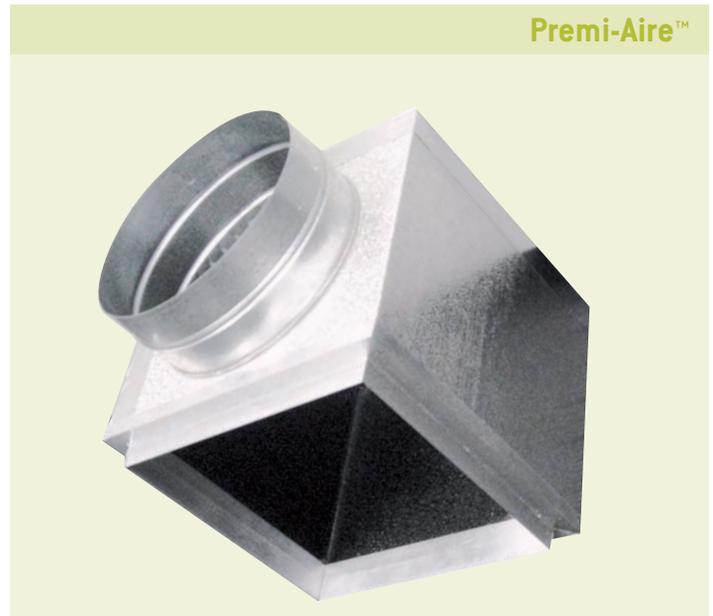
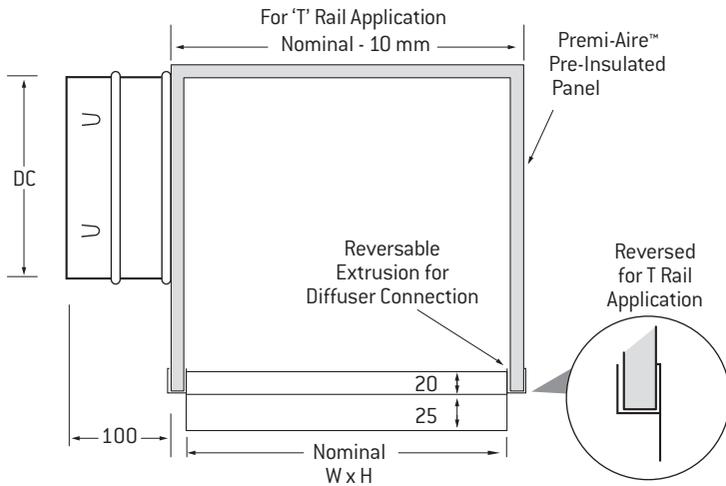


ACCESSORIES – Premi-Aire™ Cushion Head

Model: **Series Premi-Aire™**

Pre-Insulated Cushion Head, Plenum & Adaptor Boxes.



The Premi-Aire™ range adapts ceiling swirl, multi pattern, square neck diffusers, return grilles, linear diffusers and other applications to a side or top entry, round, oval or square/ rectangular spigot connection/or proprietary Duct Flange connecting arrangement.

Options

Applications for the Holyoake Premi-Aire™ include Cushion Head, plenum, and adaptor boxes.

Product Range

Square neck, adaptor boxes, supply and return plenums and other special arrangements are available. Please contact your local Holyoake branch for details.

Holyoake's Premi-Aire™ pre-insulated box system offers installers and specifiers many benefits:-

Features

- Ultra light weight, robust, and strong design.
- Easy to install.
- High thermal resistance and lower pressure drop.
- Certified to AS/NZS 1530.3 (0, 0, 0, 0-1).
- Range of spigot and duct flange options.
- Aesthetically pleasing black internal foil face.

Material

Manufactured in a sandwich panel construction, a layer of fire proof rigid closed cell foam, is laminated both sides with aluminium foil, silver external and black internal.

Ordering Code Examples and Suggested Specification

PREMI -CH

Premi-Aire™
Cushion Head.

–

CRS
CSS
CFP
CFPP

Product Type.

–

DC

Duct Connection,
(Dia/Oval/Square
Rect/Duct Flange).

–

W x H

Nominal Diffuser,
(or Grille Neck Size).

Specification

The Premi-Aire™ Cushion Head boxes shall be constructed from aluminium foil laminated silicate modified fire proof rigid Polyurethane and be complete with galvanised steel connection spigots and accessories, as appropriate.

All as manufactured by Holyoake.

Please refer to page 388K for product weights.

Pre-Insulated Duct System – PREMI-AIRE™

Holyoake's **Premi-Aire™** pre-insulated duct system is revolutionising the design, fabrication and installation of HVAC systems.

Applications for Holyoake **Premi-Aire™** pre-insulated duct system are virtually limitless and include Cushion Heads, plenums and linear adaptors, as well as complete duct systems for HVAC applications.

