



CONCEPT 300 HTD

V 1-1.1

TECHNICAL & USER'S MANUAL

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Manufacturer's address:

Degraf srl
"Il Girasole" - Palazzo Donatello 8/03b
I-20084 Lacchiarella (MI)
ITALY

Range of application:

This unit is a part of a full range dedicated for the treatment of flexographic printing plates. This range includes Exposure, Processor, Dryer and light finisher. The CONCEPT 300 HTD is a unit designed for the fast drying of solvent washable printing plates.

All the other steps of the process are made with the other equipment of the range.

Maximum capacity of the unit:

Number of drawers:	1
Minimum plate size:	N/A
Maximum plate size:	36 x 48 inches 900 x 1200 mm

Warning: *This unit is designed to work with solvent and has been tested with conventional product. Always ask your dealer before trying to change the type of solvent. This may result in major damages and safety issues. This machine has not been designed as an explosion proof unit.*

Principle description:

- This unit is designed to dry flexographic printing plates after the washout process.
- The operator interface is made by a specific control panel which ensures a very easy interface.
- Control Leds allow checking the function of the lamps.

SAFETY WARNINGS:

To use this unit safely, it is essential operators and maintenance people follow the safety procedures and the safety precautions and warning specified in the manuals.

The lamps used in the Mekrom HTD dryer do not pose any health or physical threat to exposed parts of the human body including eyes when handled properly.

However, as with any light source, prolonged visual contact (staring) is not recommended.

The lamps do generate heat and should be allowed to cool sufficiently before handling.

Safety Interlocks

For the safety of operators, interlocks exist for the following:

- Opening the Drawers drawer during operation, the process stops and restart once the drawer is closed.*
- Detection of the Exhaust airflow (poor or insufficient exhaust), the process stops.*

If any of the interlocks are not installed or closed, the unit or a specific section of the unit will not operate.

If an interlock is activated during operation, the unit or a specific section of the unit stops immediately. Do not open the side or rear panels during plate preparation.

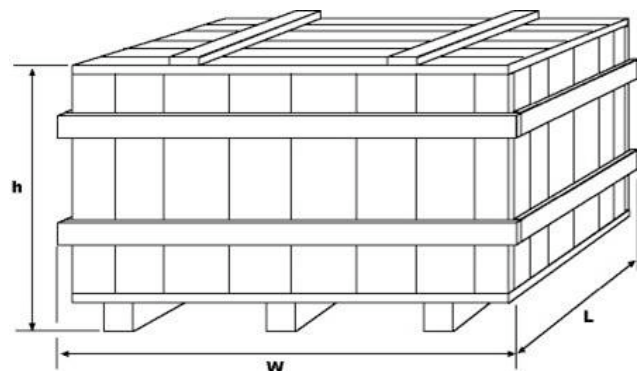
Technical datas :

Dimensions (w x l x h) :	1 430 x 1 110 x 1 050 mm (with feet installed) or 410 (without feet)				
Weight :	143 Kg				
Compressed air supply:	No need				
Exhaust :	400 m3/h minimum				
Dryer Power supply :	230V	1Ph / N / PE	50/60Hz	2,3 KW	10 A

Crate dimension:

- Please ensure the handling of the crate will be compatible with the building configuration: doors dimensions, load capacity of the floor ...

Crate :	
W:	1 820 mm.
L:	1 250 mm
H:	760 mm.
Weight (crate included):	260 Kg



Floor space requirement:

- Please ensure 1200mm on the front, 500mm on the back, 200mm on the right and 200mm on the left will be available as free space to ensure a safe use of the machine as well as an easy access for maintenance.

Connections Location :

- All the connection points are located on the back of the machine.

Accessories needed for the connections:

Compressed air supply:	No need
Exhaust :	120 mm hose
Power supply :	3 x 1,5mm2 cable

Upon receipt of your machine please check with the carrier the status of the crate. Notify him of any damage you see on the crate.

