

# PACIFIC FIRE DAMPER



PROTECT YOUR LIFE AND ASSETS

#### Company Profile

With an idea and a commitment, Delta Pyramax Co., Ltd was founded in 1982. The idea was to improve the human living and working environment with worldwide sourcing. The commitment was to provide the highest quality, technology and most economic value products to our customers. Developed 40 years age, this philosophy is still the fundamental operating principle of Delta Pyramax today.

Delta Pyramax had most experience on following: Fire & Smoke Protection System; Energy Saving System; HVAC System; Waste Water Treatment System; Air Cleaning & Filtering System; Environmental Acoustic System...etc. Most of our products are leaders in the market. The focus of Delta Pyramax has always provided excellent customer service. Whether it's in the initial design phase, during construction, or ager project completion, our salesmen deliver expert customer support.

Through active membership and participation, Delta Pyramax is a member of the following association: Hong Kong Registered Ventilation Contractors Association in 1992; The Fire Protection Association in 1994; The Hong Kong Air Conditioning & Refrigeration Association Ltd in 2002. Delta Pyramax is committed to supporting our product groups and worked with product manufacturers to develop product performance, testing standards, certification & guidelines for the best customer value.

#### PACIFIC

#### FIRE DAMPER **CHARACTERISTICS:**

Complied with the following international and local standards \* BS476: Part 20 \* ISO 9001:2015 \* Requirements of HKFSD

An effective and passive methodology to prevent and isolate the spread of fire through ductwork or fire resistance rated walls (vertical installation) and floors (horizontal installation).

2 types of fire dampers are provided \* 8001 Style A \* 8001 Style B

▶ Fire rating options: 4 hours integrity



#### PACIFIC Benefits

- We are one of the manufacturers in Hong Kong which install the fire damper into the wall without using retaining angle, as well as single side angle.
- Self-owned manufactory is located in Hong Kong.

  - \* Quick delivery
    \* Quick production
    \* Available on size and quantity in adjustment
- Over 70 methods of installation with test reports.
- Only minimal aperture for thermal expansion is necessary.

## PACIFIC





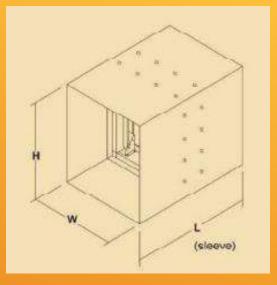








# **PACIFIC**8001 Style A



#### **Specification**

Material: G.I., Stainless Steel (SS) 304 or 316

Frame: 0.8mm (22 gauge)

Blade: 0.6mm (24 gauge) [last blade 0.8mm]

Sleeve [optional]: 1.0mm (20 gauge) / 1.2mm (18 gauge)

Fusible Link temperature: 68 degree C

[For Walls] Single Module Min. Size (W x H): 100mm x 100mm

[For Walls] Single Module Max. Size (W x H): 1200mm x 1100mm

[For Floors] Single Module Min. Size (W x H): 100mm x 100mm

[For Floors] Single Module Max. Size (W x H): 900mm x 1200mm

[For Walls] Multi Module Max. Size (W x H): 7300mm x 6800mm

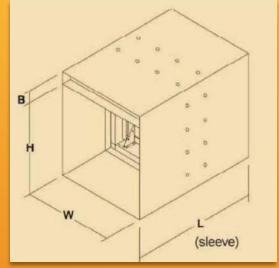
[For Floors] Multi Module Max. Size (W x H): 3600mm x 4900mm

Spring [optional] [Material: SS 301]

Electric Thermal Link (ETL) [optional]

(Blades outside air stream,

#### **PACIFIC** 8001 Style B



H(mm) 100-324

325-574

575-824

825-1025

B(mm)

44

70

95

120

#### **Specification**

Material: G.I., Stainless Steel (SS) 304 or 316

Frame: 0.8mm (22 gauge)

Blade: 0.6mm (24 gauge) [last blade 0.8mm]

Sleeve [optional]: 1.0mm (20 gauge) / 1.2mm (18 gauge)

Fusible Link temperature: 68 degree C

[For Walls] Single Module Min. Size (W x H): 100mm x 100mm

[For Walls] Single Module Max. Size (W x H): 1200mm x 1100mm

[For Floors] Single Module Min. Size (W x H): 100mm x 100mm

[For Floors] Single Module Max. Size (W x H): 900mm x 1200mm

[For Walls] Multi Module Max. Size (W x H): 7300mm x 6800mm

[For Floors] Multi Module Max. Size (W x H): 3600mm x 4900mm

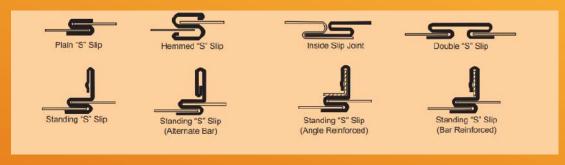
Spring [optional] [Material: SS 301]

