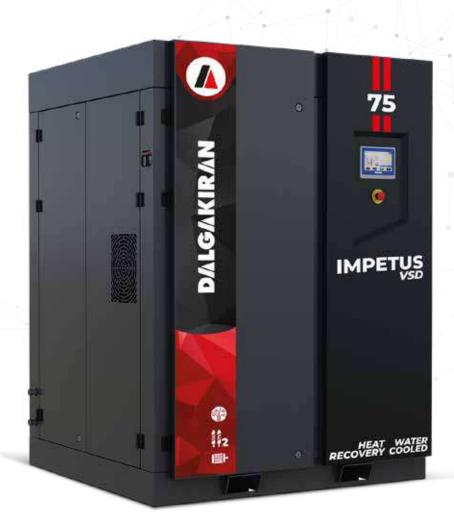
 $^{- \}quad \mathsf{Dalgak} \mathsf{Iran} \, \mathsf{reserves} \, \mathsf{its} \, \mathsf{rights} \, \mathsf{to} \, \mathsf{make} \, \mathsf{changes} \, \mathsf{in} \, \mathsf{its} \, \mathsf{products} \, \mathsf{and} \, \mathsf{specifications} \, \mathsf{without} \, \mathsf{prior} \, \mathsf{notice}.$

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

4,3-16 m³/min

> 22-75 kW

7,5-8,5-10 bar



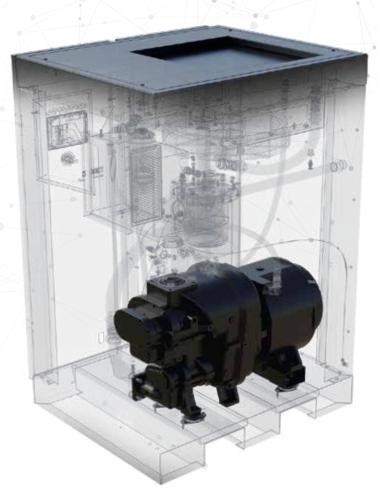




- IE5 efficiency-class IPM electric motors
- Two-stage screw block
- Water cooling (37 kW and above)
- Soft start with variable speed power transmission
- Operating with low noise level
- Integrated dryer (optional)
- Heat recovery (optional)



- The drive and IMP meet the requirements of IES2 (EN50598)
- Functionality in a single unit
- Uses fewer components
- Long service life helps to minimize environmental impact.





- Ultra Premium IE5 energy efficiency-class electric motors
- Internal Permanent Magnet Motor (IPM)
- Compact design
- F-class insulation
- Optimum oil cooling at all speeds for high efficiency
- Low noise levels
- Grease-free lubricated motor bearings



- High cooling efficiency in compact air and oil heat exchangers
- Suitable design for operating up to 45°C
- Radial fan for high cooling efficiency (37 kW and above)
- Low noise level with low speed radial fans
- Cooling fan driver for maximum energy efficiency



- Two-stage screw block produces energy efficiency by up to 10%
- Higher flow rate by up to 10%.
- Thanks to low compression rate low axial and compression forces
- Zero transmission losses by compact direct power transmission
- No requirement for a power transmission element results in a compact design
- Low axial and compression forces due to low compression ratio between screw blocks
- Thanks to low rotor speeds, a long service life
- Thanks to two-stage compression, low noise and vibration levels

Intake Chamber

- High acoustic performance in noise dampening
- Insulated cold air intake for energy efficiency









Air Filter

- Two-stage filtration (Initial filtration/precision filtration)
- 99.9% efficiency in particle separation down to microns
- Low pressure loss (starting pressure fall<3mbar)
- Easy maintenance
- Long service life



Oil Filter

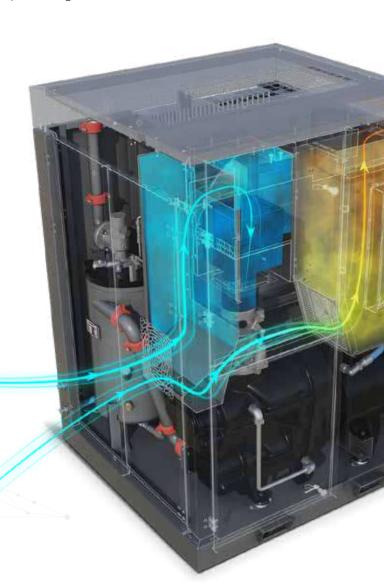
- Non-metallic, environmentally friendly and recyclable oil filter
- Aluminium housing
- Easy maintenance
- Compact design



- Effective separator elements keep the amount of oil in the outlet air low (1-3 mg/m³) for high-quality compressed air
- Sep-n-sep type separator with enlarged surface area
- Easy to service
- High efficiency three stage air-oil separation system



- Compact, integrated and unique design
- Separation performance is %99 even in very hot and humid conditions
- High energy efficiency with minimal pressure loss



	Dur			Capa	acity*		Motor		Dim			Wainbi	Maias
Model	Pres	sure	Mini	mum	Maxi	mum	Power	Connection Size	DIM	ensions (mmı	Weight	Noise
	bar	psi	m³/min	cfm	m3/min	cfm	kW/hp		Length	Width	Height	kg	dB (A)
	7,5	110	1,02	36	4,32	153			955	1095	1580		
IMPETUS VSD 22	8,5	125	1,04	37	4,15	147	22/30	G 1 1/4"	955	1095	1580	750	72
	10	145	1,03	36	3,75	132			955	1095	1580		
	7,5	110	1,63	58	6,30	222			955	1095	1580		
IMPETUS VSD 30	8,5	125	1,60	57	5,86	207	30/40	G 1 1/4"	955	1095	1580	875	72
	10	145	1,57	55	5,36	189			955	1095	1580		
	7,5	110	1,77	63	7,69	272			1195	1250	1860		
IMPETUS VSD 37	8,5	125	1,77	63	7,20	254	37/50	G 1 1/2"	1195	1250	1860	1220	71
	10	145	1,76	62	6,46	228			1195	1250	1860		
	7,5	110	2,30	81	9,17	324			1195	1250	1860	1400	
IMPETUS VSD 45	8,5	125	2,28	80	8,60	304	45/60	G 1 1/2"	1195	1250	1860		72
	10	145	2,27	80	7,90	279			1195	1250	1860		
	7,5	110	2,60	92	11,51	406			1400	1450	1965		
IMPETUS VSD 55	8,5	125	2,54	90	10,76	380	55/75	G 2"	1400	1450	1965	1620	72
	10	145	2,53	89	9,46	334			1400	1450	1965		
	7,5	110	3,51	124	16,01	565			1400	1450	1965		
IMPETUS VSD 75	8,5	125	3,63	128	15,28	540	75/100	G 2"	1400	1450	1965	1850	72
	10	145	3,57	126	13,22	467			1400	1450	1965		

