



PRODUCT CATALOG



Since the establishment of our company by Ömer Dalgakıran in 1965, we are a family that grows everyday; reaching 850 persons, this family develops its products and services and provides solutions to ensure that its customers obtain facilities with increased productivity and with uninterrupted and productive working processes, and continues to share its knowledge and achievements, and to grow more as it shares more.

We are always there for you with our wide range of products to meet the requirements for any type of pressurized air, and our approach focused on being fast, reliable and accessible.

We are proud to reach you with our 11 head offices in total and hundreds of business partners in USA, Germany, Russia, Ukraine, and Turkey that serve more than 130 countries throughout the world.

Take a look at our social media accounts and our posts, we would appreciate hearing from you...

A man in a light blue suit and red patterned tie is holding a bright orange hard hat. The background is a large industrial facility with tall towers and complex piping, set against a bright, hazy sky. The overall image conveys a message of industrial safety and reliability.

DALGAKIRAN

Fast, Reliable, Convenient...

RSC SERIES



TURBO SERIES



DVK SERIES



WAVE SERIES

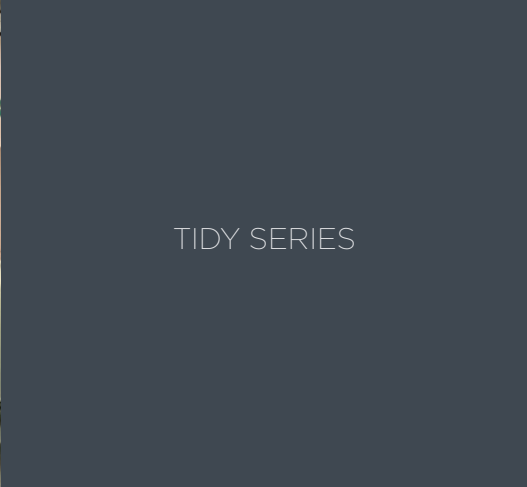


INVERSYS PLUS SERIES

INDEX



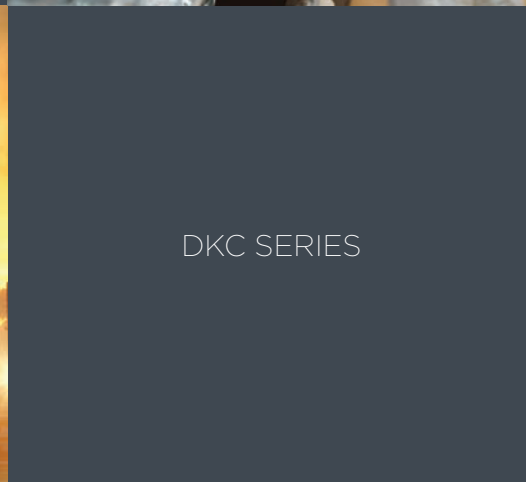
PORTAIR SERIES



TIDY SERIES



PET MASTER SERIES



DKC SERIES



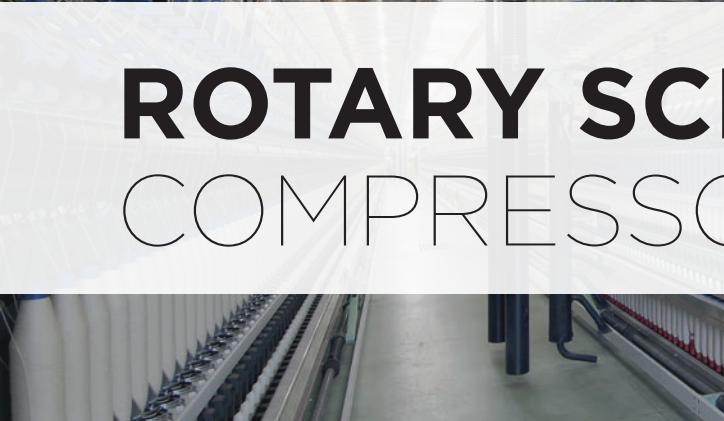
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DALGAKIRAN

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ROTARY SCREW AIR COMPRESSORS





STANDARD EQUIPMENT

High quality components such as IP55 electric motors with the IE3 efficiency class, IP54 fan motors, star-delta motor starter system, electrical materials selected according to IEC, UL/cUL, CE standards as per the market requirements, high-efficiency screw blocks consuming less energy are provided as standard in all our products.



SERVICEABILITY

Service-friendly design implemented using a layout that provides instant access to all consumable items, with quick-release protective covers and easy-to-use controllers minimizes downtime and reduces maintenance costs.

All
Rotary
Screw
compressors
are under
5 YEARS
OF WARRANTY COVER.



QUIET OPERATION

WITH THE INTENSIVE R&D STUDIES, SOUND LEVELS ARE REDUCED TO A LEVEL OF 69 dBA.



ELECTRONIC CONTROL

Dalgakiran rotary screw compressors are equipped with easy-to-use, robust and long-lasting microprocessor controllers with communication capabilities as per the product line to ensure smooth operation and uninterrupted production.

SCREW BLOCK

Patented and durable screw block that provides high-capacity of air, and that is specially selected for each model's capacity requirement

Production of air with high volumetric efficiency, thanks to the new rotor profiles, and lower torque requirements

New generation bearing design with increased load carrying capabilities

AIR OIL SEPARATOR

Spin-on or immersed type separator design depending on the product line

Immersed type separator

High performance separation with three-stage design

More efficient separation at lower volume with deeply wrapped, intertwined separation layers

Low amount of oil mist in outlet air ≤ 3 ppm

Spin-on separator

Easy replacement, ease of assembly and disassembly

Design that does not require a separator tank

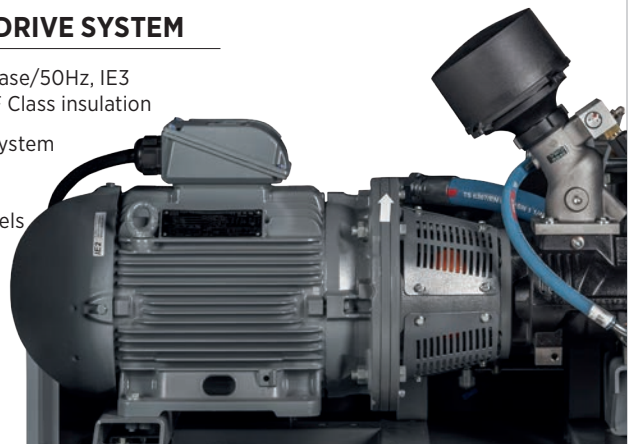
MAIN MOTOR AND DRIVE SYSTEM

High efficiency 400V/3 phase/50Hz, IE3 IP55 electric motors with F Class insulation

Star delta motor starting system

Easy of assembly and disassembly with bush pulleys on belt-pulley models

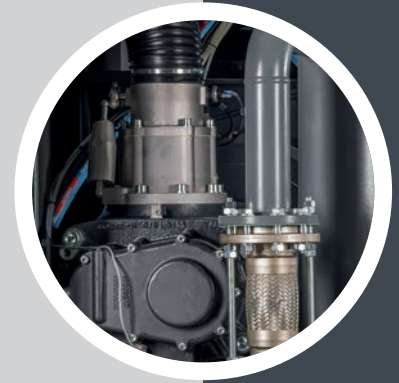
On direct coupled models, long-lasting and efficient transfer system thanks to use of elastic couplings





AIR SUCTION SYSTEM

- Effective pre-filtering and clean compressor interior with washable pre-filter
- Longer servicing periods and up to 99% separation efficiency thanks to the suction air filter with high dust-collection capacity
- A special suction valve (regulator) that provides less pressure loss and higher suction efficiency



COOLING SYSTEM

- Aluminum Bar / Plate type combo cooler with long-life cools pressurized air and oil, ensures that the temperature of pressurized air and oil is kept optimum
- Four-/three-way thermostatic valve provides optimum operating temperature values and prevents over cooling
- Quiet and efficient axial fan
- Temperature-controlled fan motor

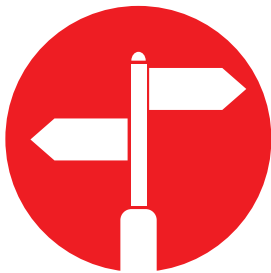


OTHER FEATURES

- Removable acoustic canopy & rigid housing base
- Dry type air filter
- Full flow oil filter
- Electropneumatic load/unload controlled suction valve
- Minimum pressure valve
- Mechanical and electronic safety systems
- Pressure relief valve and silencer
- Water separator and automatic discharge system
- CE Certified air and oil tanks complying with SPVD (Simple Pressure Vessel Directive) and designed as per EN 286-1 standard



Features specified in this section are standard for all machines except PA and RSC series. Review the introduction pages specially prepared for each product line for additional features.



GENERAL OPTIONS

- Water cooling system
- Heat recovery system
- Oil heater
- Soft-starter
- Main motor with IE4 efficiency class
- Use of food grade oil
- Mains voltage options other than 400V/3 phase/50Hz



CONTROLLERS

L 33-S

- Multi-operation function up to 5 compressors without requiring an external main controller
- Thanks to the automatic motor bearing lubrication system, the motor is never lubricated too much, too little or too late. Thus, service life of motor bearings is maximized.
- Weekly scheduler with the ability to start and stop the machine at 3 different time periods, which can be set individually for each day of the week.
- Ability to do both pressure and temperature PID at the same time thanks to the Dual PID feature.
- With the pressure PID, it provides energy efficiency by keeping the pressure constant at the desired value.
- With the temperature PID, it controls the speed of the fan motor to ensure that the screw block operates at the constant temperature, where it is most efficient.
- All inverter and compressor control data are managed from a single point in models with an inverter.
- Internal ModBus communication
- User friendly screen interface



L 26-S

- M/S (Master/Slave - Equal ageing) operation function without requiring an external main controller for 2 compressors
- Thanks to the automatic motor bearing lubrication system, the motor is never lubricated too much, too little or too late. Thus, service life of motor bearings is maximized.
- Weekly scheduler with the ability to start and stop the machine at 3 different time periods, which can be set individually for each day of the week.
- All inverter and compressor control data are managed from a single point in models with an inverter
- All inverter and compressor control data are managed from a single point in models with an inverter.
- Internal ModBus communication
- User friendly screen interface



L-9

- M/S (Master/Slave - Equal ageing) operation function without requiring an external main controller for 2 compressors
- Internal ModBus communication
- User friendly screen interface



OUR DISTINGUISH SERVICES



Optimization of Energy Efficiency

Reducing energy costs and sustainability play a key role in optimizing industrial plants and operating them at an affordable cost.

Increasing energy prices and ever-challenging market conditions force all companies to review their energy consumption. The profitability of businesses is affected by the efficient use of energy resources.

We measure your installed systems on-site to reduce your energy costs, issue reports on your system in detail, and recommend the optimum solution for saving energy. From a to z, we offer professional services by providing consultancy for your compressed air installations, including elimination of losses and leaks.

This service is free of charge when you purchase a new compressor.



Compressor Replacement System

When you make an investment and/or require reduction or expanding in your operations, we measure your system, and report the results. Our evaluation will optimize your system to be the most efficient and economical.

Capacity measurement service is offered free of charge when you purchase new compressors.

Servicing for Any Brand of Compressors

Regardless of its brand and model, we provide fast and professional Dalgakiran service for any kind of compressors. We provide fast service, maintenance and fault repair support 24/7 using special original spare parts for every brand of compressors with our authorized service network throughout Turkey and the know-how of our regional directorates.

General Overhaul service for any brand and model compressors that have reached the overhaul period is provided by Dalgakiran's Central Service.

- *Warranty of 6 months for parts and 1 year for labour,
- * Free of charge transportation within Istanbul,
- * Free replacement machine support during the overhaul operation.



INVERSYS PLUS SERIES Rotary Screw Air Compressors

DALGAKIRAN INVERSYS PLUS series variable-speed compressors drive the motor with the frequency converter to adjust the compressor operation speed according to your requirements and save up to 35% energy. Thanks to its high-quality equipment and excellent engineering in its design, it provides a very efficient and flexible use as per requirements. Responds to all requirements between 5.5 and 315 KW.

ADVANTAGES

- Up to 35% energy saving*
- Operation at constant output pressure value
- Wide operating pressure range (5-14 bars)
- Soft & smooth start up
- Protection against the adverse effects of peak currents
- Effective production of pressurized air even in case of highly variable pressurized air requirements

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



MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled one on one (1:1) with the elastic coupling
- Variable-speed starting with frequency converter
- High temperature protection with motor bearings (INVERSYS 55-315 Plus)
- High speed premium efficiency electric motor

AIR/OIL SEPARATOR

- Easy-to-detach spin-on type separator (INVERSYS 5-37 Plus)
- High-efficiency immersion type separator with long service life (INVERSYS 45-315 Plus)



COOLING SYSTEM

- Temperature controlled fan (INVERSYS 5-30 Plus)
- Axial cooling fans controlled with secondary fan inverter (INVERSYS 30-315 Plus)

ADDITIONAL OPTIONS TO THE GENERAL OPTIONS LIST

- Model options with Tank, without Tank, with Tank dryer (INV 5-15 Plus)
- Automatic greasing system

TECHNICAL DATA

Model	Pressure		Capacity*				Motor Power	Connection Size	Receiver Volume/ Dryer Model	Dimensions (mm)			Weight	Noise**
	bar	psi	Minimum		Maximum					Length	Width	Height		
			m ³ /min	cfm	m ³ /min	cfm	kg	dB(A)						
INVERSYS 5 PLUS	7,5	110	0,38	11	1,03	32	5,5/7,5	G 1/2"	200-250L HRD 30	1025	650	950	235	69
	10	145	0,37	10	0,83	27								
	13	190	0,36	14	0,64	23								
INVERSYS 7 PLUS	7,5	110	0,42	14	1,40	42	7,5/10	G 1/2"	200-250L HRD 40	1025	650	950	255	70
	10	145	0,43	13	1,20	35								
	13	190	0,43	12	0,95	29								
INVERSYS 11 PLUS	7,5	110	0,77	27	1,80	64	11/15	G 3/4"	500L HRD 40	1175	730	1000	305	69
	10	145	0,81	29	1,61	57								
	13	190	0,74	16	1,30	46								
INVERSYS 15 PLUS	7,5	110	0,99	35	2,85	101	15/20	G 3/4"	500L HRD 50	1175	730	1000	345	71
	10	145	0,97	34	2,33	82								
	13	190	0,99	35	2,07	73								
INVERSYS 18 PLUS	7,5	110	1,10	37	3,50	124	18,5/25	G 1"	-	1275	850	1465	465	71
	10	145	1,00	36	3,00	106								
	13	190	1,10	38	2,60	92								
INVERSYS 22 PLUS	7,5	110	1,30	32	4,20	140	22/30	G 1"	-	1275	850	1465	500	71
	10	145	1,30	32	3,80	124								
	13	190	1,20	29	3,00	99								
INVERSYS 30 PLUS	7,5	110	1,22	43	5,30	187	30/40	G 1 1/4"	-	1575	1030	1750	695	71
	10	145	1,22	43	4,60	162								
	13	190	1,21	43	4,00	141								
INVERSYS 37 PLUS	7,5	110	1,30	46	6,80	240	37/50	G 1 1/4"	-	1575	1030	1750	715	71
	10	145	1,30	45	5,80	205								
	13	190	1,30	44	5,00	177								
INVERSYS 45 PLUS	7,5	110	1,30	46	7,60	268	45/60	G 1 1/4"	-	1575	1030	1750	945	73
	10	145	1,20	43	6,80	240								
	13	190	1,20	44	5,90	208								
INVERSYS 55 PLUS	7,5	110	2,50	88	9,90	350	55/75	G 1 1/2"	-	2000	1200	1810	1290	75
	10	145	2,40	84	8,20	290								
	13	190	2,60	91	7,40	261								
INVERSYS 75 PLUS	7,5	110	2,60	91	12,90	456	75/100	G 1 1/2"	-	2000	1200	1810	1390	77
	10	145	2,50	88	10,90	385								
	13	190	2,50	88	9,60	339								
INVERSYS 90 PLUS	7,5	110	6,20	220	16,80	593	90/125	G 2"	-	2500	1400	2037	2020	78
	10	145	6,00	213	14,40	509								
	13	190	6,20	221	12,30	434								
INVERSYS 110 PLUS	7,5	110	6,63	234	20,10	710	110/150	G 2"	-	2500	1400	2037	2380	78
	10	145	7,11	251	17,30	611								
	13	190	7,04	249	15,00	530								
INVERSYS 132 PLUS	7,5	110	6,90	244	24,30	858	132/180	G 2 1/2"	-	2750	1805	2000	2555	78
	10	145	6,80	239	20,30	717								
	13	190	9,74	344	18,10	639								
INVERSYS 160 PLUS	7,5	110	6,80	239	28,20	996	160/220	G 2 1/2"	-	2750	1805	2000	2760	78
	10	145	7,13	252	24,60	869								
	13	190	8,50	299	21,70	766								
INVERSYS 200 PLUS	7,5	110	14,03	495	37,50	1324	200/270	DN80	-	3250	2250	2450	4460	79
	10	145	13,90	490	32,30	1141								
	13	190	13,81	488	28,80	1017								
INVERSYS 250 PLUS	7,5	110	13,60	479	45,20	1596	250/340	DN100	-	3250	2250	2450	5600	79
	10	145	13,51	477	38,50	1360								
	13	190	13,50	475	33,50	1183								
INVERSYS 315 PLUS	7,5	110	13,20	466	54,10	1911	315/430	DN100	-	3250	2250	2450	6000	79
	10	145	13,23	467	44,30	1564								
	13	190	12,93	457	38,00	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.

