



FAST



SMART



CLEAN



CLOUD



The ideal cleaning system

A TRUE INNOVATION IN CLEANING

- HISTORY
- QUALITY
- TECHNOLOGY
- RESEARCH
- INNOVATION
- SAFETY

Following the path of excellence



Since its founding in 1976, **UNION** has always been an industry benchmark by which all other dry-cleaning systems are measured. **UNION leadership** is evident in the stages of research and development of new products and processes, and even more tangible in the actual production of the highest quality cleaning systems. All company roles are attributed to highly competent managers and a resourceful industrial team able to create products which are constantly at the forefront of cleaning technology.

The vast, modern **UNION** industrial manufacturing complex incorporates **CAD-CAM** design facilities with 3D technology, research and development centers, component production facilities featuring laser cutting and robot welding, highly automated assembly lines and control installations, and a training center both for sales and service. The company is structurally self-sufficient thanks to its ability to produce 80% of the single system component parts.

Each component is internally produced and certified in order to ensure a high level of quality of each individual **UNION** product.

Today **UNION** dry-cleaning machines are available in 120 countries worldwide, where they are distributed by over 300 factory-authorized dealers.

At **UNION** we are well aware of the responsibility that this kind of achievement means, and for this reason through our constant commitment and work, we know how to support our clients in order to value every business in terms of both quality and profit.



The ideal cleaning system

Innovative cleaning technology with full respect for the environment

The results of a thirty-year old leadership can easily be found in the new **CLOUD** machine series. Innovation and safety which translate into more rapid production, low maintenance and running costs, low energy consumption costs, easily manageable control devices and a superior environmental performance. These are the features which make **CLOUD** the **IDEAL** machine for the professional cleaner. The result of an advanced project, after years of research and development, which brings together advanced technology in a reduced space, designed for premises where every inch of space is vital. Low installation and low running costs establish new standards of quality.

The **CLOUD** series brings a whole new meaning to the words Fast, Smart, Clean.

Whichever **CLOUD** model or version you choose, it will be the ideal system for you.

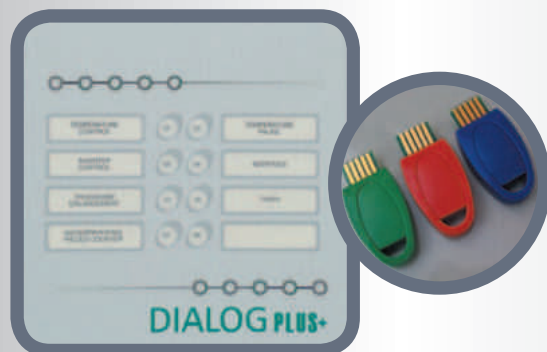


The ideal cleaning system

Dialog Computer

The **DIALOG** computer comes pre-programmed and ready for different kinds of textile treatments. Programs can still be easily customized by the operator just by following a few simple instructions. By punching in the appropriate code numbers it is possible to program the system for the kind of working process required without having to make any changes at all.

All control parameters are constantly brought up on the computer display in a clear and straightforward way. The **DIALOG** computer with its simple and easy to use menus will also monitor every step of the cleaning cycle. .



Dialog Plus

The **DIALOG PLUS** control unit is an innovative add-on introduced by **UNION** in order to optimize machine operation. The large and bright **DIALOG** screen will show all information on the running of the program and on the status of machine components. The computer also incorporates **MAINTENANCE SCHEDULE** which will remind the operator to carry out maintenance operations for top cleaning results. This revolutionary system is built into every model of the new **CLOUD** series.

With **DIALOG** you can either use the various pre-set programs or modify them even partially without having to re-enter them every time. Drum rotation speed on every **CLOUD** machine can be adjusted by a programmable inverter speed control.



Large sized loading door

The large sized loading door in cast aluminum is fitted with a safety lock controlled by the **DIALOG** computer which will not allow it to be opened before the cleaning cycle is over.

The opening angle has been optimized in order to make machine loading and unloading as easy as possible.