⁻ 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.



90-315 kW

7,5-8,5 10-13 bar





General Features

- IE4 efficiency-class electric motors
- Two-stage screw block
- Variable and fixed speed motor power options
- Water cooling and heat recovery (optional)
- Operating with low noise level





- Two-stage screw block produces energy efficiency by up to 10%
- Higher flow rate by up to 10% comparing to single stage
- Direct coupled
- Reduced internal losses
- Thanks to low compression rate, low axial and compression forces
- Thanks to low rotor speeds, a long service life
- With two-stage compression near isothermal compression
- Reduced axial and compression forces resulting in longer screw and bearing service life



- IE4 efficiency-class electric motors
- B-class temperature increase
- Continuous operating feature





- Intake in cold air directly from the environment contributes to energy efficiency by up to 2%
- High energy efficiency with minimized intake pressure losses
- Improved acoustic designs result in low noise levels



- High cooling efficiency in compact air and oil heat exchangers
- Suitable design for operating up to 45°C
- Low noise level with low speed radial fans
- Energy efficiency with optimum oil temperature thanks to VSD-controlled radial fans



	_				\						
Model		sure		acity*	Motor	Connection Size		ensions (<u> </u>	Weight	Noise
	bar	psi	m³/min	cfm	kW/HP	0.20	Length	Width	Height	kg	dB (A)
	7,5	110	18,42	650,5							
IMPETUS 90	8,5	125	14,65	517,4	90/125	DN65	2775	1805	1926	3660	75
	10	145	14,75	520,9							
	13	190	13,51	477,1							
	7,5	110	23,45	828,1							
IMPETUS	8,5	125	21,65	764,6	110/150	DN65	2775	1805	1926	4000	75
110	10	145	18,4	649,8							
	13	190	14,5	512,1							
	7,5	110	25,97	917,1							
IMPETUS	8,5	125	25,95	916,4	132/180	DNIOO	2050	1950	2000	/E00	75
132	10	145	23,5	829,9	132/180	DN80	2950	1950	2000	4500	/5
	13	190	21,6	762,8							
	7,5	110	31,1	1098,3							
IMPETUS	8,5	125	31,07	1097,2		DN80	0050	1950	2000		_,
160	10	145	25,35	895,2	160/220		2950			5000	76
	13	190	25,3	893,5							
	7,5	110	43,15	1523,8							
IMPETUS	8,5	125	40,52	1431							
200	10	145	34,7	1225,4	200/270	DN 100	3500	2250	2350	6220	78
	13	190	30,5	1077,1							
	7,5	110	53,27	1881,2							
IMPETUS	8,5	125	50,24	1774,2							
250	10	145	42,94	1516,4	250/340	DN 100	3500	2250	2350	9120	79
	13	190	40,37	1425,7							
	7,5	110	62,27	2199							
IMPETUS	8,5	125	54,93	1939,8							
315	10	145	54,91	1939,1	315/430	DN 100	3500	2250	2350	9400	80
	13	190	43,91	1550,7							

Unit performances measured in reference conditions which are 1 bar absolute air Pressure, %0 relative humidity, 20°C inlet air temperature, and the sum of the sum

^{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.

	Droc			Сар	acity*		Mater Dawer		Dim	ensions (1	Weight	Noise
Model	Fres	ssure	Minir	num	Maxi	mum	Motor Power	Connection Size	ווווע	ensions (, , , , , , , , , , , , , , , , , , ,	Weight	Noise
	bar	psi	m³/min	cfm	m³/min	cfm	kW/HP		Length	Width	Height	kg	dB (A)
	7,5	110	5,27	186	18,08	638							
IMPETUS	8,5	125	5,3	187	17,14	605	90/125	DN65	2775	1805	1926	3835	75
VSD 90	10	145	5,18	183	15,68	554	70/123	DIVOS	2773	1003	1720	3000	75
	13	190	5,1	180	13,52	477							
	7,5	110	6,98	247	22,81	806							
IMPETUS	8,5	125	6,83	241	21,46	758	110/150	DN65	2775	1805	1926	4200	75
VSD 110	10	145	6,81	240	20	706	110/130	DINOS	2773	1003	1720	4200	73
	13	190	6,8	240	17,2	608							
	7,5	110	7,85	277	27,57	974							
IMPETUS	8,5	125	7,83	276	26,17	924	132/180	DN80	2950	1950	2000	4675	75
VSD 132	10	145	7,53	266	24,31	859	132/160	DINOU	2750	1750	2000	46/3	75
	13	190	7,47	264	21,26	751							
	7,5	110	8,47	299	32,44	1146							
IMPETUS	8,5	125	8,42	297	30,64	1082	160/220	DN80	2050	50 1950	2000	5300	76
VSD 160	10	145	8,4	296	28,03	990	160/220		2950	2700 1700	1750	1950 2000	5300
	13	190	8,1	286	22,14	782							
	7,5	110	11,79	416	42,86	1514							
IMPETUS	8,5	125	11,77	416	39,94	1410	200/270	DN 100	3500	2250	2350	6550	78
VSD 200	10	145	11,62	410	37,01	1307	200/270	DIN 100	3300	2250	2330	6330	70
	13	190	11,4	402	30,54	1079							
	7,5	110	17,14	605	51,82	1830							
IMPETUS	8,5	125	17,06	602	48,93	1728	250/340	DN 100	2500	2250	2350	9400	79
VSD 250	10	145	16,7	590	45,68	1613	230/340	DN 100	3500	2250	233U	7400	19
	13	190	16,37	578	36,7	1296							
	7,5	110	16,8	593	61,78	2182							
IMPETUS	8,5	125	16,77	592	59,01	2084	315/430	DN 100	2500	2250	2250	0/00	00
VSD 315	10	145	16,73	591	54,97	1941		DN 100	3500	2250	2350	9680	80
	13	190	30,18	1066	45,73	1615							

