



曾 泉 江 鐵 器 廠
CHAN CHUAN CHANG METAL WORKS

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PRESSURE RELIEF DAMPER



Brand : CCC

**AIR DIFFUSION EQUIPMENT
PRESSURE RELIEF DAMPER
Series : CCC-NRD**

CHAN CHUAN CHANG METAL WORKS



VISION

“To produce high quality products, high standard of creativity in design and excellent credibility in reputation”

MISSION

“Serve customer with satisfactory and reliable works and products”

Chan Chuan Chang Metal Works was established in 1975, committed to the vision to manufacture good quality Air Diffusion Equipment. After building up its reputation in the industry as a top manufacturer, the company registered the logo with the Registry of Trade and Patents (Singapore). From then onwards, all equipment which has the trade mark symbolise our commitment to serve our customer with satisfactory and reliable works and products.


Our products have been tested by VIPAC, testing laboratory at Victorian technology Centre, Port Melbourne, Victoria. Furthermore, the results are NATA Certified (National Association of Testing Authorities, Australia) to ADC 10623 R3 (Air Diffusion Council, USA) and are officially endorsed in countries which are signatories to the I.L.A.C agreement-namely, Australia, New Zealand, Britain, USA and Malaysia.

We were proud to introduce the **Heavy Duty Aluminium Computer Floor Grille**, Series : CR to the industry in 1991. This has been a breakthrough as the grille are able to provide adequate air flow whilst maintaining the weight of any person or equipment. This is verified by the Comprehensive Loading Test performed by Singapore Institute of Standard & Industrial Research (SISIR), currently known as Spring Singapore. Series : CR has since then been installed in many computer rooms, wafer manufacturing plant and places which require the product.



COMPANY MILESTONE

1975 Established with the vision to manufacture high quality Air Diffusion Equipment to meet future needs and demands. Together with a team of experienced Engineers & Craftsman dedicated to Chan Chuan Chang's Motto – Commitment, Creativity & Credibility, we produced good quality products with high standard of creativity in design and maintained excellent credibility in reputation.

1982 Registered with the Registry of Trade and Patents (Singapore), CCC Trade Mark  has since become a household name in its industry.

1986 Chan Chuan Chang (CCC) products are tested by VIPAC, a testing laboratory at Victorian Technology Centre, Port Melbourne, Victoria. These results are NATA Certified (National Association of Testing Authorities, Australia) to ADC 10623 R3 (Air Diffusion Council, USA) and are officially endorsed in countries which are signatories to the I.L.A.C agreement – namely, Australia, New Zealand, Britain, USA and Malaysia.

1991 CCC Aluminium Computer Floor Air Grille was sent for Comprehensive Loading Test conducted by Singapore Institute of Standard & Industrial Research (SISIR) and achieved excellent results.

1997 CCC was awarded ISO 9002 Certification. Our impressive list of satisfied clients is testimony to CCC's motto – Commitment, Creativity and Credibility.

2005 CCC has improved its quality management system with respect to the ISO 9001:2000 standard due to our commitment towards quality improvement in our products and customer satisfaction. We thank you for your faith and support in our products. We will continue to strive harder to exceed your demand & satisfaction.

2012 CCC was awarded ISO 9001:2008 Certification by BVQI Accreditation. CCC also became a certified member of Air Movement and Control Association International (AMCA). Our Low Leakage dampers were tested according to AMCA standards and received certifications.

Pressure Relief Dampers



MODEL: CCC-PRD

Construction

- High quality G.I. steel material.
- Standard construction comes with 32mm flange for duct mounting.
- Bronze bush are used for the steel shafts.
- Blade shaft are in sections.
- Comes with counterweight (Standard is centre counterweight. If required for side counterweight please indicate during enquiry).
- Touch-ups only to welded areas for the finishing.
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Description

- PRD models are designed to meet the requirement of the building, offshore and marine industries.
- They are used to maintain the amount of air in the ventilation duct systems.
- Damper casing parts are welded together to form the frame where bronze bush are installed.
- Counterweight can be adjusted vertically to maintain the desirable amount of air to be released.