On all **CLOUD** models the loading door has a fundamental role in contributing actively to the good results in the cleaning cycle. Low temperature steam is introduced through the loading door itself into the basket, for the gentle treatment of garments in the cleaning process.

The loading door on all **CLOUD** models is also fitted with **LED** lighting which allow a quick and easy inspection inside the basket during the cycle.

I-Connect

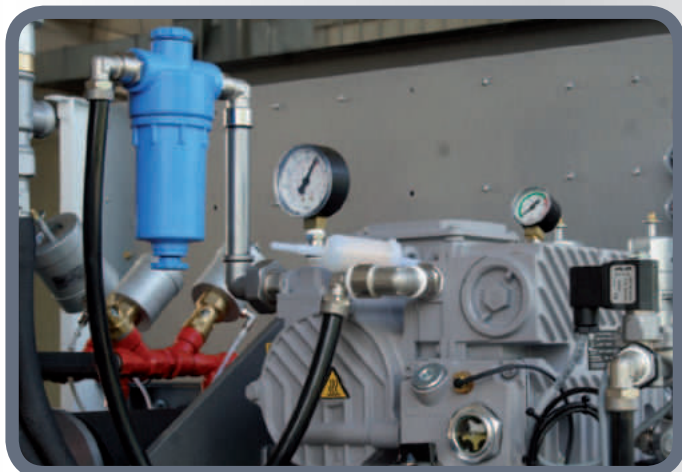
All **UNION** machines, including the **UNION CLOUD** series, can be fitted on request with the innovative **I-CONNECT** system, made up of a computer application and dedicated hardware, developed especially for these machines.

I-CONNECT allows verification at a distance of various machine functions, making it possible to check in real time how the machine is functioning.

I-CONNECT via its relative program make it possible to :

- carry out a real-time check on the machine
- verify the status of the machine
- check on all temperature settings
- OnFly setting and programming
- download of the machine log from up to 365 days
- filter and verify log events
- save the downloaded log to a file which can be reviewed.
- export the log (either complete or filtered) into CSV format compatible with Excel or similar spreadsheets
- upgrade the software
- download a memory set from a remote machine
- upload a memory set to a remote machine





All **CLOUD series** models are designed to work in an oxygen free atmosphere, with the advantage of avoiding the oxidation of delicate garments and colors. These special working conditions also allow the production of low temperature steam, completely different from the steam normally used for heating or ironing. This technology is the result of decades of experience that **UNION** has acquired in the production of dry-cleaning and metal cleaning machines, perfecting an innovative system which has led to the development of the **CLOUD series** models. The technology which is the basis of the **CLOUD series** is completely automatic and clear for the operator and requires very little maintenance..



The **CLOUD series** models are equipped with a special low temperature steam production system, designed to supply low-humidity steam, ideal for preventing garments getting completely saturated but allowing them to absorb the humidity, leaving them practically dry at the end of the cleaning cycle, ready to be hung up or ironed.

This special steam generation system is incorporated within the machine without taking up any extra precious space, and is equipped with a series of controls and checks which guarantee a safe and reliable functioning.

It is possible to verify the working cycle at any time just by checking the instruments which are fitted onto every **CLOUD series** model.



Daily maintenance is reduced to a minimum. After taking care to run the **GOOD MORNING** program at the start of the day it is enough after every cycle to clean out the cylindrical lint filter, conveniently placed at the back of the machine. Every month, an inspection of the the net filter on the vacuum air intake will ensure that the machine remains efficient. An annual check on the vacuum generator will be sufficient to ensure the best working condition. At the end of every cleaning cycle condensed steam is collected in a dedicated container which is then emptied automatically, without any need for operator intervention.

Simple maintenance management on the **CLOUD series** means that the operator has more time to concentrate on customer service.



CLOUD series models are easy to install. All you need to do is position the machine inside the workplace without any need for fixing it to the ground, thereby solving any problems there may be with having to make holes in marble or tiled floors.

All **CLOUD series** models come supplied with six adjustable support feet which are fitted to the machine.

CLOUD series models are particularly quiet and do not require a spinning phase, otherwise necessary on most other types of cleaning systems.

