

Cavotec Ground Support System



The Power Caddy

Through a process of steady development the Cavotec Group has grown into one of the world's leading companies in the specialised field of power supply technology.

The very foundation of our success in the marketplace is our willingness and ability to provide a broad spectrum of standard and custom products that better serve the needs of our customers.

In the following pages we present the main components of the Cavotec Ground Support System and their contribution to airports around the world.

Cavotec in Airports

The Cavotec Ground Support System is a 100% environmentally friendly system aimed at efficiently servicing aircraft with power, water and pre-conditioned air while reducing costs and time. This is achieved by eliminating many traditional time-consuming servicing methods while leaving the tarmac-apron completely free for other service vehicles to approach the aircraft. Currently, the Cavotec Group provides three types of Power Caddy, the 1x90, 2x90 and the 180. There is also a special unit, the "PCA Caddy", which can deliver pre-conditioned air to an aircraft without using diesel or freon gases.

Power Caddy 2x90

The Caddy 2x90kVA is a motorised cable reel trolley fitted with two cable reels. The drive unit is a 24 VDC motor which ensures the Caddy can drive in both reeling-in and reeling-out directions with a totally automatic reeling of the two cable reels. The cable necessary for the supply to the aircraft is stored in the drum-centre hub which provides easy access when in operation. The design also allows for easy dismantling in case of maintenance or damage. Steering is done through a foldable steering arm which retracts automatically to a vertical (braked) position when released. With the steering arm in vertical position the unit can also be locked to protect against possible misuse.

The Caddy 2x90 has a continuous operational autonomy of approximately 2 hours. A battery loading point is positioned at the Caddy parking bay. The Cavotec Connectors fitted on the Caddy give great flexibility for use at many different gates at the airport.



Power Caddy 180

The Caddy 180kVA is a motorised cable reel trolley incorporating one 50Hz cable reel and an onboard 180kVA/400Hz converter. Like the 2x90 Caddy, this unit is also driven by a 24 VDC motor which ensures motor-assisted driving in both reeling-in and reeling-out directions. The battery loader is mounted on the

Caddy and loads the battery automatically when the main power cable is connected. The onboard cable reel is fully automatic reeling-in and out. The two fixed flexible cables for the actual connection to the aircraft are stored in a compartment on top of the Caddy, making them easily accessible when standing on the upper step of the work platform. These cables are easily removable in case of damage or for maintenance. Steering is done through a foldable steering arm which retracts automatically to a vertical (braked) position when released. With the steering arm in vertical position the unit can also be locked to protect against possible misuse. The Caddy 180 is fitted with a towing eye and the drive unit can be mechanically disengaged if longer transportation of the Caddy is required.



Development is taking place to produce a Caddy capable of supplying white and blue water to aircraft. Other components of the the Cavotec Ground Support System are Technical pits, Panzerbelt, which is an innovative cable and hose protection system and Cavotec Connectors. These products have been developed since a long time by Cavotec for use in other sectors of industry.

This leaflet is dedicated to the Cavotec Power Caddy models.

For extensive information on our PCA Caddy please consult the specific leaflet.

Technical Data Caddy 2 x 90

| Caddy | |
|----------------------------------|---|
| Motor: | 1 x 800W, 24VDC |
| Batteries: | 2 x 12V, 80Ah |
| Battery loader: | 230VAC, 50/60Hz, 10A fuse Mounted at parking bay with 5 meter cable on spring reel |
| Maximum speed: | 3Km/h, 50m/min. |
| Minimum turning radius: | 1,3 meters |
| Brakes: | Automatic electric brakes, manual release possible |
| Approximate dimensions: | L= 1950 x W= 1390 x H= 1550 mm Tires: 13" hard rubber |
| Weight: | 600kg (800kg with 25m cable on each reel) |
| Cable Reel | |
| Number of reels: | 2 |
| Cable on reels: | 7 x 35mm ² + 18 x 1mm ² |
| Cable length on reels: | Maximum 25m (usable driving distance 20m) |
| Fixed cable for aircraft supply: | 3m |
| Aircraft supply data: | 400Hz/208V, 2 x 90kW according to GPU supply |
| Connectors 400Hz (ground side) | 3 x 250A + N + 11 x 10A + Earth |
| Connectors Airplane | According to customer specification |

Technical Data Caddy 180

| Caddy | |
|----------------------------------|--|
| Motor: | 1 x 3000W, 24VDC |
| Batteries: | 2 x 12V, 80Ah |
| Battery loader: | 230VAC, 50/60Hz, 10A fuse Battery loader integrated, loading when main cable is connected |
| Maximum speed: | 3Km/h, 50m/min. |
| Minimum turning radius: | 2,2 meters |
| Brakes: | Automatic electric brakes, manual release possible |
| Approximate dimensions: | L= 3430 x W= 1100 x H= 1700 mm Tires: 16" hard rubber |
| Weight: | 1900kg |
| Cable Reel | |
| Number of reels: | 1 |
| Cable on reels: | 3 x 120mm ² + 3 x 25mm ² (D= 59, W= 7kg/m) |
| Cable length on reels: | Maximum 25m (usable driving distance 20m) |
| Fixed cable for aircraft supply: | 2 x 6m (usable length 3m) |
| GPU: | AXA 180kVA converter unit |
| Aircraft supply data: | 2 x 90kW, 208V, 400Hz |
| Connectors 50Hz (side) | 3 x 420A + Earth + 2 PILOTS |
| Connectors Airplane | According to customer specification |

Cavotec in the world

With its strong network of manufacturing and sales companies and distributors throughout the world, the Cavotec Group is prepared to give customers the support they need, no matter where they are located.

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www.cavotec.com

www.gantrex.com

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