

Air Grille

Catalogue



HART ENGINEERING (PRIVATE) LIMITED

Protecting Assets, Safeguarding Lives

About Us

Hart Engineering has been providing high-quality fire protection and building safety solutions since 1971. With more than fifty years of experience, we are dedicated to providing dependable products that improve safety, efficiency, and performance, giving our clients peace of mind.



In addition to fire protection, we specialize in air grilles that maximize ventilation and airflow in every room. Our air grilles are designed to be durable, efficient, and visually appealing, satisfying industry standards for outstanding performance. Hart Engineering ensures that your ventilation system performs optimally, whether for commercial, industrial, or residential purposes.

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Applications



Office



Retail & Commercial Spaces



Industrial Installations




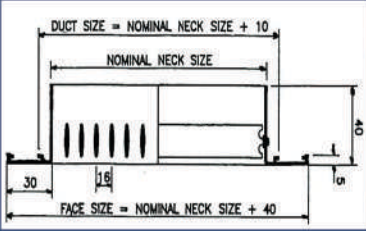
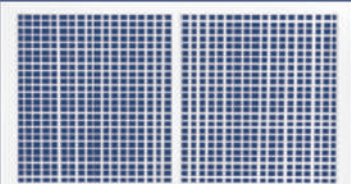
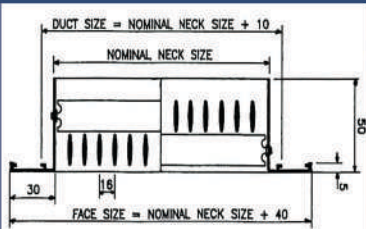
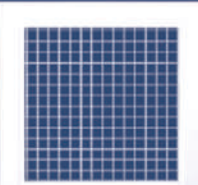
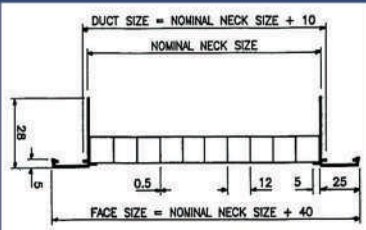

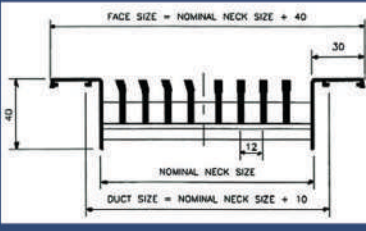
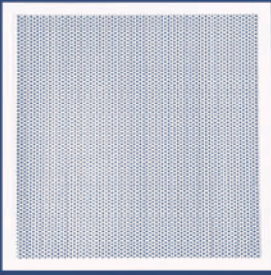
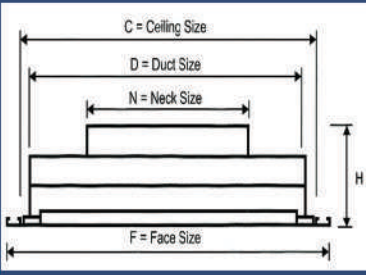
Hospitality Spaces

Product Features

- ✓ Powder Coated Scratch Proof
- ✓ Made with corrosion resistant extruded aluminium
- ✓ Able to withstand rough handling during installation
- ✓ Available in wide variety of sizes and blade designs, can be custom made to your requirements to suit modern architectural & interior decoration
- ✓ Our grilles have been tested at an independent N.A.T.A accredited test laboratory in Australia


