‘Quick Fix’ Motorised Dampers
With Polyaire’s unique cable to duct fitting for faster, more positive duct attachment and no leaks.
4 Sizes 250/300/350/400mm
• All metal shaft & motor
• Folded ‘Hi-Torque’ metal blade: For long life, strength and durability
• 2 slides (bedded) to take large loads/velocities
• Casinq robust industrial plastic for durability, strength and easy trovare
• Outside insulation protects and insulates
• Unique No-Slip cable to attachment
• 4 sizes: 250/300/350/400mm
• 5 year warranty

Polyaire Diffusion Fitting (PDF)
The latest design complete air management fitting from Polyaire.
• Fully externally insulated, no jons to leak and designed to take motorised or manual dampers to tune your system for optimum efficiency, the fitting also uses a specially designed Zip Tie connector system to virtually eliminate duct joint leakage and provide the best possible sealage at low cost.
• orchard webbing basen with time and ensures that all the airflow goes into your rooms, not into the ceiling.

Zonemaster Zone Switch Damper Control System
The Zonemaster Zone Switch Control System is a simple wall mounted On/Off control system designed to manage the air flow from the Air Conditioning unit to up to 6 different outlets.
This system is well suited to all ducted reverse cycle and ducted heating systems in light commercial, residential and apartment applications and, if used properly, may result in energy savings.

Features:
1) Runs up to 6 zones.
2) Simple On/Off zone control with LED indicators is easy to understand and use.
3) Comes complete with choice of 2 latches (4 & 6 zone) and assorted zone names labels for easy identification and personalization.
4) Easy assembly and installation with Polyaire Quick Fix Motorised Dampers/ Polyaire Diffusion Fitting/Polyaire Quick Fix Fixings.
5) All zones resume their original on/off status once power up after power outage.
6) 24 volts for easy and safe installation and maintenance.
7) Second Generation Design: The Zone Switch benefits from the developmental work done on the second generation UniPoint RF & MaxiPoint Version 2 systems in that it uses the very stable ‘star’ wiring architecture where each individual motorized damper is connected directly to a master circuit panel. This means that a fault in any particular zone motor or wire does not affect the system as a whole.

Installing A Zone Management System to manage the Airflow from your Ducted Air Conditioning Unit can:
1) Reduce your energy costs
Zoning permits you to reduce energy costs by not heating or cooling an area of the home or office that is vacant. Shutting unused zones off saves all available capacity of the heating or cooling system to areas that are occupied, enabling them to reach set temperature more economically.
2) Contribute to more rapid temperature recovery
By shutting down less important zones on particularly hot or cold days will bring more important zones closer to occupied, enabling them to reach set temperature more economically.
3) Reduce your energy costs
Shutting unused zones off sends all available capacity of the heating or cooling system to areas that are occupied, enabling them to reach set temperature more economically.

NOTE: Many Ducted Air Conditioning Systems now come with basic Zone Management Systems included but few, if any, feature the sophisticated electronics of the Zonemaster UniPoint Off & MaxiPoint Off. These two systems can actually regulate the amount that each damper opens so that the whole system can be ‘slaved’ by your installer to ensure sufficient flow to every zone all the time. These systems work independently from the Air Conditioning Unit.

Improving the efficiency of your Ducted Air Conditioning System
Now turn the page to learn about the Polyaire Diffusion Fitting (PDF)
The latest design complete air management fitting from Polyaire.
The Principles of Zone Management to achieve higher efficiency & SAVE MONEY on energy usage

A basic Ducted Air Conditioning Unit is installed with duct and outlets to all spaces requiring heating or cooling. The temperature will be regulated by the single temperature gauge in one spot in the building, usually the Kitchen or Hall and there is no regulation as to how much air will go into each room. This doesn’t take into account variables such as:

1) Rooms with a lot of large glass windows may be hotter than rooms with only a few small windows.
2) Rooms getting afternoon sun will be hotter than rooms on the shady side of the house.
3) In large houses, outlets a long way from the Air Conditioning Unit may not receive a sufficient amount of air flow.

Any house, office or other space consisting of various rooms can, for the purpose of Air Conditioning Efficiency, be divided into sections (or Zones) and the air flow to each controlled by a motorised damper(s) that will, in turn, better manage temperature level.

The air conditioned space can then be selectively regulated via the dampers so that only the spaces in use have air flow. For example:

1) When there is a need to heat or cool bedrooms that are not in use during the day
2) An office boardroom doesn’t need continuous airflow when it may only be used once a week.

Zone Labelling

The UniPoint RF System makes any ducted system more efficient by allowing air flow to rooms being used and stopping wasteful flow to unoccupied spaces.

Imagine you are sitting in the lounge after dinner and the kids have gone to bed. It’s been a hot day and everyone will need maximum cooling to get a good night’s rest. You use your Zonemaster UniPoint control to shut off all zones except the bedrooms. Restricting the airflow to the areas you need increases the available cool air and doesn’t waste power on cooling unoccupied rooms.