- DALGAKIRAN compressors 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.

** Refers to sound Pressure level measured according to ISO 2151:2004 and ISO 9614/2 with ± 3 dB(A) tolerance.



TIDY SERIES

Rotary Screw Air Compressors

DALGAKIRAN TIDY series compressors are used safely in all applications of small and medium sized businesses thanks to their high performance in operation.

Its service- and maintenance-friendly compact structure speeds up your work, and minimizes downtime.

MAIN MOTOR DRIVE SYSTEM

- Belt-pulley drive system
- Serviceability thanks to easy belt tensioning system
- TEFC, premium efficiency electric motor



AIR/OIL SEPARATOR

- Easy to disassemble and assemble, service- and maintenance-friendly spin-on type separator.

COOLING SYSTEM

- Quiet and efficient axial fan directly coupled to main motor (TIDY 3-20)
- Additional axial fan with temperature control (TIDY 20B-50)

OTHER FEATURES

- Compact, small footprint, easy to service.
- Air tank made of CE certified P265GH pressurized container steel (TIDY 3-20) (EN 286-1)



TECHNICAL DATA

Model	Pressure		Capacity*		Motor Power kW/HP	Connection Size	Receiver Volume/Dryer Model	Dimensions (mm)			Weight kg	Noise** dB(A)
	bar	psi	m ³ /min	cfm				Width	Depth	Height		
TIDY 3	7,5	110	0,38	13,4	2,2/3,0	G 1/2"	200-250L HRD 10	1500	550	1350	240	68
TIDY 4	7,5 10	110 145	0,41 0,36	14,5 12,7	3,0/4,0	G 1/2"	200-250L HRD 20	1500	550	1350	245	68
TIDY 5	7,5 10 13	110 145 190	0,56 0,46 0,35	19,8 16,3 12,3	4,0/5,5	G 1/2"	200-250L HRD 20	1500	550	1350	250	69
TIDY 7	7,5 10 13	110 145 190	0,80 0,65 0,53	28,3 23,0 18,7	5,5/7,5	G 1/2"	200-250L HRD 30	1500	550	1325	272	69
TIDY 10	7,5 10 13	110 145 190	1,15 0,95 0,77	40,6 33,6 27,2	7,5/10	G 3/4"	500L HRD 40	1810	640	1520	385	69
TIDY 15	7,5 10 13	110 145 190	1,70 1,40 1,16	60,0 49,5 41,0	11/15	G 3/4"	500L HRD 40	1880	650	1600	414	69
TIDY 20	7,5 10 13	110 145 190	2,25 1,96 1,61	79,5 69,2 56,9	15/20	G 3/4"	500L HRD 50	1880	650	1600	450	69
TIDY 20 B	7,5 10 13	110 145 190	2,70 2,30 1,90	95,4 81,2 67,1	15/20	G 1"	-	1275	850	1465	410	69
TIDY 25	7,5 10 13	110 145 190	3,30 2,80 2,40	116,6 98,9 84,8	18,5/25	G 1"	-	1275	850	1465	420	69
TIDY 30	7,5 10 13	110 145 190	3,80 3,50 3,00	134,2 123,6 106,0	22/30	G 1"	-	1275	850	1465	450	70
TIDY 40	7,5 10 13	110 145 190	4,60 4,00 3,60	162,5 141,3 127,1	30/40	G 1 1/4"	-	1575	1030	1750	683	70
TIDY 40 B	7,5 10 13	110 145 190	5,20 4,30 3,70	183,7 151,9 130,7	30/40	G 1 1/4"	-	1575	1030	1750	710	70
TIDY 50	7,5 10 13	110 145 190	6,40 5,40 4,30	226,0 190,7 151,9	37/50	G 1 1/4"	-	1575	1030	1750	742	70

- 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 compressors reserves its rights to make changes in its products and specifications without prior notice.
 - Air receiver volume for the TIDY 3-20 series Models with only air receiver and air receiver & air dryer respectively.
 - Dimensions of the Models with only air-receiver for TIDY 3-20 series.
 - Weights of the Models with only air-receiver for TIDY 3-20 series.
- * Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.
- ** Refers to sound Pressure level measured according to ISO 2151:2004 and ISO 9614/2 with ± 3 dB(A) tolerance.



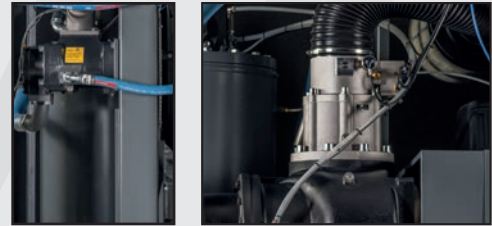
DVK SERIES Rotary Screw Air Compressors

Dalgakiran DVK Series compressors are reliable compressors which may be easily used in many applications. Manufactured with high-performance and high-quality equipment, these compressors can be easily used by users with every level of experience.

Proven design and reliability with tens of thousands of compressors used in the field

MAIN MOTOR DRIVE SYSTEM

- Belt-pulley drive system
- Serviceability thanks to easy belt tensioning system
- TEFC, premium efficiency electric motor



AIR/OIL SEPARATOR

- High performance separation with three-stage design
- More efficient separation at lower volume with deeply wrapped, intertwined separation layers
- Low amount of oil mist in outlet air ≤ 3 ppm

COOLING SYSTEM

- Quiet and efficient axial fan
- Temperature-controlled fan motor

COMPONENTS

- High-quality components with a long service life.



TECHNICAL DATA

Model	Pressure		Capacity*		Motor Power	Connection Size	Dimensions (mm)			Weight	Noise**
	bar	Psi	m ³ /min	cfm	kW/HP		Width	Depth	Height	kg	dB(A)
DVK 60	7,5	110	7,2	254	45/60	G 1 1/4"	1575	1030	1750	876	75
	10	145	6,4	226							
	13	190	5,4	191							
DVK 75	7,5	110	9,6	339	55/75	G 1 1/2"	2000	1200	1810	1340	76
	10	145	8,5	300							
	13	190	6,6	233							
DVK 100	7,5	110	12,4	438	75/100	G 1 1/2"	2000	1200	1810	1610	78
	10	145	10,5	371							
	13	190	8,7	307							
DVK 125	7,5	110	15,8	557	90/125	G 2"	2500	1400	2037	2240	79
	10	145	13,5	477							
	13	190	11,0	388							
DVK 150	7,5	110	18,8	664	110/150	G 2"	2500	1400	2037	2500	79
	10	145	16,5	583							
	13	190	14,0	495							
DVK 180	7,5	110	22,8	805	132/180	G 2 1/2"	2500	1805	2000	2873	79
	10	145	19,5	689							
	13	190	16,0	565							
DVK 220	7,5	110	27,4	968	160/220	G 2 1/2"	2500	1805	2000	3030	79
	10	145	23,0	812							
	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.
- DALGAKIRAN compressors 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.
- ** Refers to sound Pressure level measured according to ISO 2151:2004 and ISO 9614/2 with ± 3 dB(A) tolerance.

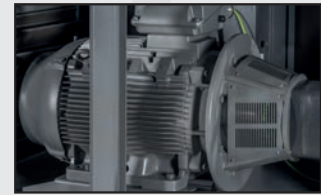


DVK D SERIES Rotary Screw Air Compressors

Dalgakıran DVK D series Compressors deliver high performance by reducing the power transfer losses with their directly-coupled motor and screw block. Operation expenses are reduced thanks to usage of the latest generation screw block and motor. Stops are minimized with continuously supplied air.

MAIN MOTOR DRIVE SYSTEM

- Long life and efficient power transfer thanks to the use of elastic coupling
- TEFC, premium efficiency electric motor



SCREW BLOCK

- Gear box as per AGMA (American Gear Manufacturers Association) standards for products where air ends with gearbox are used
- Directly-coupled

AIR/OIL SEPARATOR

- High performance separation with three-stage design
- More efficient separation at lower volume with deeply wrapped, intertwined separation layers
- Low amount of oil mist in outlet air ≤ 3 ppm

COOLING SYSTEM

- Quiet and efficient axial fan
- Temperature-controlled fan motor



TECHNICAL DATA

Model	Pressure		Capacity*		Motor Power	Connection Size	Dimensions (mm)			Weight	Noise**
	bar	psi	m ³ /min	cfm	kW/HP		Width	Depth	Height	kg	dB(A)
DVK 30 D	7,5	110	4,0	141	22/30	G 1"	1275	850	1465	483	70
	10	145	3,6	127							
DVK 40 B D	7,5	110	5,5	194	30/40	G 1 1/4"	1575	1030	1750	731	70
	10	145	4,5	159							
	13	190	3,9	138							
DVK 50 D	7,5	110	6,6	233	37/50	G 1 1/4"	1575	1030	1750	742	70
	10	145	5,6	198							
	13	190	4,6	163							
DVK 60 B D	7,5	110	8,5	300	45/60	G 1 1/2"	2000	1200	1810	1370	74
	10	145	7,1	251							
	13	190	5,9	208							
DVK 75 D	7,5	110	9,8	346	55/75	G 1 1/2"	2000	1200	1810	1520	76
	10	145	8,7	307							
	13	190	7,0	247							
DVK 100 D	7,5	110	12,6	445	75/100	G 1 1/2"	2000	1200	1810	1670	78
	10	145	11,0	388							
	13	190	9,2	325							
DVK 125 D	7,5	110	16,2	572	90/125	G 2"	2500	1400	2037	2240	79
	10	145	13,7	484							
	13	190	11,2	396							
DVK 150 D	7,5	110	19,5	688	110/150	2"G	2500	1400	2037	2640	79
	10	145	17,9	632							
	13	190	14,0	494							
DVK 180 D	7,5	110	23,4	826	132/180	G 2 1/2"	2750	1805	2000	2970	79
	10	145	20,0	706							
	13	190	16,5	583							
DVK 220 D	7,5	110	28,0	989	160/220	G 2 1/2"	2750	1805	2000	3080	79
	10	145	23,5	830							
	13	190	20,0	706							
DVK 270 D	7,5	110	37,0	1307	200/270	DN80	3250	2250	2450	4920	79
	10	145	30,8	1088							
	13	190	24,5	865							
DVK 340 D	7,5	110	45,0	1590	250/340	DN100	3250	2250	2450	5600	79
	10	145	38,6	1368							
	13	190	32,6	1151							
DVK 430 D	7,5	110	53,0	1872	315/430	DN100	3250	2250	2450	5920	79
	10	145	45,5	1607							
	13	190	39,5	1395							

- 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 compressors 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.
- ** Refers to sound Pressure level measured according to ISO 2151:2004 and ISO 9614/2 with ± 3 dB(A) tolerance.



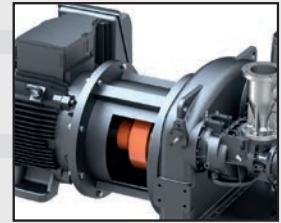
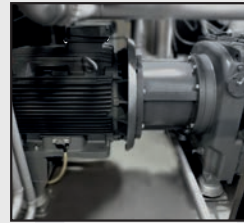
EAGLE SERIES

Oil Free Rotary Screw Compressors



Completely oil-free compressed air according to ISO 8573-1 Class- ZERO. Compressors tested and approved by TUV Rheinland Germany.

- High performance compliant with ISO 1217, Annex C/E
- Direct-Drive driving system with efficient IE4 class electric motor and flexible coupling
- Proven reliability
- Easy to service, durable, powerful hydraulic actuated suction loader
- Water separator for both of stages
- Minimized level of maintenance and running costs by trouble free production cycle



STANDARD FEATURES

- Sound insulated canopy
- Electrostatic powder coated components for high corrosion resistance
- Electric motor protection for preventing over loading
- F Class TEFC IE4 motors
- Two stage air-end
- Air or water cooled system alternatives
- Pre-cooling system for air cooled machines, entirely stainless steel parts (heat exchanger, piping water separator etc.).
- Variable speed drive or fixed speed drive alternatives

OTHER OPTIONS

- Automatic greasing system
- Heat Recovery System



AIR END

■ Totally oil free air

Very reliable and field proved sealing arrangement ensures separation oil free area from the oil needed for lubrication of gears and bearings

■ Robust design reliable in operation under the most difficult condition

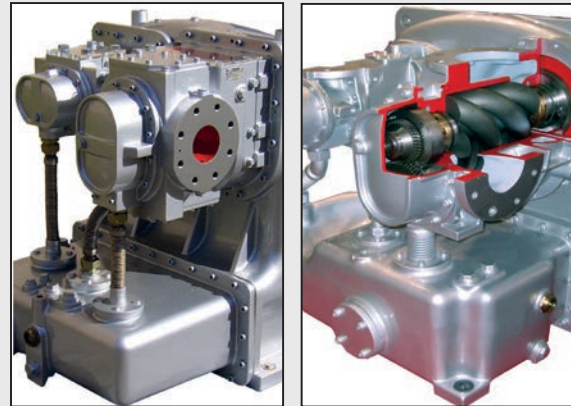
Working in dusty, wet, cold and hot environment possible

■ Bearing arrangement guarantees long life without vibrations

The radial forces are compensated by cylindrical roller bearings, the axial forces are compensated by four-point bearings arranged on the discharge side.

