

DELIVERY DOCUMENTATION

Machine data, to be reported in the use and maintenance manual:

- machine named
- model:
- matriculation number:
- built in the year:

ATTACHMENTS:

Declaration of conformity	☐
Obligations of the owner, Obligations of the employer, Municipality Report Form (fax-like)	☒
Car booklet	☒
User manual	☒
Maintenance manual	☒
Commissioning of the electrical part	☒
Installation manual	☒
Identification plate	☒

Updinamic Srl

Please return this signed form to confirm receipt of the documents by fax to 0442-599091 or by email to info@updinamic.com

SIGN FOR RECEIPT((the Customer)

UPDINAMIC Srl, a company operating in the construction of automated parking lots and freight elevators, with registered office at Via Modigliani, 22 – 37045 – Legnago (VR), registered in the company register of the Verona Chamber of Commerce and VAT number 03584130235. ISC. REP. ECON. AMMMIN. 348256

DECLARES UNDER HIS OWN RESPONSIBILITY THAT THE NEW MACHINE:

- named

Lifting device

- model

-DL4

-CM4

-DL4-MAG

-

-SPB

- freshman

- built in the year

Function: Lifting device for goods and people with fixed capacity, connecting various floors with vertical translation on rigid guides.

It complies with the prototype for which the CE certificate of conformity was issued by ECO Certificazioni (Notified Body n°0714) **No. 714-M-0234** pursuant to Annex IX (plus internal control on the manufacture of the machinery referred to in Annex IV, point 17) of the Machinery Directive 2006/42/EC and which complies with the requirements of:

- Machinery Directive 2006/42/EC;
- Electromagnetic Compatibility Directive 2014/30/EU;

The following harmonized standards were used in the design:

UNI EN ISO 12100:2010
UNI EN 13854:2020

UNI EN ISO 13857:2020
IEC EN 60204-1:2018

It is further declared that:

Pursuant to Annex II of the Machinery Directive 2006/42/EC, "The technical file of the machinery referred to in Annex VII is available at the manufacturer's premises" and the person responsible for updating it is Mr. Oscar Donà.

Please note that the machine must not be put into service until compliance with all applicable regulations in force in the country of installation has been ascertained.

Legnago, there ___/___/___,

UPDINAMIC Srl
Via Modigliani 22
Legnago (VR)
The Sole Director
(Albino Donà)



MACHINE BOOKLET

Rev. 02.02 Updated 09/18/2019

Per informazioni:
www.updynamic.com
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Via Franco Modigliani, 22
37045 - Legnago (VR) Italy

One level ahead.

UPDINAMIC srl

Via Modigliani, 22 37045
LEGNAGO (VR)

MACHINE BOOKLET

Rev. 02.02 18/09/2019

MODEL DL4 / CM4 / DL4-MAG

(machine used for the transport of goods only or goods with a
operator)

INSTALLED IN THE BUILDING OWNED BY: _____
IN _____ N° _____
MUNICIPALITY _____
MODEL _____ SERIAL _____
NUMBER _____ LEGAL REPRESENTATIVE OF
THE PROPERTY: _____

ANY SUBSEQUENT CHANGES IN THE OWNERSHIP OF THE PLANT:

THE FOLLOWING BOOKLET AND THE RELATED ATTACHMENTS LISTED MUST BE
STORED IN THE TECHNICAL COMPARTMENT BY THE OWNER:

- ☒ INSTALLATION MANUAL
- ☒ MACHINE USER MANUAL
- ☒ ELECTRICAL PART MANUAL
- ☒ MAINTENANCE MANUAL

Space reserved for the office

**FACSIMILE NOTICE OF COMMISSIONING OF LIFTS AND GOODS HOISTS IN ACCORDANCE WITH
OF ART. 12 OF DPR 162/99 and subsequent amendments**

TO THE MUNICIPALITY OF _____

The undersigned: _____

born in _____ on _____

resident in _____ in Via _____ n° _____

CF telephone

As: ☐ owner ☐ legal representative of the Company _____.

