OIL-FREE

AIR FOR LIFE

DK20 5X2V/II0





INSTALLATION, OPERATION AND MANTENANCE MANUAL







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IMPORTANT INFORMATION

1. CE MARKING

Products labeled with the CE mark of compliance meet the safety guidelines (93/42/EEC) of the European Union.

2. WARNINGS

2.1. General warnings

- This Installation, Operation and Maintenance Manual is a part of the appliance and must be kept with the compressor. Careful review of this manual will provide the information necessary for correct operation of the appliance.
- The safety of operating personnel and trouble-free operation of the appliance are guaranteed only if original parts are used. Only accessories and parts mentioned in the technical documentation or expressly approved by the manufacturer can be used.
- If any other accessories or consumable materials are used, the manufacturer cannot be held responsible for the safe operation of the appliance. This guarantee does not cover damages originating from the use of accessories or consumable material other than those specified or suggested by the manufacturer.
- The manufacturer guarantees the safety, reliability and function of the appliance only if:
- Installation, new settings, amendments, extensions and repairs are performed by the manufacturer or its representative, or a service provider authorized by the manufacturer
- The appliance is used in accordance with this Installation, Operation and Maintenance Manual
- The manufacturer reserves all rights for the protection of its wiring diagrams, methods and names.
- Translation of Manual for Installation, Operation and Maintenance is carried out in accordance with the best knowledge. In the case of ambiguities, the Slovak version of the text prevails.

2.2. General safety warnings

The manufacturer developed and designed the equipment in such a way so that any risks were excluded if it is used according to intention. The manufacturer considers it to be its obligation to describe the following safety measures in order to exclude residual damages.

- Operation of the appliance must be in compliance with all local codes and regulations.
- Original packaging should be kept for the return of the appliance. Only the original packaging ensures protection of the appliance during transport. If it is necessary to return the appliance during the guarantee period, the manufacturer is not liable for damages caused by improper packaging.
- Each time the appliance is used, the operator must make sure that it is functioning correctly and safely.
- The user must fully understand the operation of the appliance.
- The product is not intended for operation in areas with a risk of explosion.
- If any problem occurs during use of the appliance, the user must inform his supplier immediately.

2.3. Electrical system safety warnings

- The appliance must be connected to earth (grounded).
- Before the appliance is plugged in, make sure that the mains voltage and mains frequency stated on the appliance are the same as the power mains.
- Prior to putting into operation it is necessary to check for possible damage of the equipment and connected air and electric distributions. Damaged pneumatic and electric lines must be immediately replaced.
- Immediately disconnect the appliance from the mains (pull out mains plug) if a technical failure occurs.
- During repairs and maintenance, ensure that:
 - The mains plug is pulled out from the socket
- Pressure pipes are vented and pressure is released from the air tank.
- The appliance must be installed by an approved, qualified technician.



3. ALERT NOTICES AND SYMBOLS

In the Installation, Operation and Maintenance Manual and on packaging and product, the following labels or symbols are used for important information:

	Information, instructions and cautions for the prevention of damage to health or materials
\bigwedge	Caution! Dangerous electrical voltage
ÍÌ	Read the user manual!
CE	CE mark of compliance
	Compressor is remote-controlled and may start without warning
	Caution! Hot surface
	Earth (ground) connection
Å	Terminal for ground connection
	Fuse
~	Alternating current
Ţ	Handling mark on package – FRAGILE
<u><u>†</u>†</u>	Handling mark on package – THIS SIDE UP
Ť	Handling mark on package – KEEP DRY
X	Handling mark on package – TEMPERATURE LIMITATIONS
Ø□∎	Handling mark on package – LIMITED STACKING
E.	Mark on package – RECYCLABLE MATERIAL

4. STORAGE AND TRANSPORT

The compressor is shipped in cardboard that protects the appliance from damage during transport.



Caution! For transport, always use the original packaging and secure the compressor in the upright position.



Protect the compressor from humidity and extreme temperatures during transport and storage. A compressor in its original packaging can be stored in a warm, dry and dust-free area. Do not store near any chemical substances.



Keep packaging material if possible. If not, please dispose of the packaging material in an environmentally friendly way and recycle if possible.



Caution! Before moving or transporting the compressor, release all the air pressure from the tank and hoses and drain the condensed water.

	DK50 2V	DK50 2VS	DK50 2V/110	DK50 2V/110S	DK50 2x2V/110	DK50 2x2V/110S
Nominal voltage / (*)	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
frequency	230 / 60	230 / 60	230 / 60	230 / 60	230 / 60	230 / 60
V / Hz	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50	3x400/50
Efficiency of compressor at over- pressure 5 bar Lit.min ⁻¹	140	140	140	140	280	280
Efficiency of compressor with dryer at over-pressure 5 bar Lit.min ⁻¹	115	115	115	115	215	215
Efficiency of compressor with KJF at over-pressure 5 bar Lit.min ⁻¹	140	140	140	140	280	280
Maximal current	7.5	7.7	7.5	8	15	15.5
	8.5	8.7	8.5	9	17	17.5
A	4.5	4.7	4.5	5.0	9.0	9.5
Maximal current of compressor	7.8	8	7.8	8.3	15.3	15.8
with dryer	8.8	9	8.8	9.3	17.3	17.8
Α	4.7	4.9	4.7	5.2	9.2	9.7
Motor performance kW	1.1 1.2***	1.1 1.2***	1.1 1.2***	1.1 1.2***	2x1.1 2x1.2***	2x1.1 2x1.2***
Air tank capacity Lit.	25	25	110	110	110	110
Pressure range bar	5,0 – 7,0	5,0 – 7,0	5,0 - 7,0	5,0 - 7,0	5,0 - 7,0	5,0 - 7,0
Maximum operating pressure of safety valve bar	8,0	8,0	8,0	8,0	8,0	8,0
Sound level L _{pfA} [dB]	71	53	71	52	73	53
Mode of operation of compressor or compressor with s KJF	continual S 1	continual S 1	continual S 1	continual S 1	continual S 1	continual S 1
Mode of operation of compressor with dryer	continual S 1	continual S 1	continual S 1	continual S 1	continual S 1	continual S 1
Condensation unit	KJF-1	KJF-1	KJF-1 / KJF-2	KJF-1 / KJF-2	KJF-2	KJF-2
Dimensions of compressor / of compressor with dryer w x l x h mm	460x460x690/ 460x535x690	560x665x860	1090x425x815/ 1085x640x815	1200 x 720 x 990	1090x425x815/ 1085x640x815	1200 x 720 x 990
Weight of compressor / of compressor with dryer kg	52 / 57	88 / 94	70 / 78	145 / 153	98 / 120	173 / 196
Drying point of compressor Atmospheric condensation point	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C
Version EN 60 601-1			Appliance of t	type B, class I		

(*)

When ordering, please specify the version of the compressor Weight of compressor with KJF1 increases about 3kg, with KJF2 increases about 4kg

Air outgoing from KJF is filtered using 5µm filter (***) Applicable for voltage version of 3x400/50

Climatic conditions during storage and transport Temperature : –25°C to +55°C, 24 h to +70°C Relative air humidity : 10% to 90 % (no condensation) Climatic operation conditions Temperature : +5°C to +40°C Relative air humidity : 70%

5.1. FAD efficiency correction for differences in elevation

FAD correction table

Elevation [mamsl]	0 - 1500	1501 - 2500	2501 - 3500	3501 - 4500
FAD [l/min]	FAD x 1	FAD x 0.8	FAD x 0.71	FAD x 0.60

FAD efficiency refers to conditions at an elevation of 0 mamsl:

Temperature: 20°C Atmospheric pressure: 101325 Pa Relative humidity: 0%



6. PRODUCT DESCRIPTION

6.1. Model variations and their uses

Compressors are the source of clean, oil-free compressed air used to drive dental appliances and equipment.

Compressors models are designed for the following uses:

Dental compressors DK50 2V - are designed for independent placement of the compressor in any area.

Dental compressors DK50 2V/K - are designed for independent placement of the compressor in any area and feature a condensation and filtration unit (KJF1).

Dental compressors DK50 2V/M - are designed for independent placement of the compressor in any area and feature a membrane dryer.

Dental compressors DK50 2VS - feature soundproof boxes suitable for placing in the dentist's surgery.

Dental compressors DK50 2VS/K - feature soundproof boxes with a condensation and filtration unit (KJF1).

Dental compressors DK50 2VS/M - feature soundproof boxes and a membrane dryer.

Dental compressors DK50 2V/110 and DK50 2x2V/110 - These compressors can be situated in areas where their operation and noise will not disturb their immediate surroundings. They are capable of providing compressed air for several dentists' surgeries.

Dental compressors DK50 2V/110/K and **DK50 2x2V/110/K** - are equipped with a condensation and filtration unit.

Dental compressors DK50 2V/110/M and DK50 2x2V/110/M - are equipped with a membrane dryer.

Dental compressors DK50 2V/110S and DK50 2x2V/110S - are placed in compact soundproof boxes and are capable of providing compressed air for several dental units.

Dental compressors DK50 2V/110S/K and **DK50 2x2V/110S/K** - are placed in compact soundproof boxes and are equipped with a condensation and filtration unit.

Dental compressors DK50 2V/110S/M and **DK50 2x2V/110S/M** - are placed in compact soundproof boxes and are equipped with a membrane dryer.

Box S110 - serves for the decrease of level of compressor noise. Case with compressor may be placed directly in the dental consulting room or laboratory as the part of dental furniture.



DK50 2V



DK50 2VS

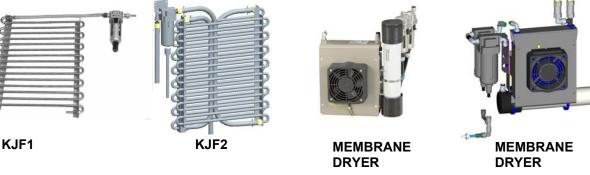
DK50 2x2V/110



DK50 2V/110



DK50 2V/110S DK50 2x2V/110S





Without additional filtration equipment, the compressed air from a compressor is not suitable for the operation of breathing appliances or similar equipment.



7. FUNCTION

Compressor (Fig.1, Fig.2)

The compressor (1) draws in air through a filter (8) and compresses it through a check valve (3) into an air tank (2). The connected apparatus draws the compressed air from the air tank until the pressure drops to a default preset level on the air-pressure switch (4) switching the compressor on. The compressor again compresses air into the nozzle until the maximum pressure is reached and the compressor switches off. After compressor aggregate is switched off, pressure hose shall be pressure-release solenoid valve (13). Safety valve (5) prevents the pressure in air chamber from rising above the maximal allowed value. The drain valve (7) releases the condensate from the air nozzle. Compressed, clean air free from oil traces is stored in the air tank ready for use.

