

DUCT & FITTINGS GUIDE

Gas Ducted Central Heating

Ducted Heating requires specialised floor outlets:

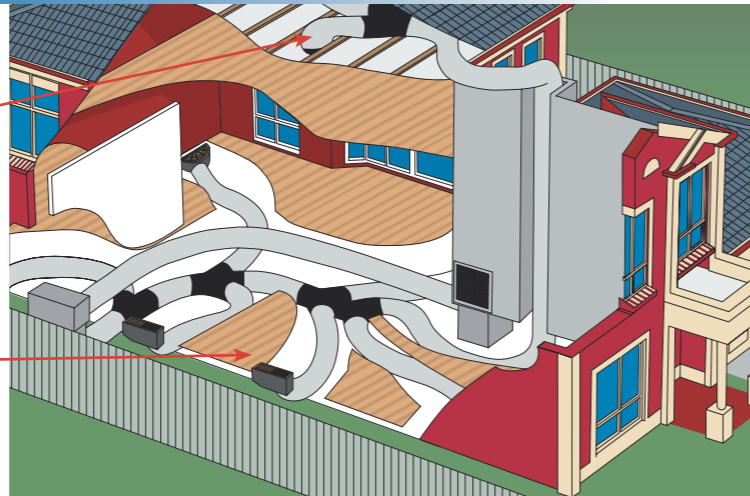
1) THE POLYAIRE ROUNDJET

Used to send warm air to where it is most needed, at ground level.



2) PVC FLOOR REGISTER

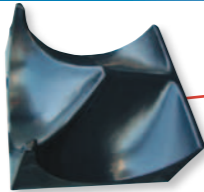
Available in 4 colours to compliment any decor.



Evaporative Systems

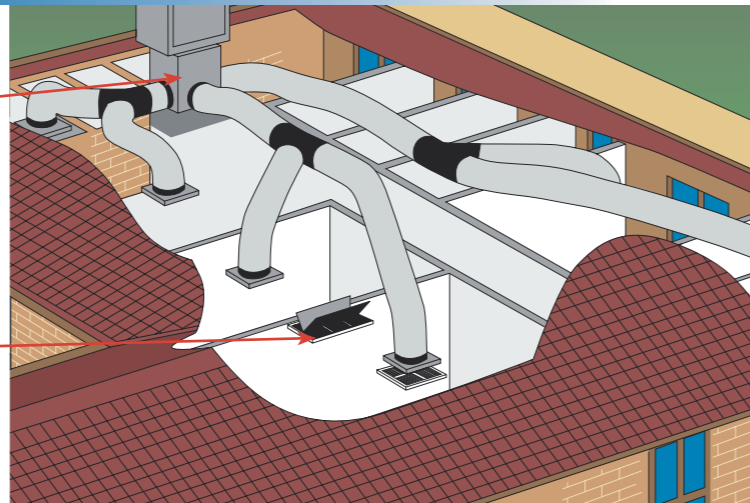
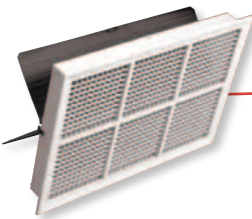
SUPER FLOW INSERT

Ensures an equal smooth quiet flow into all the ducts and helps manage an even air flow to all parts of the house. Essential for every system.



SECURITY RELIEF VENT

Evaporative units work by letting air flow escape through open windows and doors. Sometimes it may not be safe or convenient to have doors and windows open and that's when the security relief vent takes over, allowing air to escape into the roof cavity and keeping your system working while the house stays secure.



**Everything you need to install a
Ducted Air Conditioning System**



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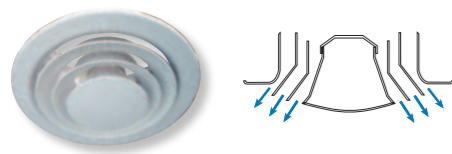
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Polyaire Round Diffusers - For Every Application

The three models in the Polyaire round diffuser range make it possible to accomplish all your airflow needs with round designs. Round diffusers are easier to fit than square models (no aligning straight edges with walls), and can fit with any décor.

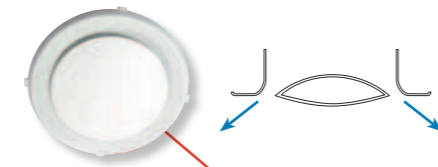
THE CIRCULAR HERITAGE OUTLET

is a more decorative design that employs a unique three stage regulation from closed through partially open to full open so that airflow needs can be tailored for a wide variety of applications.



THE ROUND CEILING DIFFUSER

is used to spread air out around the room without creating obvious draught patterns. It is incrementally adjustable for airflow from fully closed.



ROUNDJET

is designed to throw air downward in a column and is very useful for high ceilings and stairwells where it is necessary to push air a long way.



MDO-X Adjustable Multi Directional Outlet



The Multi Directional Outlet (Adjustable) from Polyaire makes decisions on which type of outlet to use obsolete. No more need to choose fixed blade or adjustable, use the Polyaire MDO-X and you can make that decision later as the one outlet suits both applications. The MDO-X includes: 230, 300, 350, 400, 450mm and 525 x 350mm 6 way.