Electric Thermal Link (ETL) [optional]

P.6

#### DIVERSE TYPES OF BREAKAWAY JOINTS FOR INSTALLATION

Method 1: UL555 approved Duct-sleeve connections



✓ Method 2 : UL555 approved Flat Drive Slip



#### PACIFIC PERFORMANCE-PRESSURE DROP

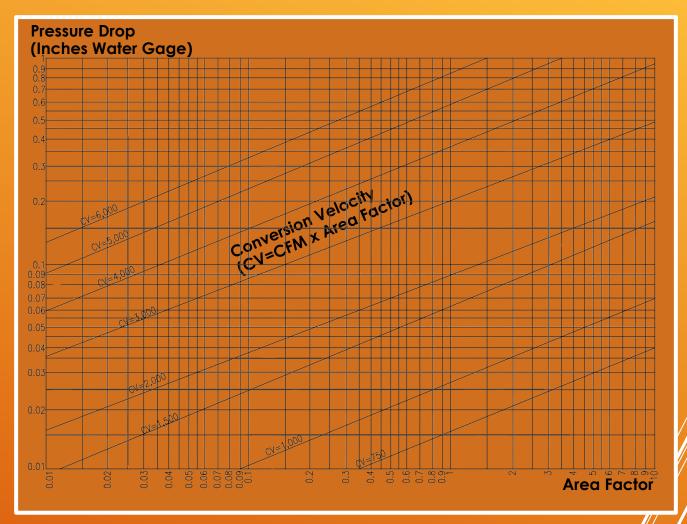
Performance Data for 8001 Style A Find Pressure Drop:

- 1. Determine Area Factor for the damper based on the duct width and height (W x H ) using the appropriate chart (p.8) based on damper style.
- 2. Find the conversion velocity (CV) by multiplying area factor for the selected size damper by flow rate in CFM (i.e CV=CFM x Area Factor).
- 3. Locate the area factor at bottom of the pressure drop chart. Move up the chart to the appropriate conversion velocity (CV) line. From the intersection point, move left to Pressure Drop at left side of the chart (p.9).

#### PACIFIC AREA FACTOR TABLE

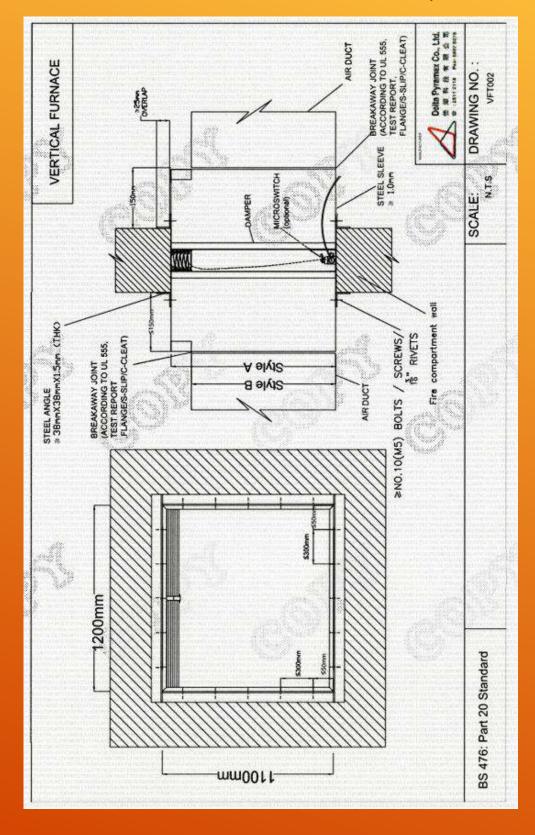
		Width W														
Ht. H	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
6	8.33	3.57	2.27	1.64	1.30	1.14	.943	.820	.725	.649	.588	.546	.505	.469	.433	.407
8	5.88	2.56	1.61	1.19	.943	.806	.675	.595	.526	.472	.427	397.	.365	.337	.314	.292
10	4.55	1.96	1.25	.917	.719	.625	.526	.459	.403	.360	.324	.306	.280	.258	.240	.225
12	3.57	1.52	.971	.709	.562	.485	.410	.355	.313	.281	.254	.236	.217	.201	.187	.175
16	2.63	1.14	.719	.526	.417	.360	.305	.263	.232	.208	.189	.175	.162	.149	.139	.129
20	2.08	.901	.571	.420	.331	.286	.242	.210	.185	.166	.150	.140	.128	.119	.110	.103
24	1.75	.746	.474	.348	.275	.237	.201	.174	.152	.136	.122	.116	.106	.099	.092	.086
28	1.49	.637	.406	.298	.235	.203	.172	.149	.131	.117	.106	.099	.091	.084	.078	.073
32	1.30	.555	.355	.260	.205	.177	.150	.130	.115	.103	.093	.087	.080.	.074	.068	.064
36	1.14	.488	.311	.227	.180	.155	.132	.114	.100	.090	.081	.076	.070	.064	.060	.056
42	.971	.417	.265	.195	.154	.133	.113	.097	.086	.077	.069	.065	.060	.055	.051	.048
48	.855	.366	.233	.171	.135	.116	.099	.085	.075	.067	.061	.057	.052	.048	.045	.042
54	.758	.325	.207	.152	.120	.103	.087	.076	.067	.060	.054	.051	.046	.042	.040	.037
60	.685	.293	.186	.137	.108	.093	.079	.068	.060	.054	.049	.046	.042	.039	.036	.034
66	.613	.264	.168	.123	.097	.084	.071	.062	.054	.049	.044	.041	.038	.035	.032	.030
72	.565	.242	.154	.113	.089	.077	.065	.056	.050	.045	.040	.038	.035	.032	.030	.028