 $^{- \}quad \text{Unit performances measured in reference conditions which are 1 bar absolute a \it{ir}\ Pressure, \% 0 relative humidity, 20°C in let air temperature, and the results of the results$ 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







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



- 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.











	Medal	Pres	sure	Сара	acity	Motor	0		Dimensions (mm) dth x Length x Hei			Weight (kg)	
	Model	bar	psi	m³/min	cfm	kW/HP	Connection	Base Mounted	Tank Mounted	Tank + Dryer	Base Mounted	Tank Mounted	Tank + Dryer
	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	1773v823v1381	1818x823x1381	200	334	377
	D32.2-3	10	145	0,2	7,06	2,2 / 0	0 1/2	73027312700	1773X023X1301	1010202021301	200	334	377
SINGLE	DS3.7-S	8	115	0,4	14,13	3,7 / 5,5	G 1/2"	750x731x900	1772,022,1201	1818x823x1381	220	354	397
SIN	D33.7-3	10	145	0,34	12,01	3,773,5	6 1/2	75087518700	1773x623x1361	1010X0Z3X1301	220	334	377
	DS5.5-S	8	115	0,6	21,19	E	G 1/2"	750x731x900	1770,000,1001	1818x823x1381	230	364	407
	טבט.ט-5	10	145	0,47	16,6	5,5 / 7,5	6 1/2	750X731X900	1773X8Z3X1381	1616X6Z3X1361	230	304	407
	DC7 F C	8	115	0,85	30,01	75/10	0.1/2"	750,721,000	1770,000,1001	1010,022,1720	225	2/0	/21
	DS7.5-S	10	145	0,68	24,01	7,5 / 10	G 1/2"	750x731x900	1773X8Z3X1381	1818x823x1428	235	369	431
	DC7 F D	8	115	0,8	28,25	0(0.77/5.5)	0.2//"	15000011050	107200/1725		/05	590	
	DS7,5-D	10	145	0,68	24,01	2x(3,7 / 5,5)	G 3/4"	1500082181050	1972x926x1725	-	405	590	-
BLE	DC44 D	8	115	1,2	42,38	0 (5 7 / 7 5)	0.0//"	1500 001 1050	1070 00/ 1705		/05	/40	
DOUBLE	DS11-D	10	145	0,94	33,2	2x(5,7 / 7,5)	G 3/4"	1500x821x1050	1972x926x1725	-	425	610	-
	DC4F D	8	115	1,7	60,03	2(7 E / 10)	0.2//"	15000011050	1972x926x1725		//0	625	
	DS15-D	10	145	1,36	48,02	2x(7,5 / 10)	G 3/4"	1500082181050	19/2X926X1/25	-	440		-
	DC44 T	8	115	1,2	42,38	0(0.77/5.5)	0.1"	15000001070			5.0		
	DS11-T	10	145	1,02	36,02	3x(3,7 / 5,5)	G 1"	1500x823x1840	-	-	540	_	-
TRIPLE	DC1/ F T	8	115	1,8	63,57	2.(5.7./7.5)	G 1"	1500,022,4070			615		
TRII	DS16,5-T	10	145	1,41	49,79	3x(5,7 / 7,5)	GI	1500x823x1840	-	-	613	_	-
	DC22 F T	8	115	2,55	90,05	3x(7,5 / 10)	G 1"	1500,022,4070			/25		
	DS22.5-T	10	145	2,04	72,04	3x(7,5 / 10)	GI	1500x823x1840	-	-	625	_	-
	DS15-Q	8	115	1,6	56,5	/v(2.7./E.E.)	C 1"	1500,022,4070			//5		
щ	D515-Q	10	145	1,36	48,03	4x(3,7 / 5,5)	G 1"	1500x823x1840	-	-	645	_	-
QUADRUPLE	DC22 A	8	115	2,4	84,75	/v(E 7 / 7 C)	C 1"	1500,022,4070			7/5		
JADE	DS22-Q	10	145	1,88	66,39	4x(5,7 / 7,5) G 1"		1500x823x1840	-	-	745	-	_
O	DC28_0	8	115	3,4	120,07			1500,000, 10/0			755		
	DS30-Q	10	145	2,72	96,06			1500x823x1840	-	-	755	-	-

⁻ 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.

 $^{- \}quad \mathsf{Dalgakıran} \ \mathsf{reserves} \ \mathsf{its} \ \mathsf{rights} \ \mathsf{to} \ \mathsf{make} \ \mathsf{changes} \ \mathsf{in} \ \mathsf{its} \ \mathsf{products} \ \mathsf{and} \ \mathsf{specifications} \ \mathsf{without} \ \mathsf{prior} \ \mathsf{notice}.$

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



- Eco-friendly technology.
- It can be used safely insensitive 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.









- 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



- 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



- 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



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.