■ High engineered gear driven Design

The gear box is equipped with helical bullgear running in an anti-friction bearing. Rotors are dynamically balanced ensuring excellent running properties of the screw air ends



■ Special coating for long term high efficiency

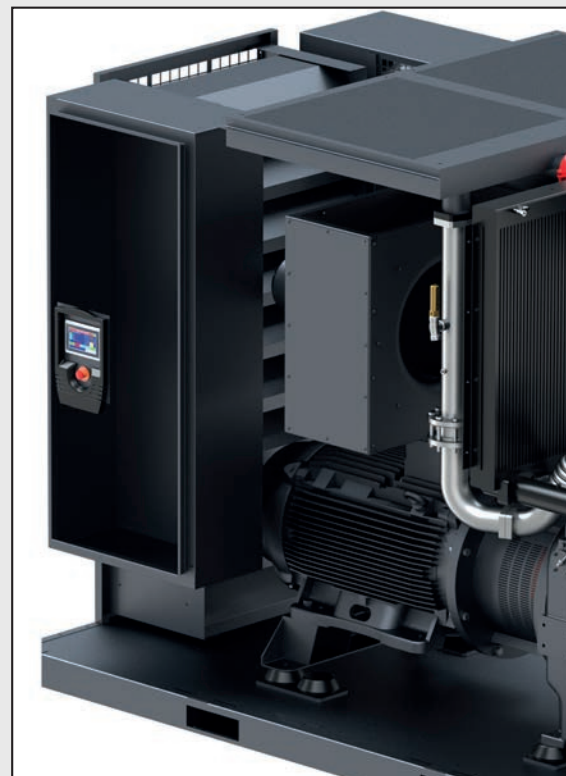
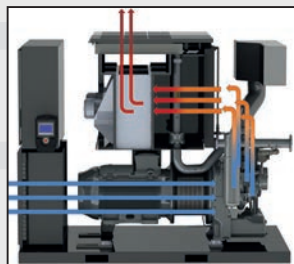
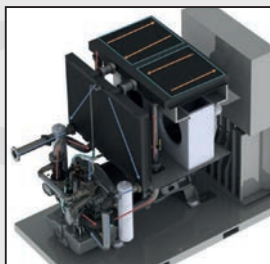
Excellent coating of rotors and inner part of housing allows reduction of clearances to levels minimum and increases efficiency.

■ Stainless steel rotors in the HP-stage

Elimination damage through corrosion and rusting after longer shutdown times.

COOLING

- Two stage cooling system with pre-cooler
- Stainless steel fin & tube pre-cooler
- Aluminum bar & plate after cooler
- Efficient design concept
- Easy to maintenance & cleaning
- Washable panel filter



TECHNICAL DATA

Model	Pressure		Capacity		Motor Power kW/HP	Connection Size	Dimensions (mm) Air Cooled / Water cooled			Weight kg	Noise dB(A)
	bar	psi	m ³ /min	cfm			Length	Width	Height		
EAGLE 37	7	100	6,00	211,9	37/50	G 2"	2450	1600	2160	2270/2285	76
	8,5	125	5,30	187,2							
	10	145	4,80	169,5							
EAGLE 45	7	100	7,50	264,9	45/60	G 2"	2450	1600	2160	2450/2460	76
	8,5	125	6,50	229,6							
	10	145	5,90	208,4							
EAGLE 55	7	100	9,40	332,0	55/75	G 2"	2450	1600	2160	2600/2610	77
	8,5	125	8,60	303,8							
	10	145	7,50	264,9							
EAGLE 75	7	100	12,70	448,6	75/100	G 2"	2450	1600	2160	2860/2850	77
	8,5	125	11,80	416,8							
	10	145	10,20	360,3							
EAGLE 90	8,5	125	12,70	448,6	90/125	G 2"	2450	1600	2160	2950/2940	78
	10	145	12,60	445,0							
EAGLE 90 B	7	100	15,54	548,9	90/125	DN80	3085	1825	2450/2200	3650/3900	80
	8,5	125	13,20	466,2							
	10	145	13,00	459,2							
EAGLE 110	7	100	19,50	688,7	110/150	DN80	3085	1825	2450/2200	3750/4000	81
	8,5	125	17,70	625,2							
	10	145	15,50	547,5							
EAGLE 132	7	100	22,30	787,6	132/180	DN80	3085	1825	2450/2200	3900/4150	83
	8,5	125	20,90	738,2							
	10	145	19,40	685,2							
EAGLE 160	7	100	25,40	897,1	160/220	DN80	3085	1825	2450/2200	4150/4400	84
	8,5	125	25,40	897,1							
	10	145	24,00	847,7							
EAGLE 185	7	100	28,00	989,0	185/250	DN80	3085	1825	2450/2200	4150/4400	84
	8,5	125	28,00	989,0							
	10	145	28,00	989,0							
EAGLE 200	7	100	36,50	1289,2	200/270	DN100	3685/3465	2140	2715/ 2450	5900/6100	85
	8,5	125	34,00	1200,9							
	10	145	31,60	1116,1							
EAGLE 250	7	100	44,30	1564,7	250/340	DN100	3685/3465	2140	2715/ 2450	6100/6350	86
	8,5	125	40,50	1430,5							
	10	145	36,40	1285,6							
EAGLE 315	7	100	50,10	1769,5	315/430	DN100	3685/3465	2140	2715/ 2450	6300/6500	87
	8,5	125	48,70	1720,1							
	10	145	44,20	1561,1							

- Refers to free air delivery measured according to ISO 1217:2009, Annex C standard. DALÇAKIRAN reserves its rights to make changes in its products and specifications without prior notice.

TECHNICAL DATA

Model	Pressure		Capacity				Motor Power	Connection Size	Dimensions (mm) Air Cooled / Water cooled			Weight	Noise
			m ³ /min		cfm				Length	Width	Height		
	bar	psi	min	max	min	max	kW/HP					kg	dB(A)
EAGLE 55 VSD	7	100	3,4	9,1	120,1	321,4	55/75	G 2"	2450	1600	2160	2675	77
	8,5	125	3,4	8,3	120,1	293,2							
	10	145	3,4	7,0	120,1	247,2							
EAGLE 75 VSD	7	100	3,4	12,1	120,1	427,4	75/100	G 2"	2450	1600	2160	2935	77
	8,5	125	3,4	11,3	120,1	399,1							
	10	145	3,4	10,6	120,1	374,4							
EAGLE 90 VSD	7	100	3,4	14,5	120,1	512,1	90/125	G 2"	2450	1600	2160	3025	75
	8,5	125	3,4	13,6	120,1	480,4							
	10	145	3,4	13,2	120,1	466,2							
EAGLE 110 VSD	7	100	10,0	19,7	353,2	695,8	110/150	DN80	3085	1825	2450/2200	4100/4350	82
	8,5	125	10,0	18,2	353,2	642,8							
	10	145	10,0	17,0	353,2	600,4							
EAGLE 132 VSD	7	100	10,40	22,2	367,3	784,1	132/180	DN80	3085	1825	2450/2200	4200/4400	84
	8,5	125	10,30	21,0	363,8	741,7							
	10	145	10,30	19,6	363,8	692,3							
EAGLE 160 VSD	7	100	10,00	26,9	353,2	950,1	160/220	DN80	3085	1825	2450/2200	4000/4200	85
	8,5	125	9,80	25,5	346,1	900,7							
	10	145	9,80	23,5	346,1	830,0							
EAGLE 185 VSD	7	100	10,30	29,5	363,8	1041,9	185/250	DN80	3085	1825	2450/2200	4600/4850	85
	8,5	125	10,20	28,1	360,3	992,5							
	10	145	10,10	26,4	356,7	932,4							
EAGLE 200 VSD	7	100	18,20	35,0	642,8	1236,2	200/270	DN100	3685/3465	2140	2715/2450	6300/6550	85
	8,5	125	18,00	31,4	635,8	1109,0							
	10	145	17,90	28,5	632,2	1006,6							
EAGLE 250 VSD	7	100	17,30	44,5	611,0	1571,7	250/340	DN100	3685/3465	2140	2715/2450	6650/6700	87
	8,5	125	17,20	41,2	607,5	1455,2							
	10	145	17,00	37,7	600,4	1331,6							
EAGLE 315 VSD	7	100	17,50	48,8	618,1	1723,6	315/430	DN100	3685/3465	2140	2715/2450	6650/6900	88
	8,5	125	17,40	46,6	614,6	1645,9							
	10	145	17,30	44,9	611,0	1585,9							

- Refers to free air delivery measured according to ISO 1217:2009, Annex E standard. DALGAKIRAN reserves its rights to make changes in its products and specifications without prior notice.

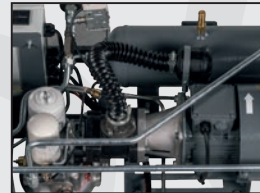


RSC SERIES Rotary Screw Air Compressors

Dalgakiran RSC series compressors are designed to meet the pressurized air requirements of rail system vehicles.

GENERAL SPECIFICATION

- Long maintenance intervals and low maintenance costs
- Optional installation on the cars (on the car, inside the car or under the car)
- Quiet operation, low vibration
- Light and compact structure
- Reliable and durable
- Directly-coupled drive system
- CE Certified air tanks complying with SPVD (Simple Pressure Vessel Directive) and designed as per EN 286-3 standard



MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled with the elastic coupling

COOLING SYSTEM

- Quiet and efficient axial fan directly connected to the main motor)

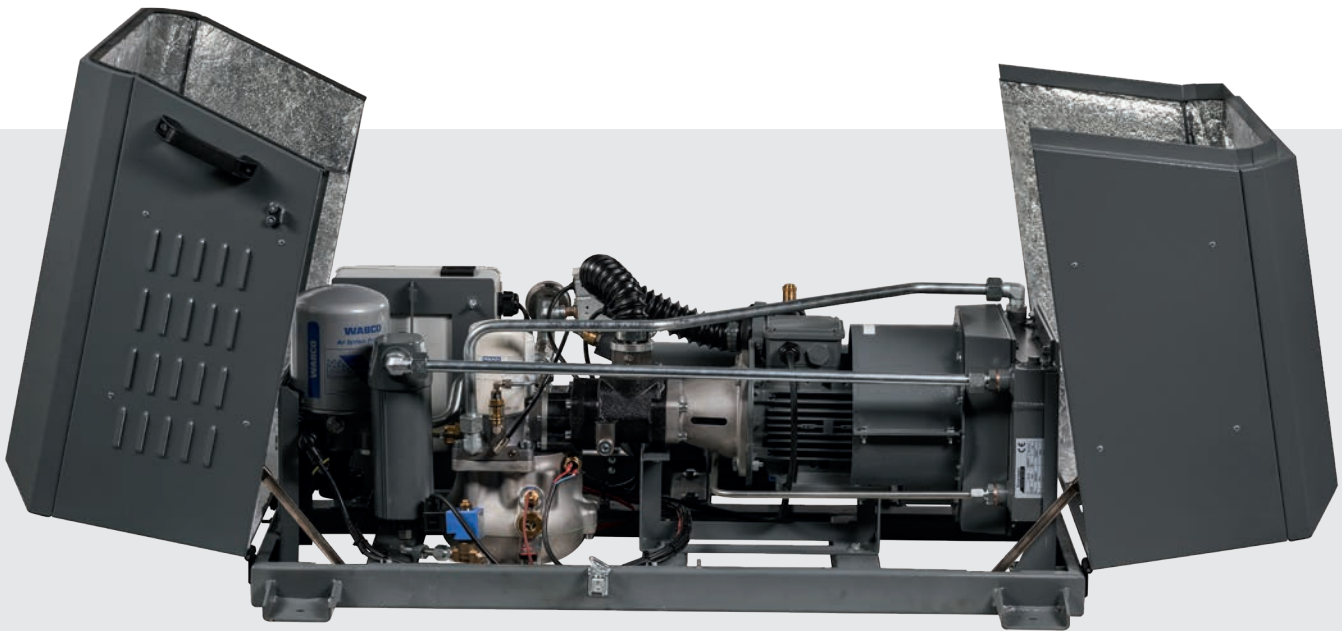
SEPARATORS AND COMPACT AIR DRYER

- Cartridge type mechanical dryer that separates oil particles and aerosols
- Easy-to-detach spin-on type separator



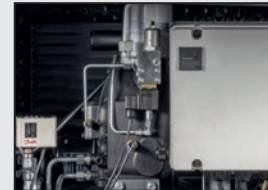
MULTI-BLOCK

- Oil separator filter
- Minimum pressure valve
- Thermostatic valve



ELECTRICAL SYSTEM

- Compact distribution panel integrated to the body
- Simple and effective motor starting system
- 24 DC control system



TECHNICAL DATA

MODEL	Pressure		Capacity*		Motor Power	Connection size	Dimensions (mm)			Weight	Noise**
	bar	psi	L/min	cfm	kW/HP		Length	Width	Height	kg	dB(A)
RSC 4S	10	145	310	11	3 / 4	G 1/2"	1100	886	485	125	67
TIDY 7D-M	7	100	650	23	5,5 / 7	G 1/2"	1000	550	625	205	69
RSC 10	10	145	800	28	7,5 / 10	G 1/2"	1328	940	540	235	69
RRC 2	8	115	130	4,6	1,1 / 1,5	G 1/2"	1100	886	485	115	72

- 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 compressors 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.
- ** Refers to sound Pressure level measured according to ISO 2151:2004 and ISO 9614/2 with ± 3 dB(A) tolerance.



PORTAIR SERIES

Portable Rotary Screw Air Compressors

PORTAIR series portable compressors are ideal for use in construction, mining and ship repair industries. These compressors offer their users long maintenance intervals, high performance and airflow thanks to their high-strength and high-efficiency screw blocks. Large fuel tanks make it possible to work longer without interruption.

GENERAL SPECIFICATION

- 2 breaker connections for PA 34 and PA 50; 3 for PA 64; and 4 for PA 100
- Type approval certificate complying with EU2007/46/EC chassis directive. (Road Certificate in accordance with European norms)
- Capacity control by changing diesel engine speed
- Compressor housing resistant against corrosion and impacts
- Service covers that may be opened by the sides
- High-efficiency engine and fuel tank capacity providing up to 10 hours of continuous operation at full load
- Low vibration level



SCREW BLOCK

- Gear box as per AGMA (American Gear Manufacturers Association) standards for products where air ends with gearbox are used

MAIN MOTOR AND DRIVE SYSTEM

- Diesel engine with 4 cylinders, water cooling and turbocharger except for PA 34
- Emission rate complying with exhaust emission standards (except PA 100)
- Directly coupled with the elastic coupling



TRAILER TYPES

- Without Trailer/With Chassis
- With brake, with fixed trailer
- Without brake, with fixed trailer
- With brake, with mobile trailer (Height of the connection point to the vehicle may be adjusted)
- Without brake, with mobile trailer

STANDARD EQUIPMENT

- Signalling
- Check valve
- Cabinet security lock
- Safety chain (PA 64 & PA 100)
- Chock and chock holder
- Trailer connection coupling
- Breaker hose connection coupling
- Cabinet security lock

OPTIONS

- Safety chain (PA 34 & PA 50)
- Heater that allows operation up to -30 °C (PA 34 & PA 50)
- Aftercooler and water separator



TECHNICAL DATA

Model	Pressure		Capacity*		Engine Model	Fuel Tank Capacity	Engine Power	Connection Size	Dimensions (mm)			Weight kg	Noise** dB(A)
	bar	psi	m ³ /min	cfm		L	kW/HP		Length	Width	Height		
PA 34	7	102	3,4	120	KUBOTA V1505-E3B	50	26,5/35	2xG3/4"	2000/3020	1150/1650	1300/1500	690	≤ 98
PA 50	7	102	5,0	177	KUBOTA V1505-E3B	85	33/45	1xG1"+2xG3/4"	2000/3020	1150/1650	1300/1600	725	≤ 98
	10	145	4,1	145									
	12	174	3,4	120									
PA 64	7	102	6,4	226	KUBOTA V2403-M-T-E3B	125	44/60	1xG1"+2xG3/4"	2250/3720	1200/1650	1370/1500	1050	≤ 98
PA 100	7	102	10,0	353	KUBOTA V3800-DI-T-E2B	125	72,8/100	1xG1 1/2"+3xG3/4"	2250/3720	1200/1650	1470/1600	1250	≤ 99
	10	145	8,5	300									
	12	174	7,5	265									

- 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 compressors reserves its rights to make changes in its products and specifications without prior notice.
- First value is valid for the base mounted version and the second value is valid for the mobile trailer versions.
- * Refers to free air delivery measured according to ISO 1217:2009, Annex C standard.
- ** Refers to sound Pressure level measured according to ISO 2151:2004 and ISO 9614/2 with ± 3 dB(A) tolerance.