CLOUD series models are designed to allow them to be placed against a wall or even side by side with other machines, since all potential **CLOUD** maintenance points are located either at the front or the rear of the machine.

UNION CLOUD series

Advanced technology for

New technologies that can offer products which are able to respond to clients requirements are as important in textile cleaning as in any other field.

UNION is continuously working on the design of new cleaning systems, and the latest innovation from **UNION** research and development is the **UNION CLOUD series**, a brand new cleaning system through the development of dry-cleaning machines.

UNION CLOUD is a true cleaning alternative as well as

without compromising the fibers in any way, leaving them soft and natural.

UNION CLOUD is a simple system to use, with a water consumption of just 1.3 - 1.6 USG (5-6 liters) of water and steam per cleaning cycle, water which can be drained off like a normal washing machine, plus the approximately 13 USG (50 liters) of water required for the cooling system. **UNION CLOUD** is truly a low running-cost cleaning system.



representing a support system to solvent and wet cleaning. **UNION CLOUD** is a totally new revolutionary system in which all kinds of textiles and materials can be cleaned in a safe and ecological way.

Garments are treated inside the drum under a controlled atmosphere environment, with a low oxygen content in order to avoid oxidation of colors, keeping them bright. Using special technology a cloud of low temperature and low pressure steam passes through garments in order to allow the delicate treatment of colors, while still cleaning garments effectively

A true innovation for the world of cleaning



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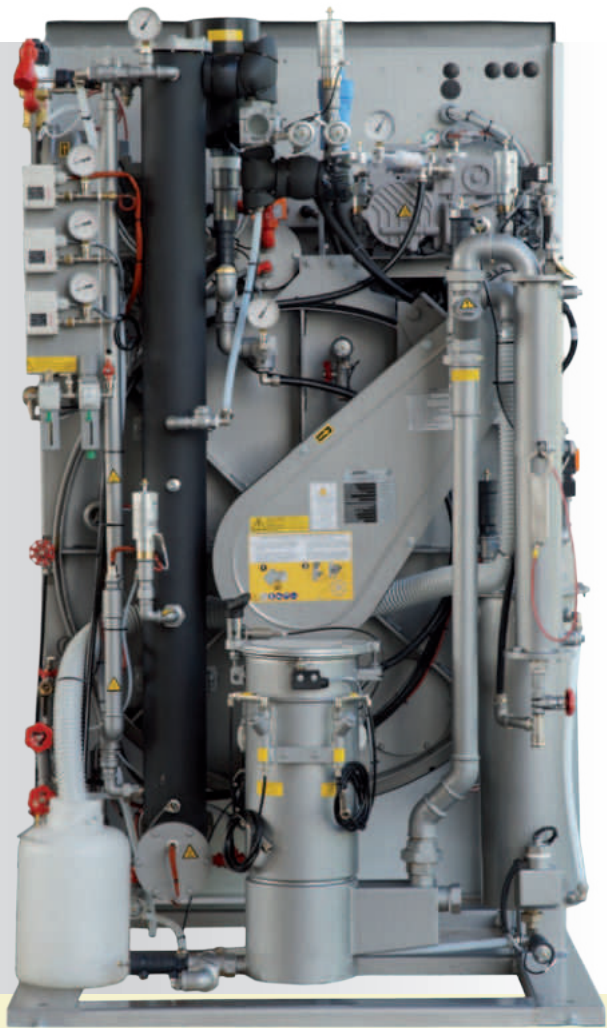
UNION CLOUD is a compact system, with reduced overall dimensions and has a particularly simple and fast installation. There is no high speed spinning phase involved so it does not need to be bolted to the floor. It is sufficient for the machine to be placed onto the supplied mounting pads (check your local regulations).

UNION CLOUD cleaning cycles are short, typically between 30 and 45 minutes long depending on the selected program and the required results.

faster.

UNION CLOUD is also suitable to be integrated into work stations in order to increase production in a simple and effective way.

The **UNION CLOUD** is a revolutionary and innovative system, opening the way to a true alternative in cleaning.



At the end of the cycle the garments come out dry and ready to be hung up or ironed. There is no need for expensive ironing equipment as is the case with wet cleaning, as ironing will be quick and easy.