	Pres	ssure		Сара	acity *		Motor			mensions (m	
Model	bar	psi	Min. m³/min	Min. cfm	Max. m³/min	Max. cfm	kW/HP	Connection	Width	Length	Height
	7	100	3,8	134	9,1	321					
EAGLE 55 VSD	8,5	125	3,7	131	8,3	293	55/75	G 2"	2588/2593	1640	2160
33 430	10	145	3,7	131	7,5	265					
	7	100	6,2	219	12,8	452					
EAGLE 75 VSD	8,5	125	6,2	219	11,9	420	75/100	G 2"	2588/2593	1640	2160
70 135	10	145	6,2	219	11	389					
	7	100	6,2	219	14,6	516					
EAGLE 90 VSD	8,5	125	6,2	219	14,2	501	90/125	G 2"	2588/2593	1640	2160
70 135	10	145	6,2	219	13,2	466					
	7	100	9,1	321	18,8	664					
EAGLE 110 VSD	8,5	125	10,3	364	18,5	653	110/150	DN80	3197	1840	2450/2200
110100	10	145	10,3	364	17,4	614	1				
	7	100	10,4	367	22,2	784					
EAGLE 132 VSD	8,5	125	10,4	367	21	742	132/180	DN80	3197	1840	2450/2200
	10	145	10,3	364	19,6	692					
	7	100	10,7	378	26,9	950					
EAGLE 160 VSD	8,5	125	10,6	374	25,5	901	160/220	DN80	3197	1840	2450/2200
	10	145	10,6	374	23,5	830					
	7	100	14	494	29,6	1045					
EAGLE 185 VSD	8,5	125	14	494	29,5	1042	185/250	DN80	3197	1840	2450/2200
	10	145	13,9	491	27,7	978					
	7	100	17,4	614	36,2	1278					
EAGLE 200 VSD	8,5	125	17,3	611	33,3	1176	200/270	DN100	3797/3540	2140	2715/2450
	10	145	17,2	607	30,4	1074					
	7	100	18,9	667	44,6	1575					
EAGLE 250 VSD	8,5	125	18,8	664	41,3	1458	250/340	DN100	3797/3540	2140	2715/2450
	10	145	18,7	660	38,2	1349					
	7	100	22,9	809	48,8	1723					
EAGLE 315 VSD	8,5	125	22,9	809	46,6	1646	315/430	DN100	3797/3540	2140	2715/2450
	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.

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RECIPROCATING AIR COMPRESSORS



DKC	36
D	38
DBK BOOSTER	40
DBK GP	42
PET MASTER	44
DKK	46
\//^\/E	48







1,1-7,5 kW

8-12-15 bar





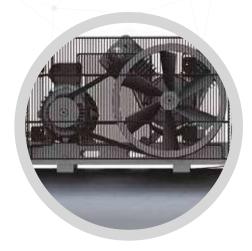
- Suitable for operation even in the most challenging ambient conditions
- Easy to use and low noise levels
- Reliable and efficient compressed air production



- Reliable operation
- High-quality components for long service life.









- IE3 efficiency-class electric motor
- Safe operation with pressure switch, check valve and safety valve
- Belt-pulley guard
- Manometer
- Ready-to-run electrical mechanism



- Cast iron cylinder body
- Cast iron cylinder heads with cooling channels
- Special aluminium alloy pistons and connecting rod
- Cast iron pulley for fan-type efficient cooling
- Air intake filter
- Splash lubrication
- Oil level gauge
- Factory-filled oil
- Star/delta connectors (5.5 kW and above)
- External control panel (optional)

	Working	Pressure	Piston Dis	placement	Motor		D	imensions (m	m)	Weight	Air Receiver
Model	bar	psi	l/min	cfm	kW/HP	Connection	Width	Length	Height	kg	ι
					SINGLE	STAGE					
DKT 100	8	115	205	7.2	1,1/1,5	1/2"	1202	426	894	93	80
DKC 150	8	115	327	11.5	1,5/2,0	1/2"	1202	426	914	106	80
DKC 200	8	115	410	14.5	2,2/3,0	1/2"	1531	450	1037	135	200
DKC 300	8	115	607	21.4	4,0/5,5	1/2"	1830	466	1145	209	250
DKC 500	8	115	1013	35.8	5,5/7,5	3/4"	1934	642	1308	308	500
DKS 600	8	115	1657	58.5	7,5/10	3/4"	1926	668	1413	390	500
					DOUBLE	STAGE					
DKKC 200	12	175	205	7.2	1,5/2,0	1/2"	1532	450	983	145	200
DKKD 15	15	215	507	17.9	4/5,5	3/4"	1832	474	1097	230	250
DKKD 12	12	175	856	30.2	7,5/10	3/4"	1920	658	1298	374	500
DKKD 15A	15	215	828	29.2	7,5/10	3/4"	1925	669	1406	439	500

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

145-1766 l/min

> 1,5-11 kW

7-12,5 bar





- Reliable design
- Safe to use
- High-quality components and safety systems
- Energy efficient



- Offers ideal solutions for small business enterprises.
- Service-friendly design reduces maintenance costs.
- Produces reliable and efficient pressure.
- Uses quality components for a long service life.
- Low noise levels.





- Cast iron cylinder body
- Aluminium injection-moulded cylinder head
- Special aluminium alloy pistons and connecting rod
- Cast iron pulley for fan-type efficient cooling
- Splash lubrication
- Oil level gauge
- Factory-filled oil
- External star/delta control panel (optional for 7,5 & 11kW)