Compressor with membrane dryer (Fig.3, Fig.4)

The compressor unit (1) pulls in outside air through the inlet filter (8) and compresses it through the cooler (15), filter (17) and micro-filter (16) to the dryer (9) and on through the check valve (3) as dry clean air in the air tank (2). Condensate from the filter and micro-filter is automatically drained into the collection vessel. The dryer provides continuous drying of the compressed air. Dry, clean compressed air free from oil traces is stored in the air tank ready for use.

Compressor with condensation and filtration unit KJF1, KJF2 (Fig.5)

The compressor (1) draws in air through a filter (8) and compresses it through a check valve (3) into an air tank (2). The compressed air from the nozzle flows through a cooler (10) that cools the compressed air. The condensed moisture is trapped in the filter (11) and automatically separates as condensate (12). Dried, clean compressed air, free from oil traces, is ready for use.

Compressor box (Fig.6, Fig.7)

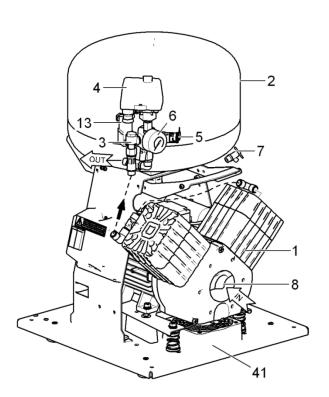
The box is soundproof and allows sufficient exchange of cooling air. It can be placed in a dentist's office. The fan under the compressor aggregate and the box fan(s) ensure compressor cooling. The fans run simultaneously with the compressor motor or when the temperature in the compressor environment increases over 40°C. After the space in the casing cools down under ca 32°C, fans shall get automatically switched off. Door of the casing with right opening may be changed to left opening (see Chapter 9).



Make sure that nothing impedes the free flow of air under and around the compressor. Never cover the hot air outlet on the top back side of the case.

If placing the compressor on a soft floor such as carpet, create space for ventilation between the base and floor or the box and floor, e.g. underpin the footings with hard pads.

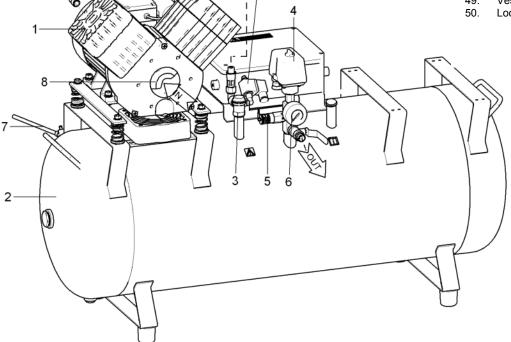
Fig.1 – Compressor



20

Fig.2 - Compressor

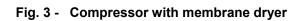
- Compressor motor 1.
- Air tank
- 2. 3. 4. Check valve
- Pressure switch
- 5. Safety valve Manometer
- 6. 7. Drain valve
- 8. Input filter
- 9. Dryer
- 10. Pipe cooler
- Output filter 11.
- Condenser outlet 12.
- 13. Solenoid valve
- 14. Check valve
- 15. Cooler
- Micro-filter 16.
- 17. Filter
- Check valve 18.
- Box fan 19.
- 20. Screw M5
- 21. Box gas springs
- Bottle 22.
- 23. Drain valve
- 24. Fitting of output pressure hose
- 25. Box
- 26. Lock
- 27. Connecting reinforcement
- 28. Wall stopper
- Switch 29.
- 30. Manometer
- 31. Magnetic bottle holder
- 32. Door hinge
- Wheels 33.
- 34. Socket on the box
- 35.
- 36.
- Stopper Hose PUR ø8 /ø6 Screwing with a tap 37.
- 38. Straight screwing
- Power supply cord Hose of manometer 39.
- 40.
- Compressor Fan 41.
- 42.
- Angular screwing ¼"M-8/6" Angular screwing 3/8" MF Rectification screw 43.
- 44.
- 45. Door pin
- 46.
- 47.
- Compressor handle Handle S110 Magnetic bottle holder S110 48.

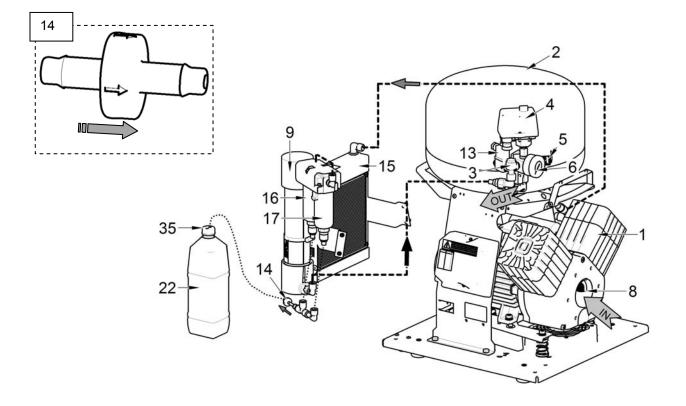


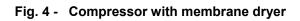
13

- 49. Lock S110
- Vessel S110









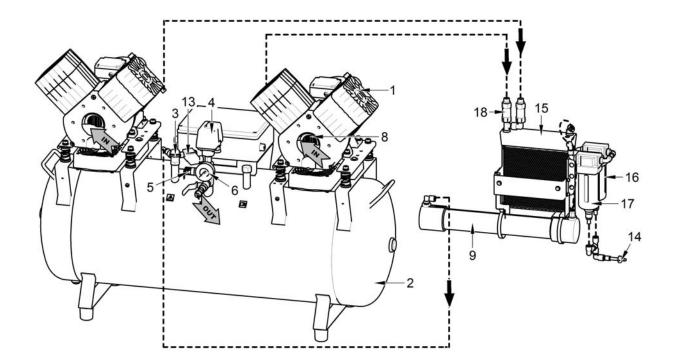




Fig.5 - Compressor with condensation and filtration unit KJF

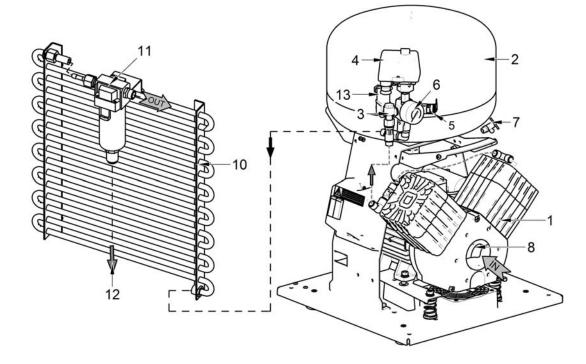


Fig.6 - Box

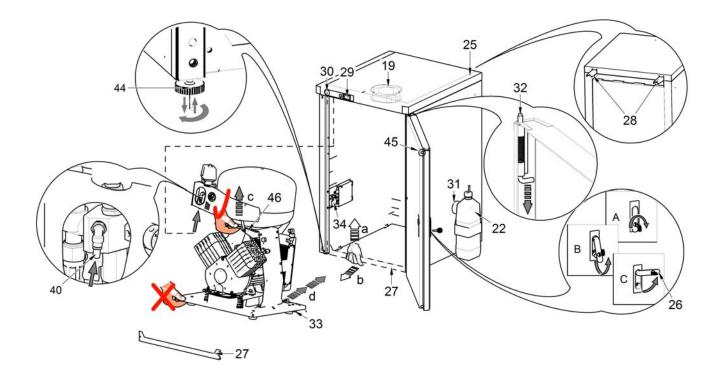
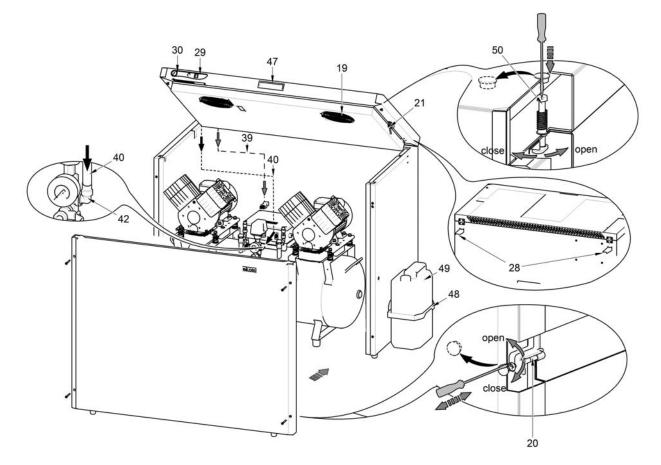
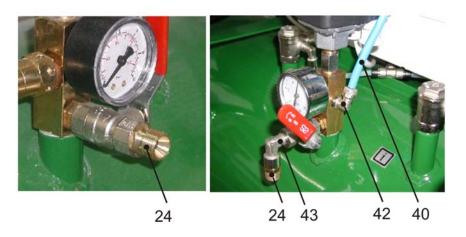




Fig.7 - Box S110









INSTALLATION

8. USE

- The appliance must be installed and operated in a dry, well ventilated and dust-free area where ambient temperature is within the range of +5°C to +40°C and relative air humidity does not exceed 70%. Otherwise, failure-free operation of the compressor cannot be guaranteed. The compressor must be installed so that it is accessible at all times for operation and maintenance. Please ensure that the appliance label is accessible.
- The appliance must stand on a flat, sufficiently stable base. See paragraph 5 (Technical data) when positioning or lifting the compressor.
- Compressors cannot be exposed to outdoor environments. The appliance cannot be used in moist or wet environments. Do not use the compressor in the presence of explosive gases, dust or combustible liquids.
- Before connecting the compressor to medical equipment, the supplier must confirm that it meets all requirements for its use. Refer to the technical data of the product for this purpose. When a unit is to be built-in, classification and evaluation of compatibility must be done by the manufacturer or supplier of the product to be used.
- Any use other than that described in this manual is not covered by the guarantee, and the manufacturer is not liable for any damages that may result. The operator/user assumes all risk.

9. INSTALLATION



Only qualified personnel can install and start up the appliance and train operating personnel in its correct use and maintenance. Installation and training of all operators shall be confirmed by the installer's signature on the certificate of installation.



Prior to installation, ensure that the compressor is free of all transport packaging and stabilizers to avoid any risk of damage to the product.

Caution! When in operation, the compressor is hot. Burns or fire may result if contact is made by the operator or any flammable material.

Electric cord for connection to electric mains and air hoses may not be broken. The power cord may not be exposed to pulling, pressure and excessive heat.

