



# FILO

SCREW COMPRESSOR & AIR DRYER

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# Screw Compressor Compact Series



## COMPACT SERIES

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### » FCU Series

#### Filo Compact Unit

Filo compact units are the models, which provide an integrated connection directly between airend and the oil tank. These special compact units have a system that is easy to install and maintain; has a long life-term; and occupies a small space. As it increases security and impermeability by creating connections between the airend, the separator combination valve and the separator tank, it provides an operation at the maximum efficiency and capacity.

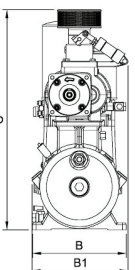
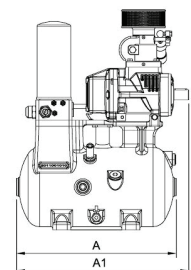
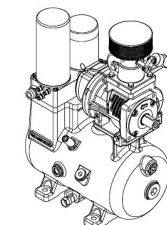
- Integrated compact unit: Filo compact units are monoblock structures, containing airend and separator tank, intake valve, minimum pressure valve, thermostatic valve, oil, separator and air filters.
- Silent operation: By the elimination of the mediums such as the hoses and the special interior design of the casting separator body, the sound level is minimized.
- High efficiency and long service life time: By providing high quality and long service life time with the new generation of airend unit, specially designed separator tank provide maximum efficiency and performance.
- Easy to dismantle: With the easy installation of our compact units, the parts like airend, intake valve, separator – oil combination valve etc., can be easily replace and install in the operations like maintenance and revision.
- Security first: The safety valve on the separator tank guarantees the safety of both the unit and operation, by preventing the compact unit from exceeding the maximum operational pressure. As the materials, certified for their safety, are used throughout the unit, all units are exposed to a test, which is 1, 5 times above the operational pressure.
- Sight glass monitoring: With the oil level indicator on the separator tank, the oil level can be easily monitored. It was designed to provide practical oil filling and emptying.
- All-round installation structure: It is possible to interfere from both sides of the unit thanks to its symmetrical structure. You would not have to do the operations such as oil filling and emptying from a single side.
- Reduces the number of connection units: Thanks to the lesser use of connection and hose units, it minimizes the oil leakage possibility that can occur in the future.

Technical Features		FCU 10	FCU 20
Max. Motor Power	Kw/hp	7,5/10	15/20
Free Air Delivery	M³/min	0,6-1,1	1-2,2
Max. Operational Pressure	Bar	13	13
Min. Operational Pressure	Bar	5	5
Max. Air-Oil Temperature	C°	100	100
Oil Filling Level	Lt	3	5
Oil Thermostat Level	C°	70-80	70-80
Oil Inlet-Outlet Connection Measurement		G½	G½
Air Outlet Connection Measurement		G½	G½
A	mm	350	444
A1	mm	400	480
B	mm	225	260
B1	mm	258	267
C	mm	490	610

### » FCU 10



### » FCU 20





# Screw Compressor

## Compact Compressor Series

### COMPACT COMPRESSOR SERIES

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#### » FVK A Series

*With Dryer - Mount On Tank  
Compact Screw Compressors*



With the aim of producing a more compact, quieter and more efficient compressor, we designed a simple and practical FVK A series screw compressors with a fresh design. Thanks to this new design, we offer a variety of options for the user, such as with/without dryer, directly coupled/belt-pulley, with inverter/normal, mount on tank/on the floor.

The FVK A series has a much simpler, less space-occupying structure with the air dryer part contained in the screw compressor. As the line filters installed in the air driers are also located in the cabin, air can be supplied directly to the tank or plant without any extra installation, only by connecting installation to the cabin outlet.

In addition to having a quiet structure due to its design, additional silencers can be attached to lower the sound level by a few dB for those who want it to be quieter.

As all parts can be disassembled, it provides convenience during service and / or maintenance.

#### » FVK A+ Series

*With Dryer+ Mount On + With Inverter  
Compact Screw Compressors*

The FVKA + series is created by installing an inverter to give the motor a variable speed to save energy in the FVK A series.

The inverter helps the motor to turn at different speeds and to supply air to the plant as needed. Since the motors do not turn at full speed and they supply enough air to meet the plant's needs, they will draw as much current as they need, so they will save a considerable amount of energy.

The inverter also allows slow start and stop of the motor. This extends the life of the materials used.