Model	Working Pressure	Piston Displacement	Motor Power	Air	Dir	nensions (m	nm)	Weight	Air Receiver	
	bar	l/min	kW/HP	Connection	Length	Width	Height	kg	ι	
				SINGLE STAGE						
D 2-100 D	7	178	1,5/2	2 x G ¹ / ₄ ''	450	1100	820	81	100	
D 3-200 D	7	290	2,2/3	2 x G¼"	450	1445	965	127	200	
D 4-300	7	501	3/4	1 x G¼" + 1 x G¾"	450	1745	1000	147	250	
D 5,5-300	7	649	4/5,5	2 x G¼" + 1 x G¾"	450	1745	1030	180	250	
D 5,5-500	7	649	4/5,5	2 x G¼" + 1 x G¾"	640	1915	1260	264	500	
D 7,5-500	7	971	5,5/7,5	2 x G ¹ / ₄ " + 1 x G ³ / ₄ "	640	1915	1350	283	500	
D 10-500	7	1222	7,5/10	2 x G ¹ / ₄ '' + 1 x G ³ / ₄ "	640	1915	1370	297	500	
D 15-500	7	1766	11/15	2 x G ¹ / ₄ " + 1 x G ³ / ₄ "	700	1840	1520	465	500	
				DOUBLE STAGE						
D 2-100 MT	12,5	145	1,5/2	2 x G1/4''	450	1040	820	86	100	
D 3-200 MT	12,5	145	2,2/3	2 x G¼"	450	1445	965	132	200	
D 4-300 T	12,5	334	3/4	1 x G¼" + 1 x G¾"	450	1755	1000	167	250	
D 5,5-300 T	12,5	324	4/5,5	2 x G¼" + 1 x G¾"	450	1755	1030	198	250	
D 5,5-500 T	12,5	324	4/5,5	2 x G¼" + 1 x G¾"	640	1910	1255	330	500	
D 7,5-500 T	12,5	647	5,5/7,5	2 x G¼" + 1 x G¾"	640	1910	1275	350	500	
D 10-500 T	12,5	726	7,5/10	2 x G¼" + 1 x G¾"	700	1910	1355	365	500	

 $^{- \}quad \mathsf{Dalgak} \mathsf{Iran} \, \mathsf{reserves} \, \mathsf{its} \, \mathsf{rights} \, \mathsf{to} \, \mathsf{make} \, \mathsf{changes} \, \mathsf{in} \, \mathsf{its} \, \mathsf{products} \, \mathsf{and} \, \mathsf{specifications} \, \mathsf{without} \, \mathsf{prior} \, \mathsf{notice}.$

2,1-11,68 m³/min

> 7,5-30 kW

15-40 bar



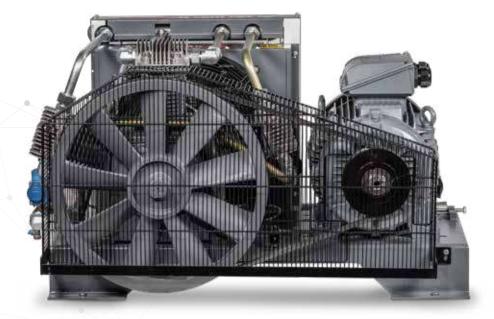


General Features

- Electric motor protection to prevent overload
- Air-cooled compressor units
- Energy-saving Load/Unload System for efficient operation
- Low speed operation
- · Lubrication system with splashing
- Dedicated discharge system to prevent oil discharge from blow-off valve
- Automatic discharge system for loadless start
- Star/delta motor starter
- Soft starter (optional)



- Durable sliding bearings prolong maintenance periods and keep maintenance costs low.
- High performance with the high engineering technology and design.
- Oil-trap air filtration system provides cleaner air.
- Energy-saving advanced cooling systems.







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



- Inlet air regulator
- High-pressure switch
- Manual condensate drainage valve
- Integrated check valve at air outlet line
- Outlet pressure manometer
- High pressure safety valve
- Oil pressure control
- Integrated particulate filter at inlet air line
- By-pass line for protection against high oil pressure



- Cast iron cylinder with cooling fins and special aluminium alloy top heads
- Special aluminium alloy pistons and cast connecting rods
- High-strength cast iron sump
- Dynamically balanced cast steel crankshaft and counterweight

	W	orking/	Pressu	re			Inlet C	apacity			Motor		Dime	ensions (mm)	Weight
Model								bar 13 b in - cfm m³/min			kW/HP	Connection	Length	Width	Height	kg
DBK 10	15	218	40	580	2,1	74	2,89	102	3,67	130	7,5/10	1"	1350	796	759	268
DBK 15	15	218	40	580	2,45	87	3,37	119	4,29	152	11/15	1"	1350	796	759	285
DBK 20	15	218	40	580	3,71	131	5,1	180	6,49	229	15/20	1"	1350	796	759	300
DBK 25	15	218	40	580	4,9	173	6,73	238	8,57	303	18,5/25	1 1/4"	1460	1067	759	345
DBK 30	15	218	40	580	5,56	196	7,65	270	9,74	344	22/30	1 1/4"	1460	1067	759	390
DBK 40	15	218	40	580	6,68	236	9,18	324	11,68	413	30/40	1 1/4"	1460	1067	759	426

⁻ 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.

⁻ Dalgakıran reserves its rights to make changes in its products and specifications without prior notice.

2,1-11,68 m³/min

> 7,5-30 kW

15-40 bar





General Features

- Electric motor protection to prevent overload
- Dedicated discharge system to prevent oil discharge from blow-off valve
- Energy-saving Load/Unload System
- Control panel for user-friendly operation
- Automatic discharge system for loadless start
- Air-cooled compressor units
- Gear-driven oil pump
- Star/delta motor starter
- Long life thanks to low speed operation
- Optional soft starter



- Integrated oil pump driven by the main motor lubricates the pistons, bearings and pins efficiently.
- Improved vibration level helps to keep maintenance costs down.
- Durable sliding bearings prolong maintenance periods and keep maintenance costs low.
- High performance with the outstanding technology and design.
- Oil-trap air filtration system provides cleaner air.
- Energy-saving advanced cooling and lubrication systems.