9.1. Placement of the compressor

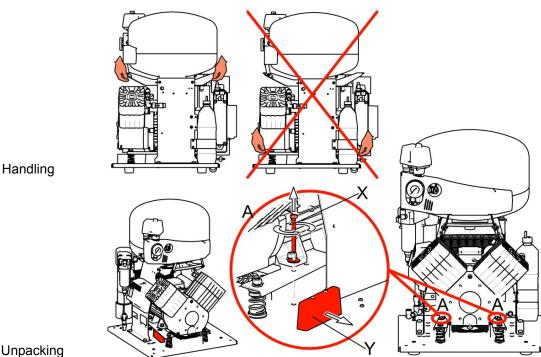
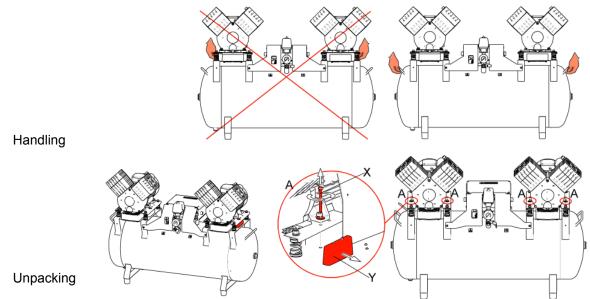


Fig.8 Unpacking



Dental compressor DK50 2V, DK50 2V/110, DK50 2V/110/M, DK50 2x2V/110, DK50 2x2V/110/M (Fig.8)

After removing all packaging material, place the product on the floor and remove stabilization parts X and Y (Detail A). Connect output hose with end-piece to the appliance. Plug the mains cord plug into a socket. Place the drain hose into a container prepared in advance.

Dental compressor DK50 2V/M (Fig.8)

Fig.9

After removing all packaging material, place the product on the floor and remove stabilization parts X and Y (Detail A). Connect output hose with end-piece to the appliance. Plug the mains cord plug into a socket. Connect the condensate drain hose to the vessel (22). Install the tank into the bracket on the compressor.

Dental compressor in box DK50 2VS (Fig.6, Fig.8)

After removing all packaging material, place the product on the floor and remove stabilization parts X and Y (Detail A). Place the wall-mounted stopper (28) - 2 pcs onto the compressor housing in the rear top part of the housing and put the housing onto a required place. The stoppers provide a sufficient distance of the housing from a wall for thorough ventilation. For setting up the compressor in housing you must open the door on the housing using the attached key and remove connecting reinforcement (27) in the front bottom part of housing. If necessary, the door may be disassembled using door hinge (32). Connect the compressor via distributions prepared in advance in a floor according to the installation plan or via holes in the rear part of the housing (Fig.10). Protrude pressure hose via a hole in housing and connect it to the appliance in a suitable way. Grasp the compressor at its handle and put it into the casing using built-in wheels (33). Fix the hose (40) of a manometer (30) in a hose into the fast-on coupling on a compressor, put the connecting reinforcement (27) back and connect the pressure hose to a compressor. Insert the electric power cord of a compressor into a socket (34) on a housing. By slight rotation of rectification screws (44) set the correct position of door against the casing frame. When closing the door the pin (45) on the door must easily snap in the opening in the casing frame. Close the housing doors and duly lock the lock (26). Connect the mains plug into the mains socket.

It is not allowed to leave the key in a lock! It must be saved against non-instructed persons!

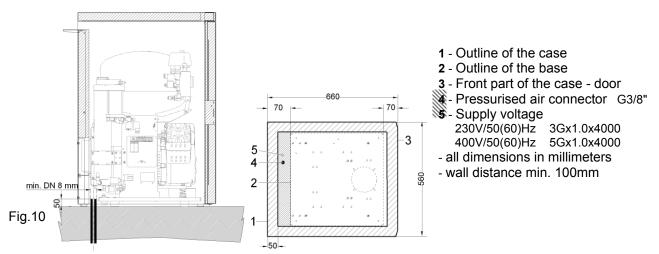
Dental compressor in box DK50 2VS/M (Fig.6, Fig.8)

After removing all packaging material, place the product on the floor and remove stabilization parts X and Y (Detail A). Place the compressor into housing similarly as in the previous paragraph. Prior to placing the compressor into housing, protrude house for condensate drain via hole in housing and connect it to a bottle (22). Magnetic holder (31) with a vessel (22), for entrapping the condensate from the dryer may be fitted onto any vertical part of casing, or from front on its door. When fixing the holder with a vessel at the housing side it is necessary to consider a space of at least 11 cm between the housing and furniture. Distance smaller than the specified one may cause problem with handling of the vessel.



The vessel (22) must always be installed so that the lower section is near the floor; any other installation may damage the dryer!





Dental compressor in box DK50 2V/110S, DK50 2x2V/110S(Fig.7, Fig.9)

After removing all packaging material, place the product on the floor and remove stabilization parts X and Y (Detail A). Place the wall-mounted stopper (28) - 2 pcs onto the compressor housing in the rear top part of the housing and put the housing onto a required place. The stoppers provide a sufficient distance of the housing from a wall for thorough ventilation. Dismount the door, fixed using 4 screws M5 (20) located in the tapered edges of the door and disconnect earthing wire. If necessary, the top panel of the housing may be opened by releasing the locks (50) by moderate rotation of screw driver according to pictogram and lifting using a handrail (47). Gas springs (21) hold it in an open position. Insert the compressor into the housing so that the compressed air outlet was oriented towards the operators and so that a gap of at minimally 50 mm was between electric motor and plastic foam on the rear panel of the housing. Orientate the output pressure hose to the rear part of the compressor. Connect the connecting cable (39) of the box into the electrical panel by means of five-pin WINSTA connector. Place the threaded joint with a tap (37) into the hole on the side of the housing and place PA hose with Ø8 / Ø6 (36). Blind the hole on the opposite side of the housing with a plug with Ø16.5. (Selection of the side for placing treaded joint with a tap depends upon the decision of a customer). Remove tap for the drainage of condensate (23) from air chamber (bonded joint) and to replace it with straight fitting Ø8 - 1/4" (38) (bond). The other end of the hose (36) place into the straight threaded joint (38) on the air chamber. Place a hose (40) leading from manometer into the angular threaded joint (42) on the air chamber. Protrude the pressure hose via a hole in the hosing and connect it to the appliance in a suitable way. Connect the plug of the compressor power cord into the socket. Insert the connector of earthing wire onto the door and screw it onto the housing. Cover the holes after the screws using white end caps with Ø11. Close the top panel of the housing and lock the locks.

Dental compressor in box DK50 2V/110S/M, DK50 2x2V/110S/M (Fig.7, Fig.9)

After removing all packaging material, place the product on the floor and remove stabilization parts X and Y (Detail A). Place the wall-mounted stopper (28) - 2 pcs onto the compressor housing in the rear top part of the housing and put the housing onto a required place. The stoppers provide a sufficient distance of the housing from a wall for thorough ventilation. Dismount the door, fixed using 4 screws M5 (20) located in the tapered edges of the door and disconnect earthing wire. If necessary, the top panel of the housing may be opened by releasing the locks (50) by moderate rotation of screw driver according to pictogram and lifting using a handrail (47). Gas springs (21) hold it in an open position. Prior to placing the compressor into housing, protrude house for condensate drain via hole in housing and connect it to a bottle (49). Magnetic holder (48) with a vessel (49), for entrapping the condensate from the dryer may be fitted onto any vertical part of casing, or from front on its door. When fixing the holder with a vessel at the housing side it is necessary to consider a space of at least 16 cm between the housing and furniture. Distance smaller than the specified one may cause problem with handling of the vessel. Insert the compressor into the housing so that the compressed air outlet was oriented towards operators and so that ventilator of a dryer was inserted into the venting tunnel in a housing. Orientate the output pressure hose to the rear part of the compressor Connect the connecting cable (39) of the box into the electrical panel by means of five-pin WINSTA connector. Blind the holes at the sides of the housing using a plug with Ø16.5. Place a hose (40) leading from manometer into the angular threaded joint (42) on the air chamber. Protrude the pressure hose via a hole in the housing and connect it to the appliance in a suitable way. Connect the plug of the compressor power cord into the socket. Put on the connector of earthing wire onto the door and screw it onto the housing. Cover the holes after the screws using white end caps with Ø11. Close the top panel of the housing and lock the locks.



The vessel (22) must always be installed so that the lower section is near the floor; any other installation may damage the dryer!



Dental compressor DK50 2V/110/M, DK50 2x2V/110/M, DK50 2V/110, DK50 2x2V/110 which was not delivered together with the case S110 (Fig.7, Fig.9)

Prior to the placing of compressor into the case, it is necessary to make the following works at the compressor:

- Remove tap for the drainage of condensate (23) from air chamber (bonded joint) and to replace it with straight fitting Ø8 ¼" (38) (bond). for version of compressor without dryer
- Remove the fitting (24) for the connection of output pressure hose (bonded joint) and place it into angular fitting (43) 3/8" M/F (bond). Then fix this unit to the original place of fitting (bond) so that the output of air was directed downwards.

• Remove the plug (bonded joint) and to replace it with angulare fitting (42) 1/4 M-8/6 (bond).

Place the compressor into the housing similarly as in the previous paragraphs for compressor in a housing DK50 2V/110S/M, DK50 2x2V/110S/M or compressor in a housing DK50 2V/110S, DK50 2x2V/110S.



While closing the upper board, it is necessary to increase the care – the risk of squeezing the fingers of a hand.

After closing the lid of the case it is necessary to secure the fast-on elements!

Supply voltage – DK50 2V/110 230V/50(60)Hz 3Gx1.0x4000 400V/50(60)Hz 5Gx1.0x4000

Supply voltage – DK50 2x2V/110 230V/50(60)Hz 3Gx1.5x4000 400V/50(60)Hz 5Gx1.5x4000

9.2. Compressed air outlet

(Fig.11) Lead the pressure hose from the output of compressed air (1) to the appliance – dental set.





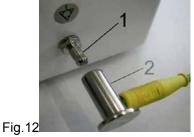
Fig.11



Plug the electrical cord into the mains. The appliance is equipped with a grounded plug. Make sure this connection complies with local electrical codes. The mains voltage and frequency must comply with the data stated on the appliance label.

(Fig.12)

- Keep the socket easily accessible to ensure that in an emergency the appliance can be safely disconnected from the mains.
- Connection to the power distribution box must be max.16 A.
- The connection of the earth ground pin Ø 6mm (1) with other appliances must be completed in accordance with local electrical codes. The female socket (2), which is not included in the standard set, is an optional accessory.



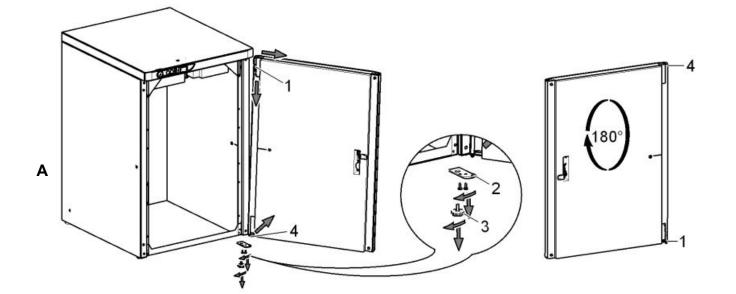


Electrical cable may not contact the hot parts of a compressor. Insulation could be damaged!

