ULTRA CONTROLO

Air Treatment Unit

ULTRAMED

Industrial Hospital Compressed Air Systems

Air Treatment Unit
ULTRAMED

Advantage

Low operational cost through ULTRAMED smart energy saving module;
Compact design for maximum space saving;
Existing Medical Air plants can be easily upgraded with no need for a new Electrical control panel;
Compatible with digital dew point indicator upgrade for Medical Air supplied to the Medical Air Pipeline continuous monitoring.

Aplication

"ULTRAMED" air treatment station with 6 stages of purification was specially designed by Ultra-Controlo for medical air grade production according with European Pharmacopeia requirements.

Ultra-Controlo medical air production plants meet EN ISO 7396-1, HTM and 93/42/EEC Directive requirements regarding medical devices. Air Quality complies with European Pharmacopeia
ULTRAMED DS features a smart energy saving module with dew point electronic monitoring automatically stopping column changeover whenever the ideal dew point is achieved.

As a result no more purge air is needed with a drastic reduction of electrical power consumption since the compressors work hours are reduced requiring less parts and labor for the entire plant.

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Operating Mode / ULTRAMED's six purification stages:

1. High efficiency coalescing filter for water, oil and aerosols removal as well as particulate above 0.01 µ;

2. High efficiency activated carbon filter to remove oil vapor and odors reduces oil vapor and odors down to 0.003 mg/m3;

3. Two adsorption columns with high efficiency desiccant medium for water vapor removal as well as reducing carbon dioxide (CO2), nitric oxide (NO) and sulfur dioxide (SO2) levels to below the legal limits;

4. Catalyst filter reduces carbon monoxide (CO) by conversion into carbon dioxide (CO2);

5. A final high efficiency dust filter captures any particulates carried over from the adsorption materials;

For medical air, Ultra-Controlo advises the addition of a sterile air filter to ensure that the supply of medical air is sterile

Receivers

Dewpoint dependent changeover for minimum purge air use;

Simple design;

Flowrate control for paralel operation with no further need of components change;

Corrosion resistant epoxi coating;

Continous outlet dewpoint monitoring through digital dew point indicator, not included;

Visual color change indicator for disecant replacement;

Low dewpoint indicator alarm;

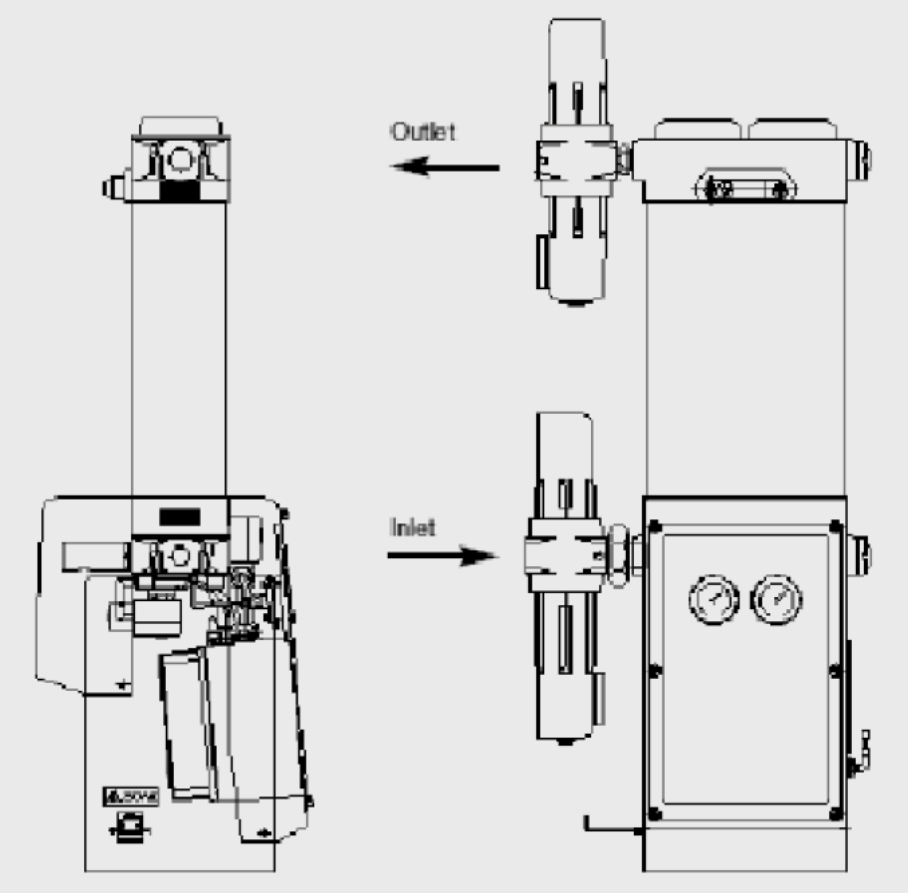
Designed for working pressures up to 16 bar.

Technical Specifications

TYPE	CODE	CAPACITY	DIMENSION	WEIGHT
		m3/h	W x H x D em mm	kg
ULTRAMED 10	206202A010	40.0	364 x 1045 x 302	38
ULTRAMED 11	206202A011	53.0	387 x 1211 x 302	43
ULTRAMED 12	206202A012	70.0	387 x 1376 x 302	48
ULTRAMED 13	206202A013	90.0	387 x 1541 x 302	53
ULTRAMED 14	206202A014	110.0	419 x 1707 x 302	58
ULTRAMED 15	206202A015	144.0	732 x 1960 x 447	74
ULTRAMED 16	206202A016	179.0	400 x 1680 x 1200	217
ULTRAMED 17	206202A017	220.0	400 x 1846 x 1200	230
ULTRAMED 18	206202A018	288.0	745 x 2076 x 1200	285

1) related to air at STP / measured at 7 bar and 35°C inlet temperature

Technical Images



Air quality	
Water point	-40°C pressure dew point
	- 56°C atmosph. dew point
Oil	<0.01 mg/m3
CO2	300 ppm
CO	5 ppm
NO/NO2	2 ppm
SO2	1 ppm
Operating pressure	max. 16

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