- 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



- 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



- 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

	W	orking	Pressu	ıre			Inlet C	apacity	,		Motor		Din	nensions (n	nm)	Weight
Model	Minimum bar - psi		Maximum bar - psi		7 bar m³/min - cfm			10 bar m³/min - cfm m		bar n - cfm	kW/HP	Connection	Length	Width	Height	kg
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.
- $\quad \mathsf{Dalgakıran} \ \mathsf{reserves} \ \mathsf{its} \ \mathsf{rights} \ \mathsf{to} \ \mathsf{make} \ \mathsf{changes} \ \mathsf{in} \ \mathsf{its} \ \mathsf{products} \ \mathsf{and} \ \mathsf{specifications} \ \mathsf{without} \ \mathsf{prior} \ \mathsf{notice}.$



37-220 kW

16-40





- Reciprocating compressor providing 100% oil-free industrial air
- Electric motor protection to prevent overload
- Water-cooled design for high energy efficiency and ability to work in severe conditions
- Energy-saving Load/Unload System for efficient operation
- Integrated electrical system for user-friendly operation
- 16-40 bar operating range



Advantages

- Compact structure, easy to install and assemble.
- Provides maximum oil-free air capacity in minimum space.
- Wear due to friction is minimized. This positively affects maintenance times and costs.
- Stainless steel water separator increases corrosion resistance.
- Soft start prolongs component life.









- IE3 efficiency-class electric motors
- Special loadless start system and automatic discharge system for loadless start
- Long life with low RPM thanks to 6 pole feature



- Water jacketed cast iron cylinders and heads
- Specially designed high-speed stainless steel concentric valves
- High-strength cast iron crankcase
- Dynamically balanced high-strength forged steel crankshaft
- Special aluminium alloy pistons and forged steel connecting rods

Model	Working	Pressure	Сар	acity	Motor		Dii	mensions (m	ım)	Weight
Model	bar	psi	m³/min	cfm	kW/HP	Connection	Width	Length	Height	kg
PET Master 50	40	580	3,6	127	37/50	G 1 1/4"	3647	1669	2395	5500
PET Master 75	40	580	5,5	194	55/75	G 1 1/4"	3647	1669	2395	5500
PET Master 100	40	580	7,4	261	75/100	G 1 1/4"	3673	1744	2470	6500
PET Master 125	40	580	9,1	321	90/125	G 1 1/4"	3673	1744	2470	6500
PET Master 150	40	580	11,6	410	110/150	G 2"	4192	1977	2814	7500
PET Master 180	40	580	13,5	477	132/180	G 2"	4192	1977	2814	7500
PET Master 220	40	580	16,4	579	160/220	G 2"	4192	1977	2814	7800
PET Master 270	40	580	21,3	752	200/270	G 2"	4234	2203	2841	9200
PET Master 300	40	580	23	812	220/300	G 2"	4234	2203	2841	9200

Model	Working Pressure		Capacity				Motor	Connection	Din	nm)	Weight	
110001	bar	psi	Minimum m³/min	Minimum cfm	Maximum m³/min	Maximum cfm	kW/HP		Width	Length	Height	kg
PET Master 75 VSD	40	580	4,1	145	5,5	194	55/75	G 1 1/4"	3647	1670	2395	5600
PET Master 125 VSD	40	580	6,8	240	9,1	321	90/125	G 1 1/4"	3383	2411	2407	6650
PET Master 180 VSD	40	580	10,1	357	13,5	477	132/180	G 2"	4192	1977	2814	7750
PET Master 220 VSD	40	580	12,3	434	16,4	579	160/220	G 2"	4192	1977	2814	8000
PET Master 300 VSD	40	580	17,3	611	23	812	220/300	G 2"	4234	2203	2841	9500

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



5,5-15 kW

> 40 bar





- Automatic discharge system for loadless start
- After cooler
- Air intake filter and silencer
- Includes safety systems suitable to pressure class

☆ Advantages

- Ideal for applications requiring high pressure, particularly the maritime sector.
- High-quality components for high-efficiency operation.
- Robust cast body.
- Long-life bearings for reduced maintenance and service periods.
- Ensures compressed air needs up to 40 bar.
- Service-friendly design minimizes downtime and lowers maintenance costs.







- IE3 efficiency-class electric motor
- Belt-pulley drive system
- Adjustable belt tension reduces losses
- Specially designed fan-type cast iron pulley
- Easy-to-use belt-tensioning system
- Optional star/delta starter





- Cast iron cylinder and cylinder heads with cooling fins
- Specially designed high-speed stainless steel concentric valves
- High-strength cast iron oil sumps
- Dynamically balanced cast steel crankshaft and counterweight
- Special aluminium alloy pistons and cast steel connecting rods
- Specially designed finger type, high-capacity stainless steel suction-discharge valves
- Stainless steel, high-pressure resistant specially designed suction-discharge valves





- Integrated check valve in air outlet line
- Belt pulley housing guard
- High-pressure switch
- First and second stage relief valves
- Outlet pressure manometer
- First stage pressure manometer

	Working	Working Pressure		Piston Displacement			Di	Weight		
Model	bar	psi	l/min.	cfm	kW/HP	Connection	Length	Width	Height	kg
DKK 40	40	580	507	17,9	5,5 / 7,5	3/4"	933	576	662	153
DKKB 40	40	580	1060	37,4	11 / 15	1"	1312	1213	718	363
DKKB 40A	40	580	1657	58,5	15 / 20	1"	1295	897	832	422

- 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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1077-3526 l/min

> 11-37 kW

12-40 bar





General Features

- PLC-based control and system monitoring with digital display panel
- High efficiency motor
- Oil trap air filtration system (Optional)
- Direct coupled



☆ Advantages

- Lightweight and robust composite cabinet provides high-performance cooling, protects the cylinder heads from impacts and prevents the operator from coming into contact with moving and hot components.
- Ease of installation and strong components for longer uptimes and user-friendly operation.
- Safe, low-maintenance operation thanks to integrated flexible coupling



Compressor Block

- Cast iron cylinder with cooling fins and special aluminium alloy cylinder heads
- High-strength cast iron crankcase
- Dynamically balanced steel crankshaft and counterweight
- Special aluminium alloy pistons and cast steel connecting rods
- Specially designed concentric-type, highcapacity stainless steel suction-discharge valves











- IE3 efficiency-class electric motor
- Direct coupled with elastic coupling
- Star/delta motor starter
- Special loadless start system and automatic discharge system for loadless start
- Soft starter (optional)



