

COIN OPERATED

AIR CONDITIONERS

APPLICATION DATA



Details the use of coin operated time switches to control air conditioners for cooling and heating

ABBERFIELD INDUSTRIES PTY LTD
32 Cross Street, Brookvale, Sydney, NSW 2100 Australia
Tel: (02) 9939 2844 Fax: (02) 9938 3462
International Tel: +61-2 9939 2844 Fax: +61-2 9938 3462
Email: contact@abberfield.com.au
Internet: www.abberfield.com.au

Application

The major use of coin time switches is to control wastage, particularly in holiday or boarding house accommodation. It is common practice for these air conditioners to be left on when the occupants are out for the day. Using coin air conditioners still permits this but on the user pays principal.

The coin time switch allows any number of coins to be inserted to pre pay for a long period of operation. Should there be a power interruption the pre paid credit will not be lost and the air conditioner will continue operation on resumption of power.



Method

A series 10 coin time switch is usually mounted on the wall adjacent to the air conditioner. This controls the air conditioner directly, whether it is a self-contained or a split system. The model CT10F is usually used but there are alternatives or occasionally special circumstances are met with other models.

Electrical

Air conditioners have a high current inrush when turning on, considerably greater than the rating plate current. This is particularly true if the air conditioner is turned off and immediately turned on again, as the compressor may still be under pressure.

For normal room air conditioners operating on 240 volt, the model CT10F will handle this current inrush. As it is rated to switch 25 amps. However for a large air conditioner, the model CT10FPR is preferred, being conservatively rated to switch 35 amps.

If the air conditioner is a larger 415 volt operated device the method of control can vary. Some air conditioners have a 240 volt control input and the standard CT10F is used. For others a contactor is added to switch the 415 volt, using a 240 volt coil and again the CT10F is used. For other means of controls or special coin timer housings, contact Abberfield's technical support team.

Coin Timer Choice

The CT10F is usually used, or the CT10FPR, identical but with greater current switching capabilities.

These operate on one coin denomination but if Multi-denominational operation is required the CT10MD or CT10MDPR is used.

Multi-denominational coin timers have historically been rare due to their higher cost but are now in greater use.

INTERIOR MECHANISM



ELECTRONIC MECHANISM CT10F

QUALITY AND FEATURES AT A BASIC COST.

- Double insulated.
- Adjustable time 999 minutes.
- Can be set from 1 to 99 coins, to start the timed process.
- Electronic coin scanning.
- Coin on a string protection.
- Power failure protection.
- 240 volt or 12 volt operated.
- 25 amp switch rating.
- 35 amp switch option.



MULTI- DENOMINATIONAL MULTI-FEATURE ELECTRONIC CT10MD

TECHNOLOGY PLUS QUALITY OPTION

- Accepts 10, 20 cents, \$1 and \$2 into the same coin entry.
- Time period dependant on coins inserted.
- Fully adjustable time.
- Double insulated.
- Can be set from 10 cents to \$10 to start the timed period.
- Electronic coin scanning.
- Coin on a string protection.
- Power failure protection.
- 25 amp switch rating.

OPTIONS

- 35 amp switch rating.
- 3 phase switching.
- Pre-warning of power disconnection.
- Time remaining display.

Technical Details

Further information on all of these coin timers is available in our coin timer technical section of Abberfield's internet site.

www.abberfield.com.au

Technical advice is also available from Abberfield's support team.

Push Button Controls

For applications wanting control of air conditioners, without charging by coin, the push button system is available.

Refer to separate brochure