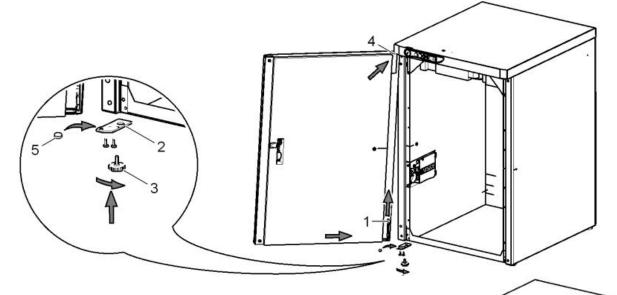
If any electrical cord or air hose is damaged it must be replaced immediately.

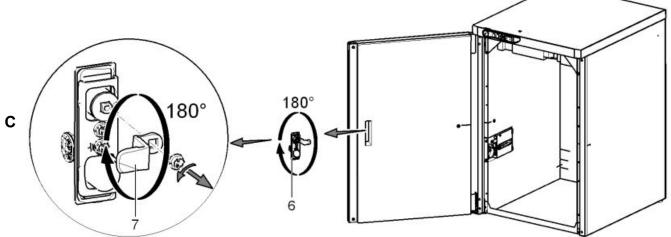
9.4. Chance in the door opening

- Disassemble the door, rectification screw (3) and the holder (2) of the hinge D (4).
- Mount holder of the hinge D to the left side of the casing.
- Rotate the door by 180°.
- Insert a spacer (5) between the hinge H(1) and the bottom side of the door
- Mount the door.
- Disassemble the lock (6) on the door, rotate it by 180°.
- Disassemble the latch (7) on the lock, rotate it by 180°.
- Mount the lock to the door.



В



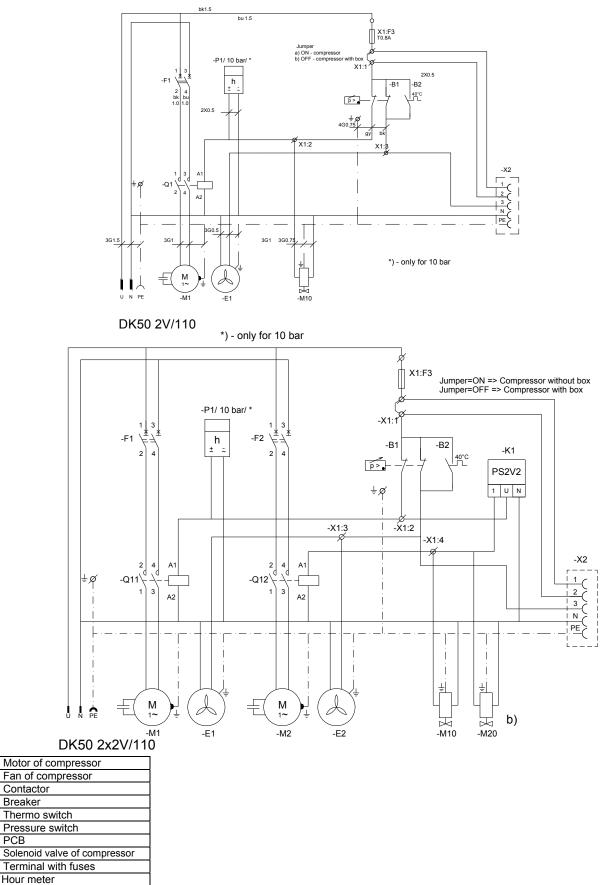


EN



10. WIRING DIAGRAMS

1/N/PE ~ 230 V 50..60 Hz ELECTRIC OBJECT OF 1st.CAT TYPE B



Connector

Breaker

PCB

M1,M2

E1, E2

Q1, Q2

F1, F2

M10,M20

B2

B1

K1

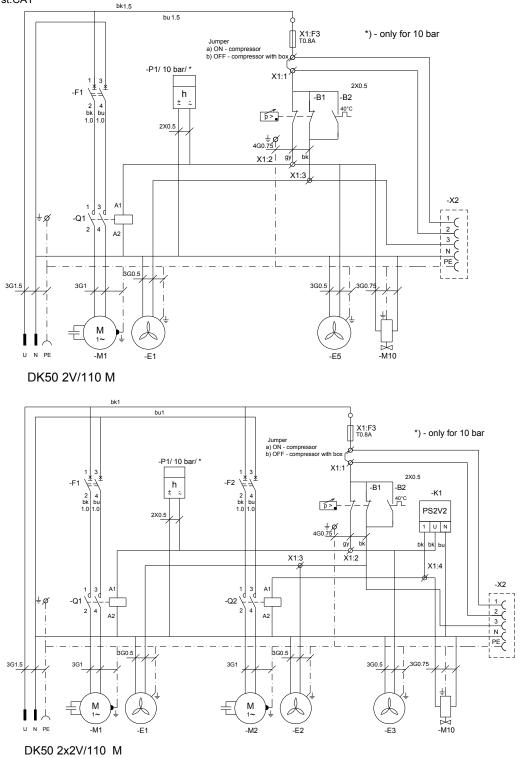
X1 P1*

X2

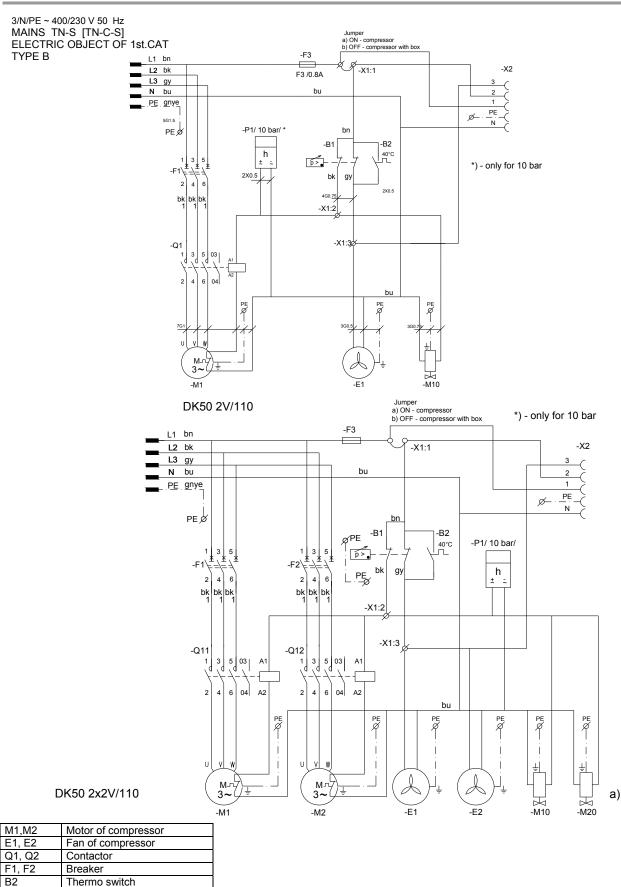
DK50 2V DK50 2V/110



1/N/PE ~ 230 V 50..60 Hz ELECTRIC OBJECT OF 1st.CAT TYPE B



M1,M2 Motor of compressor Fan of compressor E1, E2 Q1, Q2 Contactor F1, F2 Breaker B2 Thermo switch B1 Pressure switch PCB K1 E3 Fan of dryer Solenoid valve of compressor M10 X1 Terminal with fuses P1³ Hour meter X2 Connector



Connector

Pressure switch

Terminal with fuses Hour meter

Solenoid valve of compressor

B1

X1 P1*

X2

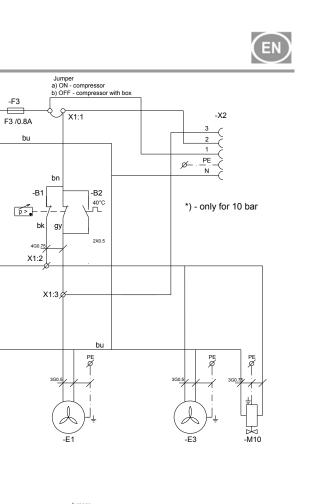
M10,M20

DK50 2V DK50 2V/110

3/N/PE ~ 400/230 V 50 Hz

TYPE B

MAINS TN-S [TN-C-S] ELECTRIC OBJECT OF 1st.CAT



DK50 2V/110 M

L1 bn

L2 bk

L3 gy

PE gnye

5G1.5

PEØ

-F1_

-Q1 1 3 5

2 4 6

7G1

u

M⊐ ∼

-M1

2 4 6

bk bk bk

-P1/ 10 bar/ *

h

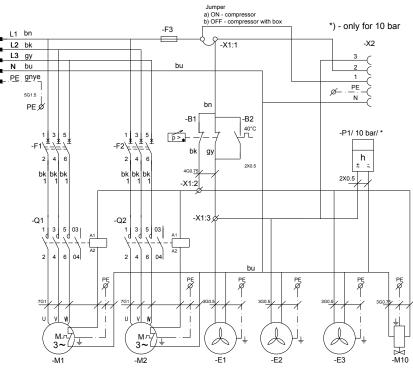
2X0.5

04

PE Ø

X

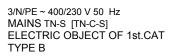
N bu

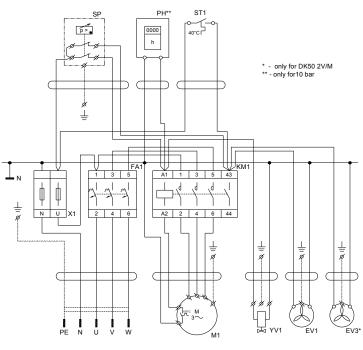


M1,M2	Motor of compressor
E1, E2	Fan of compressor
Q1, Q2	Contactor
F1, F2	Breaker
B2	Thermo switch
B1	Pressure switch
E3	Fan of dryer
M10	Solenoid valve of compressor
X1	Terminal with fuses
P1*	Hour meter
X2	Connector