Improved System Efficiency

Premi-Aire™ pre-insulated duct system has a high thermal resistance, which reduces heat losses through the wall of the panel. The unique assembly system reduces air leakage, by improving joint sealing and reducing the number of joints. The black aluminium foil lining reduces system resistance and also creates a smooth, cleanable surface, that assists with future maintenance schedules.

Enhanced building design

Designed to reduce the impact of the HVAC system on building design, **Premi-Aire™** pre-insulated duct system is up to 90% lighter than traditional sheet metal duct systems, potentially reducing the structural design requirements in a building. As a pre-insulated panel, there is no need to make allowances for access for external insulation installed on site, reducing the required ceiling space. Holyoake's **Premi-Aire™** pre-insulated duct system is manufactured without CFC's, ensuring the completed system has minimal impact on the environment.

Compliant with BCA & NZBC

Holyoake's **Premi-Aire™** pre-insulated duct system has been tested at the NATA certified, CSIRO laboratory in Australia and conforms to the requirements of the Building Code of Australia, AS 1530.3 and AS 4254. **Premi-Aire™** pre-insulated duct panel is built to exacting international quality standards with ISO 9001: 2008 Certification.

New Zealand supplied **Premi-Aire™** also complies with ISO9705 in accordance with NZBC C/VM2 Appendix A and has a group classification number 1-S (highest available).

Ease of installation and construction

Premi-Aire™ pre-insulated duct system caters for the needs of designers, fabricators and installers to reduce construction and on-site time when compared to traditional methods. Holyoake can provide the complete tooling and training needs for workshop and on-site staff, as well as project costing software for the estimator.

Applications

- Grille / Diffuser Cushion Head boxes.
- Linear adaptor boxes.
- Low to medium pressure applications for plenums and ducting, however final selection is dependant on all application data, therefore, **please refer to your local Holyoake Branch for specific applications.**

Design And Manufacture

- CAD / CAM facilities for automated CNC machining, are available.
- Certified to ISO 9001:2008.
- Various connection methods available including standard "h" section and 35mm Proprietary Duct Flange Systems.

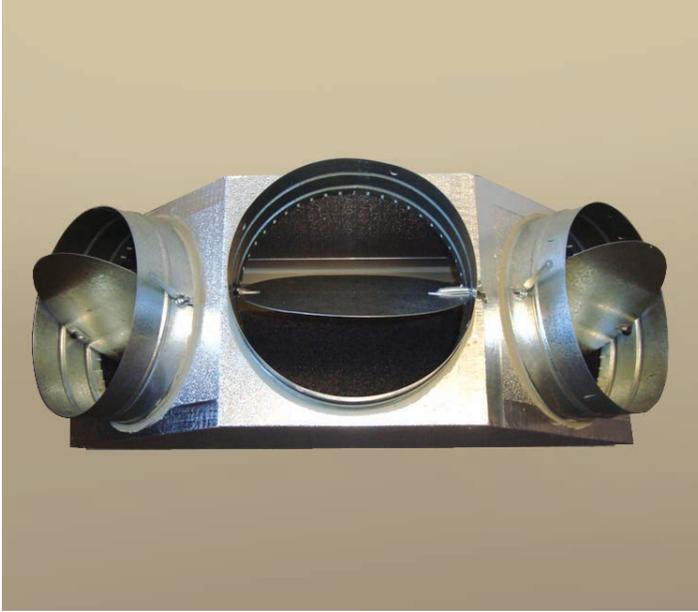
Advantages

- Standard range of products available.
- Specials can be manufactured to meet specific requirements.
- Ultra lightweight (enhancing health & safety), robust and strong design.
- Reducing structural design requirements with regards to seismic bracing, especially with the new slim line ceiling grids.
- Easier to install and position in both solid and grid ceilings.
- High thermal resistance.
- Round/Oval/Square/Rectangular spigots (can be supplied loose).
- Duct flange options also available.
- Minimal impact on the environment being CFC free.