WOULD YOU LIKE TO WORK WITH DALGAKIRAN
TO REDUCE YOUR COMPRESSED AIR
ENERGY COSTS BY **33%** AND CONSUME
ENVIRONMENTAL RESOURCES 5% **LESS?**



33%
OF CO2
EMISSIONS ARE
GENERATED BY THE
INDUSTRIAL
ORGANIZATIONS.



10%
OF THIS POWER
IS USED BY
PRESSURIZED
AIR SYSTEMS.



32.9%
OF THE ELECTRICAL
ENERGY USED
FOR COMPRESSED AIR
SYSTEMS CAN BE SAVED.*



* Maximum amount of savings that can be achieved with the optimization works per EU directives.

37%
OF THE
WORLD'S NATURAL
 GAS RESERVES, AND 77%
 OF THE COAL DERIVATIVES
 ARE CONSUMED BY
 INDUSTRIAL ORGANIZATIONS.



40%
OF ALL ELECTRIC POWER
 IS CONSUMED BY
 INDUSTRIAL
 ORGANIZATIONS
 GLOBALLY.



Improvement of cooling, drying and filtration operations:
 Efficient results are obtained by using the correct cooling method, and increasing the amount of high quality and pure air. Filtration permeability and filtration quality reduce line losses and save money. Dalgakiran Proje provides consultancy and applies projects on this subject.

Usage of high efficiency motors in compressors
 IE3 motors are about 2% more efficient than IE2 motors, while the IE4 engines are about 3% more efficient. Dalgakiran offers IE3 efficiency class as standard, and IE4 motor efficiency class is applied as optional.

Usage of variable speed drive
 Dalgakiran INVERSYS Plus series compressors are much more efficient than standard compressors in cases where variable air is required. Especially when there is variable air consumption due to changing operating conditions, the use of a variable speed drive saves money by providing operation as required.

Utilization of waste heat
 Thanks to Dalgakiran heat recovery systems, approximately 75% of the total energy consumed may be recovered. The operating principal for these systems is to heat hot water by the oil temperature through a plate heat exchanger. Dalgakiran optional heat recovery system is a practical and efficient solution.

Modification of Control Management Systems
 With the use of multiunit and the equal ageing system, the initial set pressure range is restricted to achieve optimum energy consumption; and this operation is performed with automatic controller instructions.

Reduction of pressure losses
 It is recommended that the differential pressure in the main air lines is 0.3 bar maximum between the production and the end usage points. 1 bar pressure loss in the system may cause 5-7% extra energy consumption. Dalgakiran Project department provides consultancy on correct air installation and implements the projects.

Monitoring the performance of the compressors and renewal of the compressors
 Compressor may turn to be a machine that consumes more energy and generates less air during its service life due to friction losses and space tolerances in the rotating equipment such as screw rotors, electric motors, etc. When the required intervention is performed with the use of genuine spare parts and replacement of the machines with new machines more advanced in technology, the business may avoid the loss of more money. Dalgakiran after sales service department is your solutions partner in this context with compressor replacement, general overhaul services and the service operations offered to every brand.

New system design
 Dalgakiran Project department provides reports on the calculation of consumption values and inspection of the accuracy of these calculations, on short, medium and long term growth projections, on the quality, energy consumption, maintenance costs of the selected equipment, and on initial investment costs for new investments and projects, and prepares the projects and performs implementation of the projects if required.

It is your solutions partner A to Z.


Reducing air losses

Hole Diameter	Air Consumption 6 bar m ³ /min	Loss	
		Kw	€
1 mm	0,065	0.3	210
2 mm	0,240	1.7	850
4 mm	0,980	6.5	3,363
6 mm	2,120	12.0	7,568

Electric cost: 0,1 € / Kw/h
 Running hours: 5,000 hours/year

PRESSURIZED AIR IS THE MOST EXPENSIVE ENERGY, PLEASE DO NOT IGNORE AIR LEAKS IN YOUR DEPARTMENTS, AND USE THE PRESSURIZED AIR CAREFULLY.

DALGAKIRAN

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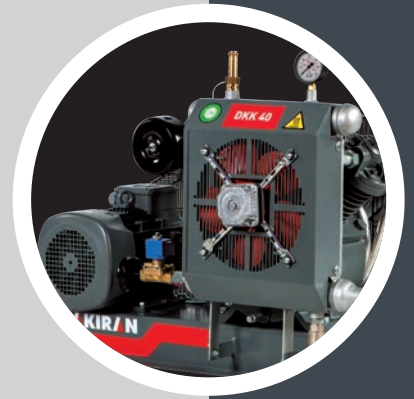
RECIPROCATING AIR COMPRESSORS





MAIN MOTOR AND DRIVE SYSTEM

- High efficiency 400V/3 phase/50Hz IE3 IP55 electric motor
- 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 high-speed stainless steel concentric valves.
- Cast iron crankcases with high strength
- Dynamically-balanced cast steel crankshaft and counterweight
- Special alloy aluminium pistons and steel cast connecting rods
- Specially designed finger-type, high-capacity stainless steel suction-discharge valves
- Stainless steel suction-discharge valves, specially designed for high pressure strength

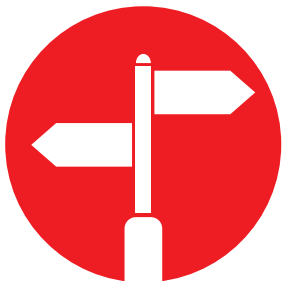


CONTROLLER*

- Internal phase protection relay function
- Function for monitoring the mains voltage and frequency and keeping these at specified limits
- Multiple compressor control with up to 8 compressors without requiring an external main controller
- ModBus communication feature
- Alarm History Record for the last 9 alarms



*Only on Pet Plus and Wave reciprocating models with high pressure



GENERAL OPTIONS

- Main motor with IE4 efficiency class
- Mains voltage options other than 400 V/3 phase/50 Hz
- High pressure air dryer*

*On reciprocating models with high



MAIN MOTOR AND DRIVE SYSTEM

- Belt-pulley drive system
- Specially designed fan type fly wheel pulleys
- Easy tensioning of belt

SINGLE AND DOUBLE STAGE Reciprocating Air Compressors

DALGAKIRAN reciprocating compressors have laid the foundation of the trust for the Dalgakiran brand as they had been working for many years in many different applications and industries, especially in small enterprises since 1969, when they were first produced. Dalgakiran reciprocating compressors, which are trouble-free and with a long service life, may be used safely in many applications with single and double stage options.



SAFETY SYSTEMS

- Solenoid discharge valve for loadless start (on models over 4 kW)
- Pressure switch
- Check valve
- Belt pulley guard
- Relief valve
- Easy tensioning of belt

OTHER FEATURES

- CE Certified air tanks complying with SPVD (Simple Pressure Vessel Directive) and designed as per EN 286-1 standard
- Bearings with a long service life
- Air suction filter and silencer
- Impact lubrication system
- Starting panel (For 1.1 - 4 kW models)





OPTIONS

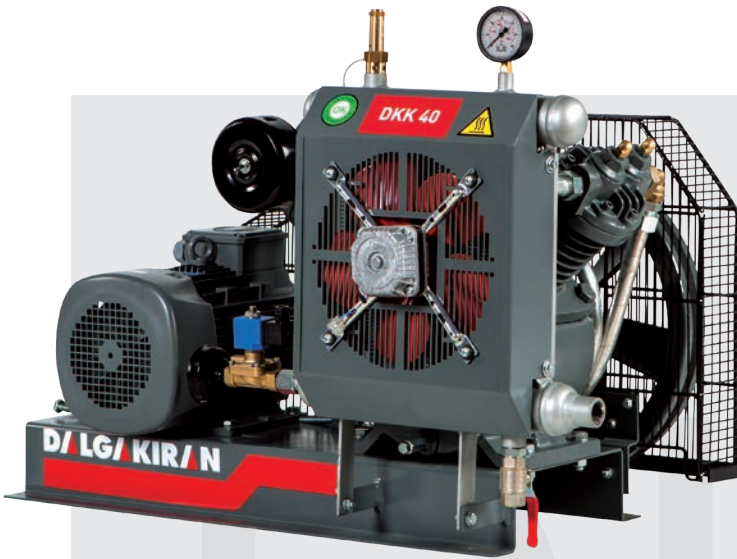
- Automatic Condensate Discharge Valve for the Air Tank
- Star delta motor starting panel (For 5.5-7.5kW models)



TECHNICAL DATA

Model	Pressure		Capacity (intake)		Motor Power kW/HP	Connection Size	Dimensions (mm)			Weight kg	Air Receiver L
	bar	psi	L/min	cfm			Length	Width	Height		
Single-Stage Reciprocating Series											
DKT 100	8	115	205	7.2	1,1/1,5	G 1/2"	1202	426	894	93	80
DKC 150	8	115	327	11.5	1,5/2,0	G 1/2"	1202	426	914	106	80
DKC 200	8	115	410	14.5	2,2/3,0	G 1/2"	1531	450	1037	135	200
DKC 300	8	115	607	21.4	4,0/5,5	G 1/2"	1830	466	1145	209	250
DKC 500	8	115	1013	35.8	5,5/7,5	G 3/4"	1927	664	1291	308	500
DKS 600	8	115	1657	58.5	7,5/10	G 3/4"	1926	668	1413	390	500
Double-Stage Reciprocating Series											
DKKC 200	12	175	205	7.2	1,5/2,0	G 1/2"	1532	450	983	145	200
DKKD 15	15	215	507	17.9	4/5,5	G 3/4"	1832	474	1097	230	250
DKKD 12	12	175	856	30.2	7,5/10	G 3/4"	1920	658	1298	374	500
DKKD 15A	15	215	828	29.2	7,5/10	G 3/4"	1925	669	1406	439	500

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



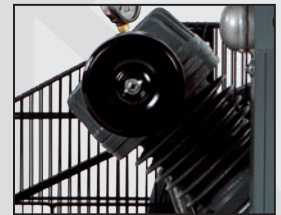
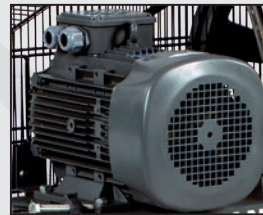
DKK SERIES

High Pressure Reciprocating Air Compressors

DALGAKIRAN proudly introduces DKK series of high pressure reciprocating compressors, which are developed in order to be used in all applications requiring high pressure, especially in the maritime sector, where Dalgakiran has shown a keen interest and served from the day of its establishment until today.

MAIN MOTOR AND DRIVE SYSTEM

- Belt-pulley drive system
- Specially designed fan type cast iron fly wheel pulley
- Easy belt tensioning system

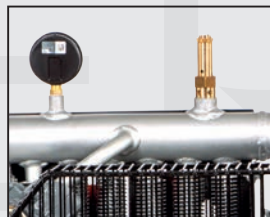
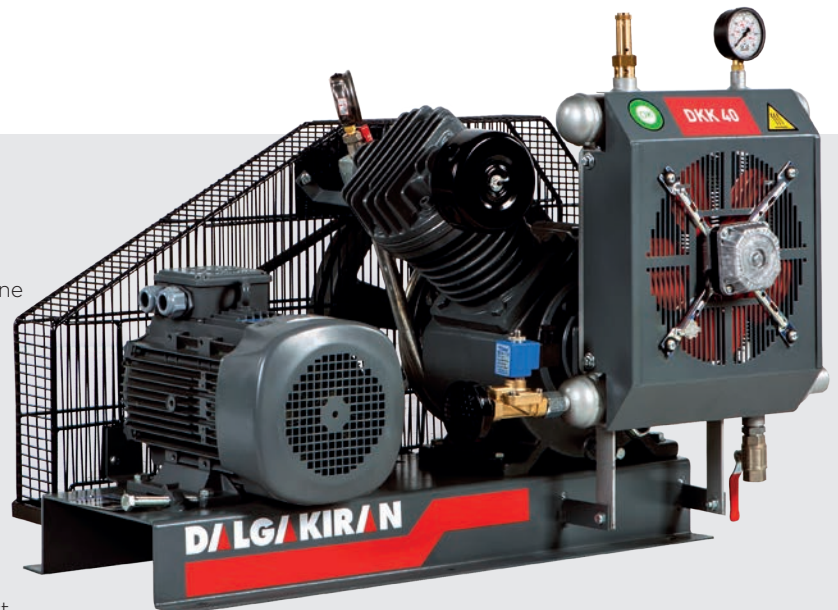


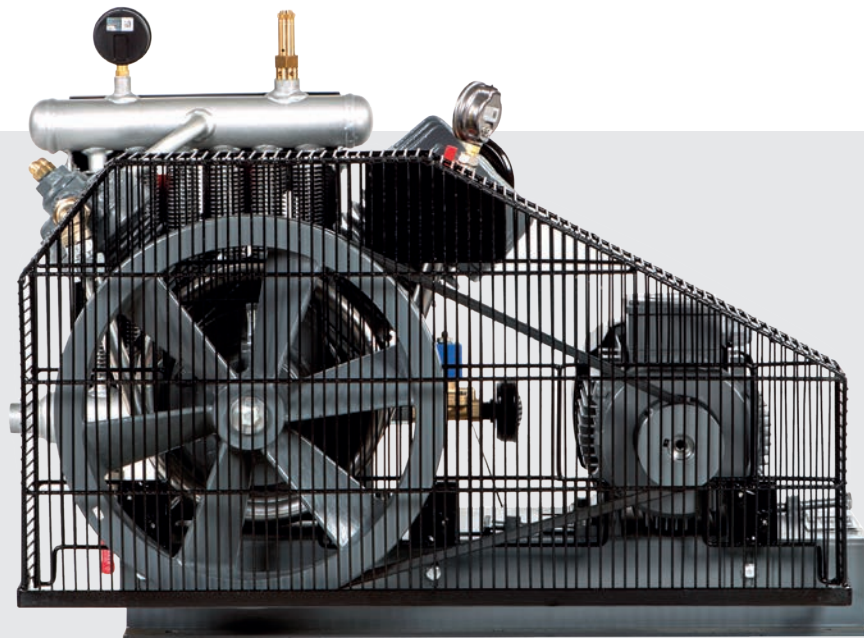
SAFETY SYSTEMS

- Manual discharge valve
- Integrated check valve on the air discharge line
- Belt pulley housing grill
- High pressure switch
- First and second stage safety valves
- Outlet pressure manometer
- First stage pressure manometer

OTHER FEATURES

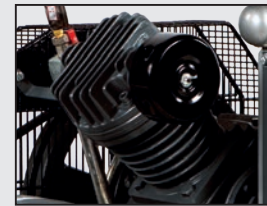
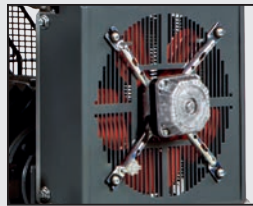
- Turkish and French Lloyd Bureau Veritas type-approval certifications
- Automatic discharge system for loadless start
- Bearings with a long service life
- Outlet air cooling radiator
- Air suction filter and silencer





OPTIONS

- High pressure dryer
- High pressure air tank made of CE certified P265GH pressurized container steel
- Star delta motor starting system
- Main motor with IE4 efficiency class



TECHNICAL DATA

Model	Pressure		Capacity (intake)		Motor Power kW/HP	Connection Size	Dimensions (mm)			Weight kg
	bar	psi	L/min	cfm			Length	Width	Height	
DKK 40	40	580	507	17,9	4/5,5	G 3/4"	933	576	662	153
DKKB 40	40	580	1060	37,4	11/15	G 1"	1312	1213	718	363
DKKB 40A	40	580	1657	58,5	15/20	G 1"	1295	897	832	422

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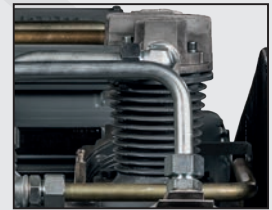
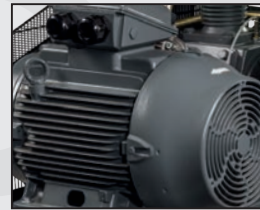


DBK SERIES Reciprocating Booster Air Compressors

DALGAKIRAN pressurizes the air entering the compressor at 7-13 bar up to 40 bars with the DBK series booster compressors in its production range. The DBK series products have been preferred by pet bottle manufacturers for many years and have been successfully used in many companies.