- Mains voltage and frequency monitoring, protection at certain limits
- Multiple compressor control for up to 8 compressors without the need for an external master compressors
- Internal ModBus communication
- Alarm log records the last 9 alarms



- 4-stage radiator (3 stages for air, 1 stage for oil cooling)
- Cylinder and cylinder heads with cooling fins
- Cooling fan connected directly to the main motor

Model	٧	Vorking	Pressur	e e	Piston Disp	lacement	Voltage / Frequency	Motor	- Connection	Dir	mensions (m	ım)	Weight
Modet		mum - psi		mum - psi	l/min. cfm		V/Hz	kW/HP	Connection	Width	Length	Height	kg
W 64	12	174	40	580	1077,3	38	400/50	11/15	- 1"	1300	1100	1030	411
W 04	12	174	40	580	1447,8	51,13	460/60	15/20	'	1300	1100	1030	421
W 400	40	457		F00	1806,7	63,8	400/50	15/20	- 1"	1300	1100	1030	421
W 108	108 12 174 40	40	40 580	2210,2	78	460/60	22/30		1580	1175	1100	630	
WALL	10	17/	/0	F00	2767,4	97,6	400/50	30/40	1"	1580	1175	1100	630
W 166	12	174	40	580	2797,2	98,8	460/60	30/40	1"	1640	1175	1100	680
W 210	12	174	40	580	3526,4	124,5	400/50	37/50	1"	1640	1175	1100	680

- 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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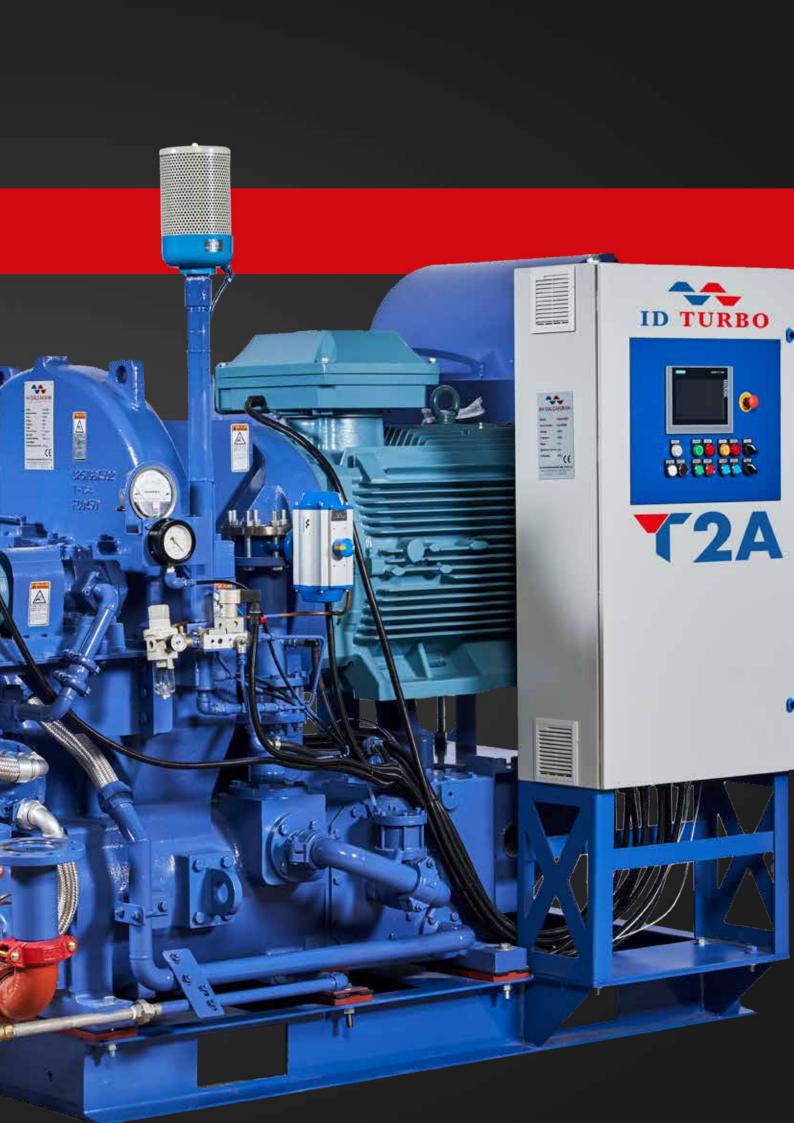
TURBO AIR COMPRESSORS

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Turbo Compressors

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For the stringent energy-saving requirements, we face today, IHI Dalgakıran provides high-level energy savings with turbo compressors using advanced rotary machine technology that provides first-class energy efficiency.



In the manufacturing facilities, compressed air needs are constantly changing. IHI Dalgakıran Turbo Compressors are specially designed based on our customer needs, factory location and climatic conditions to provide the best solution for production operations.





The gear case and air coolers are cast together in a single, construction.

The robust and compact compressor unit and air paths are surrounded by a thick, seamless wall that is also highly effective in reducing noise level and inernal pressure losses.





Designed with the power ofa deep-rooted engineering experience, impellers provides the upper segment efficiency and wide operating range for users with the support of CFD technology. They are resistant to structural constraints such as corrosion and particulate abrasion, thanks to Titanium structures.



The kinetic energy generated by the impeller in the rotational motion enhances the system pressure by converting it into potential energy as the flow passes through the diffuser. The air flow passing through the diffuser and impeller is simulated in a coupled manner in the CFD environment to obtain a low turbulence flow profilewith minimum lossand quiet.



The compressor's inlet has vanes whose angles can be change in order to reduce the impeller air intake. This is more effective than using a butterfly valve to add pressure loss in order to reduce airflow, and if the same airflow is discharged, the dynamic power can be kept low.



In order for the high speed pinion shafts to be able to bed efficiently, they provide an even distribution of radial loads. They do not need maintenance and replacement under normal operating conditions.



