

ULTRA CONTROLO

ULTRAAR SC®



Oil-less Medical Air Plants

Made in Portugal

ULTRAAR SC

ULTRAAR® SC Systems

ULTRAAR is a registered trademark for the totally oil-free medicinal compressed air supply systems, designed and developed by Ultra Controlo. Implemented since 1997, the aim is providing the best quality breathable air that can be produced by the Hospital. ULTRAAR is one of the impressive outcomes of over 30 years of experience implementing new technologies in compressed air treatment systems and process control applied in hospital environments, by Ultra Controlo's Engineering Department.

ULTRAAR® Secrets

The installation of an ULTRAAR, rated as class IIb, active medical device, provides to any hospital a complete peace of mind and security in production of medicinal air, considered today by the European Pharmacopoeia, and fortunately, as a medicine.

Possessing a medical compressed supply system, ULTRAAR, Hospitals enhance the quality of service given to patients, as they guarantee the delivery of medicinal air, truly breathable, completely free of contaminants. Also, it provides an excellent contribution in reducing expenditure on the production of medicinal air and contributes to the preservation of our planet since it uses completely clean process and free of pollutants.

THE SMART CHOICE

Basic configuration

- 1,2,3 or more oil-less compressors;
- 1,2,3 air treatment units and air dryers equipped with 'zero-loss' electronic condensate drains;
- 1 or more electrical control panel;
- 1,2 or more air receivers;
- 1,2 or 3 sets of pressure reduction system with pressure gauges including sterile filters, isolation valves and test valves;
- 1 set of valves and safety devices for smooth operation and long life of the equipment.

ULTRAAR® SC end of troubles

With an ULTRAAR, the hospital gets, once and for all, free of all the dangers involved with the production of poor medical air quality, derived from the oil injection into medical air network, carried out by oil lubricated screw, vane or piston compressors in the existing installations.

Hospitals will get rid of other problems due to the frequent oil spills in the ground or pushed to the environment during pressure release in idle operation of the compressor. Besides, hospitals will avoid the huge costs of separation and collection of oils from the condensate network, ending all the filth that pervades the 'medical' air plants equipped with lubricated compressors.

Regulation compliance

ULTRAAR medical air supply systems produces breathable air in the safest way without any risks to health and with a quality that surpasses all international requirements in force, including European Pharmacopoeia.

ULTRAAR is constructed according to EN ISO 7396-1 standard and fulfills HTM 02 Technical Specifications. ULTRAAR® bears the CE-medical mark (CE 0120) complying the European Directive 93/42/EEC. ULTRAAR is manufactured under ISO 13485 Quality Management System.



Air quality in accordance with the European Pharmacopoeia	
Particles	< 1 μ m
Oil (fluid phase)	Exempt
Oil vapor and hydrocarbons	Exempt
CO ₂	< 500 ppm
CO	< 5 ppm
SO ₂	< 1 ppm
NO _x	< 2 ppm
Working dew point	- 46 °C
Maximum dew point	- 70 °C
Tastes and smells	Exempt

COMPONENTS

ULTRACECO SC compressors

The ULTRAAR SC series comes equipped with the latest spiral compressor technology, totally oil-free, ULTRACECO SC.

This electro-compressor group includes:

- High efficiency electric motor;
- Suction protection filter;
- Non-return and safety valve;
- Final aluminum cooler;
- Isolation valve;
- Metallic chassis.

Receivers

Receivers in vertical construction with capacities from 0.2 to 6 m³, hot-dip galvanized treatment, painted outside with epoxy, and fitted with safety devices: Calibrated safety valve, pressure gauge, manual drain valve and automatic electronic drain valve with stainless steel mesh filter. Prepared to receive an additional emergency compressor.

We project and conceive Medical Air Plants ULTRAAR® ESW with 1 to 8 compressors and with other different configurations. Besides, we can recommend you the best solutions for your needs according to the work regime and your technical specifications. We can also optimize the existent Medical Air Plant, reducing the operation costs. For any enquiry, feel free to contact our Engineering Department.