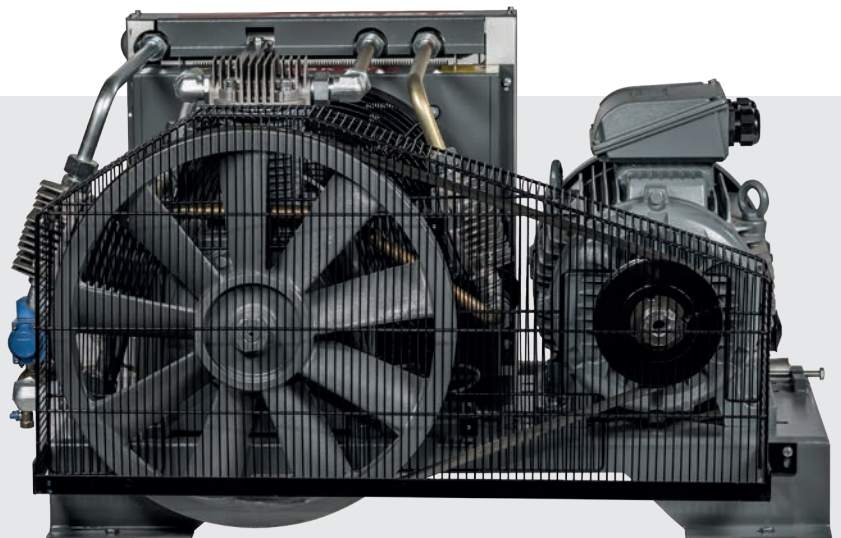
MAIN MOTOR AND DRIVE SYSTEM

- Belt-pulley drive system
- Specially designed fan type cast iron pulley
- Easy belt tensioning system



SAFETY SYSTEMS

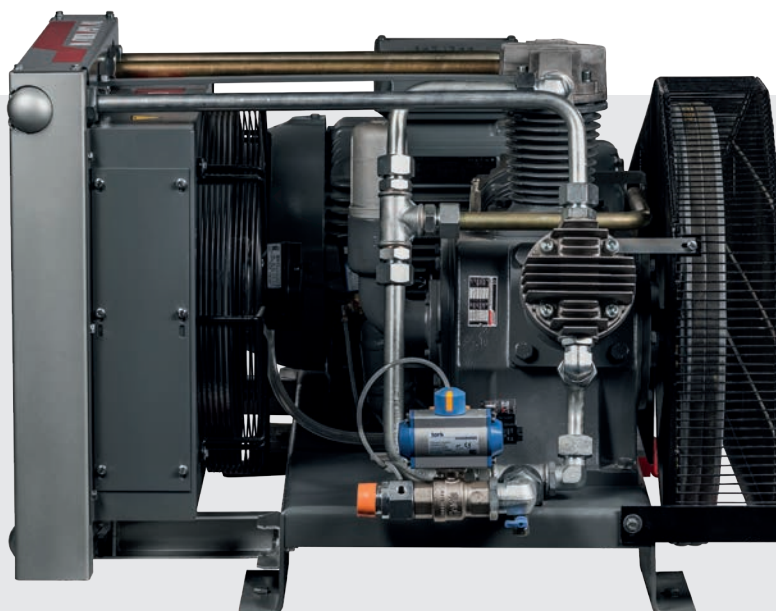
- Intake air control system
- High pressure switch
- Manual discharge valve
- Integrated check valve on the air outlet line
- Belt pulley housing grill
- Outlet pressure manometer
- High pressure relief valve



OTHER FEATURES

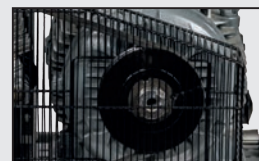
- Automatic discharge system for loadless start
- Bearings with a long service life
- Outlet air cooling radiator
- Loaded-Unloaded operating options
- Air suction filter and silencer for unloaded operation
- Lubrication system with whisking rod
- Oil level gauge
- Special discharge system preventing oil leakage from blowdown valve





OPTIONS

- High pressure air dryer
- High pressure air tank made of CE certified P265GH pressurized container steel (EN 286-1)
- Air filtering system with oil trap
- Food grade oil option
- Main motor with IE4 efficiency class



TECHNICAL DATA

Model	Pressure				Capacity (intake)						Motor Power kW/HP	Connection Size	Dimensions (mm)			Weight kg
	Minimum		Maximum		7 bar (inlet)		10 bar (inlet)		13 bar (inlet)				Length	Width	Height	
	bar	psi	bar	psi	m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm						
DBK 10	15	218	40	580	2,10	74	2,89	102	3,67	130	7,5/10	G 1"	1286	825	753	268
DBK 15	15	218	40	580	2,45	87	3,37	119	4,29	152	11/15	G 1"	1286	825	753	285
DBK 20	15	218	40	580	3,71	131	5,10	180	6,49	229	15/20	G 1"	1357	820	758	300
DBK 25	15	218	40	580	4,90	173	6,73	238	8,57	303	18,5/25	G 1 1/4"	1423	874	736	345
DBK 30	15	218	40	580	5,56	196	7,65	270	9,74	344	22/30	G 1 1/4"	1423	881	736	390
DBK 40	15	218	40	580	6,68	236	9,18	324	11,68	413	30/40	G 1 1/4"	1423	972	736	426

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



PET PLUS SERIES

Reciprocating Booster Compressors

Dalgakiran Pet-Plus new generation booster series compressors are designed to meet all the requirements of the customers with its low energy consumption and compact structure. These compressors may operate continuously at low operating temperatures with their integrated oil pumps and aluminium combo boilers.

ADVANTAGES

- Directly coupled, no loss of power transfer
- Continuous operation with integrated oil pump
- Low output air temperature with aluminium combo radiator
- Coupled power panel and separator



MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled one on one with the elastic coupling

COOLING SYSTEM

- 2-stage radiator (1 stage for air, 1 stage for oil cooling)
- Pre-cooling with valves and cylinders with cooling fins
- Cooling fan directly connected to the main motor

LUBRICATION SYSTEM

- Lubrication of the pistons and pins is performed by the integrated oil pump driven by the main motor.



CONDENSATE DISCHARGE SYSTEM

- Condensation water in the radiator is trapped by the integrated water separator and then it is removed from the system at certain intervals by the solenoid valve.

CABINET DESIGN

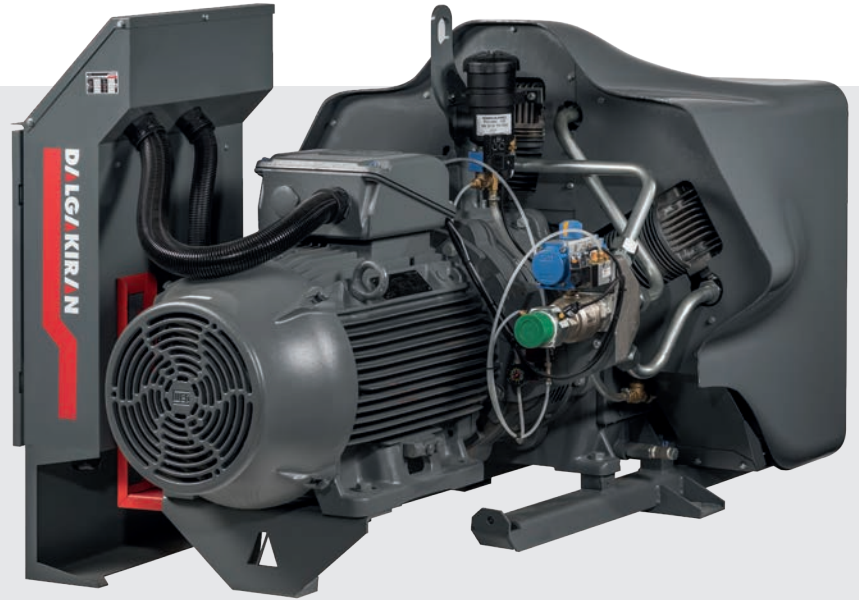
- The lightweight and durable composite cabinet improves cooling performance, protects the upper heads from impact, and protects the operator from moving and hot equipment.

ELECTRICAL SYSTEM

- PLC based control and system monitoring with digital display panel
- Multi-operation up to 8 compressors with optional equal ageing
- Flexible operation with up to 100 user parameters such as input-output air pressure and temperature, minimum operating, minimum oil pressure and maximum operating temperature

OPTIONS

- High pressure air dryer
- High pressure air tank made of CE certified P265GH pressurized container steel
- Air filtering system with oil trap
- Food grade oil option
- Main motor with IE4 efficiency class
- Soft Starter



TECHNICAL DATA

Model	Pressure		Capacity (intake)						Motor Power kW/HP	Connection Size	Dimensions (mm)			Weight kg
	bar	psi	7 bar (inlet)		10 bar (inlet)		13 bar (inlet)				Length	Width	Height	
			m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm						
PET PLUS 25	40	580	4,5	158	6,2	218	7,9	277	18,5/25	1"	1380	1100	1030	450
PET PLUS 40	40	580	7,0	248	9,7	341	12,3	434	30/40	1"	1485	1100	1030	510
PET PLUS 50	40	580	9,7	342	13,3	471	17,01	599	37/50	1 1/2"	1690	1175	1100	745
PET PLUS 60	40	580	11,6	409	16,0	563	20,2	716	45/60	1 1/2"	1690	1175	1100	775

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WAVE SERIES

High Pressure Reciprocating Air Compressors

DALGAKIRAN proudly introduces new generation Wave of high pressure reciprocating compressors taking advancing the DKK series, which were developed in order to be used in all applications requiring high pressure, especially in the maritime sector, where Dalgakiran has shown a keen interest and served from the day of its establishment until today.

MAIN MOTOR AND DRIVE SYSTEM

- Directly coupled with the elastic coupling
- Star delta motor starting system



COOLING SYSTEM

- 4-stage radiator (3 stage for air, 1 stage for oil cooling)
- Pre-cooling with concentric valves with cooling fins
- Cooling fan directly connected to the main motor

LUBRICATION SYSTEM

- Lubrication of the pistons and pins is performed by the integrated oil pump driven by the main motor.



ELECTRICAL SYSTEM

- Flexible operation with multiple user controlled parameters (such as input, output air pressure, temperature, maksimum operating pressure, maksimum oil pressure, maximum operating temperature)
- PLC based control and system monitoring with digital display panel

CONDENSATE DISCHARGE SYSTEM

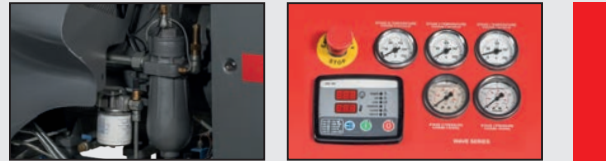
- Condensation water in the radiator is trapped by the integrated water separator and then it is removed from the system at certain intervals by the solenoid valves.

CABINET DESIGN

- The lightweight and durable composite cabinet improves cooling performance, protects the upper heads from impact, and prevent the operator from touching moving and hot equipment.

OPTIONS

- High pressure air dryer
- High pressure air tank made of CE certified P265GH pressurized container steel
- Air filtering system with oil trap
- Food grade oil option
- Main motor with IE4 efficiency class
- Soft Starter



TECHNICAL DATA

Model	Pressure				Capacity (intake)		Voltage Frequency	Motor Power	Connection Size	Dimensions (mm)			Weight	Noise
	Minimum		Maximum							Length	Width	Height		
	bar	psi	bar	psi	L/min	cfm							V/Hz	kW/HP
W 52	40	580	12	174	862	30,5	460/60	11/15	G 1"	1300	1100	1030	425	80
W 64	40	580	12	174	1077	38,1	400/50	11/15	G 1"	1300	1100	1030	411	80
					1445	51,1	460/60	15/20		1580	1175	1100	461	81
W 108	40	580	12	174	1806	63,8	400/50	15/20	G 1"	1580	1175	1100	421	81
					2214	78,2	460/60	22/30					685	83
W 166	40	580	12	174	2767	97,7	400/50	30/40	G 1"	1580	1175	1100	630	83
					2821	99,6	460/60	30/40		1640			772	84
W 210	40	580	12	174	3526	124,5	400/50	37/50	G 1"	1640	1175	1100	680	84

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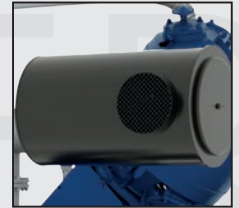

New


PET MASTER Oil-Free Reciprocating Compressors

DALGAKIRAN PET MASTER Series are reliable and high performance oil free reciprocating air compressors used in the pet bottle blowing, food and health industries.

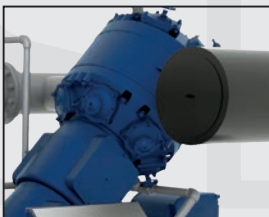
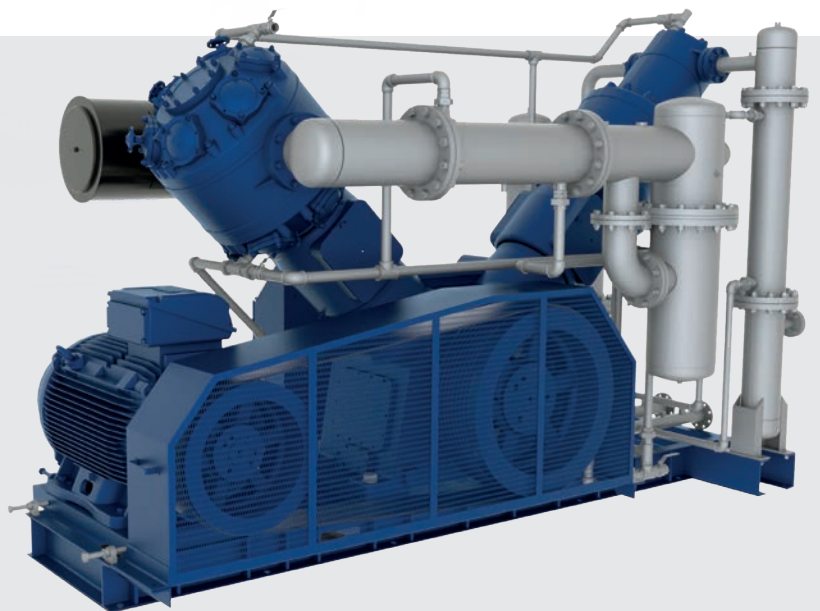
ADVANTAGES

- Pet Master Compressors provide 100% oil-free pressurized air as no oil is used in the compression chamber.
- They operate between 0 and 40 Bar. As they have an integrated structure, they occupy less space and provide ease of installation and installation.