#### Technical Features

Model	Kw/Hp	Working Pressure			Sound Level dB-A	Connection Dimension
		8 Bar Lt/min	10 Bar Lt/min	13 Bar Lt/min		
FVK 11 A	11/15	1700	1500	1200	69	¾"
FVK 15 A	15/20	2250	1950	1700	69	¾"
FVK 18,5 A	18,5/25	3000	2700	2400	70	1"
FVK 22 A	22/30	3600	3200	2700	71	1"
FVK 30 A	30/40	5100	4400	3700	72	1 ¼"
FVK 37 A	37/50	6500	5200	4800	72	1 ¼"



Model	Kw/Hp	8 Bar Lt/min	Sound Level dB-A	Connection Dimension
FVK 11 D / DVS A	11/15	1650	69	¾"
FVK 15 D / DVS A	15/20	2200	69	¾"
FVK 18,5 DVS A	18,5/25	3000	70	1"
FVK 22 D / DVS A	22/30	3600	71	1"
FVK 30 DVS A	30/40	5100	72	1 ¼"
FVK 37 D / DVS A	37/50	6500	72	1 ¼"





# Screw Compressor

## Belt Drive Series

### BELT DRIVE SERIES

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#### » FVK C Series

*With Tank Compact Screw Compressors*



Filo screw compressors exist for presenting the best and most efficient service to you thanks to the experience of 40 years experience by our company along with quality native and foreign suppliers and successful workmanship studies complying with the global standards and for ensuring maximum performance and efficiency in your production thanks to the R&D studies which is getting bigger and bigger day by day.

With tank compact screw compressors produced by our company have been designed for taking small space with their compact design in power range between 3hp to 20 hp. It is an ideal solution for small and medium sized enterprises which have space shortage. It has no difference from normal screw compressors in view of working principal. Only it has saved on space by mounting both compressor and dryer on a horizontal tank and also has cancelled out the pressure loss which may be formed during air transfer since connection ways are short.

#### » FVK Series

*Standard Screw Compressor*



Filo standard screw compressors use airends having registered high efficiency. They have high-efficiency sensitive rotors having big compressing area. Maintenance cost of our air ends is rather low because the ball bearings which can carry big loads and have long working life are used. Furthermore, the R&D studies performed by our company for the purpose of continuous development have increased the efficiency and performance to which we obtained from the air ends to maximum degrees.

Filo air compressors were manufactured in power range from 3hp to 270hp along with low noise level, high performance and efficiency for small, medium and big sized enterprises.

#### Technical Features

Model	Kw/Hp	Working Pressure			Sound Level dB-A	Connection Dimension	Weight Kg
		8 Bar Lt/min	10 Bar Lt/min	13 Bar Lt/min			
FVK 2,2	2,2/3	390	-	-	65	½"	200
FVK 3	3/4	400	380	370	65	½"	200
FVK 4	4/5,5	600	450	360	66	½"	205
FVK 5,5	5,5/7,5	800	680	550	66	½"	205
FVK 7,5	7,5/10	1150	960	800	70	¾"	230
FVK 11	11/15	1700	1500	1200	70	¾"	230
FVK 15	15/20	2250	1950	1700	72	¾"	300
FVK 18,5	18,5/25	3000	2700	2400	73	1"	430
FVK 22	22/30	3600	3200	2700	73	1"	450
FVK 30	30/40	5100	4400	3700	75	1 ¼"	720
FVK 37	37/50	6500	5200	4800	75	1 ¼"	750
FVK 45	45/60	7200	6200	5300	76	1 ½"	1000
FVK 55	55/75	9600	8500	6500	76	1 ½"	1100
FVK 75	75/100	12400	9600	8200	78	2"	1700
FVK 90	90/125	15000	13000	11000	78	2"	2200

#### Advantages of Filo Screw Compressors

- High performance
- Low noise level
- Long working life
- Low maintenance cost
- Time saving during maintenance
- Excellent efficiency
- Easiness in supplying spare part
- Energy saving
- Switching possibility between pressures
- Easy access to each point of machine thanks to compact body design



Filo Compressor  
Direct Drive Series



Filo Compressor

» FVK D Series

Direct Drive (Coupling)  
Screw Compressors

Direct drive systems are the screw compressor systems manufactured by connected motor with airend directly. Direct drive screw compressors ensure energy saving significantly thanks to their superior performance. Making motion and energy transfer with only the help of a coupling comparing to the systems having belt-pulley connection minimizes energy losses caused from friction.

Although the gaining obtained in small compressors is unimportant, the saving which is ensured in big and more powerful compressors has reached significant amounts.

Filo direct drive compressors have been manufactured specially by taking user's air requirements into consideration.