PREMI-AIRE™ – Applications

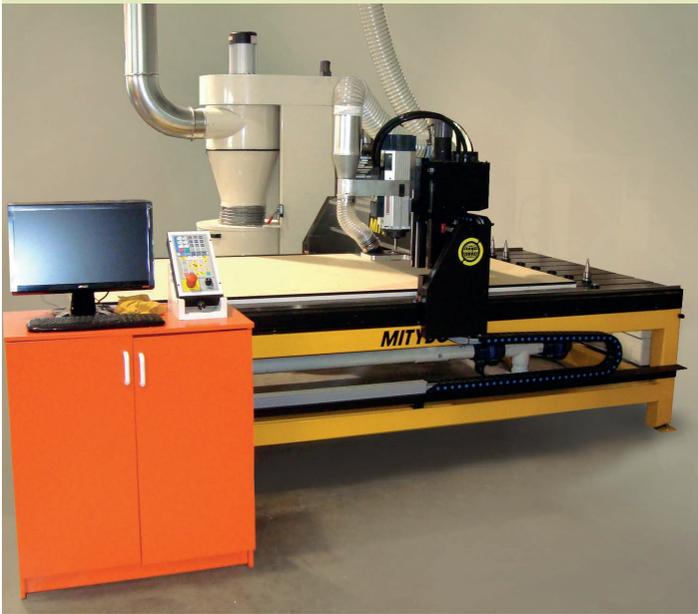
Supply Plenum



Cushion Head Adaptor with Circular Spigots



CNC Machine



Cushion Head Adaptor with Oval Spigots



Guide Product Weights

Approximate Weight in Kg

Size	Premi-Aire Cush Head	Size	Premi-Aire Cush Head
CRS 300	1.50	225 SQ CH	1.10
CRS 450	2.50	300 SQ CH	1.20
CSS 450	2.10	375 SQ CH	2.00
CSS 600	2.70	450 SQ CH	2.50
595 SQ T Rail	2.60	595 SQ CH	2.60

Product Ordering Key and Suggested Specifications

Product Reference	Quantity +	Description	Listed Size, W x H or Diameter +	Specification
ADC-2	1	Access Door Tab Type with Cam Locks.	450 x 450	ADC-2 and ADH-2 - Access Doors shall be constructed from double skin galvanized mild steel and are complete with cam locks and hinges, as appropriate. Dove tailed frame tabs are supplied for ease of installation. All shall be as manufactured by Holyoake.
ADH-2	5	Access Door Tab Type Hinged with Cam Locks.	200 x 200	
APP	4	Access Pressed Panel.	APP-SML (250 x 150) APP-MED (300 x 200) APP-LGE (450 x 350)	APP - Access Pressed Panels shall be constructed from galvanized mild steel and are complete with locking knobs. All shall be as manufactured by Holyoake.
AS25L	3	Air Scoop, Blades Parallel to Long Dimension.	900 x 300	AS25/AS50 Air Scoops - shall be constructed from a zinc coated steel casing with gang operated parallel blades (at 25, or 50 mm Pitch) and a hinged pre-punched strip, for setting. All shall be as manufactured by Holyoake.
AS25S	1	Air Scoop, Blades Parallel to Short Dimension.	300 x 900	
AS50L	5	Air Scoop, Blades Parallel to Long Dimension.	900 x 300	
AS50S	7	Air Scoop, Blades Parallel to Short Dimension.	300 x 900	
CH		Cushion Head - Ordering Codes & Specifications are shown on Page 376K & 386K		
DA25	4*	25 mm Duct Flange 5.8 m length.		DUCT FLANGE Duct Flanging System - For secure airtight joints for ductwork, dampers, and accessories. All shall be as supplied by Holyoake.
DA35	4*	35 mm Duct Flange 5.8 m length.		
DA25	16*	25 mm Corner (with clips) for use with DA25 Flange.		
DC35L	16*	35 mm Corner (with clips) for use with DA35 Flange.		
DCJ	256*	140 mm long snap on 'J' Cleats.		
DM SEAL	3*	15 m roll of Duct Flange Gasket Tape.		
* Guide to form 8 o° 12 00 x 1200 Flange Assemblies.				
DUCT TAPE	5	Each.	Silver Duct Tape 48 mm x 55 mm.	Duct Tape - A premium grade polyethylene coated cloth duct tape. All shall be as supplied by Holyoake.
	1	Carton of 24.		
EGS	5	Equalising Grid, Square, or Short Blades (600 x 600 Maximum).	Grille/Diffuser Neck Size, or Nominal Neck Size	EGS / EGL - Equalising Grids shall be constructed from extruded aluminium blades and Casing, stainless steel friction wire interlaced with blade axles, hold the required setting. Bright zinc plated clips fix the grids to the neck of the diffusers, or grille. All shall be as manufactured by Holyoake.
EGL	4	Equalising Grid, Long Blades (600 x 600 Maximum).	Grille/Diffuser Neck Size, or Nominal Neck Size	
OBD-1	5	Extruded Black Anodised Aluminium - OBD.	200 x 200	OBD - Opposed Blade Dampers shall be constructed from extruded black anodised aluminium. All shall be as manufactured by Holyoake.
OBD-2	7	Extruded Black Anodised Aluminium - OBD.	300 x 300	
OBD-3	2	Extruded Black Anodised Aluminium - OBD.	500 x 200	