☐ condominium administrator

COMMUNICATE

That in the building located in Via _____ put into operation a privately operated plant _____ it has been installed and
CAR LIFT ☒ freight elevator
Having the following characteristics of

SPEED' < 0.15 m/s

SCOPE _____ kg

RACE _____ m

NUMBER OF STOPS _____

DRIVE TYPE ☒ HYDRAULIC ☐ ELECTRIC

That the above mentioned system was installed by the company UPDINAMIC srl with headquarters in Via Franco Modigliani, 22 - 37045 San Pietro di Legnago, and with plant number _____

The manufacturer (for goods lifts only) is UPDINAMIC srl with headquarters in Via Franco Modigliani, 22 - 37045 Saint Peter of Legnago.

The maintenance of the system is entrusted to the company _____ with headquarters in _____ regularly authorized pursuant to Ministerial Decree 37/08 (ex L. 5/3/1990 n° 46).

The person responsible for carrying out periodic inspections, pursuant to art. 13, paragraph 1. DPR 162/99, is _____ with registered office in _____ who has accepted

the assignment.

Attach:

1. Copy of the declaration of conformity referred to in art. 6, paragraph 5, of Presidential Decree 162/99;
2. Copy of the acceptance document from the body responsible for periodic inspections.

We are waiting to receive communication regarding the registration number assigned by this office at the plant within 30 days of receipt of this document, pursuant to art. 12, paragraph 3, DPR 162/99 and subsequent amendments.

(place), there

Signature

CUSTOMER WARNINGS:

1. This communication must be sent to the competent Municipality for the territory within 10 days of the date of the CE declaration of conformity of the system.
2. A copy of this notification from the owner to the relevant Municipality, as well as a copy of the subsequent notification from the relevant municipal office to the owner or his legal representative - regarding the serial number assigned to the system - must be attached to the system's booklet (register or technical file) kept in the machine room or space, available for periodic inspections and for affixing the serial number to the regulatory plate displayed in the system's cabin (Article 16, paragraphs 1 and 3, Presidential Decree 162/99).

INFORMATION PURSUANT TO LEGISLATIVE DECREE 10 August 2018, n. 101 We inform you that:

- ° The data you have declared are required by current legislation and will be used by municipal offices. appointed exclusively for the purposes of the procedure for which they are requested and subsequently for the purposes relating to the management of any further consequent and connected proceedings;
- ° data processing is carried out both with paper tools and with computer media office layout;
- ° the data will be stored at the municipal offices and will be communicated to the staff employee of the Municipal Administration and other Public Bodies involved in the procedure;
- ° the provision of data is mandatory for the purposes of fulfilling the requirements required for the exercise of the of the activities in question pursuant to the provisions in force on the matter;
- ° Any total or partial refusal to provide the required data may make it impossible to proceed with the fulfillment of the request;
- ° the data controller is;
- ° Updynamic srl undertakes to operate in compliance with the provisions of the General Regulations EU General Data Protection Regulation (GDPR) no. 2016/679, providing appropriate evidence thereof upon request;
- ° You enjoy the rights set out in Articles 7 and 8 of Legislative Decree 30.06.2003, n. 196, among which is the right access to data concerning you, as well as some additional rights including the right to rectify, update, complete or delete incorrect, incomplete or inaccurate data compliant with the law, as well as the right to object to their processing for legitimate reasons.

CONSENT TO THE PROCESSING OF PERSONAL DATA

Having read the above information - in particular the rights granted to me by articles 7 and 8 of the Legislative Decree 196/03 - I consent to the processing, including the communication of my personal data, to work of the data controller himself for the purposes and within the limits indicated by the legislation itself.

(legible signature of the interested party)



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The machine has been manufactured in compliance with the following Directives:

or Machinery Directive 2006/42/EC;

or Electromagnetic Compatibility Directive 2014/30/EU;

The machine is therefore supplied complete with the documentation required by these Directives.

The manufacturer designed the machine to ensure safe operating conditions: bypassing the electrical safety devices and removing the manufacturer's protective devices seriously compromises the safety of the machine. Correct use also requires compliance with the instructions for installation, power supply, and maintenance of the machine, which must be strictly adhered to.

The machine must be used in accordance with the use intended by the manufacturer and specified in the user manual attached to this booklet: we therefore recommend careful reading before transporting, installing and putting the equipment into service.

Maintenance involves a few simple operations that can be performed by a qualified operator who meets the legal requirements and is familiar with the machine. To achieve maximum durability and the best operating economy, we recommend following these instructions: scrupulously the rules contained in this document and in the related attached manuals.