The system has practically no environmental impact since consumption is extremely low. It does not use solvents and drained off liquids are not toxic and non-polluting. Garments cleaned with **UNION CLOUD** are free of electrostatic charges, so it is not necessary to waste time removing lint which may stick to the garments by static, making finishing times

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Technical specifications

CLOUD		L	XL		L	XL
LOADING CAPACITY (PIECES)	<i>pcs</i>	16	30	<i>pcs.</i>	16	30
DRUM						
Diameter	<i>mm</i>	900	1000	<i>inches</i>	35.4	39.4
Depth	<i>mm</i>	535	640	<i>inches</i>	21	25.2
Wash speed	<i>rpm</i>	20-60	20-60	<i>rpm</i>	20-60	20-60
Door opening	<i>mm</i>	500	500	<i>inches</i>	20	20
ELECTRIC POWER						
Working power (electric)	<i>Kw</i>	14	14,5	<i>Kw</i>	14	14.5
Working power (steam)	<i>Kw</i>	2	2,4	<i>Kw</i>	2	2.4
Drum motor	<i>Kw</i>	0.5 - 2.2	0.6 - 3.0	<i>Hp</i>	3	4
Vacum pump	<i>Kw</i>	0.75	1.1	<i>Hp</i>	1.2	1.8
Blowing fan	<i>Kw</i>	0.75	0.75	<i>Hp</i>	1	1
STEAM BHP @ 30 psi				<i>bhp</i>	0.50	0.50
MACHINE WEIGHTS						
Empty machine	<i>Kg</i>	645	820	<i>Lbs</i>	1418	2808
MACHINE DIMENSIONS						
Width	<i>mm</i>	1100	1210	<i>inches</i>	46.3	47.6
Depth	<i>mm</i>	1520	1685	<i>inches</i>	59.8	66.3
Height	<i>mm</i>	1945	2040	<i>inches</i>	76.6	80.4

Note: Acoustic emission level of the machines is lower than 70 dB (A)
Specifications subject to change without notice.