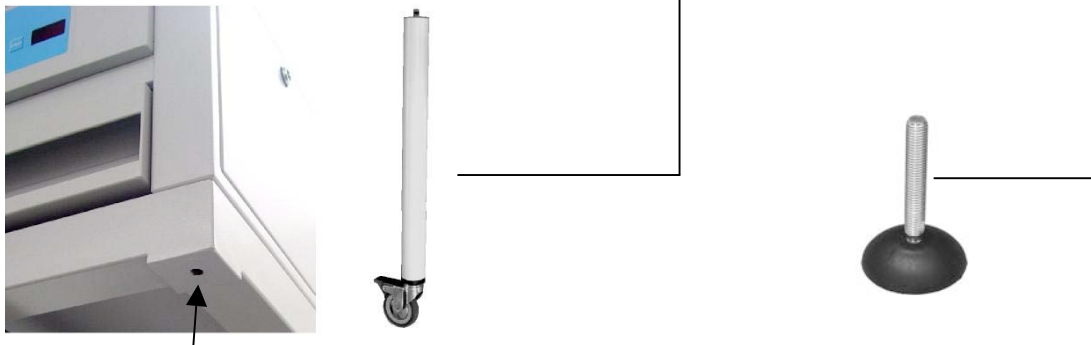
- Before starting to unpack the unit, make sure you have all required tools ready to hand.

Unpacking:

Warning: For safety reasons, please wear appropriate protective clothing (gloves, glasses, and safety shoes) while unpacking.

- Start by removing the top section of the crate and then the sides.
- The machine is now resting on the base of the crate.
- Remove all the blocking pieces of wood fixing the machine on the crate.
- Using the appropriate forklift (Be sure that the forks are long enough to lift the machine without damage) to remove the machine from the crate. Get it into its installation location.
- Install the feet of the machine (have to be screwed in).
- Ensure there is sufficient space around the machine (see Pre-installation section).
- Remove all the protection from the unit (do not use sharp tools to prevent damages).
- No special anchorage is needed for this unit. The unit will rest only on its feet.

It is possible to install the machine with the feet with wheels or to use small adjustable feet:



Screw the feet in the threaded holes.

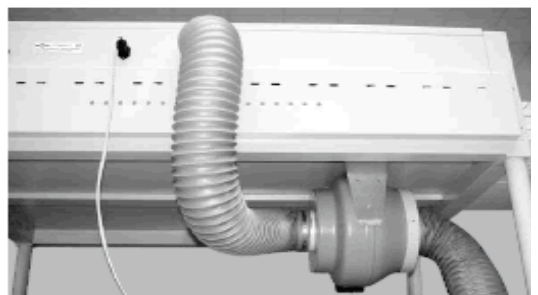
- Install the flange on the blower and install the blower as preferred: external of the machine or fixed underneath the unit.
- Connect the plug of the exhaust blowers.



Fix flange on the blower.



Blower installed external of the machine.



Blower installed underneath the unit.

Parts delivered with the machine :

Items :	Qty :
Hose 120 mm.	3 m.
Locking collars	2
Panel key	1
Small Feet (M12)	4
Feet (long)	4

Verify that all parts are with the machine.

Connections:

All necessary connections have to be carried out in accordance to the rules of your country.

Electrical connection :

- Connection such as electrical power supply has to be carried out by certified personnel.
- It is recommended to use a ground fault circuit breaker as well as a lockout type power switch for the electrical connection.
- Before switching the machine on, measure the voltage on the main switch of the machine and make sure that it matches the value on the identification plate, which is fixed at the back of the unit.

Exhaust blower connection:

- Connect all the exhaust to the appropriate location (directly to the outside or to the building exhaust installation). Ensure the airflow is correct.

Power On the machine.




Before switching the machine ensure that the working area around the machine is clean and free for easy movement.

Check the following:


- ✓ Electrical power supply: cable connected and not damaged.
- ✓ Exhaust: hose connected and not damaged.