GENERAL SPECIFICATION

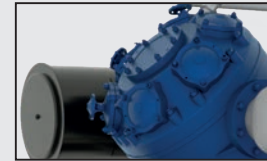
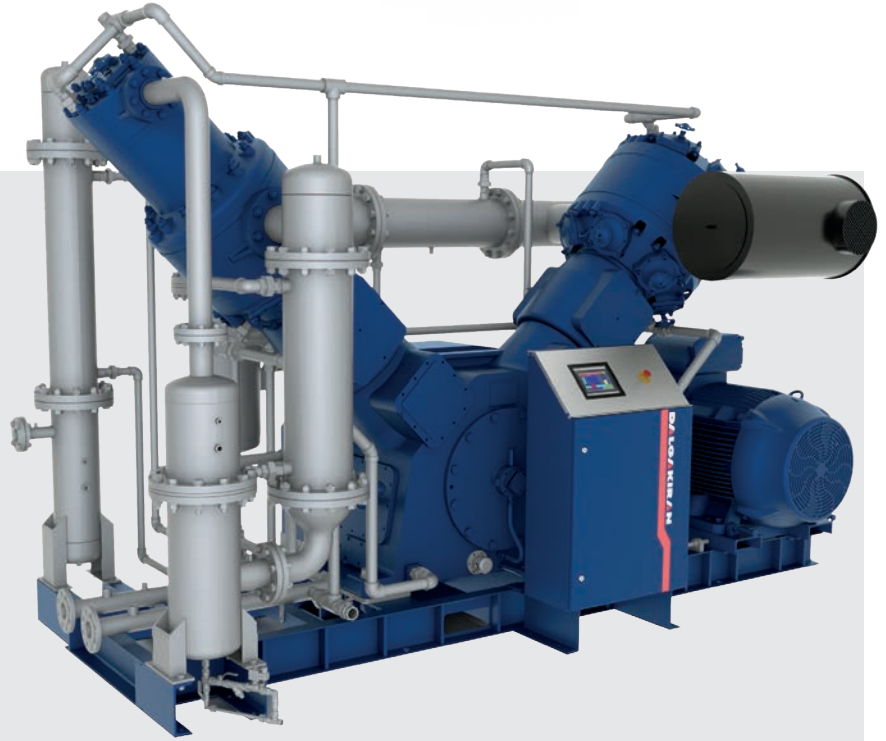
- For intercoolers and aftercoolers, stainless steel pipe is used which is more efficient in terms of heat transfer and more resistant to corrosion.
- The structure of the coolers is designed to transfer air through the pipe and water through the body wall. Thanks to their compact design, pipe-type coolers are easy-to-maintain and their cooling efficiency is high.



- Compressor provides energy saving by operating with Load / Unload control system within maximum and minimum Pressure set values determined according to system requirements.
- The integrated electrical system provides user-friendly operation.

CONTROLLER

- Advanced, high-definition, user friendly 7" color touchscreen
- High speed, industrial type PLC infrastructure with robust construction
- Encrypted Access Protection system with various levels of authorization.
- Display of relevant data on the screen clearly, trend graph recording and active monitoring
- Alarm History Record for the last 100 alarms
- Ethernet / ModBus communication functions as standard
- Remote monitoring and control feature / Compliance with GSM, internet and Industry 4.0
- Flexible programmable/expandable Input /Output structure



TECHNICAL DATA

Model	Pressure		Capacity		Motor Power kW/HP	Connection Size	Dimensions (mm)			Weight kg
	bar	psi	m ³ /min	cfm			Length	Width	Height	
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	9,10	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	23,0	812	220/300	G 2"	4234	2203	2841	9200

Model	Pressure		Capacity				Motor Power kW/HP	Connection Size	Dimensions (mm)			Weight kg
			Minimum		Maximum				Length	Width	Height	
	bar	psi	m ³ /min	cfm	m ³ /min	cfm						
PET MASTER 75 VSD	40	580	4,1	145	5,5	194	55/75	G 1 1/4"	3533	1811	2403	5600
PET MASTER 125 VSD	40	580	6,8	240	9,10	321	90/125	G 1 1/4"	3550	1812	2431	6650
PET MASTER 180 VSD	40	580	10,1	357	13,5	477	132/180	G 2"	4168	1975	2814	7750
PET MASTER 220 VSD	40	580	12,3	434	16,4	579	160/220	G 2"	4168	1975	2814	8000
PET MASTER 300 VSD	40	580	17,3	611	23,0	812	220/300	G 2"	4223	2212	2840	9500

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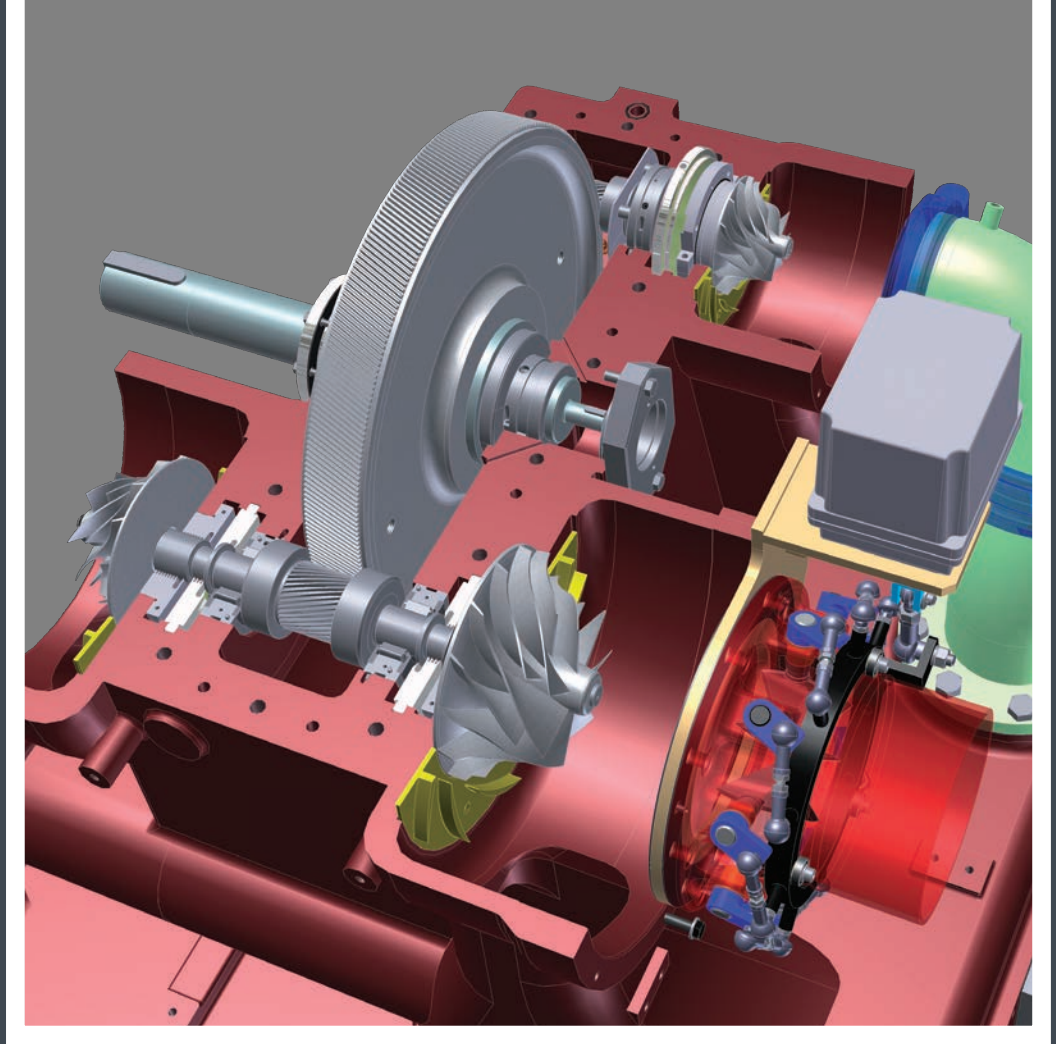
DALGAKIRAN

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TURBO COMPRESSORS





ENERGY SAVING

The use of advanced turbo machine technology provides first class energy efficiency. IHI-Dalgakiran meets stringent energy saving requirements we encounter today with its turbo compressors that offer high level of energy saving.



USER SPECIFIC DESIGN

The requirement for pressurized air in production areas often varies. IHI-Dalgakiran offers optimal solutions for its customers in order to offer the best solution for their manufacturing operations.

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.*



DURABLE BODY

THE GEAR BOX AND AIR COOLERS ARE CAST IN A SINGLE PIECE, AND THEY HAVE A COMPACT AND DURABLE STRUCTURE. COMPRESSOR UNIT AND AIR DUCTS ARE SURROUNDED BY A THICK AND UNWELDED WALL, AND THIS STRUCTURE IS VERY EFFECTIVE FOR REDUCING NOISE.



TITANIUM IMPELLERS

Designed with IHI-Dalgakiran's vast experience and CFD technology, 3D impellers offer the highest level efficiency in the world and a wide operating range to the customers.

With the use of impellers made of titanium (except TRX), you shall not encounter problems such as wear and corrosion.

DIFFUSERS

Speed energy charged to air by the rotation of the impellers is efficiently converted into pressure energy by the diffusers. With CFD technology, diffusers and impellers are analysed together to ensure minimum air turbulence, and thus operation noise is minimized.

IGV (INTAKE GUIDE VANES)

With IGV, the air intake is controlled according to the consumption, furthermore, the efficiency is also increased as the air intake is provided in the same direction as the direction of rotation of the impellers.

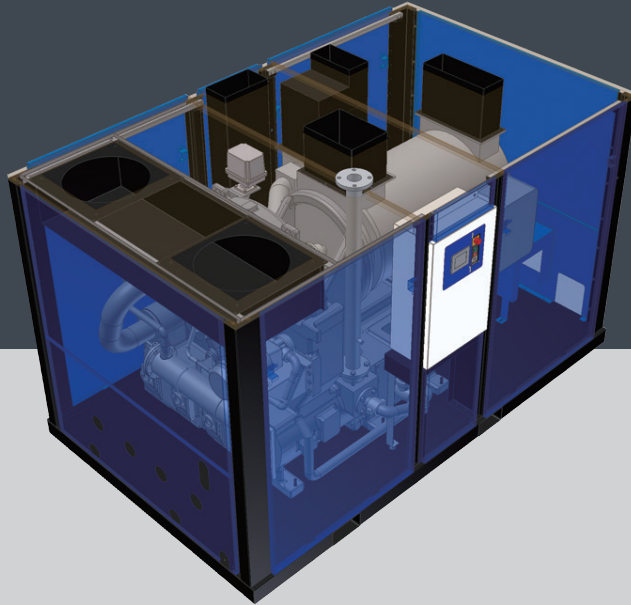
PADDED ROLLER BEARING

Padded roller bearings, which allow high-speed and stable operation, are used. Pads move according to the variation of the bearing load, which ensures perfect adaptation to the load changes in the compressor.

LABYRINTH SEAL

The air and oil seals are labyrinth type and they do not contact the shaft. For this reason, abrasions do not occur and they do not require periodic replacement.





IMPELLER

- Made of titanium and stainless steel, impeller is very resistant to corrosion and abrasion. As a result, it does not require periodic replacement, and thus the maintenance costs are reduced.

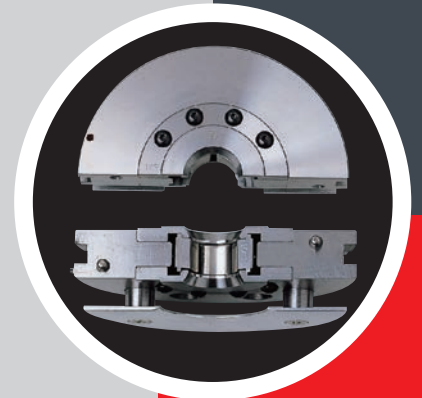


OPTIMUM IMPELLER DESIGN

- Optimum impeller designs prepared to meet your requirements on flow rate and pressure provide energy saving.

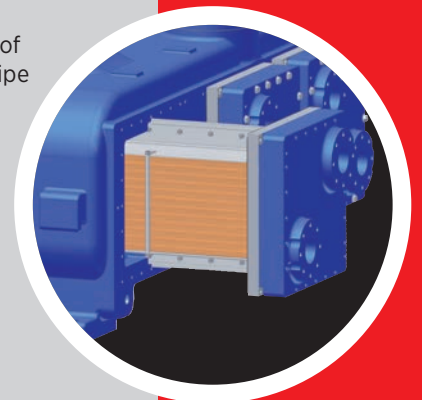
PADDED ROLLER BEARING

- Roller Bearings are used as bearings of impellers rotating at high speed. No abrasion occurs as the bearings are contactless, and the service life of the part is increased significantly.



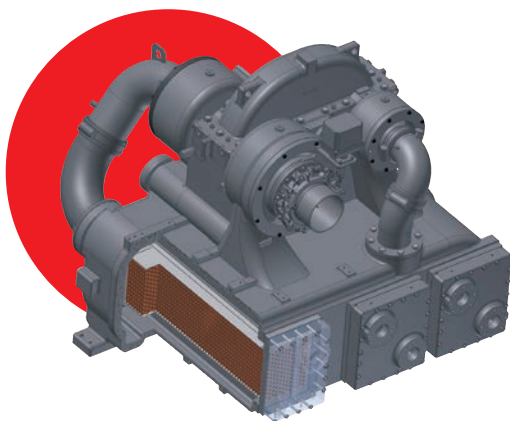
AIR COOLERS (INTERCOOLERS, AFTERCOOLERS)

- The ability of compressors to operate at maximum efficiency for many years is directly proportional to the performance of the coolers used. All IHI Dalgakiran turbo compressors use "copper pipe and copper fin" heat exchangers as standard feature. Thus, it is possible to achieve high cooling performance, and a long service life.



VARIOUS OPTIONS

- We offer different options such as compressor cabinet and group control panel to meet the requirements of our customers.

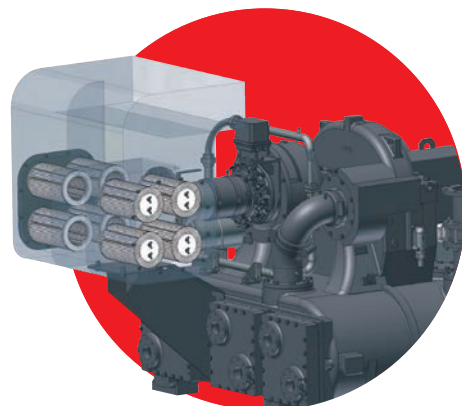


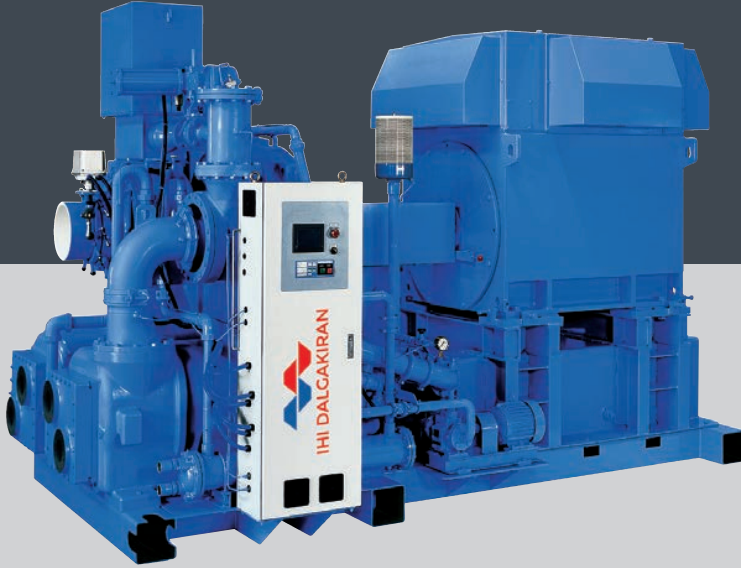
MAIN BODY OF THE COMPRESSOR (SINGLE PIECE GEAR BOX AND AIR COOLERS)

- The gear box and air coolers are cast in a single piece, and they have a compact and durable structure. Thanks to the unique design of the compressor body, noise level is reduced while the pressure losses are also reduced. Moreover, maintenance costs are reduced significantly, too.