Model	Kw/Hp	8 Bar Lt/min	Sound Level dB-A	Connection Dimension	Weight Kg
FVK 11 D	11/15	1650	70	¾"	250
FVK 15 D	15/20	2200	72	¾"	280
FVK 22 D	22/30	3600	73	1"	480
FVK 37 D	37/50	6200	75	1 ¼"	720
FVK 45 D	45/60	7100	76	1 ½"	1220
FVK 55 D	55/75	9150	77	1 ½"	1300
FVK 75 D	75/100	12000	78	2"	1850
FVK 90 D	90/125	14800	78	2"	2300
FVK 110 D	110/150	18700	79	2"	2950
FVK 132 D	132/180	22000	79	2"	3300
FVK 160 D	160/220	24500	79	2 ½"	4100

» FVK DVS Series

Direct Drive Screw Compressors with Inverter

Filo DVS series are the compressors designed specially for setting air ends to different rotation by using inverter.

Our DVS models have much more efficiency comparing to other standard screw compressors in view of energy efficiency. In normal screw compressors, machine shall pass to idle mode when it reached at set point pressure value. Since motor shall continue to rotate in the same rpm when the machine passed into idle mode, an unnecessary energy loss have occurred. In our DVS models, motor shall run in minimum rpm when compressor passes to idle mode. Furthermore, motor shall rotate according to the flow rate of your need even if compressor is loaded. Motor has ensured significant energy saving since it did not rotate in full rpm. Inverter usage ensures soft start and stop in motor with the help of a suitable control and command system as well as increases life of equipment used in compressor and consequently decreases maintenance costs.

Model	Kw/Hp	8 Bar Lt/min	10 bar Lt/min	Sound Level dB-A	Connection Dimension	Weight Kg
FVK 11 DVS	11/15	1700	1500	70	¾"	280
FVK 15 DVS	15/20	2400	2000	72	¾"	310
FVK 22 DVS	22/30	3800	3450	73	1"	510
FVK 30 DVS	30/40	5200	4500	74	1 ¼"	650
FVK 37 DVS	37/50	6600	5700	75	1 ¼"	760
FVK 45 DVS	45/60	7400	6650	76	1 ½"	1250
FVK 55 DVS	55/75	9600	8400	76	1 ½"	1350
FVK 75 DVS	75/100	12600	10800	78	2"	1950
FVK 90 DVS	90/125	15300	13800	78	2"	2380
FVK 110 DVS	110/150	19800	17100	79	2"	3100
FVK 132 DVS	132/180	23600	20000	79	2"	3400
FVK 160 DVS	160/220	27800	24400	79	2 ½"	4300
FVK 200 DVS	200/250	35600	30600	79	2 ½"	4800



# Air Dryer

## Gas Cooled Dryers

## AIR DRYER

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### » FK Series

#### Filo Air Dryers

Since the compressed air obtained in compressors is achieved from normal atmospheric air, it contains water vapour in a certain amount. This moisture combined with air leaves the compressor in certain pressure and temperature values. Under effect of change in pressure and temperature, moisture starts to condense. If this condensed water is not controlled, it liquefies in compressed air installation and may cause problems in some precise devices.

At this point, air dryers are required. Driers are the systems which dry the air by removing water which is condensed by heating and cooling compressed air from the system.

Filo air dryers are designed in such a way that it shall ensure max. thermal absorption with the gas it used. They are preferred because of their usage easiness, economic and simple maintenance processes. Our air dryers exist for using in all systems with the capacity from 1.2 m<sup>3</sup> to 50 m<sup>3</sup>.

#### Advantages of Filo Gas-Cooling Dryers

- It ensures that the equipment has longer service life time.
- It prevents equipment rusting by condensing water vapour during compression process.
- It ensures energy saving by means of smart automatic discharge.
- There are fast access to all parts and thereby easy maintenance.
- It increases quality.
- It prevents workmanship loss.
- It decreases maintenance costs.



Model	Flow Rate (m <sup>3</sup> /min)	Connection Dimension	V Hz	Max. Working Pressure	Gas-Cooling	Weight (kg)
FK 1200	1,2	1/2"	220 V - 50 Hz	13 Bar	R 134a	38
FK 1800	1,8	3/4"	220 V - 50 Hz	13 Bar	R 134a	40
FK 2600	2,6	3/4"	220 V - 50 Hz	13 Bar	R 134a	45
FK 3000	3	1"	220 V - 50 Hz	13 Bar	R 134a	65
FK 3800	3,8	1"	220 V - 50 Hz	13 Bar	R 134a	70
FK 4500	4,5	1 1/2"	220 V - 50 Hz	13 Bar	R 134a	80
FK 6600	6,6	1 1/2"	220 V - 50 Hz	13 Bar	R 134a	90
FK 8500	8,5	2"	380 V - 50 Hz	13 Bar	R 404a	150
FK 10500	10,5	2"	380 V - 50 Hz	13 Bar	R 404a	175
FK 12000	12	2"	380 V - 50 Hz	13 Bar	R 404a	200
FK 16500	16,5	2 1/2"	380 V - 50 Hz	13 Bar	R 407c	300
FK 20000	20	DN 80	380 V - 50 Hz	13 Bar	R 407c	350
FK 25000	25,5	DN 80	380 V - 50 Hz	13 Bar	R 407c	450
FK 30000	30	DN 100	380 V - 50 Hz	13 Bar	R 407c	500
FK 40000	40	DN 100	380 V - 50 Hz	13 Bar	R 407c	550
FK 50000	50	DN 100	380 V - 50 Hz	13 Bar	R 407c	600