DK50 2x2V/110 M

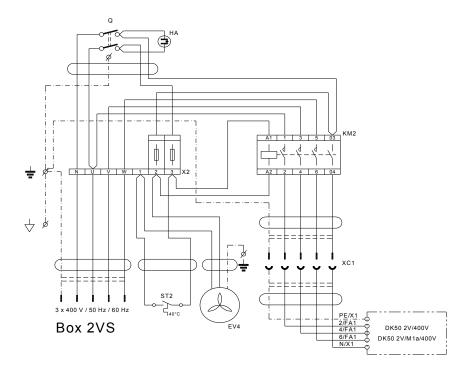






DK50 2V / DK50 2V/M*

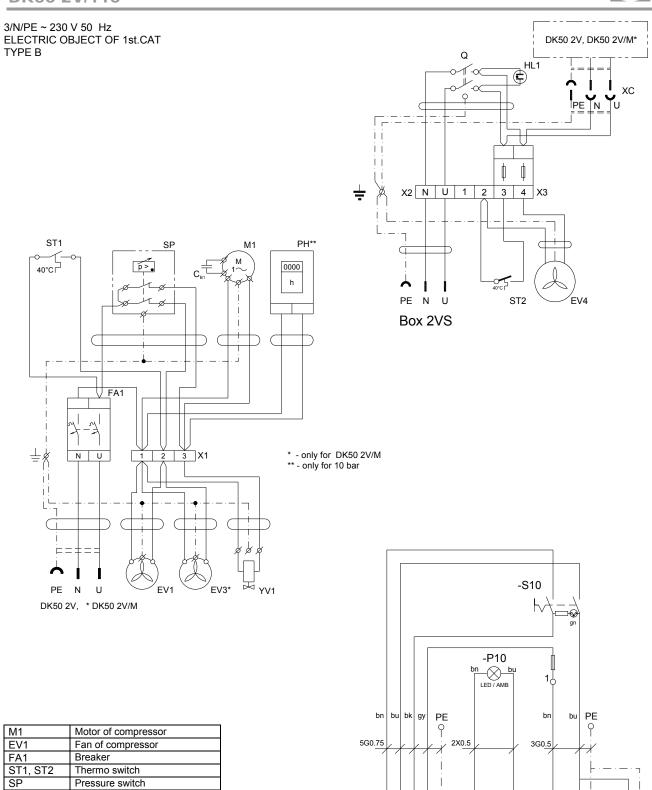
12. 11. 2014



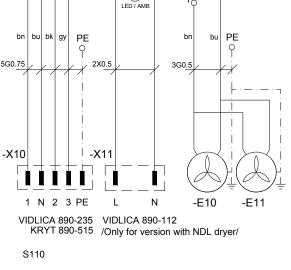
M1	Motor of compressor
EV1	Fan of compressor
KM1, KM2	Contactor
FA1	Breaker
ST1, ST2	Thermo switch
SP	Pressure switch
EV3*	Fan of dryer
YV1	Solenoid valve of compressor
X1, X2	Terminal with fuses
PH**	Hour meter
EV4	Fan of box
XC1	Connector
HA	Glowlamp
Q	Switch

DK50 2V DK50 2V/110



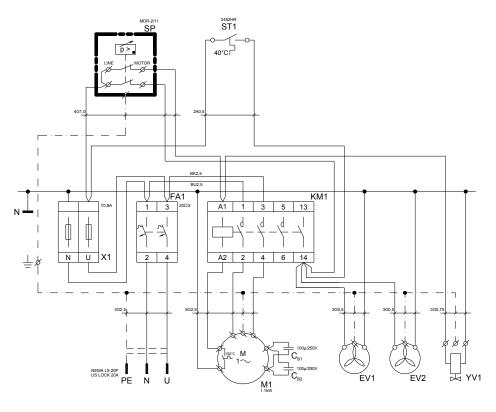


Fan of compressor		
Breaker		
Thermo switch		
Pressure switch		
Fan of dryer		
Solenoid valve of compressor		
Terminal with fuses		
Hour meter		
Fan of box		
Terminal with fuses		
Terminal		
Connector		
Connector		
Glowlamp		
Switch		





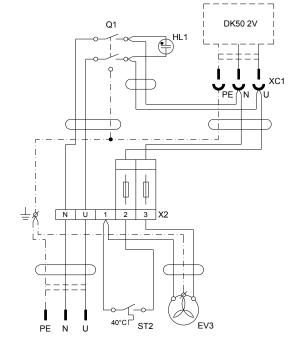
1/N/PE ~ 110V 60 Hz ELECTRIC OBJECT OF 1st.CAT TYPE B





Box 2VS

Motor of compressor
Fan of compressor
Fan of dryer
Contactor
Breaker
Thermo switch
Pressure switch
Solenoid valve of compressor
Capacitor
Terminal
Switch
Glowlamp
Connector
Fan of box





11. FIRST OPERATION

(Fig.13)

- Make sure that all stabilizers used during transport were removed.
- Check that all pressurized air line connections are secure.
- Connect to the mains.
- Start compressor at pressure switch (2) by turning switch (3) to position "I."
- For kompressor in the box turn the switch (29) (Fig.6, Fig.7) at the front part of the soundproof box to the position "I" green light indicates that the appliance is on.

Compressor - At first operation the air tank is pressurized until it reaches a preset level when the compressor automatically switches off. As the air is used, the compressor works in automatic mode, switched on or off by the pressure switch.

Compressor with dryer - during operation the accessory dryer removes moisture from the compressed air passing through it.

Compressor with condensation and filtration unit - Model KJF filters and dehumidifies the air and automatically releases condensed liquid through the filter's discharge valve.



The compressor is not equipped with an emergency power supply.

OPERATION



In case of emergency, disconnect the compressor from the mains (pull out the mains plug).



The compressor has hot surfaces. Burns or fire may result if contact is made.



During prolonged operation of the compressor, the temperature in the box may increase to over 40°C. At this point the cooling fan automatically switches on. After cooling the space to under 32°C, the ventilator switches off.



Automatic start: when pressure in the tank drops to the pressure switch's lower limit level, the compressor automatically switches on. The compressor automatically switches off after reaching the pressure switch's upper limit level.

Compressor with dryer

A correct function of the drier depends on the compressor's operation and no attendance is required. The pressure vessel need not be sludged, because the pressure air entering the air chamber is already dried.

- It is forbidden to alter the working pressures of pressure switch set by manufacturer. The operation of the compressor at working pressure lower than the switching pressure demonstrates the overload of the compressor (high air consumption) by the appliance, leakages in pneumatic distributions, failure of aggregate or drier.
- Prior connecting drier to air chamber, that was used with compressor without drier, it is necessary to clean interior surface of air chamber and perfectly remove condensed liquid. Then interconnect electric part of drier with compressor according to wiring diagram in accord with valid regional regulations.



<u>Required drying performance can only be achieved when following the defined operating conditions!</u>



Drying performance will decline and the achieved dew point will drop if the dryer is operated at any pressure below the minimum working pressure! Dryer operation at a pressure of 0.5 Bar below the minimum working pressure can lower the dew point at the outlet by more than 10°C!



The dryer will be irrevocably damaged and need replacement if operated at any temperature above the maximum working temperature!



12. SWITCHING THE COMPRESSOR ON

(Fig.13)

Switch on the compressor at the pressure switch (2) by turning the knob (3) to position "I." (for compressor in the box switch (29) Fig.6, Fig.7), on the front part of the compressor box), The compressor sends pressurized air to the air tank. As the compressed air is used, the pressure in the air nozzle drops to a preset level, the compressor switches on and the air nozzle files with compressed air. After reaching the cutoff pressure the compressor turns off automatically and the cycle is repeated. Check the value of switching-on and switching-off pressure on pressure gauge. The values may be within a tolerance of $\pm 10\%$. Air pressure in air chamber must not exceed maximal permitted operation pressure.



Fig.13



Never tamper with the pressure switch (2). Adjustments are not allowed. The pressure switch (2) has been set by the manufacturer and further setting of switching on and off pressure may be carried out only by a qualified expert trained by the manufacturer.

MAINTENANCE

13. MAINTENANCE SCHEDULE

Notice!

The operating entity is obliged to ensure that all tests of the equipment are carried out repeatedly at least once within every 24 months (EN 62353) or in intervals as specified by the applicable national legal regulations. A report must be prepared on the results of the tests (e.g.: according to EN 62353, Annex G), including the measurement methods used.

Time interval	Maintenance that must be performed	Chapter	Performed by
1 x day	 Release condensate At high air humidity 		
1 x week	-Compressor without air drier Compressors with air drier Compressors with condensation unit : - from filter - from pressure vessel	14.1	operating staff
1 x year	Check safety valve	14.2	qualified technician
	Replace filter and micro-filter elements	14.4 14.5	operating staff
	Replacement of filter in condensation unit	14.6	qualified technician
	Check tightness of joints Overall examination of device	Service documentation	qualified technician
	Clean the cooler ribs and the fan	14.7	qualified technician
1 x 2 years	 Perform "Repeated Test" according to EN 62353 	13	qualified technician
1 x 2 years or after 5000 hours	 Replacement of the input filter and prefilter 	14.3	qualified technician

14. MAINTENANCE



Repair work beyond normal maintenance can be performed only by qualified personnel or the manufacturer's representative.

Use only spareparts and accessories approved by the manufacturer.



Prior to any maintenance or repair work, switch off the compressor and disconnect it from the mains (pull out the mains plug).

For permanently high efficiency of drying, it is necessary to maintain the whole appliance, and mainly ventilator clean – regularly clean the surface of ventilator and cooling fins of cooler.



14.1. Condensation drain valve

Compressors (Fig.14, Fig.15)

During regular use, release condensation from the pressure tank. Switch off the compressor at the mains. Reduce air pressure in the appliance to max. 1 bar by releasing air via a connected device. Place the hose with the drain valve into a container prepared in advance (for compressors DK50 2V/110 and DK50 2x2V/110 orientate the vessel towards the drain valve, for compressors DK50 2V place the vessel under release valve) and open the drain valve (1). Wait until condensation is fully drained from the pressure tank. Close drain valve (1).

Compressors with condensation and filtration unit (Fig.19)

During regular use, condensation is automatically released via the release valve of the condensation unit filter. To check that the automatic drain is working properly, open the valve (4) of the drain vessel (2) by turning to the left. Release a small amount of condensate from the vessel. Close the valve (4) by turning to the right.

Compressors with air dryer

Fig.15 DK50 2V

In the case of a regular operation condensate is automatically excreted via air dryer and it is entrapped in a bottle. Take out the bottle from a holder, release stopper and pour out the condensate.

If necessary, it is possible to connect the set for condensate discharge onto the condensate outlet (see Chap. PARTS LIST - Auxiliary Equipment).

\wedge

For versions of a compressor with a housing it is necessary to open the housing prior to the following checks.

For DK50 2VS - unlock the lock on the door and open the door of the housing (Fig.6) For DK50 2V/110S, DK50 2x2V/110S unlock the locks on the top panel of the housing and lift (Fig.7)

14.2. Safety valve check

(Fig.13)

When the compressor is operated for the first time, make sure that the safety valve is working properly. Turn screw (4) of safety valve (1) several rotations to the left until the safety valve releases air. Let the safety valve blow out for only a few seconds. Turn screw (4) to the right until it seats, closing the valve.



The safety valve must never be used for depressurizing the air tank. It could damage the safety valve. The valve is set to the maximum permitted pressure by the manufacturer. Adjustments are not permitted.

Warning! Compressed air can be dangerous. Wear eye protection when blowing air out.