SUCTION FILTER

- The cartridge type filter elements used in the suction filter have a very long service life and their maintenance is very easy.





CONTROL PANEL

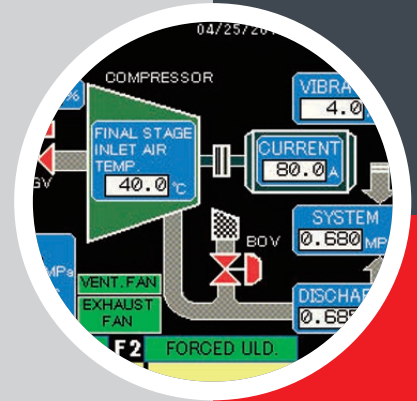
OPERATING CONDITIONS

- Thanks to the easy-to-read graphs of the control panel, it is possible to control the main measurements, data, and operating conditions and it becomes easier to monitor the compressor.



TREND GRAPHIC

- The control panel provides a graphical interface that allows operators to view the main trends to maintain maximum operating conditions and help to plan maintenance routines.

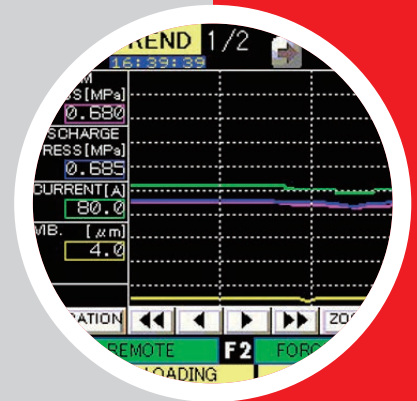


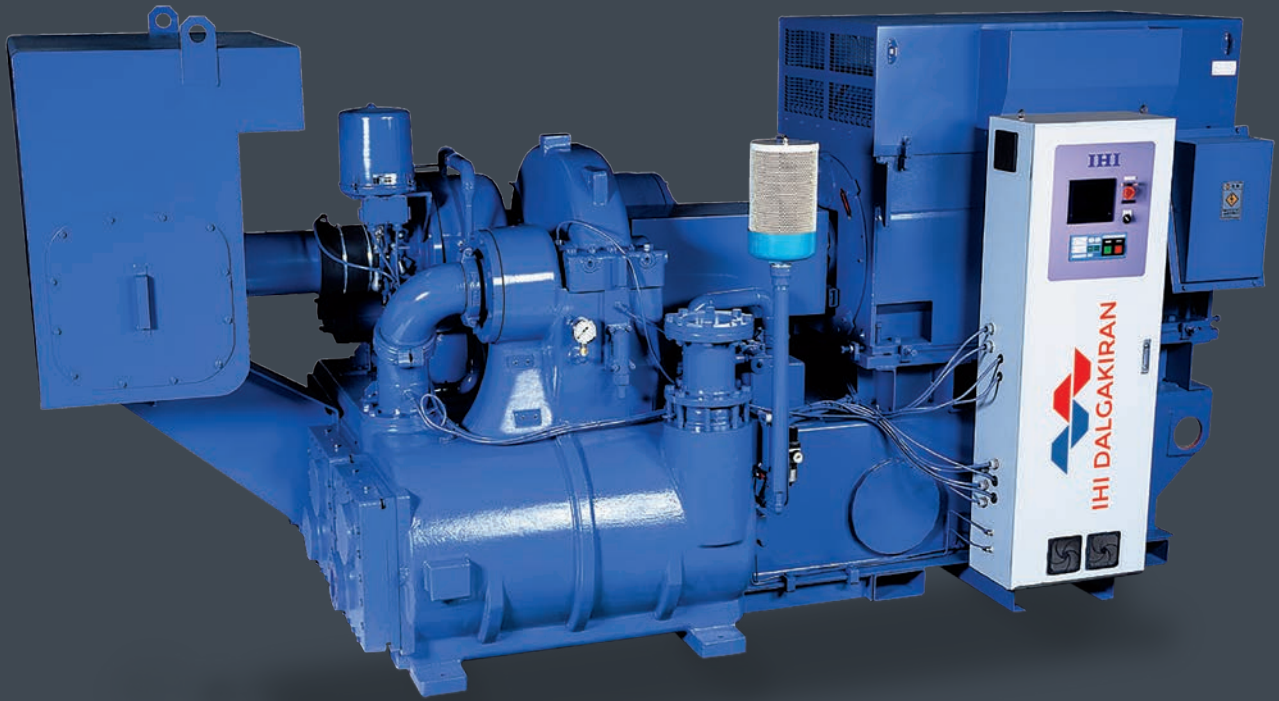
WARNING RECORD SYSTEM

- All values measured by the controller are stored in its memory in case of any warning or error. Thus, an error or a fault is detected and resolved by quickly and easily.

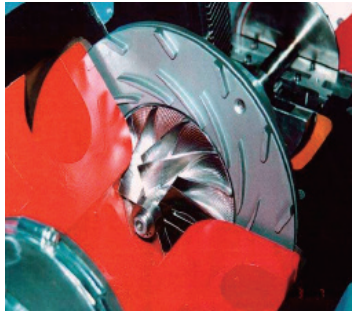
CAUSES AND PRECAUTIONS

- In the event of an error, operator may see faults and possible precautions from the control panel display.



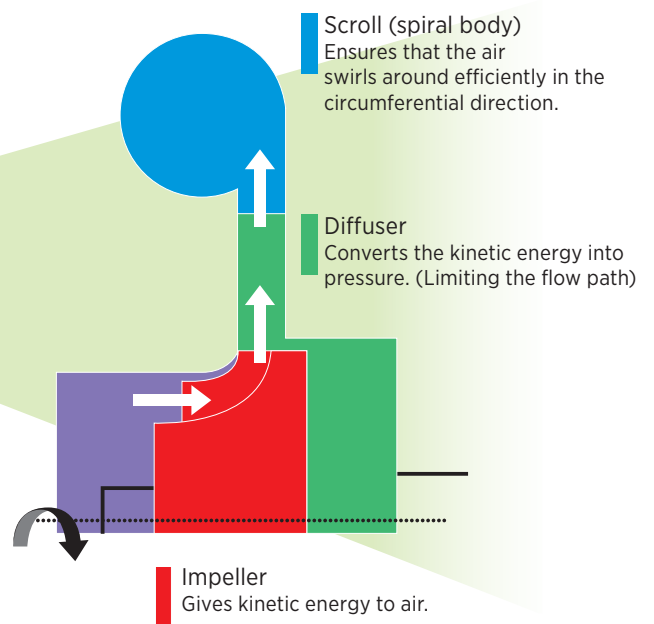


OPERATING PRINCIPLE OF THE TURBO COMPRESSOR



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.

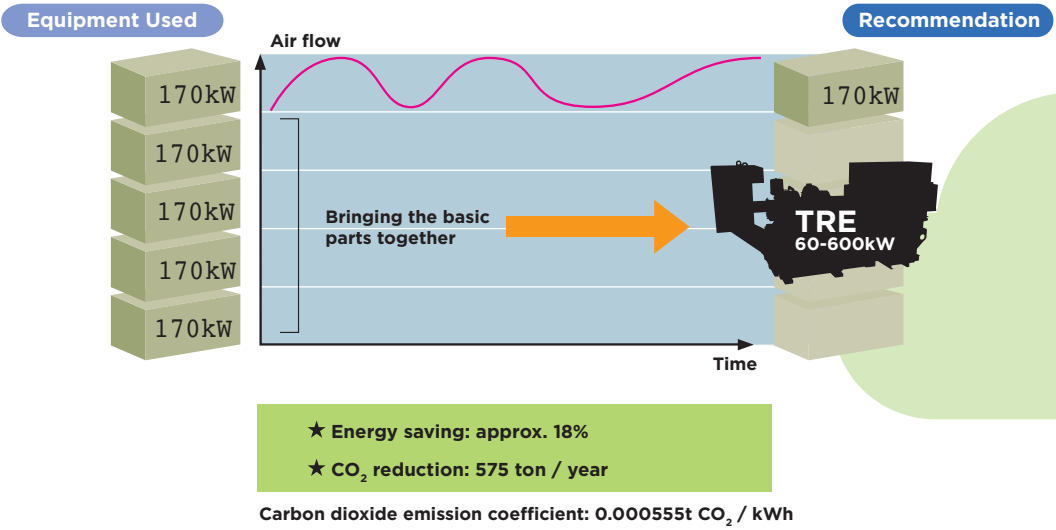
Pressurized air is cooled before entering the next stage with high performance coolers. This results in higher productivity.



SELECTION OF BASIC LOAD MACHINE

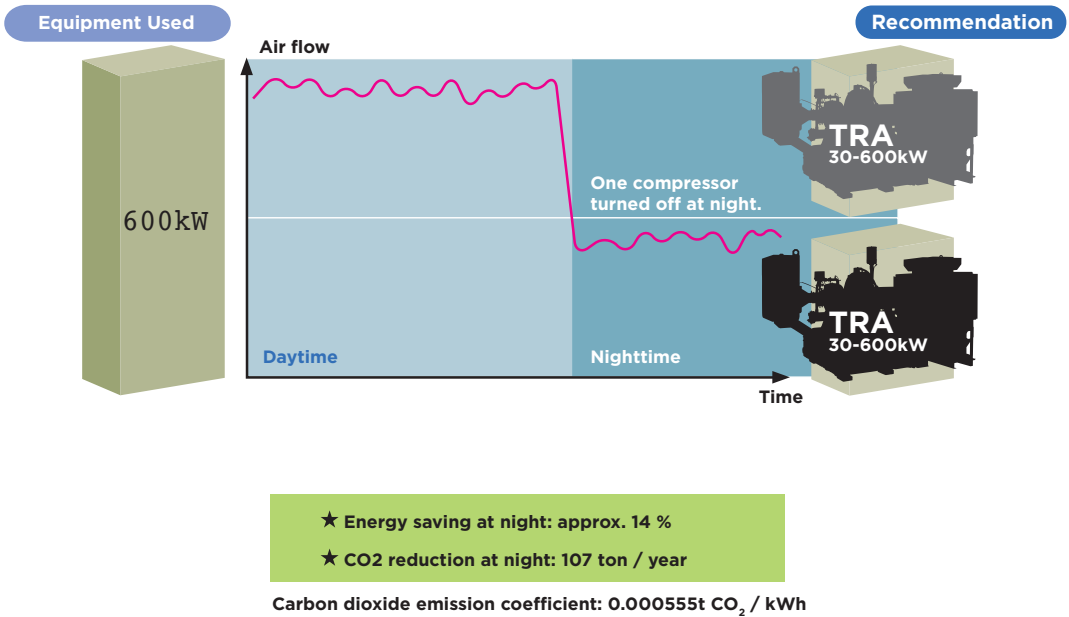
Combination, the case where small and medium-sized compressors are used together with a small amount of air flow fluctuation:

Ex. it is used with one TRE60-600kW compressor is used instead of four oil-free class compressors.



Optimization, the case where a large and powerful compressor is used with a large amount of air flow fluctuation:

Ex. Using two TRA30-300kW compressors instead of an 600kW compressor that operates with a load of 45% at night



Remark: Annual average operating time is taken as 8000 hours.

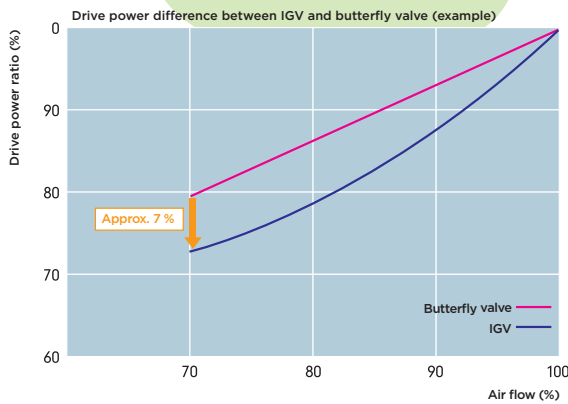
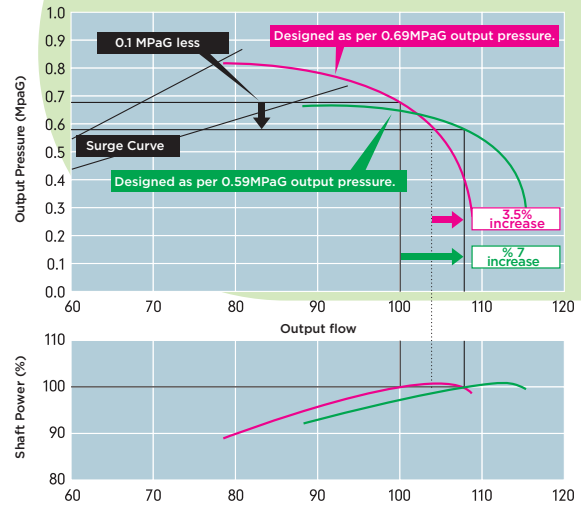
OPTIMAL PRESSURE

IHI-Dalgakiran turbo compressors meet a wide range of pressure requirements.

Output pressure 0.69MPaG (red curve in the figure on the right)
Output pressure 0.59MPaG (green curve in the figure on the right)

Result of the comparison of Case 1 and Case 2: *The flow rate is increased by approximately 3.5%.*

Flow rate is increased about 7% at the same shaft powers.

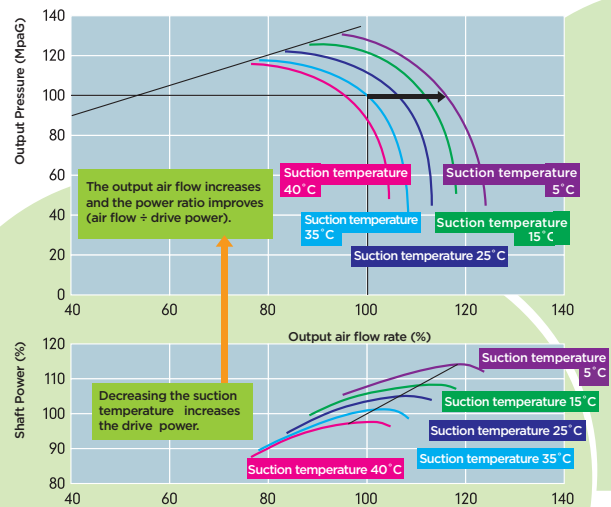


Selection of the control system (IGV's effect on energy saving)

Compressor intake valve (IGV) is angularly moved to reduce the air flow through the impeller. The fact that pressure drops are caused while reducing the flow rate when a butterfly valve is used shows us that the use of IGV is a more effective solution. If the output air flow rate remains constant, dynamic force shall remain at a low level, too.