Maximum cooling for a comfortable night.

The UniPoint RF System is an on/off controller for up to 8 zones with sophisticated programming and system balancing features. It is ideally suited to homes that require 8 zones or less and for users who like the convenience of a remote control that they can use anywhere in the home.

- Zone Labelling
- Electronic programming allows for different applications for weekdays and weekends
- UniPoint is suitable for 8 zones or more
- MaxiPoint V2 is suitable for up to 16 zones
- UniPoint RF Vs MaxiPoint V2

Benefits:

- Allows airflow to be divided to suit the needs of the individual zones.
- Allows for maximum cooling at the bedrooms.
- Allows for maximum efficiency for heating and cooling.
- Allows for maximum air flow in unoccupied spaces.
- Allows for maximum comfort in occupied spaces.
- Allows for maximum energy savings.
- Allows for maximum control of airflow.

Features:

- 3 Zones
- 4 Zones
- 5 Zones
- 6 Zones
- 7 Zones
- 8 Zones

UniPoint RF System

In large houses, outlets a long way from the Air Conditioning Unit may not receive a sufficient amount of air flow.

The UniPoint RF System is an on/off controller for up to 8 zones with sophisticated programming and system balancing features. It is ideally suited to homes that require 8 zones or less and for users who like the convenience of a remote control that they can use anywhere in the home.

- Manual and programmable on/off time control
- LCD indicator for zone status
- Real time clock with battery backup
- 1-1-1 zone on/off program (1 Weekdays + Sat/Sun) - designed to suit up for weekend and separate one for Saturday and Sunday when all the work is finished.
- Personalised Zone Labelling
- Easy Installation
- Easy to install, setup
- Requires a qualified electrician when it’s too big a job
- Safety Protection
- Dampers to the duct system
- Auto shut off - if the temperature of any zone is lower than low limit or exceeds high limit
- Temperature sensor - air does not blow if temperature is lower than low limit or exceeds high limit
- After power loss all zones return to previous on state when power is restored

Safety Protection

- Stays in place when power is restored
- Auto shut off
- Temperature sensor
- Power loss recovery

Features:

- Ideal for a boardroom or games room that might have an unexpected influx of people
- Easy Installation
- Easy to install, setup
- Requires a qualified electrician when it’s too big a job
- Safety Protection
- Dampers to the duct system
- Auto shut off - if the temperature of any zone is lower than low limit or exceeds high limit
- Temperature sensor - air does not blow if temperature is lower than low limit or exceeds high limit
- After power loss all zones return to previous on state when power is restored

Benefits:

- Allows for maximum efficiency for heating and cooling.
- Allows for maximum air flow in unoccupied spaces.
- Allows for maximum comfort in occupied spaces.
- Allows for maximum energy savings.
- Allows for maximum control of airflow.

Features:

- 3 Zones
- 4 Zones
- 5 Zones
- 6 Zones
- 7 Zones
- 8 Zones

MaxiPoint Version 2

The MaxiPoint Version 2 extends the features of the UniPoint RF to include an additional on/off controller for up to 16 zones. This is ideal for larger homes or businesses that require more zones or zones that need to be controlled separately.

Features:

- Up to 8 zones with the ability via an expansion module to go to 16 zones (for large or two story building)
- The ability to group zones together for convenient usage. For example, if you have a big family room, with three, four, or five outlets, they can be programmed to open to different levels to give a zoned flow around the space BUT all airflow is still within the family room.
- The ability to group zones together for convenient usage.
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- The ability to group zones together for convenient usage.

Benefits:

- Allows for maximum efficiency for heating and cooling.
- Allows for maximum air flow in unoccupied spaces.
- Allows for maximum comfort in occupied spaces.
- Allows for maximum energy savings.
- Allows for maximum control of airflow.

Features:

- 1 Zone
- 2 Zones
- 3 Zones
- 4 Zones
- 5 Zones
- 6 Zones
- 7 Zones
- 8 Zones

System Balancing - The most difficult part of installing a Ducted AC System

The installer may spend hours climbing in and out of the roof to adjust airflow to each room to make sure all rooms get adequate flow. Unfortunately, in many cases this may be difficult to achieve in the allotted time. Example: Often the room that is at the end of the longest duct run gets little or no air because of improper balancing. UniPoint RF & MaxiPoint V2 solve the difficult job of zone/system balancing.

With the UniPoint Balancing ability of the MaxiPoint RF and MaxiPoint V2 this ducted task becomes simple and easy, guaranteeing a good result every time. The Installer uses UniPoint RF and MaxiPoint V2 to adjust the dampers in the roof WITHIN 60 SEC TO THE ROOM checking the airflow. No more wasting valuable time and energy in trying to achieve the perfect fit by adjusting the dampers from the control panel. Fast and easy for him, a far better result for the client.

http://www.zonemaster.com.au