14.3. Replacement of the input filter and prefilter

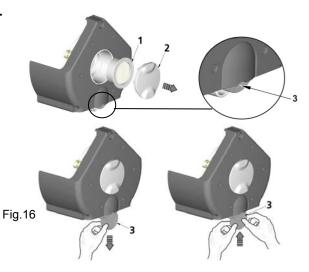
(Fig.16) At the lid of the compressors crankcase is an input filter (1) and prefilter (3).

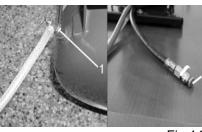
Replacing of the input filter:

- Hand pull the rubber stopper (2).
- Remove used and dirty filter.
- Input new filter and set rubber stopper.

Replacing of the prefilter:

- Hand pull prefilter (3).
- Replace old prefilter with new.







14.4. Replace the filter element

(Fig.17)

Loosen a safety-catch (1) on a filter regulator by pulling it down. Turn the container slightly (2) and pull out.

Unbolt the filter holder (3).

Change the filter bed (4), bolt the filter holder.

Put the filter container on and secure it by turning it until the safetycatch is fixed.



Compressor	Filter	Order number	Filter insert	Order number
DK50 2V, DK50 2V/110	AF30 F02C 6 A PU	025200276-000	AF 30P-060S 5 μm	025200061-000
DK50 2×2V/110	AF40-F03C-6-A-PU	025200288-000	AF 40P-060S 5 μm	025200079-000

14.5. Replacing the micro-filter element

(Fig.18)

Loosen a safety-catch (1) on a micro filter by pulling it down. Turn the container slightly (2) and pull out. Unbolt the filter element (3). Change and bolt the filter element. Put the filter container on and secure it by turning it until the safetycatch is fixed.



Fig.18

Compressor	Micro-filter	Order number	Filter insert	Order number
DK50 2V, DK50 2V/110	AFM30-F02C-6-A-PU	025200277-000	AFM 30P-060AS 0,3 μm	025200076-000
DK50 2×2V/110	AFM40-F03C-6-A-PU	025200289-000	AFM 40P-060AS 0,3 μm	025200080-000

14.6. Replacement of filter in condensation and filtration unit



Before beginning, depressurize the air tank to zero and disconnect the appliance from the mains.

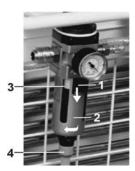
(Fig.19)

In the case of a regular operation of a condensation unit it is necessary to replace the filter inside the filter with automatic desludging.

- Release a safety lock (1) on the filter vessel by its pulling downwards, slightly rotate the filter cover (2) to the left and take it out.
- Unscrew the filter holder (3) by its rotation to the left.
- Replace the filter and fix the new one by rotation of the holder to the right back on the filter body.
- Replace the filter cover and secure it by turning to the right until the safety pin locks.
 Fig.19

14.7. Clean the cooler ribs and the fan

For permanently high efficiency, it is necessary to maintain the whole equipment and especially the cooler's fan and the cooler itself clean -1x year suck or blow settled dust out with compressed air from the surface of the cooling ribs and the fan.





15. STORAGE

If the compressor will not be used for a prolonged time period, drain any condensate from the air tank. Then turn on the compressor for 10 minutes, keeping the drain valve open (1) (Fig.14, Fig.15). Switch off the compressor by switch (3) at pressure switch (2) (Fig.13), close the drain valve and disconnect the appliance from the mains.

16. DISPOSING OF THE APPLIANCE

- Disconnect the appliance from the mains.
- Release air pressure in the pressure tank by opening the drain valve (1) (Fig.14, Fig.15).
- The components of the product are non-toxic.
- Dispose of the appliance following all environmental regulations.

17. REPAIR SERVICE

Guaranteed and post-guarantee repairs must be done by the manufacturer, its authorized representative, or service personnel approved by the supplier.

The manufacturer reserves the right to make changes to the appliance without notice. Any changes made will not affect the functional properties of the appliance.

18. SOLVING PROBLEMS



Caution! Before proceeding, depressurize the air tank to zero and disconnect the appliance from the mains.

Troubleshooting can be performed only by qualified personnel.

FAILURE	POSSIBLE CAUSE	REMEDY
Compressor does not start	No voltage in pressure switch	Check voltage in socket
		Check fuse – replace faulty one
		Loosen terminal – tighten it
		Check power cord – replace faulty one
	Disconnected winding of motor, damaged thermal protection	Replace motor or re-wind it
	Faulty capacitor	Replace capacitor
	Seizure of piston or another rotary part	Replace damaged parts
	Pressure switch does not switch on	Check the function of pressure switch
Compressor often	Air leak in pneumatic distribution system	Check pneumatic distribution system - seal
switches on	Leaking check valve	loose joint
	Greater volume of condensed liquid in	Clean valve, replace seals, replace valve
	pressure vessel	Drain condensed liquid
Prolonged running of	Air leak in pneumatic distribution system	Check pneumatic distribution system – seal
compressor		loose joint
	Worn piston ring	Replace worn piston ring
	Contaminated input filter and prefilter	Replace contaminated filters with the new
		ones
	Defective solenoid valve	Repair or change the valve
Compressor is noisy	Damaged bearing of piston, piston rod,	Replace damaged bearing
(knocking, metal noises)	motor bearing	
	Loose or cracked spring	Replace damaged spring
Dryer doesn't dry	inoperative cooler ventilator	replace ventilator
(condensed water in the		check supply of electric energy
tank)	Damaged dryer	Replace dryer
	Dirty automatic condensate drain on filters	clean / replace
	Dirty filter and micro-filter elements	Replace old elements with new elements

The internal surfaces of the air tank must be cleaned and all condensed liquid must be removed after a dryer failure.

Check the dew point of the air leaving the air tank (see Chapter 5 - Technical Data) in order to protect connected equipment from damage!



ANNEX TO NP- DK50 2V

Annex is integral part of Instructions for use!

DK50 2V		402204004 202
	-	403201001-202
DK50 2V	-	403201005-208
DK50 2VS	-	403202001-206
DK50 2VS	-	403202001-207
DK50 2V/M	-	4032010A1-204
DK50 2VS/M	-	4032020A1-204
DK50 2V/M	-	4032010B1-202
DK50 2V/M	-	4032010B1-204
DK50 2VS/M	-	4032020B1-202
DK50 2VS/M	-	4032020B1-203
DK50 2x2V/110	-	404101005-305
DK50 2x2V/110	-	404101005-306
DK50 2x2V/110	-	404101005-307
DK50 2x2V/110	-	404101105-303
DK50 2x2V/110S	-	404102006-304
DK50 2x2V/110/M	-	4041010B5-302
DK50 2x2V/110/M	-	4041010B5-303
DK50 2x2V/110S/M	-	4041020B6-304
DK50 2x2V/110S/M	-	4041020B6-305
DK50 2x2V/110S/M -0273	-	499000273-000
DK50 2x2V/110S -0279	-	499000279-000
DK50 3x2V/110	-	404221006-000
S110	-	604002006-001

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TECHNICAL DATA	2
TECHNICAL DATA	
FUNCTION	6
WIRING DIAGRAMS	
MAINTENANCE	
PARTS LIST.	

(Replaced - not apply chapter 5 in NP DK50 2V)

6-8bar	DK50 2V	DK50 2VS	DK50	DK50	DK50	DK50	DK50	DK50 2x2V	DK50 2x2V
	403201001- 202	403202001- 206	2V/M 4032010A1- 204	2V/M 4032010B1- 202	2VS/M 4032020A1- 204	2VS/M 4032020B1- 202	2x2V/110 404101005- 305	/ 110/M 4041010B5- 302	/ 110S/M 4041020B6- 304
Nominal voltage / frequency V / Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Efficiency of compressor / at over-pressure Lit.min ⁻¹ / bar	134 / 6	134 / 6	105 / 6	90 ** / 6	105 / 6	90 ** / 6	270 / 6	180 ** / 6	180 ** / 6
Maximal current of compressor A	7.5	7.7	7.8	7.8	8	8	15	15.3	15.8
Motor performance kW	1.1	1.1	1.1	1.1	1.1	1.1	2x1.1	2x1.1	2x1.1
Air tank capacity Lit.	25	25	25	25	25	25	110	110	110
Pressure range bar	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0	6.0 - 8.0
Maximum operating pressure of safety valve bar	12.0	12.0	12.0	12.0	12.0	12.0	9.0	9.0	9.0
Sound level L _{pfA} [dB]	≤ 71	≤ 53	≤ 71	≤ 71	≤ 53	≤ 53	≤ 73	≤ 73	≤ 53
Mode of operation of compressor	Continual S 1	Continual S 1	Continual S 1	Continual S 1	Continual S 1	Continual S 1	Continual S 1	Continual S 1	Continual S 1
Model of dryer	_	_	AHD10072 1-0A	NDL020	AHD10072 1-0A	NDL020	_	NDL030	NDL030
Dimensions of compressor w x I x h mm	460x460 x690	560x665 x860	460x535 x690	460x535 x690	560x665 x860	560x665 x860	1090x425 x815	1090x605 x815	1200x720 x990
Weight of compressor kg	57	93	57	66	94	103	103	119	188
Drying point of compressor	-	-	to -20°C	Pressure dew point to - 40°C	to -20°C	Pressure dew point to - 40°C	-	Pressure dew point to - 40°C	Pressure dew point to - 40°C
Version EN 60 601-1		Appliance of type B, class I							

 $(^{\star\star})$ Part of the efficiency of compressor $\,$ is used for regeneration of the dryer (*) Maximal adjustment of outlet air pressure on regulator is 8.5 bar



(Replaced - not apply chapter 5 in NP DK50 2V)

6-8bar	DK50	
• • • • • •	2x2V/110	
	404101105-303	
Nominal voltage /	400 / 50	
frequency	400 / 50	
V / Hz Efficiency of		
compressor /	270 / 6	
at over-pressure Lit.min ⁻¹ / bar		
Maximal current		
of compressor	9.0	
A	0.0	
Motor		
performance	2x1.2	
kW		
Air tank capacity	110	
Lit.	110	
Pressure range	6.0 - 8.0	
bar	0.0 - 0.0	
Maximum		
operating pressure	9.0	
of safety valve	5.0	
bar		
Sound level	≤73	
L _{pfA} [dB]	270	
Mode of	Continual	
operation of	S 1	
compressor		
Model of dryer		
	_	
Dimensions of	1000-405	
compressor	1090x425	
wxlxh mm	x815	
Weight of		
compressor	103	
kg		
Drying point of		
compressor	-	