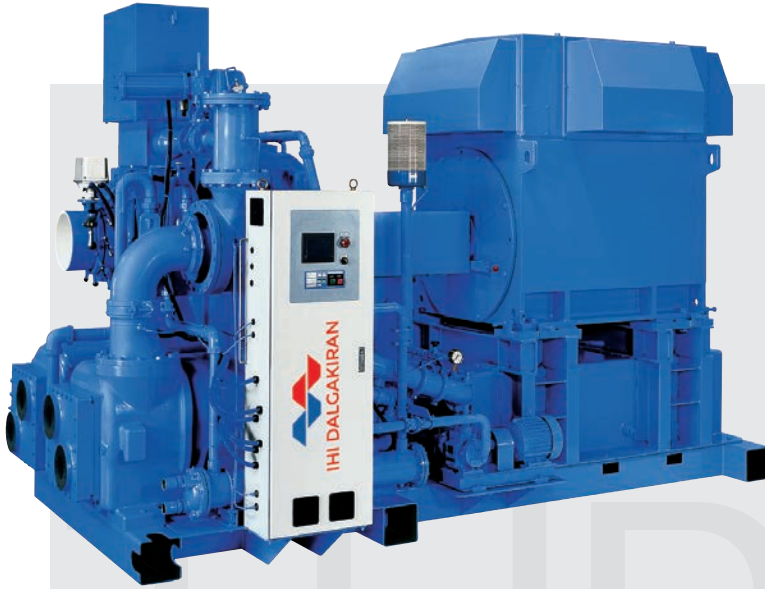
Selection of Air Suction Temperature

IHI-Dalgakiran turbo compressors are designed for severe summer conditions where the ambient temperature is 35 °C and the relative humidity is 80%. Reducing the temperature and the humidity improves the drive power ratio. As a result, the use of external cold air shall save energy.



*If the output flow rate exceeds the maximum capacity, motor overload protection function shall prevent intake of air.

*It is possible to design for high temperatures such as 40 °C for use in tropical areas.

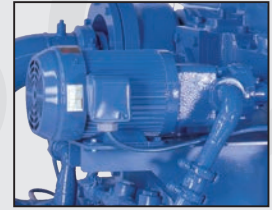

New


TURBO Air Compressors

Turbo compressors represent the latest technology achieved in the production of industrial air compressors.

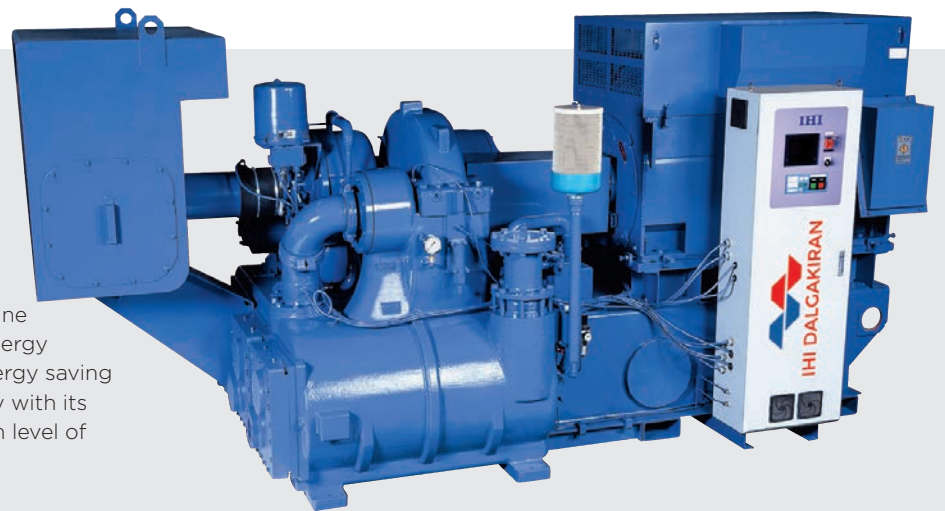
We are proud to manufacture these products in Turkey by the IHI Dalgakiran Makine A.Ş., (joint venture by IHI and Dalgakiran).

The wide range of products offered in terms of capacity and pressure is beyond any competitors and the return on investment times are realized below the average of the industry as very beneficial results in terms of energy efficiency are achieved.



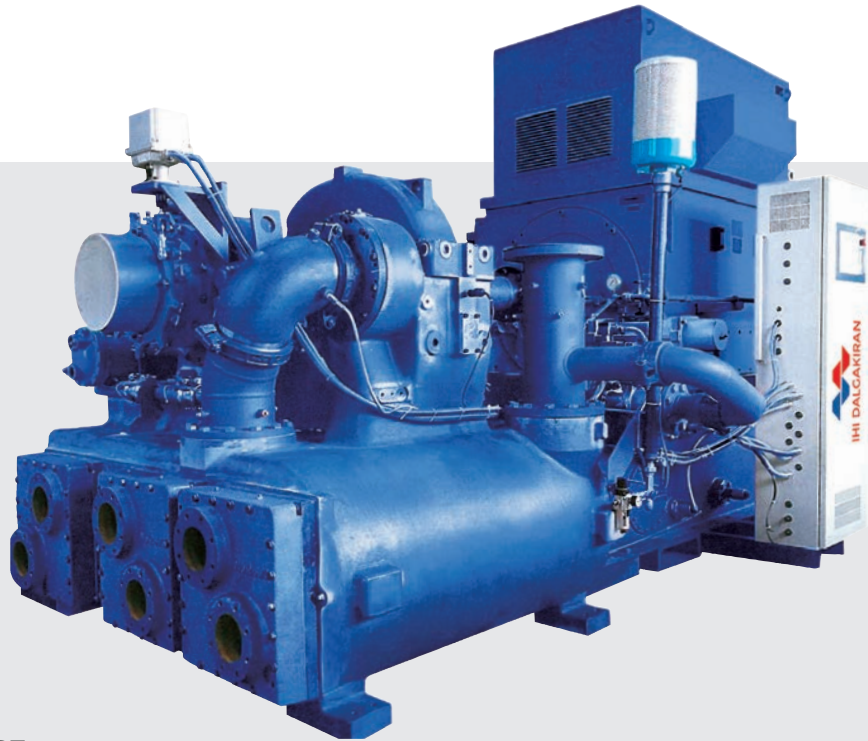
SUPERIOR TECHNOLOGY

- The use of advanced turbo machine technology provides first class energy efficiency. IHI meets stringent energy saving requirements we encounter today with its turbo compressors that offer high level of energy saving.



SINGLE PIECE CAST BODY

- The gear box and air coolers are cast in a single piece, and they have a compact and durable structure. Compressor unit and air ducts are surrounded by a thick and unwelded wall, and this structure is very effective for reducing noise.



EASY MAINTENANCE

- IHI-Dalgakiran turbo compressors are designed and manufactured to be simple and durable in order to reduce maintenance costs. Working hard to simplify maintenance procedures, IHI-Dalgakiran has made it possible to provide stable pressurized air for years with minimal maintenance costs.

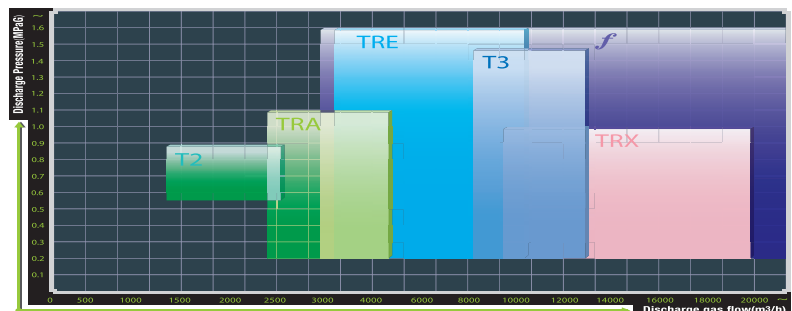


TECHNICAL DATA

MODEL	COMPRESSOR STAGE NUMBER	OUTPUT MAINTENANCE INTERVAL (Bar)	MOTOR (kW)	COMPRESSOR FLOW RATE RANGE (m ³ /h)
T2A	2	5.5-8.8	125	1,394
			230	2,648
TRA 20	2-3	2-11	250	2,470
TRA 50			500	5,100
TRE 30	2-3-4	2-16	375	3,000
TRE 100E			1060	11,000
T3A 50	2-3	2-14	900	3,600
T3A 140			1,420	15,000
TRX 70	2-3	2-10	710	9,000
TRX 180			1,850	21,000

NOTES

- Tables above indicate the flow rate in typical output pressures.
- The flow rates were determined with reference to the following suction conditions.
- Reference conditions:
 - Atmospheric pressure: 0.1013MPa (abs.)
 - Suction pressure: 0.0993MPa (abs.)
 - Suction temperature: 35°C
 - Relative humidity: 80 %
 - Cold water inlet temperature: 35°C



ENERGY RECOVERY SYSTEMS

Fuel Saving After 2000 Hours of Operation

MODEL	Motor Power (kW)	Amount of energy that can be converted to heat	Amount of water that can be heated to 70 °C at different temperatures (m ³ /h)			How much fuel can we save? * 1l: 0.87 Euro		
			Δt: Water flow rate for 50 °C (m ³ /h)	Δt: Water flow rate for 30 °C (m ³ /h)	Δt: Water flow rate for 10 °C (m ³ /h)	Fuel (in liters)	CO2 emission (m ³)	Gain (for 2000 hours) €
TIDY 20 B	15.0	11.25	0.19	0.32	0.97	2535	6914	2,206 €
TIDY 25	18.5	13.875	0.24	0.40	1.19	3127	8527	2,720 €
TIDY 30	22.0	16.5	0.28	0.47	1.42	3718	10140	3,235 €
TIDY 40	30.0	22.5	0.39	0.64	1.94	5070	13827	4,411 €
TIDY 40 B	30.0	22.5	0.39	0.64	1.94	5070	13827	4,411 €
TIDY 50	37.0	27.75	0.48	0.79	2.39	6254	17054	5,441 €
DVK 60	45.0	33.75	0.58	0.97	2.90	7606	20741	6,617 €
DVK 60 B	45.0	33.75	0.58	0.97	2.90	7606	20741	6,617 €
DVK 75	55.0	41.25	0.71	1.18	3.55	9296	25350	8,087 €
DVK 100	75.0	56.25	0.97	1.61	4.84	12676	34568	11,028 €
DVK 100B	75.0	56.25	0.97	1.61	4.84	12676	34568	11,028 €
DVK 125	90.0	67.5	1.16	1.93	5.81	15211	41482	13,234 €
DVK 150	110.0	82.5	1.42	2.36	7.10	18592	50700	16,175 €
DVK 180	132.0	99	1.70	2.83	8.51	22310	60840	19,410 €
DVK 220	160.0	120	2.06	3.43	10.32	27043	73745	23,527 €
DVK 270	200.0	150	2.58	4.29	12.90	33803	92181	29,409 €
DVK 340	250.0	187.5	3.23	5.36	16.13	42254	115227	36,761 €
DVK 430	315.0	236.25	4.06	6.76	20.32	53240	145186	46,319 €

Natural Gas Saving After 2000 Hours of Operation

MODEL	Motor Power (kW)	Amount of energy that can be converted to heat	Amount of water that can be heated to 70 °C at different temperatures (m ³ /h)			How much natural gas can we save? * 1 m ³ : 0.36 Euro		
			Δt: Water flow rate for 50 °C (m ³ /h)	Δt: Water flow rate for 30 °C (m ³ /h)	Δt: Water flow rate for 10 °C (m ³ /h)	Natural Gas (m ³)	CO2 emission (m ³)	Gain (for 2000 hours) €
TIDY 20 B	15.0	11.25	0.19	0.32	0.97	2143	5844	771 €
TIDY 25	18.5	13.875	0.24	0.40	1.19	2643	7207	951 €
TIDY 30	22.0	16.5	0.28	0.47	1.42	3143	8571	1,131 €
TIDY 40	30.0	22.5	0.39	0.64	1.94	4286	11687	1,543 €
TIDY 40 B	30.0	22.5	0.39	0.64	1.94	4286	11687	1,543 €
TIDY 50	37.0	27.75	0.48	0.79	2.39	5286	14414	1,903 €
DVK 60	45.0	33.75	0.58	0.97	2.90	6429	17531	2,314 €
DVK 60 B	45.0	33.75	0.58	0.97	2.90	6429	17531	2,314 €
DVK 75	55.0	41.25	0.71	1.18	3.55	7857	21426	2,829 €
DVK 100	75.0	56.25	0.97	1.61	4.84	10714	29218	3,857 €
DVK 100B	75.0	56.25	0.97	1.61	4.84	10714	29218	3,857 €
DVK 125	90.0	67.5	1.16	1.93	5.81	12857	35061	4,629 €
DVK 150	110.0	82.5	1.42	2.36	7.10	15714	42853	5,657 €
DVK 180	132.0	99	1.70	2.83	8.51	18857	51423	6,789 €
DVK 220	160.0	120	2.06	3.43	10.32	22857	62331	8,229 €
DVK 270	200.0	150	2.58	4.29	12.90	28571	77914	10,286 €
DVK 340	250.0	187.5	3.23	5.36	16.13	35714	97393	12,857 €
DVK 430	315.0	236.25	4.06	6.76	20.32	45000	122715	16,200 €

Electricity Saving After 2000 Hours of Operation

MODEL	Motor power (kW)	Amount of energy that can be converted to heat	Amount of water that can be heated to 70°C at different temperatures (m³/h)			How much electricity can we save? * 1 kWh: 0.07 Euro	
			Δt: Water flow rate for 50 °C (m³/h)	Δt: Water flow rate for 30 °C (m³/h)	Δt: Water flow rate for 10 °C (m³/h)	Power (kW/h)	Gain (for 2000 hours) €
TIDY 20 B	15.0	11.25	0.19	0.32	0.97	11,25	1575 €
TIDY 25	18.5	13.875	0.24	0.40	1.19	13,88	1942,5 €
TIDY 30	22.0	16.5	0.28	0.47	1.42	16,50	2310 €
TIDY 40	30.0	22.5	0.39	0.64	1.94	22,50	3150 €
TIDY 40 B	30.0	22.5	0.39	0.64	1.94	22,50	3150 €
TIDY 50	37.0	27.75	0.48	0.79	2.39	27,75	3885 €
DVK 60	45.0	33.75	0.58	0.97	2.90	33,75	4725 €
DVK 60 B	45.0	33.75	0.58	0.97	2.90	33,75	4725 €
DVK 75	55.0	41.25	0.71	1.18	3.55	41,25	5775 €
DVK 100	75.0	56.25	0.97	1.61	4.84	56,25	7875 €
DVK 100B	75.0	56.25	0.97	1.61	4.84	56,25	7875 €
DVK 125	90.0	67.5	1.16	1.93	5.81	67,50	9450 €
DVK 150	110.0	82.5	1.42	2.36	7.10	82,50	11550 €
DVK 180	132.0	99	1.70	2.83	8.51	99,00	13860 €
DVK 220	160.0	120	2.06	3.43	10.32	120,00	16800 €
DVK 270	200.0	150	2.58	4.29	12.90	150,00	21000 €
DVK 340	250.0	187.5	3.23	5.36	16.13	187,50	26250 €
DVK 430	315.0	236.25	4.06	6.76	20.32	236,25	33075 €





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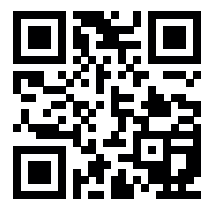
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