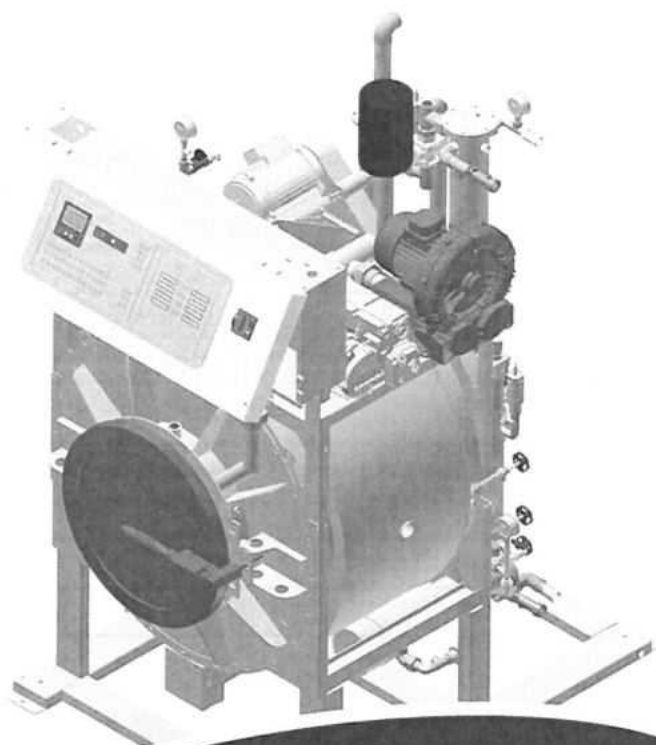


The ideal cleaning system

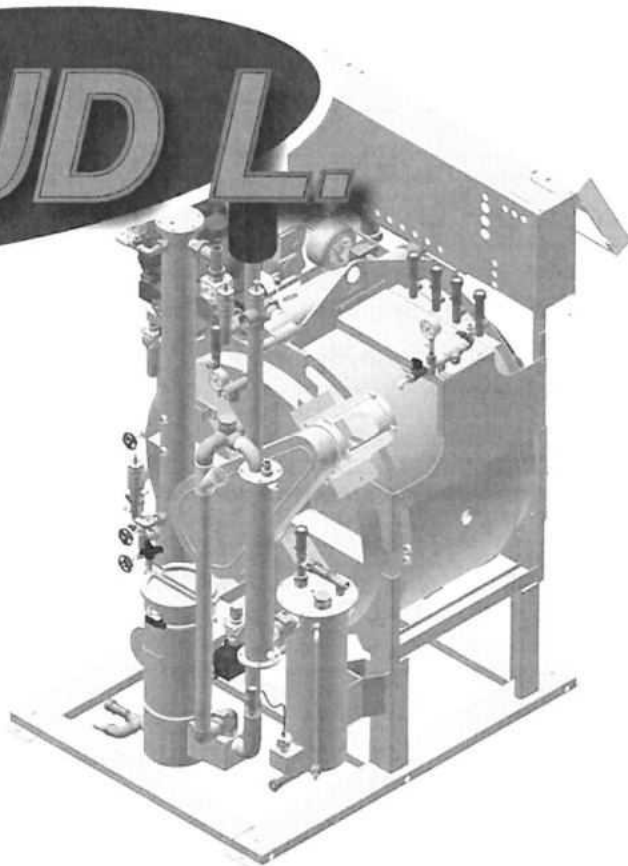
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CLOUD L



CLOUD L



STEAM CLEANING
MACHINE

TECHNICAL INFORMATION



All technical data are subject to change without notice.

WORKING MACHINE WITH SOLVENT	WATER	
MACHINE CAPACITY	15 Kg	35 Lbs

BASKET		
Diameter	900 mm	35.4 inches
Depth	535 mm	21 inches
Volume	340 Lt	12 cu.ft
Basket speed	20 ÷ 60 rpm	
Door opening	500 mm	20 inches

BOILERS <i>Filling with soft water with hardness <5°f (<50 ppm)</i>		
Heater boiler water capacity	6 Lt	1.6 gal
Cleaning chamber cavity heating water capacity	31 Lt	8.2 gal
Boilers Total water capacity	37 Lt	9.8 gal

ELECTRIC POWER	400V - 3~50Hz		220V - 3~60Hz	
* Main motor (Inverter)	3 Hp	0.5÷2.2 Kw	3 Hp	0.5 ÷ 2.2 Kw
Dehumidification Blower	1 Hp	0.75 Kw	1 Hp	0.75 Kw
Vacuum Pump	1 Hp	0.75 Kw	1.2 Hp	0.9 Kw
Air motor compressor (optional)	0.5 Hp	0.38 Kw	0.5 Hp	0.38 Kw
<i>Electric Version:</i>				
Heater boiler electric elements	-	12 Kw	-	12 Kw
Cleaning chamber cavity heating electric elements	-	3 Kw	-	3 Kw
Dehumidification electric elements	-	1.5 Kw	-	1.5 Kw