# Air Dryer

## Chemical Dryers



### » CA Series

#### Filo Chemical Dryers

Chemical dryers are designed for applications requiring dry and clean air. Especially in pneumatic equipment, in dyeing plants, at points in the food industry where there is contact or a risk of contact with the products, in the pharmaceutical industry, laser cutting, hospitals, etc. sectors, a clean air without moisture and various particles is required. It is highly important that the compressed air used in valuable equipment used in such places is clean and dry.

To meet the clean air needs of plants, the Filo CA series chemical dryers are specially designed considering the technical values.

Constantly -40 ° C dew point ensures that the air is dry, while the line filters installed in the inlet and outlet ensure that the air is cleaned.

Filo chemical dryers maximize efficiency by causing very low-pressure losses compared to other air dryers.

Special silencers are used to reduce the volume during discharge.

Thanks to its compact design, it has a special structure that does not take up much space.

It has been specially designed for the purposes of easy disassembly and assembly and saving time during maintenance and service.



Model	Flow Rate (m³/min)	Flow Rate (m/h)	Connection Dimension	V Hz	Max. Working Pressure
CA 12	1,2	60	1"	220 V - 50 Hz	13 Bar
CA 20	2	120	1"	220 V - 50 Hz	13 Bar
CA 26	2,6	156	1"	220 V - 50 Hz	13 Bar
CA 30	3	180	1"	220 V - 50 Hz	13 Bar
CA 40	4	240	1"	220 V - 50 Hz	13 Bar
CA 50	5	300	1 1/2"	220 V - 50 Hz	13 Bar
CA 65	6,5	390	1 1/2"	220 V - 50 Hz	13 Bar
CA 90	9	540	1 1/2"	220 V - 50 Hz	13 Bar
CA 105	10,5	630	2"	220 V - 50 Hz	13 Bar
CA 120	12	720	2"	220 V - 50 Hz	13 Bar
CA 165	16,5	990	2"	220 V - 50 Hz	13 Bar



# Air Dryer

## Absorption (Desiccant) Dryer

### » FF Series

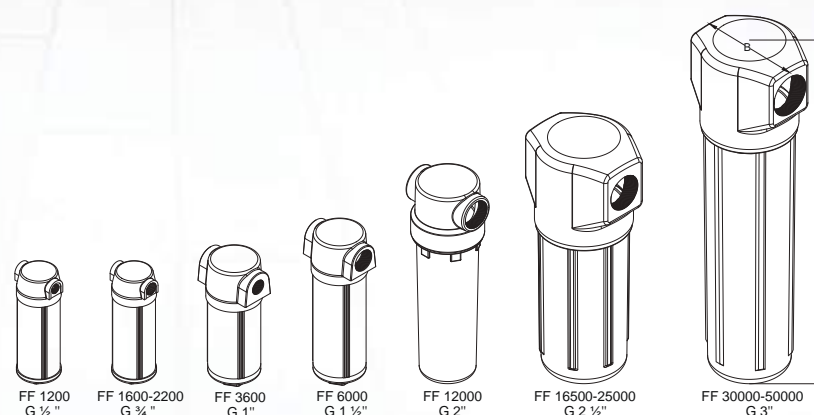
#### Filo Line Filters

Compressors have received dust and other particles as well as various gases apart from humidified air from atmosphere depending on the place where compressor works. Although a great amount of dust and particles is trapped in filters which exist in the compressor, various gases and rather small particles can exit compressor along with the air and they be given to the installation. The compressed air should be given to the installation after it is filtered so that the particles and parts have not give damage to machines. Therefore line filters are required.

Filo line filters have the capacity of meeting entire requirement of your enterprise. We can supply filters in all sizes for each machine support to our wide product range.



Model	FF 1200	FF 1600	FF 2200	FF 3600	FF 6000	FF 12000	FF 16500	FF 25000	FF 30000	FF 50000
Air Flow (m³/min)	1,2	1,6	2,2	3,6	6	12	16,5	25	30	50
Working Pressure (Bar)	13									
Usable Filter Elements	GF / CF / AC									
A (mm)	247	247	247	281	341	448	530	530	760	760
B (mm)	93	93	93	130	130	155	220	220	220	220







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