They share current adaptors and are compatible with most clips.

- **Completely flush louvre blades**, even when fully open – no unsightly shadows or profiles. Less obtrusive to the eye.
- **The Adjustable MDO-X is ideal for use in all static and adjustable applications** as the increased holding force maintains the louvres in the desired position even in strong air flow.
- **Finish is etched to reduce reflection** and accept painting with no preparation, a major cost saving.
- **Improved overall appearance** with wider flanges, fillet corners and edges. Softer rounded design is less intrusive and more contemporary in appearance.
- **Snap-In feature holds the biscuit firmly**
- Less likelihood of dislodging biscuits when adjusting or cleaning.

Branch Take Offs

Polyaire Branch Take Off units are made from high grade moulded plastics insulated by quality closed cell urethane foam insulation to minimise energy loss from the system. They can be used in all ducted installations and won't warp or deteriorate over time.



Polyaire Flexible Duct



For a smooth flow of quiet clean healthy air insist on Australia's top selling duct and the only one totally made in Australia - Polyaire™ Flexible Duct.

The smooth internal surface minimizes noise levels and the non allergenic polyester blanket provides the necessary insulation to maximize your system's performance by reducing thermal transfer and ensuring smooth silent air flow. Polyaire Insulated Flexible Duct will not support bacterial & fungal growth. Polyaire Duct is fire rated and complies with all current test requirements of AS4254-2002 & UL181 safety standard.

You will further reduce the noise from your air conditioning unit by specifying Polyaire Silent Flex for the return air section. Silent Flex is a polyester insulated perforated flex that effectively baffles the noise from the unit while insulating the return air flow for maximum efficiency.

In Line & Motorised Dampers

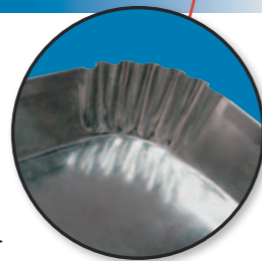
The ability to fine tune the air flow makes any system much more efficient and ensures the right flow to all rooms. Polyaire insulated dampers achieve this either manually or via motorised units and a Zonemaster Management System.



Polyaire Seamless Drip Trays

The Air Conditioning unit in the roof produces condensed water that needs to be piped away, and if this pipe gets blocked, overflowing water can badly damage your roof, electrics etc. All ducted systems need a drip tray fitted underneath the (indoor unit) in the roof to guard against this.

Most drip trays are made of soldered flat sheet metal and can deteriorate over time, or the joints can get cracked during installation causing leaks in the future. Polyaire's Seamless drip trays are made from one piece of steel so there are no seams to crack or rust and very little chance of a leak in the future



Polyaire Diffusion Fitting (PDF)



The latest design complete air management fitting from Polyaire.

Fully externally insulated, no joins to leak and designed to take motorized or manual dampers to tune your system for optimum efficiency, this fitting also uses a specially designed Zip Tie connector system to virtually eliminate duct joint leakage and provide the best possible seal against air loss. The Zip Tie connector system won't loosen with time and guarantees that all the airflow goes into your rooms, not into the ceiling.

Zonemaster UniPoint RF



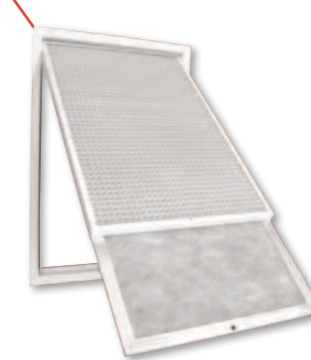
The UniPoint RF System makes any ducted A/C System more efficient by allowing air flow to rooms being used, and stopping flow to unused spaces. The RF UniPoint System is an on/off controller for up to 8 zones with the following features:

- Manual and programmable on/off time control.
- Real time clock with battery backup.
- 5-1-1 zone on/off program (Weekdays + Sat/Sun)
- Personalised zone labelling.
- No messy wall installation problems.
- Backlit LCD screen (on the handset for zone status and parameter display).
- LCD indicator for zone status and parameter display.
- Turbo zone for quick cooling of one designated room or space.
- Safety Protection.
 - o Auto spill/bypass – spill zone is forced open if all zones are switched off.
 - o Temperature override– opens all dampers if air supply temperature is lower than the low limit or exceeds the high limit.
 - o After power loss all zones automatically return to previous on/off state when power restored.

Benefits:

- Managing airflow so that the (cool or warm) air is only directed where you need it creates energy savings and greater comfort.
- The programmable timer means that the zones can be set to open and shut at specific times for maximum efficiency.

Return Air Grille with Removable Core



A quality return air grille with good filtering ability will reduce airborne dust, pollen and other contaminants giving a cleaner, healthier environment.

Frequent cleaning of your Return Air Filter will make your system run more efficiently. We use strong and durable Polyaire powder coated aluminium grilles with easy slide out filters for quick, convenient cleaning and replacement when necessary.