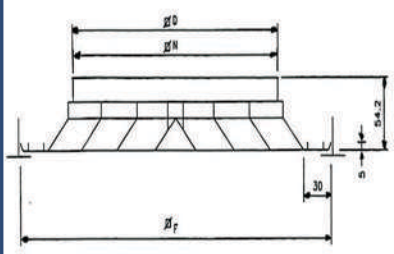

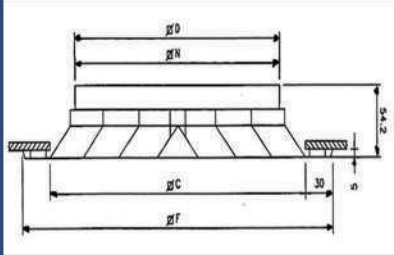

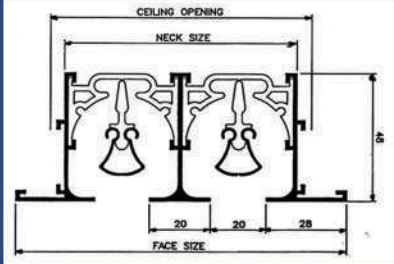

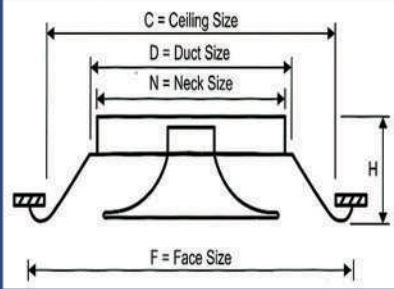
Air Grilles

Hart Engineering's air grilles ensure efficient airflow and ventilation while blending seamlessly into any architectural style. Made from high-quality materials for durability and performance, they are ideal for commercial, industrial, and residential applications.

Model	Products	Frame Styles	Description
ASG	 <p>Single Deflection Grille</p>	 <p>DUCT SIZE = NOMINAL NECK SIZE + 10 NOMINAL NECK SIZE FACE SIZE = NOMINAL NECK SIZE + 40</p>	<ul style="list-style-type: none"> • Horizontal or Vertical Aerofoil blades • Extruded Aluminium Construction
ASR	 <p>Double Deflection Grille</p>	 <p>DUCT SIZE = NOMINAL NECK SIZE + 10 NOMINAL NECK SIZE FACE SIZE = NOMINAL NECK SIZE + 40</p>	<ul style="list-style-type: none"> • Horizontal and Vertical Aerofoil blades • Extruded Aluminium Construction
ARE	 <p>Egg-Crate Grille</p>	 <p>DUCT SIZE = NOMINAL NECK SIZE + 10 NOMINAL NECK SIZE FACE SIZE = NOMINAL NECK SIZE + 40</p>	<ul style="list-style-type: none"> • Utilizing a 12mm x 12mm square grid core • Extruded Aluminium Construction
ABL -0 or ABL -15	 <p>Linear Bar Grille</p>	 <p>FACE SIZE = NOMINAL NECK SIZE + 40 NOMINAL NECK SIZE DUCT SIZE = NOMINAL NECK SIZE + 10</p>	<ul style="list-style-type: none"> • Available with 0° or 15° • Fixed deflection bars • Extruded Aluminium Construction
APG	 <p>Perforated Grille</p>	 <p>C = Ceiling Size D = Duct Size N = Neck Size F = Face Size H = Height</p>	<ul style="list-style-type: none"> • The Perforated Grille is designed to handle large volumes of air with low airflow resistant for supply and return air applications. • It can be fixed or removable centre blade. • Variety of sizes are available upon request.

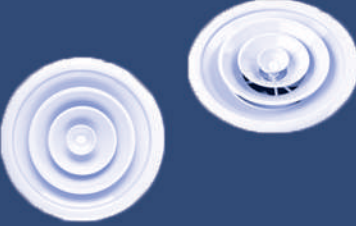
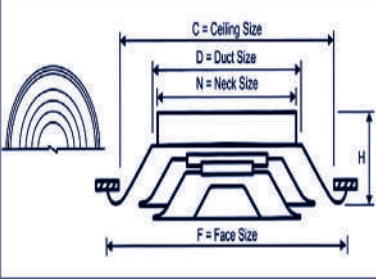

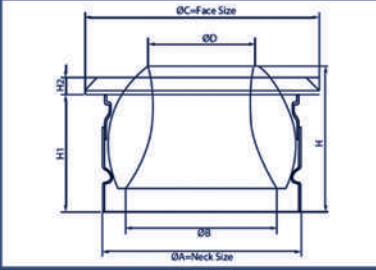
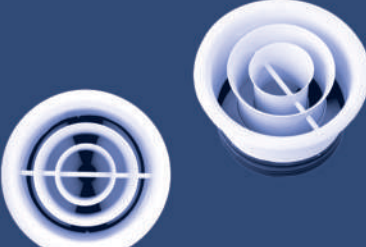
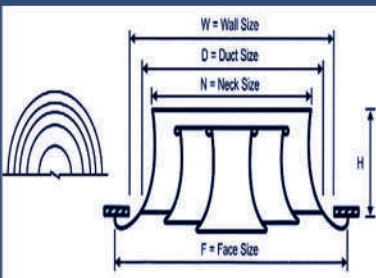
Diffusers

Hart Engineering's air diffusers deliver precise, efficient air distribution with a sleek, discreet design. Built for durability and performance, they suit ceilings, walls, or floors and can be customized for commercial, industrial, or residential applications.