(Replaced	(Replaced - not apply chapter 5 in NP DK50 2V)								
8-10bar	DK50 2V 403201005- 208	DK50 2V/M 4032010B1- 204	DK50 2VS 403202001- 207	DK50 2VS/M 4032020B1- 203	DK50 2x2V/110/M 4041010B5- 303	DK50 2x2V/110S/M 4041020B6- 305	DK50 2x2V/110 404101005- 306	DK50 2x2V/110S 404102005- 304	S110 604002006- 001
Nominal voltage / frequency V / Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Efficiency of compressor / at over-pressure Lit.min ⁻¹ / bar	100 / 8	70 ** / 6	100 / 8	70 ** / 6	130 ** / 8	130 ** / 8	200 / 8	200 / 8	-
Maximal current of compressor A	7.5	8	7.7	8	15.4	15.8	14.5	15	-
Motor performance kW	1.1	1.1	1.1	1.1	2x1.1	2x1.1	2x1.1	2x1.1	-
Air tank capacity Lit.	25	25	25	25	110	110	110	110	-
Pressure range bar	8.0 – 10.0 *	8.0 – 10.0 *	8.0 – 10.0 *	8.0 - 10.0 *	8.0 - 10.0*	8.0 - 10.0*	8.0 – 10.0 *	8.0 – 10.0 *	-
Maximum operating pressure of safety valve bar	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	-
Sound level L _{pfA} [dB]	≤ 71	≤ 71	≤ 53	≤ 53	≤73	≤ 73	≤ 73	≤ 53	-
Mode of operation of compressor	Continual S 1	Continual S 1	Continual S 1	Continual S 1	Continual S 1	Continual S 1	Continual S 1	Continual S 1	-
Model of dryer	_	NDL020	_	NDL020	NDL030	NDL030	_	_	_
Dimensions of compressor w x l x h mm	460x460 x690	460x535 x690	560x665 x860	560x665 x860	1090x605 x815	1200 x 720 x 990	1090x425 x815	1200 x 720 x 990	1200 x 720 x 990
Weight of compressor kg	59	66	95	103	125	195	103	177	74
Drying point of compressor	-	Pressure dew point to - 40°C	-	Pressure dew point to - 40°C	Pressure dew point to - 40°C	Pressure dew point to - 40°C		-	
Version EN 60 601-1				Applia	nce of type B,	class I			

(**)Part of the efficiency of compressor $\,$ is used for regeneration of the dryer (*) Maximal adjustment of outlet air pressure on regulator is 8.5 bar



(Replaced - not apply chapter 5 in NP DK50 2V)

(Itepideed Hot up)		51(00 21)		
8-10bar	DK50 2x2V/110S -0279 499000279-000	DK50 2x2V/110S/M -0273 499000273-000	DK50 2x2V/110 404101005-307	DK50 3x2V/110 404221006-000
Nominal voltage / frequency V / Hz	230 / 50	220 / 60	230 / 50	230 / 50
Efficiency of compressor / at over-pressure Lit.min ⁻¹ / bar	200 /8	170 ** / 8	200 / 8	290 / 8
Maximal current of compressor A	15	18.5	14.5	20.0
Motor performance kW	2x1.1	2x1.1	2x1.1	3x1.1
Air tank capacity Lit.	110	110	110	110
Pressure range bar	8.0 – 10.0 *	8.0 – 10.0*	8.0 – 10.0 *	8.0 – 10.0*
Maximum operating pressure of safety valve bar	12.0	12.0	12.0	12.0
Sound level L _{pfA} [dB]	≤ 5 3	≤ 73	≤ 73	≤ 76
Mode of operation of compressor	Continual S 1	Continual S 1	Continual S 1	Continual S 1
Model of dryer	_	NDL030	_	-
Dimensions of compressor w x l x h mm	1200 x 720 x 990	1200 x 720 x 990	1090x425 x815	1120 x 550 x 880
Weight of compressor kg	177	199	103	147
Drying point of compressor	-	Pressure dew point to - 40°C	-	-
Air tank filling time [sec]	-	-	-	160 / 8 bar
Version EN 60 601-1	Appliance of type B, class I	Appliance of type B, class I	Appliance of type B, class I	Appliance of type B, class I



FUNCTION

DK50 2V 403201001-202 _

1. Compressor motor

- 2. Air tank
- 3. Check valve
- 4. Pressure switch
- Safety valve
 Manometer
- 7. Input filter
- 8. Air output
- 9. Solenoid valve
- 10. Quick coupling
- 11. Plug
- 12. Hose of manometer (boxed version)
- 13. Plug
- 14. Bottle
- 15. Filterregulator

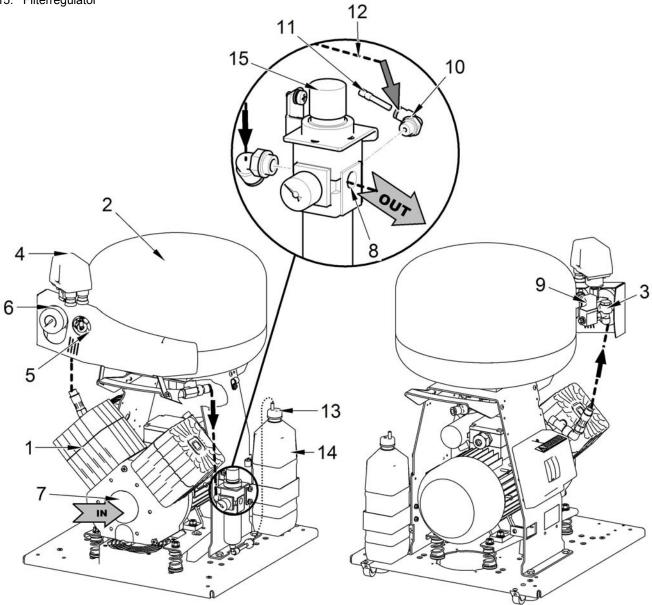


FIG. A

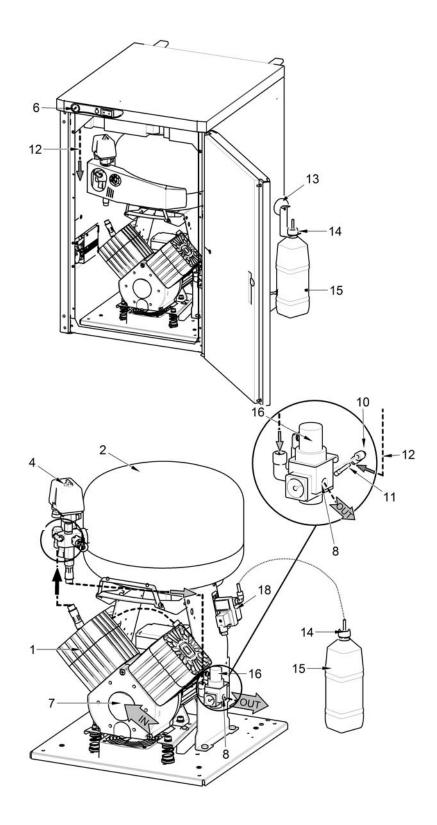


DK50 2VS -	4032	202001-206
DK50 2VS -	4032	202001-207
DK50 2V -	4032	201005-208

- 1. Compressor motor
- 2. Air tank
- Check valve 3.
- 4. Pressure switch
- 5. Safety valve
- 6. Manomet
- 7. Input filte
- 8. Air output
- 9. Solenoid
- 10. Quick cou
- 11. Plug
- 12. Hose of n 13. Magnetic
- 14. Silencer
- 15. Bottle
- 16. Regulator
- 17. Hour met
- 18. AOK
- 19. Fan



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DK50 2V/M **DK50 2VS/M**



1. Compressor motor

- 2. Air tank
- 3. Check valve
- 4. Pressure switch
- 5. Safety valve
- 6. Manometer
- 7. Input filter
- 8. Air output
- 9. Solenoid valve
- 10. Quick coupling
- 11. Plug
- 12. Dryer
 13. Cooler
- 14. Microfilter
- 15. Filter
- 16. Magnetic holder
- 17. Plug
- 18. Bottle
- 19. Regulator
- 20. Check valve

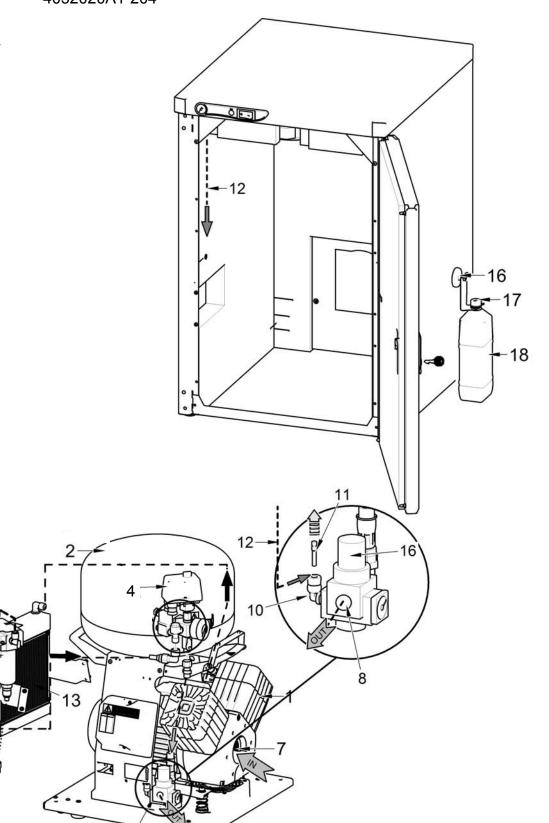


FIG. C

12

15 14

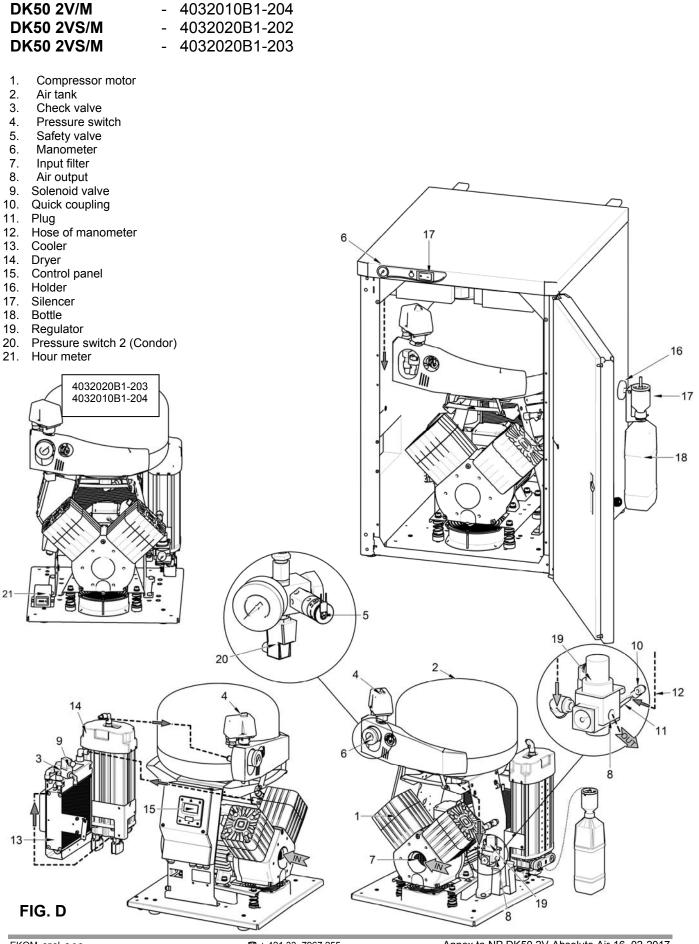
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19

