

ULTRA CONTROLLO

ULTRAAR SCA®



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Medical Air Production Unit - ULTRAAR SCA

The ULTRAAR Compressed Air Plant is a modular, oil-free, medical air production system that meets the specifications of ISO 7396-1. ULTRAAR is a medical device, class IIb.

SYSTEM COMPONENTS

ULTRA CONTROLLO COMPRESSOR SCROLL SC

Oil-exempt scroll compressor groups, multi-modulable, equipped with high efficiency motor with class F insulation, approved by the CE Directive. Each compressor with the following characteristics:

- V-belt driven;
- Air-cooled with a large passage radiator;
- Assembly on a frame without the need for a clean foundation, with anti-vibration supports;
- With few service requirements;
- TEFC electric trigger motor;
- Pressure relief valve to relieve pressure;
- Refrigeration fan mounted on the main shaft of the compressor;
- High temperature safety valve and non-return valve;
- Cyclonic separator, including electronic condensate drain.

ULTRASEC High Efficiency Refrigeration Dryer

The plant is equipped with a high efficiency refrigeration dryer with the following features:

- No air loss to reduce the cost of the operation;
 - Equipped with a top-of-the-range aluminum heat exchanger, designed for ideal drying;
 - Dew point indicator (in an LCD);
 - Dry contact alarm for economical and safe operation;
 - Mounting in a metal cabinet for optimized protection against mechanical damage and dust accumulation;
 - Control panel with digital temperature indicator; Condensate drain with electronic control.
- The dew point is maintained regardless of the working pressure and even with variations in the working conditions, the pressure loss is always kept low. Please also note that all the components of this dryer have been chosen with the maximum respect for the environment and they are all recyclable materials.



Ultraceco SCA Compressor

Performance Data

Operating pressure	10 bar
Air flow at maximum pressure	1.2 m ³ / h
Power	2,2 KW
Voltage	400V
Frequency	50Hz
Phase	3 AC
Air outlet	G 3/4 "
Control voltage	220V / 50Hz / 1 AC
Ambient temperature	+ 1 to + 45 ° C



Electrical Control Panel including

- General power cut-off switch placed on the door;
- Protection of the primary and secondary circuit through fuses;
- Main source with circuit breakers for the air handling units;
- Main source with circuit breakers for automatic electronic purges;
- Manual / Off / Automatic selector for each compressor;
- Compressor running signal, for each compressor;
- Compressor failure signal, for each compressor;
- Hour meter, for each compressor;
- All alarms with free interface potential for remote signaling;
- Thermal-magnetic circuit breaker with protection against circuit or thermal overload with manual reset;
- Prepared to receive alarm cables without the need for new perforations.



All frames allow the compressors to be switched from automatic mode (with alternation between compressor, in order to guarantee uniform wear) or to manual mode when a compressor is removed for preventive maintenance. Each compressor is equipped with its own pressure switch for automatic starting and stopping according to the pressure previously set so that these modes are available and so as to guarantee the continuous supply of the network at the preset regulation pressure.

Pressure Reducing Kit with Integrated Sterilization Filter

The unit is equipped with pressure regulators, duplex, with air sterilization filter, including:

Manual purge;

Manometer for precision adjustment supplied to the network;

Regulators with safety valve and non-return to maintain pressure on the network according to the adjustment of the reducer;

Block valves on each module, allowing switching between them for maintenance.

The sterilization filter guarantees the introduction of sterile air into the network, being necessary the periodic sterilization of the filter element.

CHARACTERISTICS

Medical air characteristics provided for in the European Pharmacopoeia guaranteed by ULTRAAR SC

Medical air quality guaranteed by ULTRAAR SC®:

Particles	<1 micron
Oil Fluid Phase	Oil Free
Hydrocarbon vapors	<0.003 mg / m ³
CO ₂	<300 ppm
CO	<5 ppm
SO _X	<1 ppm
NO _X	<2 ppm
Nominal dew point	- 46° C
Flavors and smells	Null

Maximum temperature of the compressed air inlet:
ULTRAAR standard: 70° C
ULTRAAR – HT: 100° C

Technical characteristics

Capacity	12 Nm ³ / h @ 10 bar
Normal operating pressure	7.5-7.9 bar
Maximum pressure	10 bar
Power	2.2 kW, 400 V / 50 Hz

Our medical devices are very simple and easy to install.