+ Example

ACCESSORIES

Product Ordering Key and Suggested Specifications

Product Reference	Quantity +	Description	Listed Size, W x H, or Diameter +	Specification
PDI	3	Pressure Differential Indicator Sensor.	100 DIA	PDI/PDIA/FM-PDI/FM-PDIA/DM-PDIA/PDI-BS/PDIA-BS- Pressure Differential Indicator sensors and Flow Measuring and Flow Balancing stations shall be constructed from small diameter tubing with Galvanised steel sleeves and disc dampers where appropriate. All shall be as manufactured by Holyoake.
PDIA	7	Pressure Differential Indicator Sensor - Amplified.	150 DIA	
FM-PDI	2	PDI Flow Measuring Station.	300 DIA	
FM-PDIA	3	PDI Flow Measuring Station - Amplified.	400 DIA	
DM-PDIA	6	Flange Mounted PDIA for Rectangular Ducts.	Size 150	
PDI-BS	3	Flow Balancing Station.	100 DIA	
PDIA-BS	3	Flow Balancing Station - Amplified.	175 DIA	
PREMI-CH		PREMI-AIRE™ Cushion Head - Ordering Codes and Specification are shown on Page 386K.		
PREMI-AIRE™		PREMI-AIRE™ Pre-Insulated Duct System. See Page 387K.		
RD	20	Radial Balancing Damper.	RD 150	RD - Radial Balancing dampers shall be constructed from Galvanised Mild steel with UV Stabilized Fire Rated Polymer Drive Pinions. All shall be as manufactured by Holyoake.
SAB	10	Self Aligning Bend.	SAB 100	SAB - Self Aligning Bends shall be manufactured in four segments from Galvanized steel, to allow 90° to 180° bends. They shall be crimped both ends to insert into Spiroloc ducting. All shall be as manufactured by Holyoake.
SB (For use with CRA, CRP, CSRL, CSRLA, CSRV and CMP).	4	Sectorising Baffles.	Inlet DIA Neck Connection 300 DIA.	SB - Sectorising Baffles are satin etched black on steel and shall be manufactured in 45° sections, except CMP. All shall be as manufactured by Holyoake.
SPIN CON	10	Spin Connector (Suitable for Rigid, Semi Rigid and Flexible Ducting).	Nominal Duct DIA 300 DIA.	Spin Connectors/Spin Collars – shall be constructed from Galvanized Steel of 0.45 mm for sizes 100 - 250 mm and 0.55 mm for sizes 251 - 400 mm. For connection of Duct to Duct (Spin Con), or to provide a circular duct connection (Spin Collar), to a square, or rectangular plenum. All shall be as manufactured by Holyoake.
SPIN COL	5	Spin Collar (Suitable for Flexible Ducting).	Nominal Duct DIA 200 DIA.	
SSD	2	Stream Splitter Damper.	Neck Size 900 mm x 300 mm.	SSD - Stream Splitter Dampers shall be constructed from zinc coated steel finished in matt black and shall be designed to control volume and direction from a main to a branch duct. All shall be as manufactured by Holyoake.
SRA **	7	Square to Round Adaptor.	Nom W x H x DIA.	SRA/RRA/SSA – Square to Round, Rectangular to Round and Square to Square Adaptors shall be constructed from 0.55mm Galvanized Steel and shall be complete with a circular spin collar to suit circular duct, or a square duct connection. All shall be as manufactured by Holyoake.
RRA **	6	Rectangular to Round Adaptor.	Nom W x H x DIA.	
SSA **	7	Square to Square Adaptor.	Nom (W x H) x Nom (W x H).	
** (For use with HI35, EC125, OBD-1, 2, 3, RD, BD 85 and other options).				
TRV	5	Throwing Reduction Vanes.	300 mm x 300 mm 5 Vanes.	TRV - Throw Reducing Vanes shall be manufactured from sheet Aluminium and shall be affixed to the rear of a CMP Diffuser. All shall be as manufactured by Holyoake.
TVS	2	Turning Vane, Short Blades.	150 mm x 300 mm.	TVS/TVL – Turning Vanes have curved blades and shall be constructed from extruded aluminium. They shall be hinged and complete with a pre-punched strip for fixing. All shall be as manufactured by Holyoake.
TVL	2	Turning Vane, Long Blades.	300 mm x 150 mm.	
TVA-90	3	Turning Vane Arrangement, Inlet Adaptor.	Diffuser Neck 150 mm x 150 mm.	TVA-90/TVMAL-90/TVAI-90 and TVMA-90 - Turning Vane arrangements shall be constructed from zinc coated steel and finished in matt black and shall be designed to provide a better discharge pattern and accurate flow data, as appropriate. All shall be as manufactured by Holyoake.
TVMA-90	1	Turning Vane Arrangement with PDIA, Inlet Adaptor.	300 mm x 150 mm.	
TVAI-90	5	Turning Vane Arrangement, Inlet Adaptor (Insulated).	375 mm x 375 mm.	
TVMAL-90	2	Turning Vane Arrangement with PDIA, Inlet Adaptor (Insulated).	300 mm x 300 mm.	

+ Example