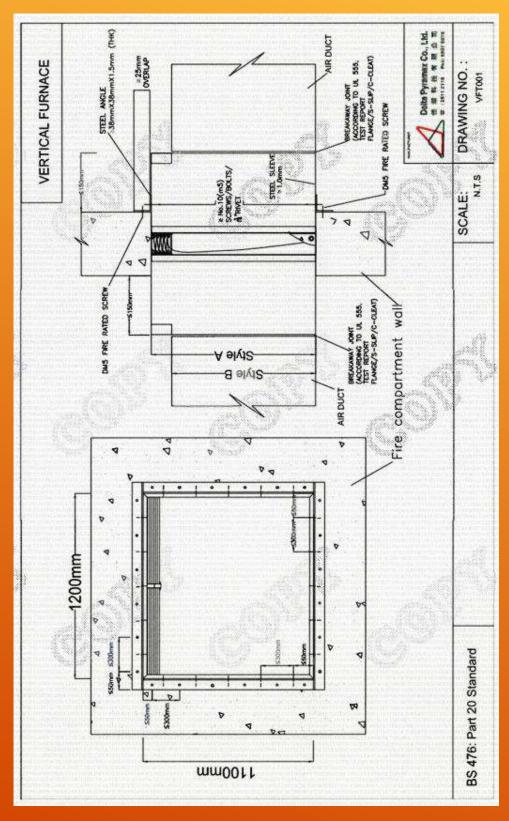
## PACIFIC Pressure Drop (Inches Water Gage)