All the main components are prepared in our factory. All systems are tested and predefined before leaving our factory, making work much easier. For more additional information, please do not hesitate to contact us at any time.

Technical specifications

MODEL ULTRACECO-SCA	PRESSURE		CAPACITY				MOTOR 50/60 Hz 208 - 440 V		DIMENSIONS L x W x H	WEIGHT kg
	bar	psig	l/s	m3/min	cfm	m3/h	kw	hp	mm	
SCA 1	8	116	2,7	0,16	5,7	9,6	1,5	2	650 x 800 x 630	55
SCA 2	8	116	4	0,24	8,5	14,4	2,2	3	650 x 800 x 630	60
	10	145	3,4	0,2	7,1	12	2,2	3	650 x 800 x 630	60
SCA 4	8	116	6,7	0,4	14,1	24	4	5,5	1010 x 720 x 740	92
SCA 5	8	116	10	0,6	21,2	36	5,5	7,5	1010 x 720 x 740	93
	10	145	7,4	0,44	15,6	26,4	5,5	7,5	1010 x 720 x 740	93
SCA 7	8	116	14,2	0,85	30	51	7,5	10	1010 x 720 x 740	93
SCA 21	8	116	5,4	0,32	11,4	19,2	3	4	650 x 800 x 1120	120
SCA 22	8	116	8	0,48	17	28,8	4,4	6	650 x 800 x 1120	130
	10	145	6,8	0,4	14,2	24	4,4	6	650 x 800 x 1120	130
SCA 24	8	116	13,4	0,8	28,2	48	8	11	1010 x 720 x 1340	188
SCA 25	8	116	20	1,2	42,4	72	11	15	1010 x 720 x 1340	190
	10	145	14,8	0,88	31,2	52,8	11	15	1010 x 720 x 1340	190
SCA 27	8	116	28,4	1,7	60	102	15	20	1010 x 720 x 1340	190
SCA 31	8	116	8,1	0,48	17,1	28,8	4,5	6	650 x 800 x 1610	178
SCA 32	8	116	12	0,72	25,5	43,2	6,6	9	650 x 800 x 1610	193
	10	145	10,2	0,6	21,3	36	6,6	9	650 x 800 x 1610	193
SCA 34	8	116	20,1	1,2	42,3	72	12	16,5	1010 x 720 x 1940	284
SCA 35	8	116	30	1,8	63,6	108	16,5	16,5	1010 x 720 x 1940	287
	10	145	22,2	1,32	46,8	79,2	16,5	22,5	1010 x 720 x 1940	287
SCA 37	8	116	42,6	2,55	90	153	22,5	6	1010 x 720 x 1940	287
SCA 41	8	116	10,8	0,64	22,8	38,4	6	8,8	600 x 1600 x 1120	233
SCA 42	8	116	16	0,96	34	57,6	8,8	8,8	600 x 1600 x 1120	253
	10	145	13,6	0,8	28,4	48	8,8	16	600 x 1600 x 1120	253
SCA 44	8	116	26,8	1,6	56,4	96	16	22	1110 x 1440 x 1340	344
SCA 45	8	116	40	2,4	84,8	144	22	22	1110 x 1440 x 1340	380
	10	145	29,6	1,76	62,4	105,6	22	30	1110 x 1440 x 1340	380
SCA 47	8	116	56,8	3,4	120	204	30	40	1110 x 1440 x 1340	380

Capacities measured according to ISO I217, Annex C, latest version. Noise level measures at 1 m according to PneuopCagi PN8NTC2.
Reference Conditions: Absolute inlet pressure 1 bar (14.5 psig). Suction temperature 20 ° C