DK50 2V/M

- 4032010B1-202

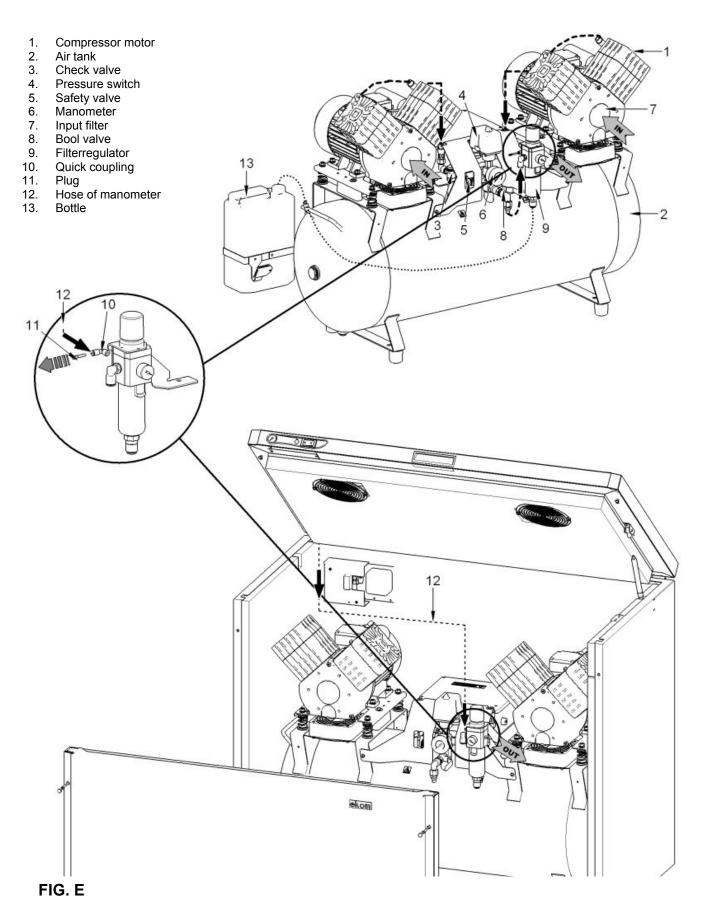




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⋒ + 421 33 7967 223 e-mail: ekom@ekom.sk Annex to NP DK50 2V-Absolute Air-16_02-2017



DK50 2x2V/110-404101005-305DK50 2x2V/110-404101105-303

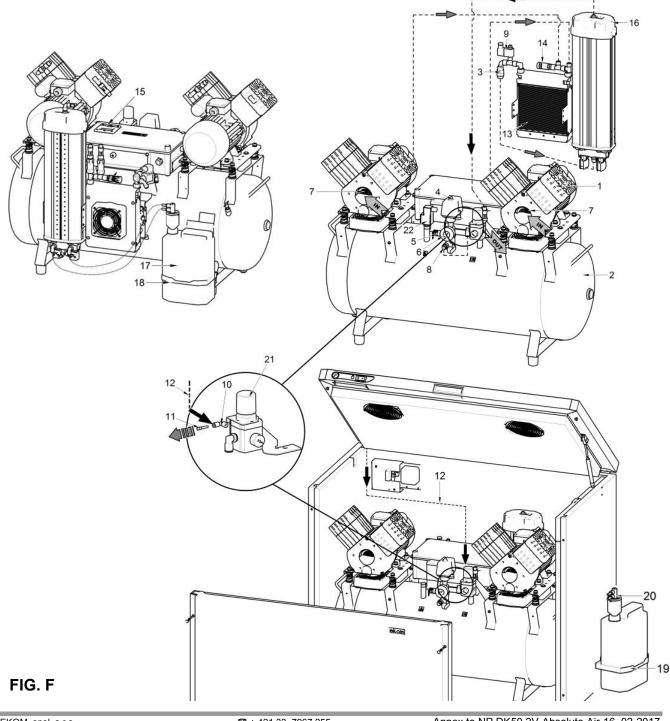




DK50 2x2V/110/M- 4041010B5-302DK50 2x2V/110/M- 4041010B5-303DK50 2x2V/110S/M- 4041020B6-304

- 1. Compressor motor
- 2. Air tank
- Check valve
- 4. Pressure switch
- 5. Safety valve
- 6. Manometer
- 7. Input filter
- 8. Air output
- 9. Solenoid valve
- 10. Quick coupling
- 11. Plug

- 12. Hose of manometer
- 13. Cooler
- 14. Pressure-relief valve
- 15. Control panel
- 16. Dryer
- 17. Bottle
- 18. Holder
- 19. Magnetic holder
- 20. Silencer
- 21. Regulator
- 22. Pressure switch 2 (Condor)

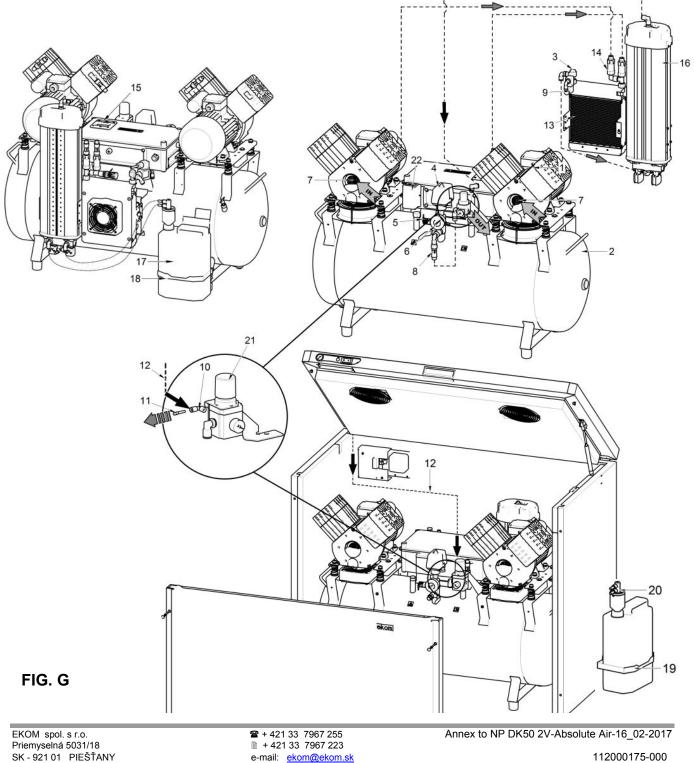




DK50 2x2V/110S/M - 4041020B6-305 DK50 2x2V/110S/M -0273 - 499000273-000

- Compressor motor 1.
- Air tank 2.
- 3. Check valve
- Pressure switch 4.
- 5. Safety valve
- Manometer Input filter 6.
- 7.
- Air output 8.
- Solenoid valve 9.
- Quick coupling 10.
- 11. Plug

- 12. Hose of manometer
- 13. Cooler
- 14. Check valve
- 15. Control panel
- 16. Dryer
- 17. Bottle
- Holder 18. 19.
- Magnetic holder 20. Silencer
- Regulator 21.
- 22. Hour meter







- 2. Air tank
- Check valve 3.
- Pressure switch 4.
- 5. Safety valve
- 6. Manometer
- Input filter 7.
- 8. Bool valve
- 9.
- Regulator Quick coupling 10.
- 11. Plug
- Hose of manometer 12.
- Solenoid valve 13.
- 14. Hour meter

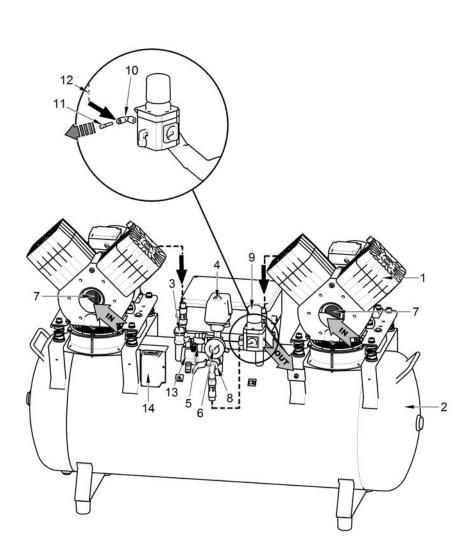
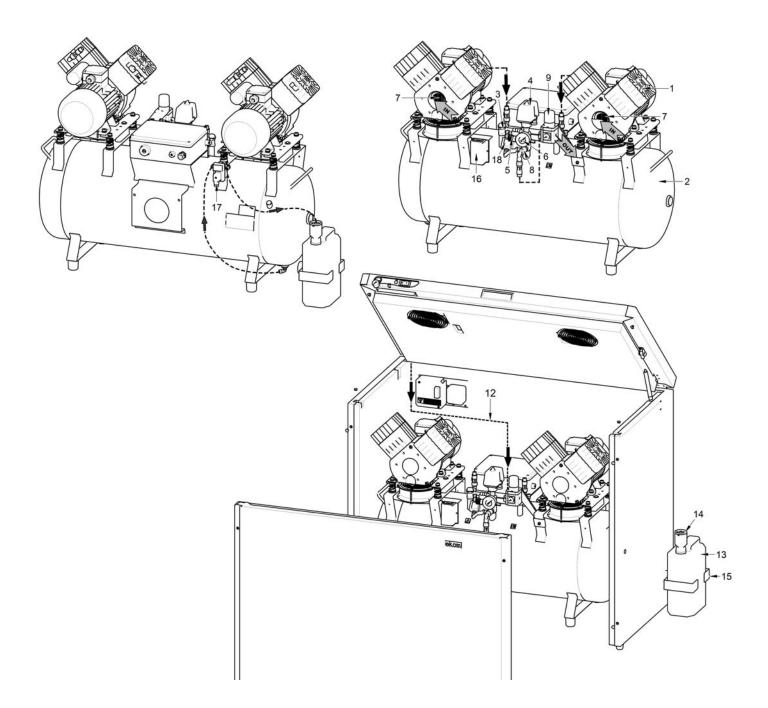


FIG. H





66 (2000) 1973 - 2630 1973 - 2630

DK20 5X5A/110

ekom

VÝROBCA: PRODUCENT: ПРОИЗВОДИТЕЛЬ: HERSTELLER: FABRICANT: PRODUCENT: VÝROBCE:

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