- You are now at the stage to power On the machine.
- Switch On the machine by turning the main switch located on the back of the unit.
- A waiting time of 20 seconds is required to check the correct exhaust of the unit when the machine is switched ON. No process cycle can be started during this time.

Value modification:

- To modify the drying time press first on  and then on . Enter the new value using the numeric keyboard and then press on  to confirm.

Start a drying cycle:

- Open the drawer and put the plate in.
- To start a drying process, press on .
- During all the process the display shows the remaining time.

Note : *A waiting time of 20 seconds is required to check the correct exhaust of the unit when the machine is switched ON. No process cycle can be started during this time.*



Note : *Opening the drawer stops the process. The process restarts at the same point when the drawer is closed.*

Note : *It is recommended to do not affect the drying performance to do not interrupt the drying cycle.*

How to control the lamps:

Simply control the leds located on the front of the unit during a drying cycle to check if all lamps are working properly. In case a lamp is not working the corresponding control led will switch OFF and the replacement of the lamps is necessary.

How to check the working hours of the unit:

To check the working hours of the machine first press  to display the first two digits (from 1 to 99 hours: value A). Press  to display the two last digits (from 100 to 9900 hours: value B). To know the complete working time, use both values as in the following example:

Value A= 25

Value B= 13

The total working time of the machine is: BA -> 1325 hours.

Spare part list:

REFERENCE :	DESIGNATION:
5-BA-010	BALL BEARING FOR DRAWERS WITH SHAFT
5-DG-001	WHEEL WITH LOCKING 12x80
5-DG-002	WHEEL 12x80
5-DH-004	FOOT M12
5-DP-002	PANEL LOCKER (TRIANGLE SHAPE)
5-DP-003	KEY FOR PANEL LOCKER (TRIANGLE SHAPE)
5-DP-007	MAGNETS D40x5.5x8
5-FA-006	HOSE D120mm
6-AC-043	CPU BOARD HTD
6-BA-063	FLAT CABLE (HTD300)
6-FA-024	LEXAN HTD
6-GA-022	AIR PRESSURE SWITCH 604
6-HA-071	LED BOARD (x11) 12V
6-HA-301	LAMP DETECTION BOARD x6
6-HA-302	LAMP DETECTION BOARD x5
7-HA-008	LOCKING COLLAR 110-130mm
9-AA-038	LAMP HTD
9-AD-017	LAMP SOCKET HTD
9-CA-006	CONTACTOR 22.22.8.230
9-CC-003	SAFETY SWITCH XP-2 4
9-DB-019	BLOWER AXC250 230V
9-DB-020	FIXATION BRACKET FOR AXC250
9-EA-034	FUSE 6x32 16A AM
9-EA-035	FUSE HOLDER 15A P1862
9-EB-016	230V POWER SUPPLY CABLE
9-EB-018	FEMALE SOCKET PLUG 230V
9-EB-020	FEMALE PLUG AMERICA 230V
9-EB-096	CONNECTOR DICSEL 5P
9-EB-107	POWER SUPPLY PLUG SOCKET + SWICTH O/I

Electrical Scheme:



Electrical Scheme

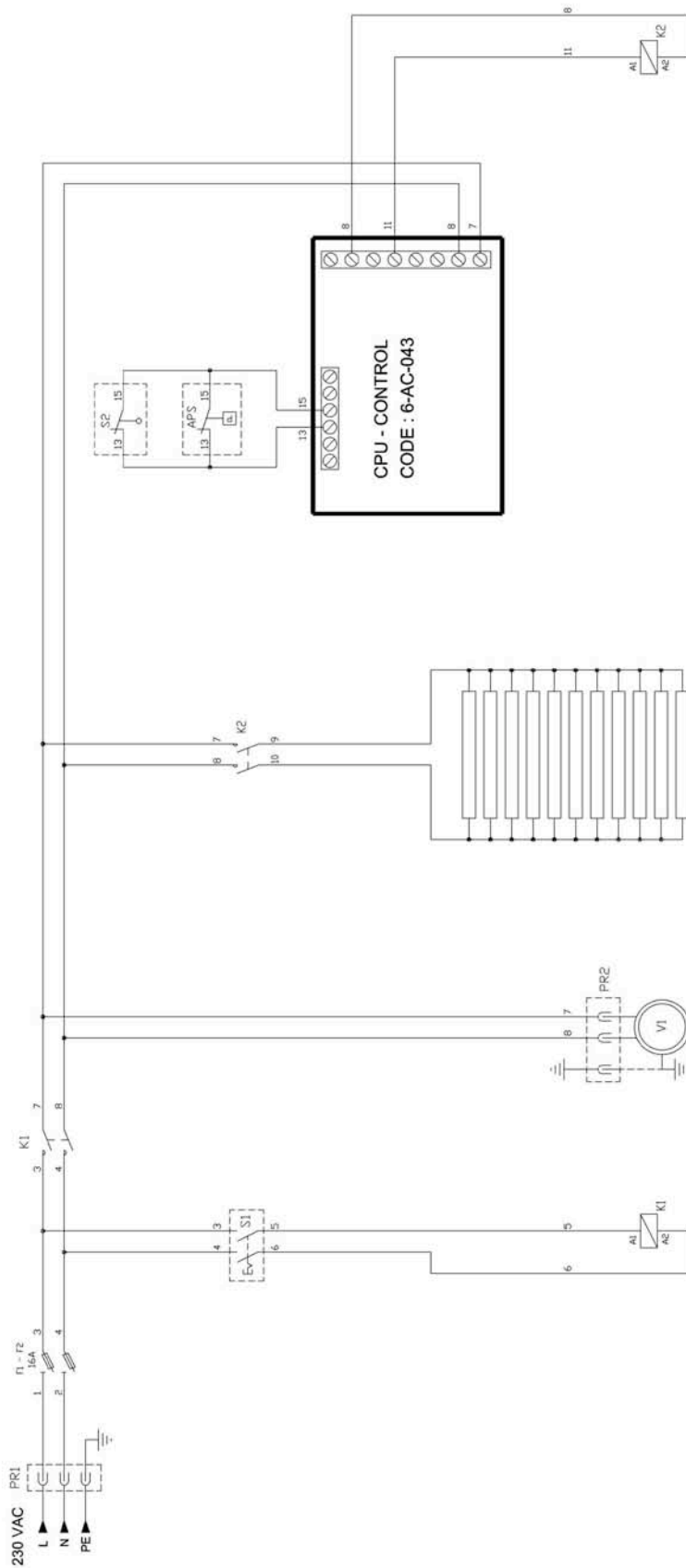
HTD 300

DATE : 06/2005

Scheme N° : 342

SN° : 342001-->

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			MARCHE-ARRÊT		VENTILATEUR EXTRACTION		LAMPES DE SECHAGE			TIROIR OUVERT	AFS. EXTRACTION			LAMPES	
			S1		V1		11 X 185 W			S2	ASP			K2	
			DN / DFF		EXHAUSTER BLOWER		DRYING LAMPS			DRAPER OPENED	EXHAUST ASP.			LAMPES	
							11 X 185 W								



MACHINE: HTD 300 | Scheme N° 342

Version: V1.0 | Date: 06/2005 | Folio: PUI

EEC Declaration of Conformity

Manufacturer's Name: **DEGRAF S.p.A.**

Address: "Il Girasole" - Palazzo Donatello 8/03b
20084 – Lacchiarella (MI), Italy
Tel.: +39 02 900 90 164 – Fax: +39 02 900 90 196

The manufacturer declares that the equipment here below mentioned has been designed and manufactured according to the EEC safety and health standards.

Product Name: **CONCEPT 300 HTD**

Serial Number:

Year of Production:

EEC Directive: 98/037 EEC for machines II A
73/023 EEC for low voltage
89/336 EEC for electromagnetic conformity

Standards Applied: EN 292/1
EN 292/2
EN 60204/1

Noise Emission: < 70 dB (A)

Signature:



Riccardo de Caria
(Managing Director)