

MADE IN ITALY



INDUSTRIAL range



CUBE SD

Silenced Rotary
Screw Compressors



Fixed Speed
4-7.5 kW

CUBE SD

Silenced rotary screw compressors

only
63 dB(A)

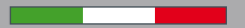


POWER: 4 - 5.5 - 7.5 kW

MAX. PRESSURE: 10 bar

Main features and advantages

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Reliable direct transmission for energy saving

The whole power of the electric motor is then transferred to the airend with maximum efficiency and reliability of operation. Rotar CUBE SD series are built for continuous duty in very hard conditions of use. The design of the machine has been focused not only on power consumption, but also on maintenance and operational costs and installation ease. The Cube SD range represents an outstanding machine in the compressed air market also due to the integrated refrigerating dryer which can be host in the compressors frame, with no change in shape or dimensions.

Compact and silent

The Rotar CUBE SD models are available with power from 4 to 7.5 kW and noise level between 63 and 68 dB(A). The whole machine is extremely silent and compact with balanced dimensions.

Cooling system

An axial fan grants the optimal cooling air flow through an oversized heat exchanger. The fan operation is thermostatic controlled by ETMII controller monitoring the airend operational temperature. All air and oil pipes are made of heat-resistant rubber.

Control of the working pressure with transducer

It guarantees an accurate and stable operation during the time. The transducer allows direct modification of the working pressure from the electronic controller without any mechanical intervention. Actual pressure and temperature are always displayed on the controller.

Simple maintenance

All of the internal mechanical and service parts are easy to access, for fast and simple routine maintenance.

Low noise level

CUBE SD compressors are very quiet: the use of very efficient soundproofing materials means that they are suitable for installation in any working environment.



Available versions:

- floor mounted compressor
- compressor + air receiver
- compressor + air receiver + air dryer (air receiver: 270 or 500 liters)

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Main components



Transmission

The drive between the air-end and electric motor is carried out by means of gearless direct connection. Optimal power transmission and maximum reliability and efficiency. A dedicated air-end for any machine at any pressure in order to grant maximum performance in the complete range. The small dimensions of the screw-engine connecting system allows to realize a very compact machine.



Integrated air dryer

ROTAR CUBE SD is available in "ES" version with integrated dryer, entirely included in the machine.

Immediately ready to operate without any installation effort.

It provides clean, dry air that improves the system's reliability, avoids costly downtime and production delays, and safeguards the quality of your products.

The dryer is equipped with a control panel and a timed condensate drain.



SPIN-ON filters

Routine service parts that are simple to replace offering long service intervals for lower maintenance costs.

Oil separator tank

Comply with the CE 87/404 regulation and assure an excellent oil-air pre-separation, increasing the efficiency of the oil separating filter.



Intake regulator

IR10 intake regulator designed and manufactured by Fini.



Easily transportable

The machine is particularly easy to lift with a fork truck or hand truck thanks to a steel bar secured between the feet at the base of the air receiver (both at the front and to the side).

Condensate ball valve

Receiver-mounted models with ball valve for convenient discharge of condensate (refer to local regulations).



ETMII advanced controller

Controller with multi-function backlight display, the menu is alphanumeric type. The main screen display indicates:

- Working pressure (offload/load);
- Oil temperature;
- Total working hours;
- On-load working hours;
- Compressor status led (stand-by, offload, load);
- Hours remaining before maintenance.

Four maintenance timers (air filter, oil, oil filter, oil separator).

- Automatic re-start after power failure (subject to safety conditions).
- Cooling fan temperature control.
- Compressor remote start facility.
- Integrated phase sequence relay.



FS 26TFC High performance screw air-end

The Fini air ends are entirely designed, produced and tested at our Italian facilities: the special design of the screw profile ensures high performance, low temperature and reduced energy consumption.