Model	Products	Frame Styles	Description
ACD	 Ceiling Diffuser		<ul style="list-style-type: none"> • Lay-in frame for exposed T-Bar ceiling • Easy removal Centre Core • Extruded Aluminium Construction
ACD	 Ceiling Diffuser		<ul style="list-style-type: none"> • Flush frame surface mounted • Easy removal Centre Core • Extruded Aluminium Construction
ALD	 Linear Diffuser		<ul style="list-style-type: none"> • Featuring 0° to 180° pattern control • Available from 1 to 8 slot • Extruded Aluminium Construction
APD	 Pan Diffuser		<ul style="list-style-type: none"> • The Pan Diffuser is used for the supply and exhaust of cooled or heated air in facilities such as offices, shopping centres. • The diffuser can be mounted in the ceiling where high aesthetic standards are required. • Removable deflector plate. • Adjustable air pattern (horizontal - vertical).


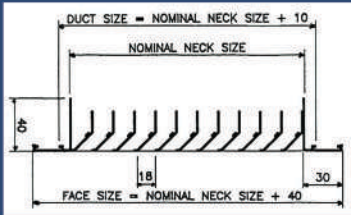

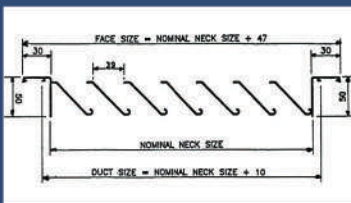
Diffusers

Available in various designs and sizes, Hart Engineering's air diffusers are adaptable to different interior requirements, ensuring effective performance across all applications.

Model	Products	Frame Styles	Description
ARD	 <p>Round Diffuser</p>		<ul style="list-style-type: none"> • The Round Diffuser is used for the supply and exhaust of cooled or heated air in facilities such as offices, shopping centres. • The diffuser can be used for ceiling or exposed duct mounting, especially in installations when an adjustable pattern is required (horizontally-vertically). • The inner cores can be easily removed and adjusted up and down by turning clockwise and anti-clockwise.
AJD-B	 <p>Ball Spout Jet Diffuser</p>		<ul style="list-style-type: none"> • The frame & nozzle core are high quality extruded aluminum sheet construction with advantages of corrosion resistance and rigidity.
AJD	 <p>Jet Diffuser</p>		<ul style="list-style-type: none"> • The Jet Diffuser is designed for spot cooling because its direction can be adjusted to suit one's requirement. • Easy adjustment by swinging to specific angles or desired direction which the center cones are pivoted. • It is recommended in halls. • Smoothly finished and streamlined cones of jet stream diffuser, which provides the most even distribution of all around (360-degree).

Louvres

Hart Engineering's louvres deliver effective ventilation, weather resistance, and energy efficiency with a sleek architectural finish. Backed by over 50 years of expertise, our systems ensure durability, safety, and seamless integration.

Model	Products	Frame Styles	Description
AFL	 <p>Fixed Louvre</p>	 <p>DUCT SIZE = NOMINAL NECK SIZE + 10 NOMINAL NECK SIZE FACE SIZE = NOMINAL NECK SIZE + 40</p>	<ul style="list-style-type: none"> • Half chevron return/exhaust air grilles • 45° fixed horizontal louvres • Extruded Aluminium Construction
AWL	 <p>Weatherproof Louvre</p>	 <p>FACE SIZE = NOMINAL NECK SIZE + 47 NOMINAL NECK SIZE DUCT SIZE = NOMINAL NECK SIZE + 10</p>	<ul style="list-style-type: none"> • For intake and exhaust ventilation application • Extruded Aluminium Construction

Accessories

Opposed Blade Damper (OBD) – Provides precise airflow control with adjustable blades.

Adapter with Round Fan Damper (RFD) – Combines secure fitting with built-in damper functionality.

Adapter with Round Collar (RCD) – Ensures tight and reliable duct connection.

Adapter with Square Collar (SA) – Designed for easy installation with square duct systems.

Plenum Box (PB) – Distributes air evenly and reduces noise in air systems.

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