PROVEN QUALITY, YEAR AFTER YEAR

- Perfect control of the air quality delivered to the patient, totally risk-free;
- Clean air production process complying with the directive 96/61 EEC, environmentally friendly;
- Pressure losses permanently very low keeping, over use, a constant flow;
- Ultragest control and unclogged filter ensure low power consumption and money savings in spare parts;
- Remote monitoring system 24h available;
- Management System and/or central alarm net-work;
- Electric Control Box
- Analogue Control;
- Digital Control;

RAISING QUALITY STANDARDS IN MEDICAL GASES

	MODEL ULTRACECO SC	PRESSURE bar	POWER			TREATED AIR CAPACITY	
			kW	Hp	l/min	m3	litros
1 SKID	SC 1 - 8	8	1,5	2	160	9,6	100
	SC 2 - 8	8	2,2	3	240	14,4	100
	SC 2 - 10	10	2,2	3	200	12	100
	SC 4 - 8	8	4	5,5	400	24	200
	SC 5 - 8	8	5,5	7,5	600	36	300
	SC 5 - 10	10	5,5	7,5	440	26,4	300
	SC 7 - 8	8	7,5	10	850	51	300
	SC 7 - 10	10	7,5	10	680	40,8	300
2 SKIDS	SC 21-8	8	3	4	320	19,2	200
	SC 22-8	8	4,4	6	480	28,8	200
	SC 22-10	10	4,4	6	400	24	200
	SC 24-8	8	8	11	800	48	300
	SC 25-8	8	11	15	1200	72	500
	SC 25-10	10	11	15	880	52,8	500
	SC 13-8	8	13	17,5	1450	87	500
	SC 13-10	10	13	17,5	1120	67,2	500
	SC 27-8	8	15	20	1700	102	800
	SC 27-10	10	15	20	1360	81,6	800
3 SKIDS	SC 31-8	8	4,5	6	480	28,8	200
	SC 32-8	8	6,6	9	720	43,2	300
	SC 32-10	10	6,6	9	600	36	300
	SC 34-8	8	12	16	1200	72	500
	SC 35-8	8	16,5	22	1800	108	800
	SC 35-10	10	16,5	22	1320	79,2	800
	SC 37-8	8	22,5	30	2550	153	1000
	SC 37-10	10	22,5	30	2040	122,4	1000

SIMPLEX

	MODEL	PRESSURE	POWER			TREATED AIR CAPACITY	
	ULTRACECO SC		kW	Hp	l/min	m3	litros
1 SKID	SC 1-8	8	3	4	320	19,2	200
	SC 2-8	8	4,4	6	480	28,8	200
	SC 2-10	10	4,4	6	400	24	200
	SC 4-8	8	8	11	800	48	300
	SC 5-8	8	11	15	1200	72	500
	SC 5-10	10	11	15	880	52,8	500
	SC 7-8	8	15	20	1700	102	800
	SC 7-10	10	15	20	1360	81,6	800
2 SKIDS	SC 21-8	8	6	8	640	38,4	300
	SC 22-8	8	8,8	12	960	57,6	500
	SC 22-10	10	8,8	12	800	48	400
	SC 24-8	8	16	22	1600	96	800
	SC 25-8	8	22	30	2400	144	1000
	SC 25-10	10	22	30	1760	105,6	1000
	SC 13-8	8	26	35	2900	174	1000
	SC 13-10	10	26	35	2240	134,4	1000
	SC 27-8	8	30	40	3400	204	1500
	SC 27-10	10	30	40	2720	163,2	1500
3 SKIDS	SC 31-8	8	9	12	960	57,6	300
	SC 32-8	8	13,2	18	1440	86,4	500
	SC 32-10	10	13,2	18	1200	72	500
	SC 34-8	8	24	32	2400	144	1000
	SC 35-8	8	33	44	3600	216	1500
	SC 35-10	10	33	44	2640	158,4	1500
	SC 37-8	8	45	60	5100	306	2000
	SC 37-10	10	45	60	4080	244,8	2000