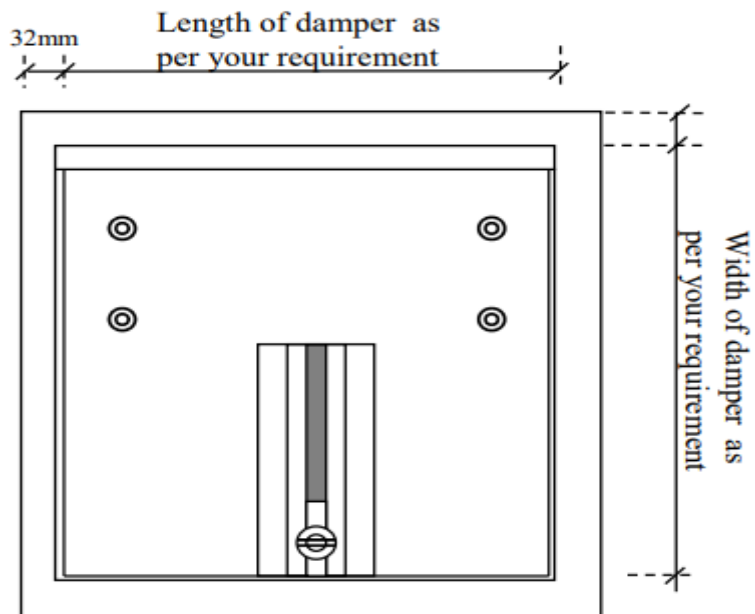
Accessories & Optional Features

- Foam gasket
- Flange holes
- Primer protection coatings
- Suggestions are also available on request from your CCC specialist.

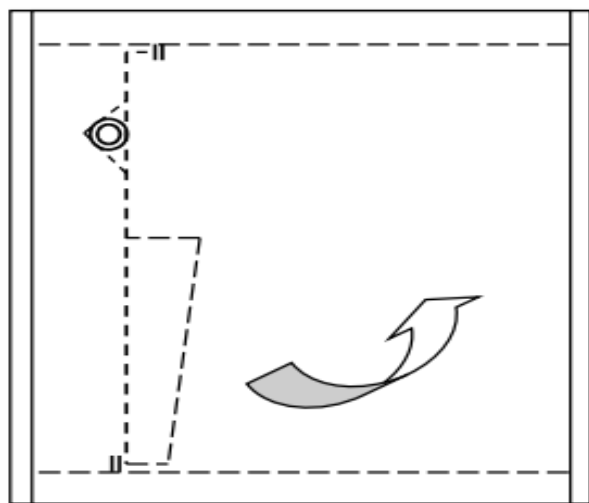
Pressure relief Damper c/w counterweight

Model : PRD

Design Construction



FRONT VIEW



SIDE VIEW

Pressure relief Damper c/w counterweight

Model : PRD

Performance Data

Airflow Capacity (l/s)	Pressure Drop (Pa) for following size					
	300x200mm (L)	300x200mm (H)	400x300mm (L)	400x300mm (H)	600x300mm (L)	600x300mm (H)
27.8	5	30	6	17	5	12
55.6	8	37	7	21	5	14
83.3	10	48	8	25	6	17
111.1	18	60	9	30	7	20
166.7			12	42	8	25
222.2			15	48	10	30
277.8					14	36
333.3					18	42
388.9					24	48

Note : The performance data was collected based on the standard sizes. Other sizes can be customized to requirement.

Types Of Counterweights



Side Counterweight allows you to control and adjust to meet your desired pascal level for the airflow to work efficiently easily from the outside.

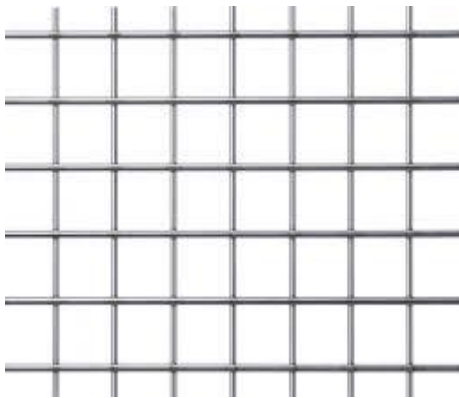


Center Counterweight is the standard type or counterweight CCC will give if there are no special instructions from our clients. It is easily adjusted to meet your desired pascal level for the airflow to work efficiently.

Optional Accessories/requests for Volume Control Damper



FLANGE HOLES : Pre-Flange holes allows you easier installation and acts as a guide to let you install the damper easily. Please request if you require holes at your flange so we can quote you accordingly for the number of holes.



Wire Mesh : Wires mesh is useful for Volume Control Dampers that are used outdoor to keep birds and animals from going into your unit.



Foam Gasket : Foam gasket prevent greater leakage through the connections of VCD to ductings.