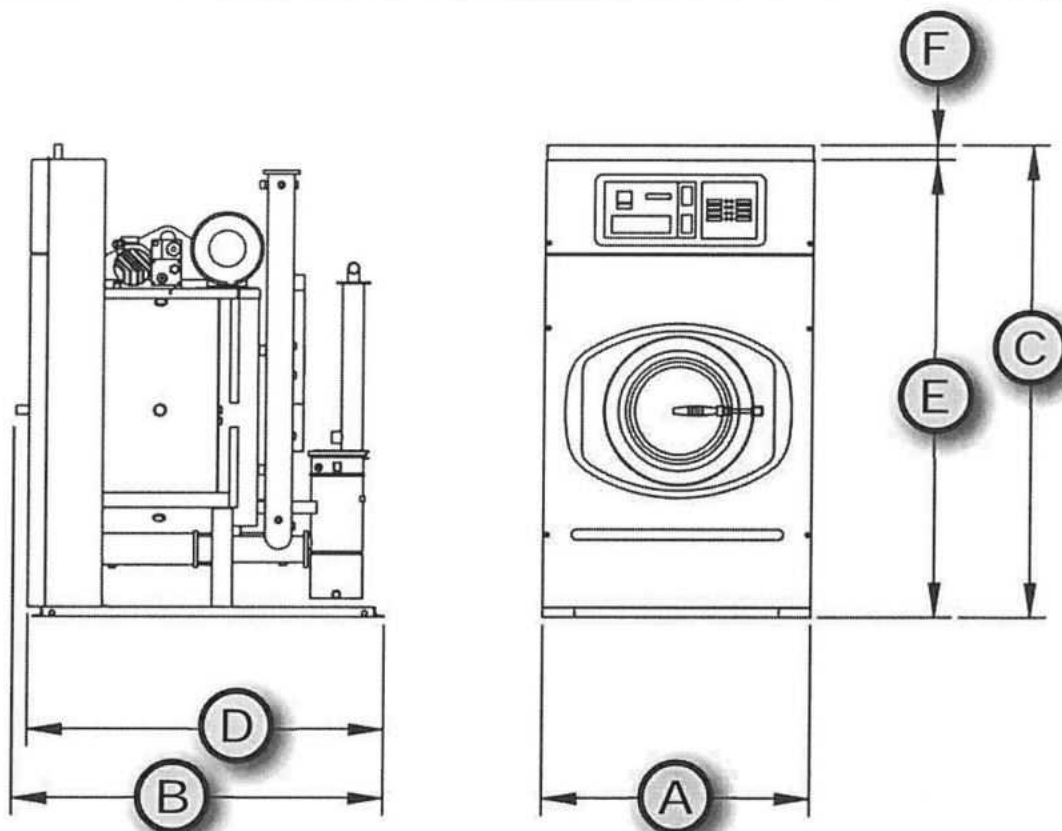
* POWER CHANGES ACCORDINGLY TO THE USE OF THE MACHINE

NOTE: Acoustic emission level of the machine is lower than 70 dB (A)

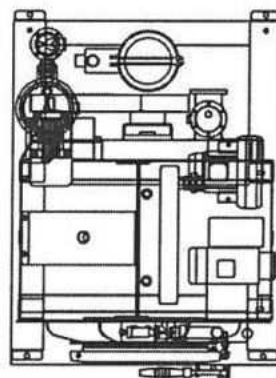
INFORMATION FOR THE ELECTRICAL CONNECTIONS (400V - 3~50Hz)		
Max. Power - ELECTRIC Version	18.5 Kw	35 Amp
Max. Power - STEAM Version	2 Kw	5 Amp
Dissipated heat	- Kcal	

INFORMATION FOR THE ELECTRICAL CONNECTIONS (220V - 3~60Hz)		
Max. Power - ELECTRIC Version	18.5 Kw	50 Amp
Max. Power - STEAM Version	2 Kw	8 Amp
Dissipated heat	- Kcal	



DIMENSIONS AND WEIGHTS


DIMENSIONS		
A	1100 mm	46.3 inches
B	1520 mm	59.8 inches
C	1945 mm	76.6 inches
D	1460 mm	57.5 inches
E	1885 mm	74.2 inches
F	60 mm	2.4 inches



CHARGES		
Empty machine weight	643 Kg	1418 Lbs
Machine weight with water	690 Kg	1521 Lbs
Static charge on the floor	451 Kg/m ²	92 Lbs/ft ²