The manufacturer will not be held responsible for breakages, accidents, or other inconveniences resulting from failure to comply with (or otherwise apply) the instructions contained in this manual, the user manual, and the maintenance manual. The same applies to the implementation of modifications, changes, or the installation of unauthorized accessories.

This booklet, the user manual and the maintenance manual are an integral part of the machine:

It is essential to keep them intact in the system's technical compartment, making them easily accessible throughout the machine's lifespan, even if the machine is transferred to another user. Furthermore, they must be easy and immediately accessible to operators and maintenance personnel, and therefore must be stored near the equipment.

READ THIS BOOKLET, THE USE AND MAINTENANCE MANUAL, CAREFULLY AND KEEP IT.

TO REQUEST COPIES OR UPDATES OF THE BOOKLET OR MANUALS YOU SHOULD
CONTACT:

UPDINAMIC Srl Via Modigliani 22, 37045 Legnago VR (ITALY) Tel. 0442-590129
– Fax 0442-599091 – E mail info@updynamic.com

MACHINE DESCRIPTION

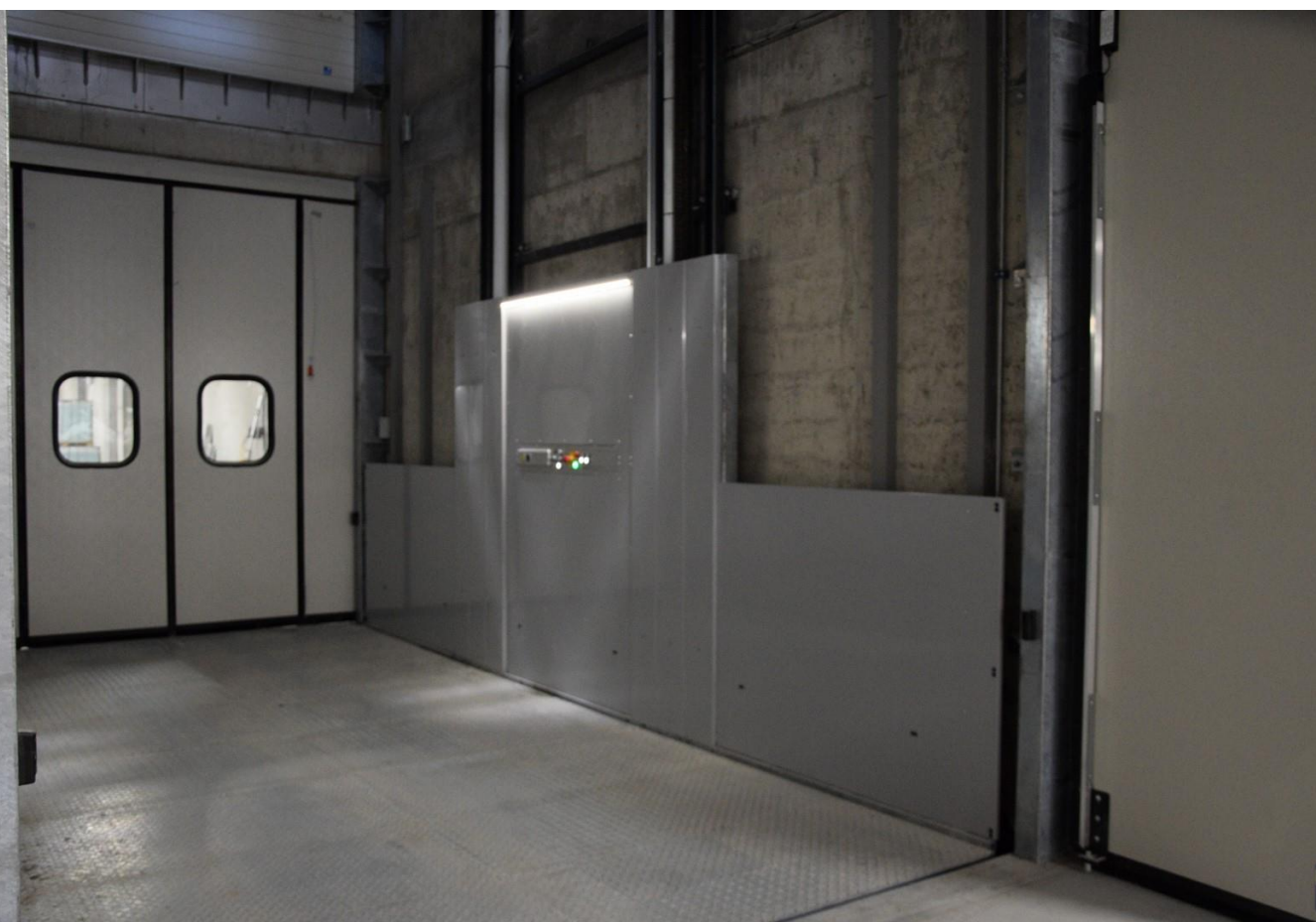
Electro-hydraulic lifting system for transferring goods and people to different underground or elevated levels, with a load-bearing structure made of C-shaped metal sections equipped with combined sliding bearings. The platform movement is enabled by four hydraulic cylinders mechanically connected to a double chain transmission system.