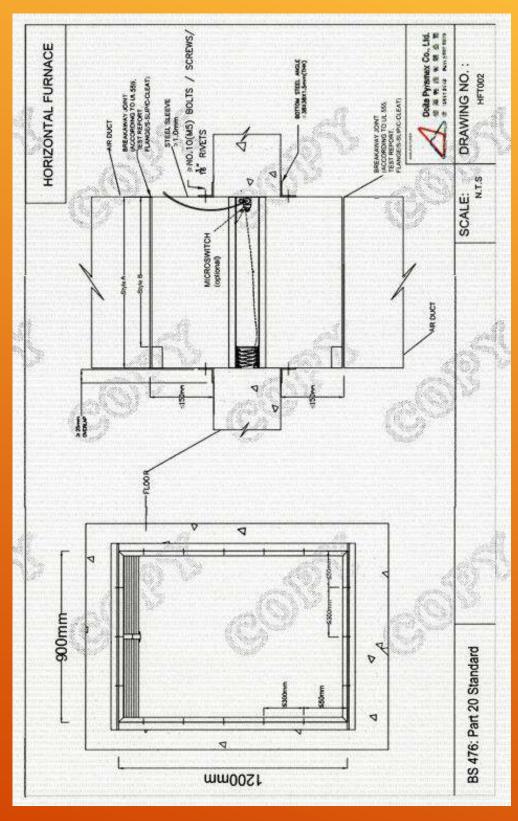


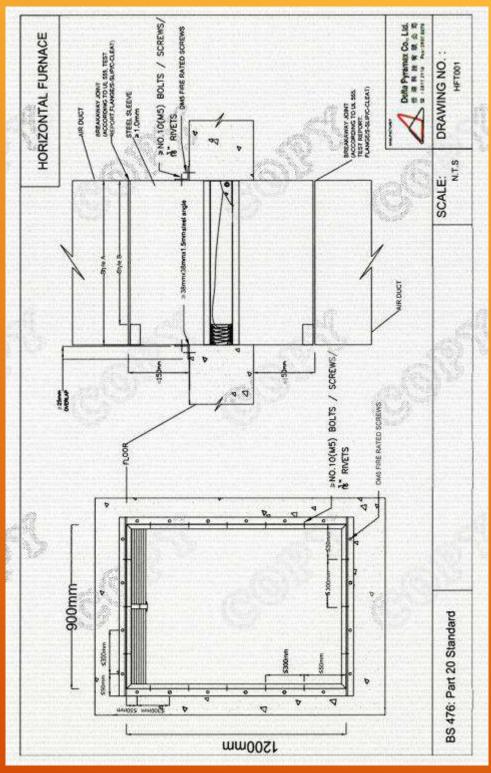
#### Notes:

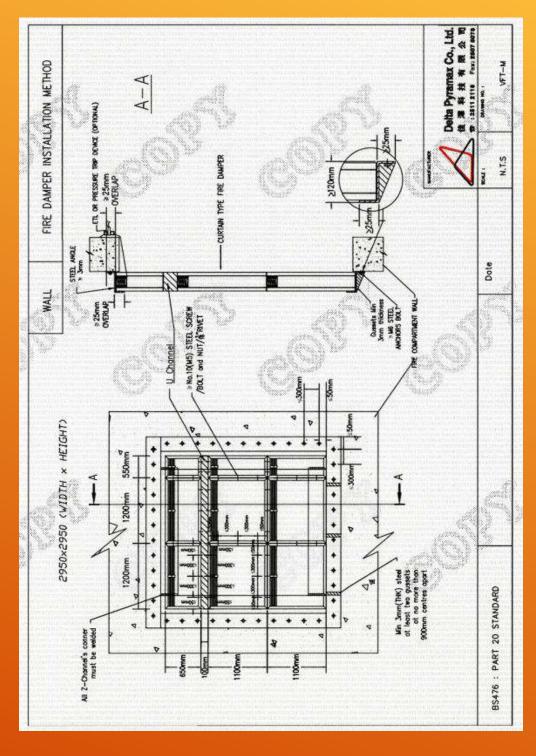
- 1. Ratings are based on AMCA Standard 500 using test set up apparatus figures 5.3 (damper installed with duct upstream and downstream).
- 2. Static pressure and conversion velocities are corrected to 0.075 lb./cu. Ft. air density.
- 3. For installations where damper is not installed in ductwork such as return air from ceiling plenum through fire damper into return air shaft, multiply static pressure drop obtained from the table below by  $2.8 + \sqrt{1 \div}$  Area Factor

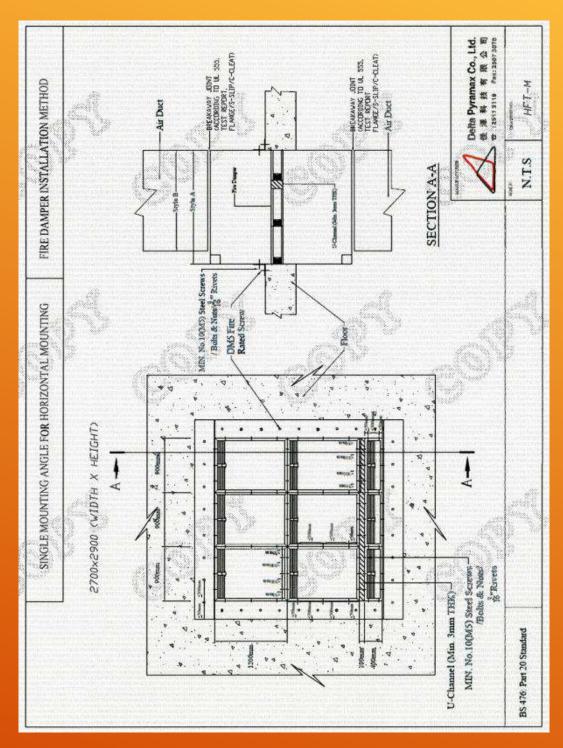














PROTECT YOUR LIFE AND ASSETS

#### Delta Pyramax Co., Ltd. Hong Kong Office

Address : 28/F, Skyline Tower, 39 Wang Kwong Road,

Kowloon Bay, Hong Kong

Telephone : (852) 25112118
Fax : (852) 25075078
Email : sales@dpx.hk

Website : www.deltapyramax.com