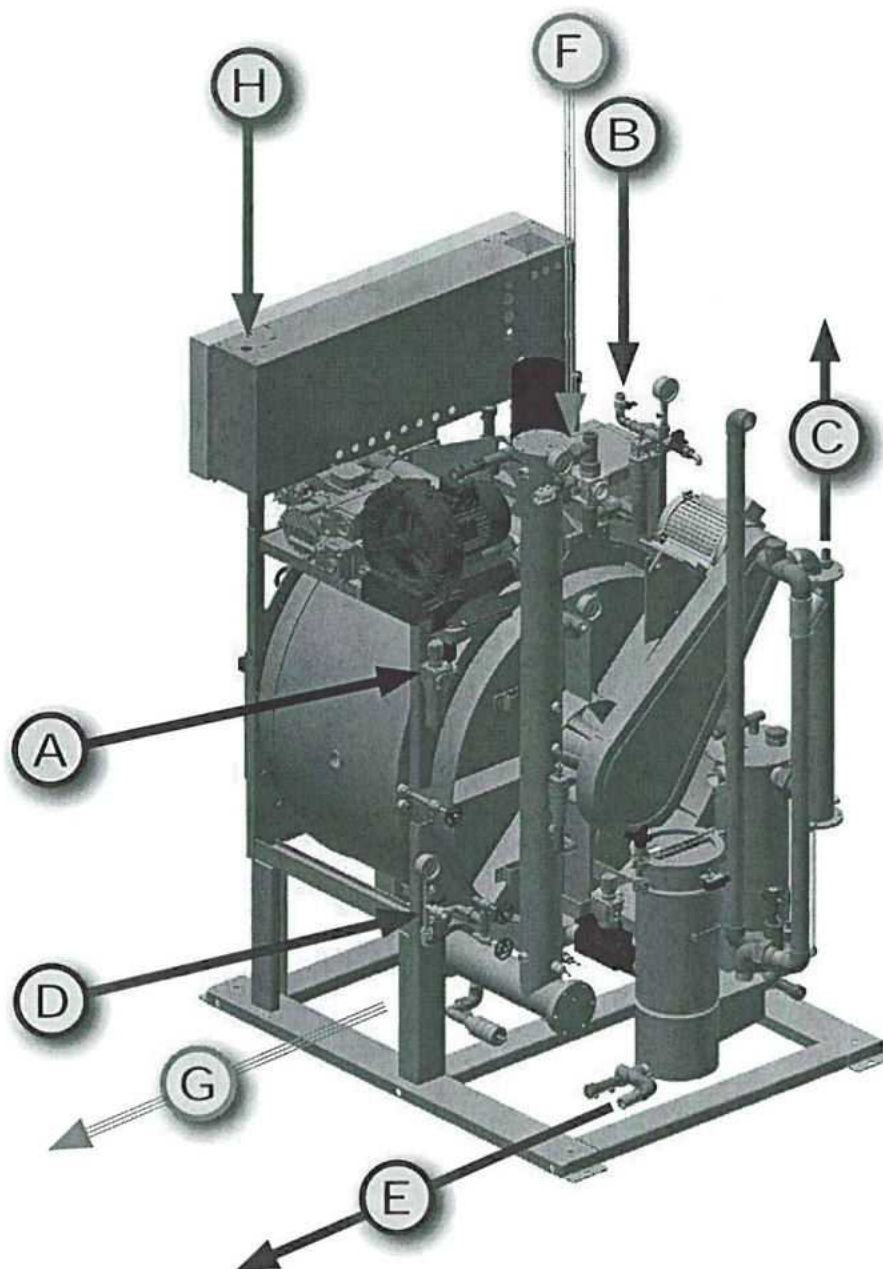
GENERAL INFORMATION		
Required water capacity	10 Lt/min	2.6 gall/min
Required water pressure	2 ÷ 3 bar	29 ÷ 44 psi
Required water temperature	18 ÷ 23 °C	65 ÷ 73 °F
Required air pressure	7 ÷ 8 bar	100 ÷ 115 psi
Required steam* pressure (Steam Version)	1.5 ÷ 2.5 bar	22 ÷ 36 psi
Required steam* availability (Steam Version)	10 Kg/h	22 Lbs/h

* Relative values of dry saturated steam.

All technical data are subject to change without notice.



CONNECTIONS



A	Compressed air inlet	Ø 6mm	Ø 1/4"
B	Cooling water inlet	Ø 1/2"	
C	Cooling water outlet	Ø 1/2"	
D	Demineralized water inlet	Ø 1/4"	
E	Water discharge	Ø 1"	
F	Steam inlet (Only steam version)	Ø 1/2"	
G	Condensate outlet (Only steam version)	Ø 1/2"	
H	Electric connection		