

MADE IN ITALY



INDUSTRIAL range



CUBE SD

Silenced Rotary
Screw Compressors



Fixed Speed
4-7.5 kW



CUBE SD

Silenced rotary screw compressors

Main features and advantages

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.



only
63 dB(A)



POWER: 4 - 5.5 - 7.5 kW

MAX. PRESSURE: 10 bar

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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			 AIR									
			kW	HP	l/min.	m³/h	c.f.m.	bar	psi				dB(A)	BSP
FLOOR MOUNTED														
V51PD92FNM043	—	CUBE SD 510	4	5,5	460	27,6	16,2	10	145	63	1/2"	65 x 58 x 80	108	238
V51PE92FNM043	—	CUBE SD 710	5,5	7,5	705	42,3	24,9	10	145	68	1/2"	65 x 58 x 80	101	223
V51PO92FNM043	—	CUBE SD 1010	7,5	10	1050	63	37,1	10	145	67	1/2"	65 x 58 x 80	115	254
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	185	408
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	242	534
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	206	454
V91PO92FNM101	270	CUBE SD 1010-270F ES	7,5	10	1050	63	37,1	10	145	67	1/2"	120 x 60 x 150	218	481
V83PO92FNM101	500	CUBE SD 1010-500F ES	7,5	10	1050	63	37,1	10	145	67	1/2"	200 x 60 x 150	263	580

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		
every 2,000 hrs (or every year)	every 4,000 hrs (or every year)	every 8,000 hrs
MINERAL OIL	SYNTHETIC OIL	SYNTHETIC OR MINERAL OIL
KIT A		KIT B
1 Air filter cartridge 1 Oil filter cartridge 1 Separator cartridge 1 Oil check valve		1 Kit A 1 Solenoid valve
CUBE SD 510	#260KTB24E	#260KTE1HE
CUBE SD 710		
CUBE SD 1010	#260KTB84E	#260KTE1KE

SINGLE COMPONENTS			
every 4,000 hrs	every 8,000 hrs	every 20,000 hrs	
Intake regulator kit	Minimum pressure valve kit	Air-end kit	Air-end
CUBE SD 510	#260249050	#230300200	#5303000210
CUBE SD 710			#5303000705
CUBE SD 1010			#5303000210

Oil

Our FSN lubricants - whether synthetic or mineral - have been specially developed for our screw compressors top quality operativity in cooperation with a world leading manufacturer of Industrial lubricants. Available in various packaging formats and capacities and in multiple or 'bulk' packages.



Rotar ECOFLUID 46 cSt oil - Mineral base

#600000020	1 x 3.8 L (3.3 kg) tank
#600000021	1 x 20 L (17.36 kg) tank
#600000022	1 x 200 L (174 kg) drum

Formulated with high quality selected mineral base oils enhanced with advanced anti-oxidants, anti-wear (zinc free), rust preventers and antifoams, offers an optimal control of oxidation and residue deposits as well as an excellent level of thermal stability and oxidation to ensure the longevity of equipment and long life performances.



RotEnergy Plus 46 cSt oil - Synthetic base

#600000018A	1 x 3.8 L (3.25 kg) tank
#600000009A	4 tanks x 3.8 L (3.25 kg) each
#600000007A	1 x 19 L (16 kg) tank
#600000012A	1 x 208 L (181 kg) drum

Ensures low operating temperatures, efficient water separation, reduces friction and energy consumption, extends maintenance intervals, ensures excellent lubrication of the bearings, guaranteeing maximum all round protection.



RotEnergyFood 46 cSt oil - Synthetic base

#600000014A	4 tanks x 3.9 L (3.25 kg) each
#600000016A	1 x 19 L (18.5 kg) tank
#600000017A	1 x 208 L (175 kg) drum

High-quality lubricant for rotary screw compressors, suitable for use in the food industry, where specific quality standards are required.

We recommend changing the oil according to the intervals reported in the use and maintenance manual of the compressor or once a year. We suggest using our RotarECOFLUID or RotEnergy oil (that are not included in the Long Life Kit).

A wide range of solutions for industrial applications



MICRO - PLUS

Oil-injected rotary screw compressors, with belt transmission, at fixed or variable speed and power values from 2.2 to 75 kW.



K-MAX

Oil-injected rotary screw compressors, with direct transmission with or without gears, at fixed or variable speed and power values from 5.5 to 90 kW.



TERA

Oil-injected rotary screw compressors, with direct transmission without gears, at fixed or variable speed and power values from 110 to 250 kW.



OS Scroll

Single and multi-scroll fixed speed oil-free compressors with power values from 2.2 to 30 kW.



AIR TREATMENT

Air driers, filters, accessories and a wide range of products for compressed air treatment.

cunha  mendes cunha, lda
Equipamentos Industriais

email:cmc@cmc.pt

web:www.cmc.pt