The system allows for stopping at up to 5 floors, intervening in the case of high floors with a locking system to guarantee the safety of personnel assigned to loading and unloading goods.

The DL4 version is configured as a simple platform appropriately protected with railings on the guide side.

The CM4 version is equipped with a full cabin and closing roof with open-air landing.

Model	Flow rate
	kg
DL4-CM4	3000
DL4-MAG	4000





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GENERAL INFORMATION

Model:

☒ DL4 ☐ CM4 ☐ DL4-MAG

Setup:

☐ STD – goods only ☐ SPB – with operator on board

Serial No.:

Year of installation:

☐ 2022 ☐ 2023 ☐ 2024 ☐ 2025 ☐ 20__

Capacity [kg]:

☐ 4000 ☐ 3500 ☒ 3000 ☐ 2500 ☐ 2000

Stroke [mm] (max 16m):

Speed [m/s]:

< 0.15

Floors served:

☐ 2 ☐ 3 ☐ 4 ☐ 5

Access:

☐ 1 access ☐ 2 accesses ☐ 3 accesses

Platform dimensions [mm]:

☐ Standard Depth: 3000mm; Width: 6000mm

☐ Customized : Depth. _____mm Width. _____mm



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PROTECTIONS AND EXTERNAL COMPONENTS

Protections on the upper floor:

- ☐ Gate or door with external electric lock Door with
- ☐ integrated Kronenberg electric lock Door with
- ☐ integrated Prudhomme electric lock Door with
- ☐ integrated Tieffe electric lock
- ☐
- ☐ Other _____

Floor protections:

- ☐ Gate or door with external electric lock Door with
- ☐ integrated Kronenberg electric lock Door with
- ☐ integrated Prudhomme electric lock Door with
- ☐ integrated Tieffe electric lock
- ☐
- ☐ Other _____

Command:

- ☐ N ° keypads: _____
- ☐ Deadman's pushbutton panel
- ☐ Impulse pushbutton panel

TECHNICAL COMPARTMENT

Floor location:

- ☐ 0 ☐ + 1 ☐ _____
- max distance from the lift shaft 4m.

Environment:

- ☐ Closed ☐ Protected ☐ _____

Technical compartment dimensions:

Length: _____ Depth: _____ Height: _____

Access method:

- ☐ Direct ☐ Indirect for premises of common use/property

Lighting:

Lighting near the control unit: _____ LUX [≥ 200 LUX] Lighting near the electrical panel _____ LUX [≥ 200 LUX]

Type of ventilation openings:

- ☐ Cabinet grilles towards a ventilated room connected to the outside
- ☐ Opening in the cabinet and connecting pipe to the outside System subject
- ☐ to fire prevention regulations

Motor	Voltage operation	Start-up	Switch advised*	Current nominal	Current start-up
5.5kW	220 V - single phase	Direct	3x16A id=0.3A	22	60
	380 V - three-phase	Direct	4x16A id=0.3A	11	35
11 kW	220 V - single phase	Direct	3x40A id=0.3A	34	102
	380 V - three-phase	Direct	4x25A id=0.3A	20	60

MOTOR AND ELECTRIC CIRCUIT

Standard equipment components:

Machine edge:

- ☒ Double proximity for arrival at the floor
- ☒ Slowdown proximity
- ☐ Mechanical limit switch for chain elongation control (SPB only) Safety
- ☒ hook limit switch
- ☐ Complete keypad for SPB system (SPB only) Load
- ☐ control photocells (SPB only) Programmed electronic
- ☒ board
- ☐ PLC Logic

External components:

- ☒ Call button on each floor Emergency
- ☒ stop button LED on button
- ☒

Technical compartment/lift compartment:

- ☒ Slowdown solenoid valve Ascent
- ☒ solenoid valve
- ☒ Descent solenoid valve
- ☒ Hydraulic power plant and electrical panel

Optional components (see equipment):

External components:

- ☐ External electric lock with pin interlock Standard doors
- ☐
- ☐ Doors with integrated Kronenberg type electric lock

Emergency descent system components

Machine edge:

- ☐ Emergency descent solenoid valve



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PLUMBING SYSTEM

Gear pump:
flow rate _____ cc/g

Hydraulic oil fluid type W.Engine HySy 22/B:

Density at 15° kg/l: 0.858
Viscosity cSt at 40°C: 23.8 Englar
viscosity at 50°C: 2.3 Viscosity
index: 105 Pour point °C: -33
Flash point °C: 192 Aniline point:
96

DIN 51 524 HLP classification: 22

Max pressure: 145 bar

Suspension organs (stem diameter as a function of the stroke):

☒ **DL4 / CM4 / DL4-MAG**
4 hydraulic cylinders (min. rod diameter 70mm) with check valve type Rexroth
VEI-8A-2A-06-NC-SM
For each cylinder: 2 Flayer AL666 19.05mm Renold chains, tensile strength 120 kN

SHAFT

Reinforced concrete construction

Dimensions of the lift shaft [mm]:

☐ Standard: Depth: 3320mm; Width: 6100mm Custom: Depth: _____ Width:
☐ _____

Max height difference between floors [mm]:

☐ Standard: 3000
☐ Custom: _____



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SAFETY DEVICES INSTALLED

MODELS DL4 / CM4 / DL4-MAG

☒ Double lifting chain for each cylinder

☒ Check valves

Rexroth VEI-8A-2A-06-NC-SM (or equivalent, see Technical File)

Max pressure: 350 bar Max

flow rate: 40 l/min Control:

electric 24V DC Control:

proximity

☒ 4 electro-mechanical safety hooks

Electro-mechanical device integrated into the machine system, controlled by integrated limit switches

☐ Checking chain slack:

Spring device controlled by mechanical limit switch, controls the loosening of each individual chain

GENERIC SAFETY DEVICES FOR ALL MODELS

☐ Electric locks:

Pizzato FS2896D024-F (or equivalent, see Technical File)

Protection grade IP66 Working

temperature: -25°C / 60°C Voltage: 24V

DC

Current consumption: 1A

Mechanical life: 800,000 cycles

Holding force: 1100 N

Extraction force: 30 N

☐ Photocells on board the cabin:

LN1056.C + PS2003.1.A.5.B

Degree of protection: IP30

Voltage: 12-24V DC

Current consumption: 130 mA

Range: 0.1 - 6 m

☐ External photocells:

*Trifo11 - Fadini**

Protection class: IP55

Voltage: 12-24V DC

Current draw: 55-35 mA

Range: 6m

** Replaceable with: Orbita 57, Fit 55, Polo 44, Difo 33*



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CHECKLIST FOR INSTALLING A GOODS LIFT

Address where the system is located:	Installation company:
Plant model:	Operator(s):
Serial number:	Signature of technical manager:

MARK WITH A "X" ONLY IF THE CHECK HAS BEEN POSITIVE

STRUCTURE

- USED FIXING BOLTS/PLUGS SUPPLIED BY UPDINAMIC
- ANCHORING RESISTANCE OF BOLTS/PLUGS ON THE WALL/LOAD-BEARING STRUCTURE VERIFIED. TIGHTENING OF BOLTS/PLUGS WITH A TORQUE WRENCH AS PER THE MANUFACTURER'S TECHNICAL DATA SHEET. THE CHAINS HAVE BEEN CORRECTLY
- INSTALLED WITH PINS AND COTTER PINS SUPPLIED BY UPDINAMIC (in the case of 2 chains, tension both chains to balance the load).
- ANTI-TIPPING BOLTS HAVE BEEN INSERTED AT THE ENDS OF THE GUIDES (to prevent the trolley from slipping out of the guides, not valid for RT type systems). THE MAXIMUM STROKE OF THE SYSTEM (extra-stroke) HAS BEEN VERIFIED.
- THE MECHANICAL SUPPORTS ON EACH FLOOR ARE STABLE AND SAFE THE
- MECHANICS OF THE SUPPORT HOOKS ARE FLUID AND WELL GREASE THERE ARE NO
- DANGEROUS RECESSES INSIDE THE COMPARTMENT (setbacks, beams, irons or any other object installed subsequently, e.g. door handles) PHOTOCELLS ALWAYS PRESENT ON THE OPEN
- SIDES (mandatory only for systems with driver on board) ON EACH FLOOR, IF THE SPACE BETWEEN THE WALLS AND THE PLATFORM, AND BETWEEN THE LANDING AND THE PLATFORM IS BETWEEN 20mm AND 150mm, THERE MUST BE A CHAMFER ON THE WALL
- ON EACH FLOOR, IF THE SPACE BETWEEN THE WALLS AND THE PLATFORM, AND BETWEEN THE LANDING AND THE PLATFORM IS GREATER THAN 150mm, THERE MUST BE A PROTECTION WHICH CANNOT BE OPENED DURING MOVEMENT

PLANT ENGINEERING

- PIPES AND CABLES HAVE BEEN POSITIONED IN A WAY THAT THEY CANNOT BE DAMAGED. THE
- CLIMBING SPEED IS LESS THAN 15cm/s.
- THE DESCENT SPEED IS LESS THAN 15cm/s
- EMERGENCY STOP STOPS THE SYSTEM IN ANY SITUATION
- THE ELECTRIC LOCKS ARE POWERED ONLY WITH THE PRESENCE OF THE PLATFORM ON THE CORRESPONDING FLOOR
- THE ELECTRIC LOCKS ARE INSTALLED CORRECTLY AND THE ENGAGEMENT IS MECHANICALLY SAFE. THE SYSTEM DOES
- NOT WORK WITH THE DOORS OPEN.
- THE DOORS AND PERIMETER PROTECTIONS ARE SOLID WITH BLIND WALLS OR A MAXIMUM FIRM MESH OF 12x12mm ALL THE
- LIMIT SWITCHES PRESENT WORK CORRECTLY
- ALL SEND AND CALL COMMANDS MATCH ALL SIGNAL LAMPS MATCH
-
- THE CABLE THAT REACHES THE MOVING PART IS WELL FIXED WITHOUT ANY RISK OF ENTANGLEMENTATION. THE
- SYSTEM STOPS IF THE PHOTOCELLS ON THE OPEN SIDES ARE PASSED (If present).
-
- THE DOORS HAVE BEEN INSTALLED IN A LEVEL LINE
- DOORS ARE INSTALLED MAX 10cm FROM THE COMPARTMENT WITH THE POSSIBILITY OF OPENING FROM THE
- INSIDE. DOORS MUST OPEN OUTWARDS
- THE STRUT AND THE PIT STOP HAVE BEEN INSTALLED AND CHECKED (strut if present) OVERLOAD TEST: SYSTEM
- CAPACITY + 10%:

FINAL LOAD TEST:

WEIGHT USED FOR TESTING: Kg PRESSURE CALIBRATION TEST bar

THE SYSTEM IS DELIVERED WITH THE PRESSURE CALIBRATED AS PER THE FINAL LOAD TEST

TECHNICAL COMPARTMENT

- PLACE THE CONTROL UNIT AND ELECTRIC PANEL IN AN AREA NOT ACCESSIBLE TO UNAUTHORIZED PERSONS. THE TECHNICAL
- AREA MUST BE EQUIPPED WITH LIGHTING. ☐ THE TECHNICAL AREA MUST BE VENTILATED

NOTE:

The installer declares that he has carried out all assembly operations only after having read and understood the instructions in the machine's installation manual.
To receive the Certificate of Conformity and the CE plate to apply to the system, send this signed document by fax, email, or post, attaching photos of the completed installation.

Date:

Signature of the
client: