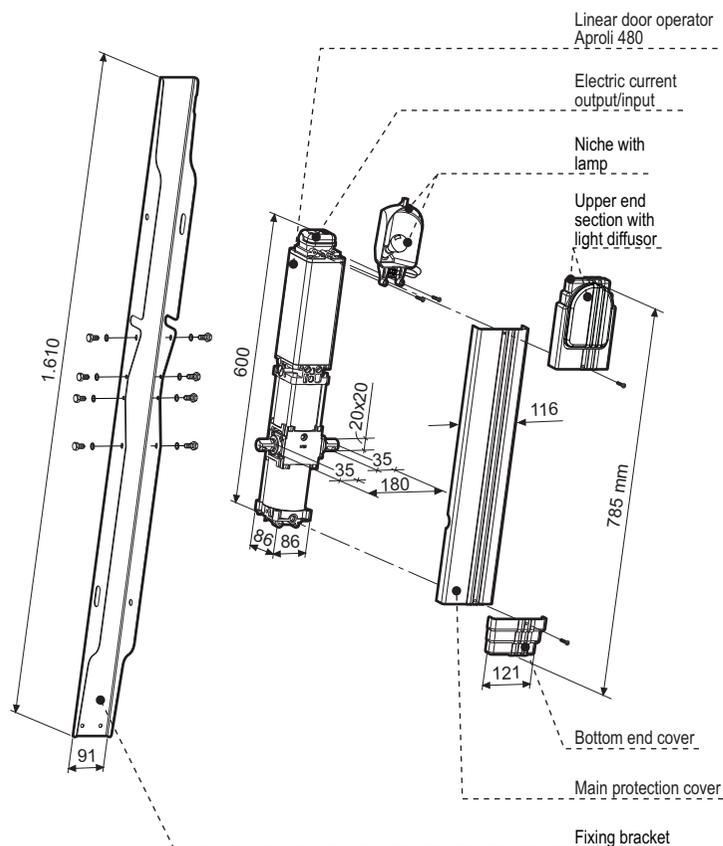


OVERALL DIMENSIONS



APROLI 480 is a linear oil-hydraulic unit designed to operate counter-balanced garage doors.

The assembly motor/pump is coupled to the piston and is fitted with safety pressure valves. This unit generates the rotary motion of the shaft and, by means of two telescopic arms and transmission bars, it is transmitted to the door allowing open and close operations.

The operator is mounted to the middle section of the door by means of a bracket on the basis of specifically indicated fixing dimensions, so that the telescopic arms can raise and lower the door with a smooth, even motion. For very heavy doors, or doors wider than 5 meters with a service door in the middle, it is recommended to install two units on each door side.

The main shaft, allowing the torsion motion, is mounted on special bearings which also provide an adequate mount for the coupling between the gear and the rack inside the central block; this one provides also a fixing to the two cylinder liners and the respective pistons inside them.

The oil-hydraulic circuit is fitted with a bidirectional locking device to hydraulically lock and hold the door in any required position; stable locking over the time is ensured.

In case of power failure, the door can be overridden by means of a lever located by the side of the pressure valves. Overriding can be done even from the outside of the door through the lock fitted on to it, by means of a custom-toothed key.

All the parts allowing rotation of the door are in an oil bath to ensure quietness and improve the operator life. No need to lubricate the moving parts.

APROLI 480 is complete with a cover to protect the pressure valves and incorporates a lamp that switches on at motor starting and goes off automatically after the door has completed the open or close cycles.

The whole automatic system, connected to an extremely reliable electronic control board, can be operated by custom-encoded remote control, custom-toothed key-switch or digital key-pad; it can also be connected to safety systems such as the mechanical cable-operated edges and the photocells.

TECHNICAL SPECIFICATIONS

HYDRAULIC UNIT

Pump flow rate - P4	1,10 l/min
Average working pressure	20 atm
Max. pump pressure	40 atm
Working temperature	-20 °C +80 °C (*)
Operating torque	220-300 Nm
Shaft rotation	max 205°
Oil type	Oil Fadini - Item 708L
Weight of operator	10,5 kg
Weight of Aproli 480 w/c accessories	24 kg
Door surface	7 m ²

(*) -40 °C with specific optional accessories (Ref. General Catalogue).

ELECTRIC MOTOR

Power output	0,24 kW (0,33 HP)
Supply voltage	230 Vac
Frequency	50 Hz
Absorbed current	1,8 A
Absorbed power	330 W
Capacitor	12,5 µF
Motor rotation speed	1.350 rpm
Protection standards	IP 67
Lamp	230 V - 25 W
Intermittent service	S3

PERFORMANCE

Frequency of use	intensive
Service cycle	opening ~ 18 s
	dwell 30 s
	closing ~ 18 s
	dwell 30 s
Complete cycle time	~ 96 s
Complete cycles	
Opening - Dwell - Closing - Dwell	No.37/hour
Annual cycles (with 8 hours of use per day)	No.108.000



FADINI
the gate opener
Made in Italy



Drwg. No. 1672

TECHNICAL DATA TABLE

06/14

OIL-HYDRAULIC OPERATOR
FOR GARAGE DOORS
WITH COUNTERWEIGHTS

APROLI 480