Labyrinth seals are preferred to ensure sealing between the pressure chamber and the gearbox. The labyrinth seals provide sealing without touching the shaft. Hence it removes the friction losses due to sealing and does not need maintenance.





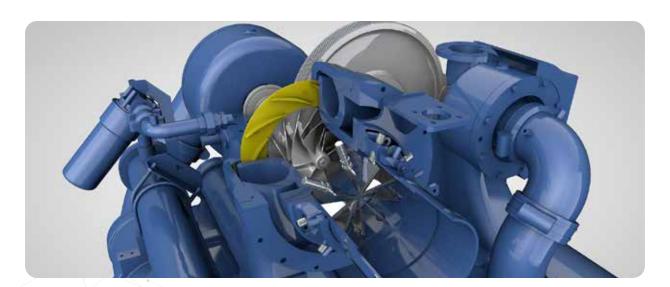
The suction filter uses a combined type element, making it very easy to maintain. IHI Dalgakıran original design, high performance, combined filter element has pre and main filter in one element.



Various options such as motor starter panel and group control panel can also be provided by IHI Dalgakıran upon request.



OPERATING PRINCIPLE OF THE TURBO COMPRESSOR



Turbo compressors are the type of compressors that provide kinetic energy to the air or gases by the centrifugal force generated by the impellers and convert this kinetic energy into pressure energy in the diffuser by reducing the air flow path. Pressurized air is cooled before entering the next stage with high performance coolers. This results in higher productivity.



IHI Dalgakıran turbo compressors have a simple and robust design, in order to reduce maintenance costs. IHI Dalgakıran 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.



IHI Dalgakıran 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.





IHI Dalgakıran 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	Pressure	Pressure	Flow Rate	Di	mensions (mı	m)	Weight
Modet	(kW)	Range bar	Range psi	(m³/h)	Length	Width	Height	(kg)
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
ТЗА	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

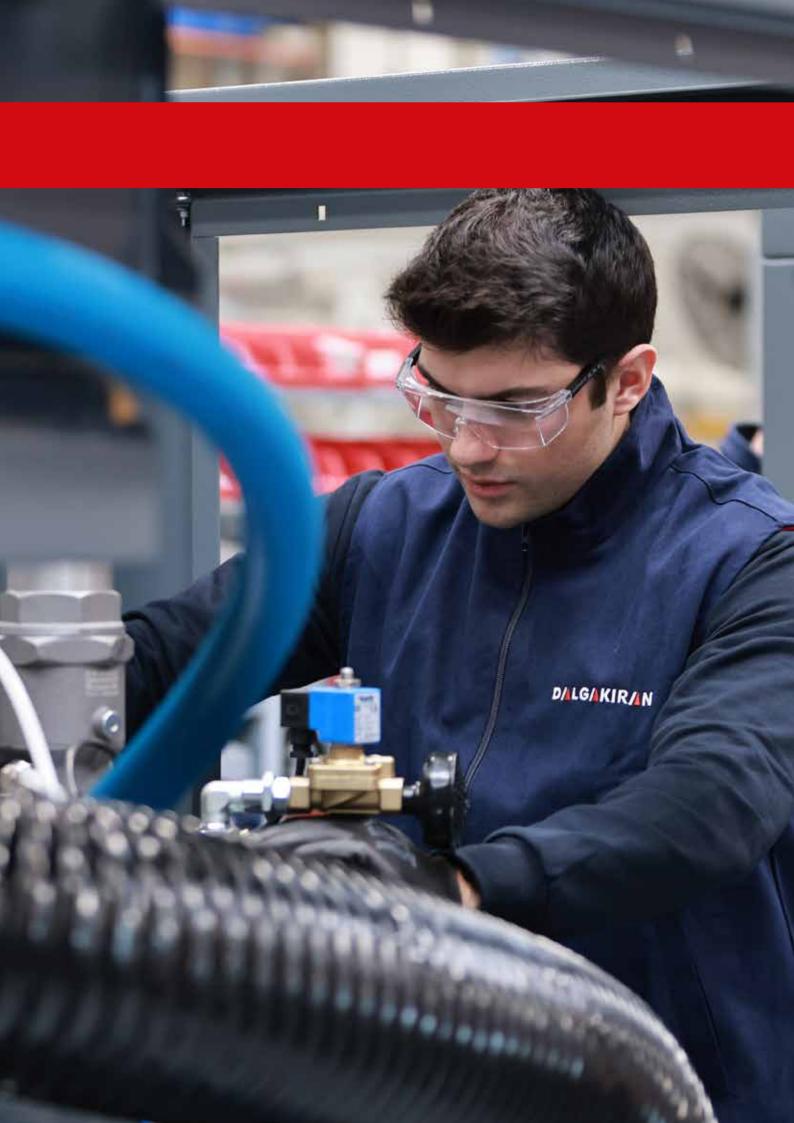
- If compressed air is essential to your daily operations, it is vital to keep the components of your compressed air supply system well maintained.
- Each component of an air compressor has a specific function. The regular maintenance of the air compressor will ensure a better quality of compressed air 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 Dalgakıran service technicians and specially trained and authorized service partners.

We leave nothing to chance

- As Dalgakıran, 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.



SPARE PARTS

- The only way to get trouble-free and long-term use of the compressor is to use only original spare parts and lubricants.
- All SmartParts products are manufactured according to original specifications for the maximum efficiency.
- Original SmartParts products provides the best operating conditions and eliminate all risks of unexpected failures from poor quality service parts. It ensures that machine works with the expected performance until the recommended part maintenance period.
- The non-stop technical support provided by our dealers and distributors in different locations
 around the world ensures that the machines maintain to operate under the optimum conditions.



INTELLIGENT SPARE PART





Headquarter

Eyup Sultan Mah. Muminler Cad. No: 70 34885 Sancaktepe / Istanbul / Türkiye

Factory

Makine Ihtisas OSB, Demirciler Mah. 1. Cad. No:1/2, Merkez, Dilovası / Kocaeli / Türkiye

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