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Technical data

Code	ℓ	Product	Compressor		AIR			MAX		dB(A)	BSP	L x D x H (cm)	Weight	
			kW	HP	l/min.	m³/h	c.f.m.	bar	psi				kg	Lbs
FLOOR MOUNTED														
V51PD92FNM043	–	CUBE SD 510	4	5,5	460	27,6	16,2	10	145	63	1/2"	65 x 58 x 80	101	223
V51PE92FNM043	–	CUBE SD 710	5,5	7,5	705	42,3	24,9	10	145	68	1/2"	65 x 58 x 80	103	227
V51PO92FNM043	–	CUBE SD 1010	7,5	10	1050	63	37,1	10	145	67	1/2"	65 x 58 x 80	113	249
WITH AIR RECEIVER														
V91PD92FNM001	270	CUBE SD 510-270F	4	5,5	460	27,6	16,2	10	145	63	1/2"	120 x 60 x 150	185	408
V91PE92FNM001	270	CUBE SD 710-270F	5,5	7,5	705	42,3	24,9	10	145	68	1/2"	120 x 60 x 150	187	412
V91PO92FNM001	270	CUBE SD 1010-270F	7,5	10	1050	63	37,1	10	145	67	1/2"	120 x 60 x 150	197	434
V83PO92FNM001	500	CUBE SD 1010-500F	7,5	10	1050	63	37,1	10	145	67	1/2"	200 x 60 x 150	229	505
WITH AIR RECEIVER AND DRYER														
V91PE92FNM101	270	CUBE SD 710-270F ES	5,5	7,5	705	42,3	24,9	10	145	68	1/2"	120 x 60 x 150	211	465
V91PO92FNM101	270	CUBE SD 1010-270F ES	7,5	10	1050	63	37,1	10	145	67	1/2"	120 x 60 x 150	220	485
V83PO92FNM101	500	CUBE SD 1010-500F ES	7,5	10	1050	63	37,1	10	145	67	1/2"	200 x 60 x 150	279	615

Optional


#448417000	Air dryer
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Long Life Kit

The "FSN" brand states the originality of the components, which are specifically manufactured and tested to be used on our compressors. The use of original, certified spare parts guarantees the efficiency and reliability of the compressor, extending its lifespan and lowers management costs.

The experience we have acquired in over 65 years of business in the compressed air industry has led to the creation of the "Long Life Kit", specifically conceived to extend compressor lifespan upon the first service tasks. Easy and intelligent solutions to keep the compressor as though it were "brand new".

SCHEDULED MAINTENANCE				
	1,000 hrs <i>(or every year)</i>	2,000 hrs * <i>(or every year)</i>	4,000 hrs	12,000 hrs
		KIT A	KIT B	KIT E
- 1 Air filter cartridge		- 1 Air filter cartridge - 1 Oil filter cartridge - 1 Separator cartridge	- 1 x 2,000 hrs kit - 1 Oil check valve	- 1 x 4,000 hrs kit - 1 Minimum pressure valve - 1 Solenoid valve
CUBE SD 510 CUBE SD 710 CUBE SD 713 CUBE SD 1010 <i>up to 2017/02/25</i> CUBE SD 1013 <i>up to 2017/02/25</i> CUBE SD 1010 <i>starting from 2017/02/26</i> CUBE SD 1013 <i>starting from 2017/02/26</i>	#017092000	#260KTA15E	#260KTB24E	#260KTE1HE
		#260KTA16E	#260KTB84E	#260KTE1KE
		 * We recommend to change oil every 2,000 hours or every year. We suggest to use our oil: 1 x #600000018A (RotEnergyPlus Oil - 46 cSt - 3.8 Ltr bottle (3.25 kg))		

SINGLE COMPONENTS				
	4,000 hrs	12,000 hrs		24,000 hrs
	Oil check valve	Intake regulator kit	Minimum pressure valve kit	Solenoid valve
				Air-end
CUBE SD 510 CUBE SD 710 CUBE SD 713 CUBE SD 1010 <i>up to 2017/02/25</i> CUBE SD 1013 <i>up to 2017/02/25</i> CUBE SD 1010 <i>starting from 2017/02/26</i> CUBE SD 1013 <i>starting from 2017/02/26</i>	#012097000	#260249050	#347111000	#008195010
				#5303000210
				#5303000705
				#5303000210
				#5303000705
				#5303000210
				#5303000705

Please refer ALWAYS to the User and Maintenance Manual of your compressor in order to clearly identify the right components and actions to do for the maintenance.

A wide range of solutions for industrial applications



Gearless direct drive oil-injected screw compressors, from 5.5 to 15 kW power, fixed and variable speed.



Gearless direct drive oil-injected screw compressors, from 22 to 37 kW power, fixed and variable speed.



Belt-driven oil-injected rotary screw compressors, from 2.2 to 75 kW power, fixed and variable speed.



Gearless direct drive oil-injected screw compressors, from 75 to 250 kW power, fixed and variable speed.



Oil-free spiral scroll compressors, from 2.2 to 22 kW power, single or multi-scroll, fixed speed.



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