N2T & N3T RECTANGULAR DUCT ATTENUATORS

DESCRIPTION

Fantech Rectangular Attenuators with 200mm and 300mm thick tapered splitters are available in different models to suit a variety of applications and duct dimensions. They can be made in different widths and heights, and each model number denotes a different percentage of open area and length combination. They provide superior insertion loss and pressure drop performance over standard rectangular attenuators.

They are available in the following models:

N2T & N3T Series – Rectangular, Tapered Attenuators

The N2T & N3T series with 200mm and 300mm tapered splitters respectively are ideal for general HVAC purposes and suitable for industrial applications.

The splitters have a bio-soluble acoustic grade glasswool that is incombustible and encased behind finely perforated galvanized steel.

Suitable for dry applications. Refer to the N2T/ N3T..QS series for applications where moisture may be present in the airstream.

N2T & N3T Series - Rectangular Q-Seal, Tapered Attenuators

The Rectangular Q-Seal tapered attenuator includes the qualities of the N2T & N3T series attenuator and incorporates an infill system protected by an impermeable plastic membrane/film.

The N2T/ N3T..QS series is suitable in medical and clean room applications and any sensitive ventilation systems requiring an infill material that prevents the possibility of insulation fibre ingress into the airstream.

They are also suitable where the insulation medium is directly exposed to weather, grease, liquid, or dusts. Attenuators of this model type may also be cleaned periodically by low-pressure steam or pressure washer equipment.

CONSTRUCTION

- Casing and splitters made from Z275 coated galvanized steel.
- Infill from bio-soluble acoustic grade glasswool or mineral wool that is incombustible and encased behind finely perforated galvanized steel..
- Q-Seal (QS) variants have infill material protected by liquid impermeable Melinex® PET Plastic Film.
- Standard construction rated to duct pressures between -500Pa and +1kPa relative to atmosphere.

SELECTION PROCEDURE & PRESSURE DROP CALCULATION

Attenuators with small percentages of free area and longer length will provide the greatest attenuation but also the greatest pressure loss. Certain steps within the attenuator selection process may therefore need to be repeated several times to determine the best selection within these constraints.

The Fantech Selection Program can be used to quickly create multiple selection options or alternatively the following manual process can be used.

Step 1: Insertion Loss

From the performance data table select an attenuator that provides an insertion loss closest to that of the required insertion loss.

Step 2: Dimensions

Considering the dimensional constraints of the connecting duct work or installation location, select the most suitable set module width for the attenuator chosen in step one and nominate the required height (unrestricted).

Step 3: Face Velocity

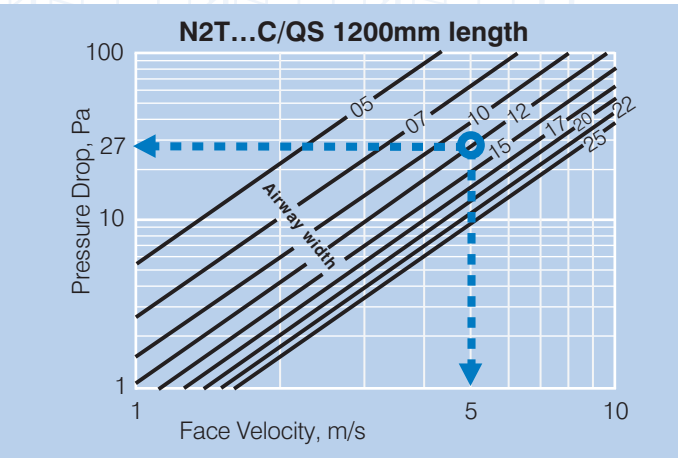
Calculate the face velocity of the attenuator selected using the known air volume of the application and chosen width and height:

$$\textit{Face Velocity (m/s)} = \frac{\textit{Air Volume } (m^3/s)}{\textit{Width (m)} \times \textit{Height (m)}}$$

Step 4: Pressure Drop Graphs

Locate the pressure drop graph which matches the length of the attenuator selection. Draw a line vertically from the calculated Face Velocity to where it intersects the chosen attenuator model. Draw a line horizontally from this point and where it intersects the vertical axis is the pressure drop for the chosen attenuator.

Example: A N2T12C attenuator with a calculated face velocity of 5m/s has been selected. The resulting pressure drop is 27Pa.



SECTIONAL SIZING AND JOINING FLANGE INFORMATION

- Flanges 35mm TDF or compatible up to a maximum height or width of 1200mm. Above these sizes 40mm or 50mm steel angle section frames used, supplied undrilled.
- Matching flanges for attaching to accompanying ductwork can also be supplied.
- Rectangular attenuators will typically be made in a single piece up to a maximum of 2250mm in width, length, or height where practical for transportation. Above this dimension attenuators will be split into multiple sections in the dimension(s) exceeding the 2250mm limit noted.
- As a special request, attenuators may be divided into smaller sized sections than standard to fit through small spaces, before they are reassembled as a single unit on site.

CUSTOMISED ATTENUATOR OPTIONS

The following are available as special options when ordering Fantech rectangular attenuators:

- Different materials of construction such as Stainless Steel Grades 304 and 316.
- Paints / protective coatings such as epoxy paint, Chlorinated Rubber etc.
- Flange material/dimensions profile can be specified (e.g. Ductmate, TDF, Plain Steel Angle).
- Access doors for easy cleaning (e.g. in Kitchen Exhaust Applications).

INSERTION LOSS

Static insertion loss values derived from tests to ISO 7235:2003 Acoustics

- Laboratory measurement procedures for ducted silencers and air-terminal units.
- Insertion loss, flow noise and total pressure loss.
- Insertion losses greater than 60dB are not reported.

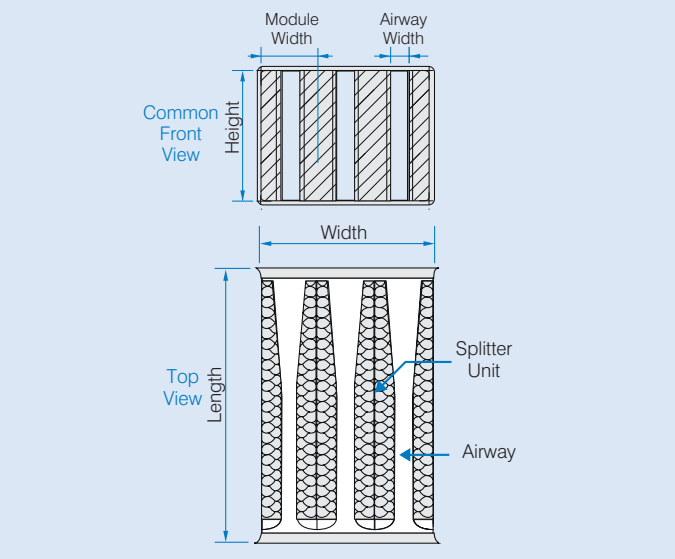
SUGGESTED SPECIFICATION

Rectangular attenuators shall be of the N2T, N2T..QS, N3T or N3T..QS Series as designed and manufactured by Fantech Pty. Ltd. and shall have the dimensions, acoustic attenuator insertion losses and pressure losses as scheduled. Acoustic Attenuator Insertion Loss data for the attenuators to be derived from tests in accordance to ISO7235:2003

The casing shall be manufactured from forming grade Z275 coated galvanised steel sheet with Pittsburgh corner seams and 200mm or 300mm thick tapered splitters. The infill material shall be bio-soluble acoustic grade glasswool or mineral wool. The infill material shall be encased in galvanised perforated sheet metal. Where attenuators are exposed to the weather, grease, liquid, or dusts they shall be of the N2T..QS or N3T..QS Series where all infill materials shall be protected with an impervious film to prevent the ingress of moisture.

The infill material when tested in accordance with AS1530.3:1999 shall have the following indices:-

Ignitability 0 Spread of flame 0 Heat evolved 0 Smoke developed 1



Note: Dimensions will vary according to your selection and be included in the "How To Order" model number.

HOW TO ORDER

MODEL
N2T - 200mm Tapered Splitter
N3T - 300mm Tapered Splitter

Airway Width Code

05 - 50mm	15 - 150mm	25 - 250mm
07 - 75mm	17 - 175mm	30 - 300mm
10 - 100mm	20 - 200mm	
12 - 125mm	22 - 225mm	

Length Code

A - 600mm	C2 - 1400mm	G - 2400mm
B - 900mm	E - 1800mm	H - 2700mm
C -1200mm	F - 2100mm	I - 3000mm

Construction
Leave blank for standard construction
QS - For Q-Seal (melinex lined)

Casing width in cm.

Casing height in cm.

TECHNICAL DATA – N2T TAPERED SPLITTER

Model No. N2T...	Length, (mm)	Static Insertion Loss, dB, Octave Band Centre Frequency (Hz) 63	125	250	500	1k	2k	4k	8k	Module Widths, mm.
05A	600	7	7	11	24	34	33	29	23	250*, 500, 750, 1000, 1250, 1500, 1750, 2000 **Free Area 20%**
05B	900	8	10	17	32	45	48	39	28	
05C	1200	9	13	23	41	57	60	49	33	
05C2	1400	10	14	28	45	60	60	56	35	
05E	1800	11	18	39	55	60	60	60	40	
05F	2100	12	24	43	60	60	60	60	44	
05G	2400	15	28	49	60	60	60	60	48	
05H	2700	15	32	55	60	60	60	60	54	
05I	3000	14	34	60	60	60	60	60	59	
07A	600	6	7	12	24	32	30	25	21	275*, 550, 825, 1100, 1375, 1650, 1925, 2200 **Free Area 27%**
07B	900	7	9	17	31	42	42	34	25	
07C	1200	8	12	22	39	53	52	42	29	
07C2	1400	9	13	27	44	58	57	47	30	
07E	1800	10	17	36	53	60	60	55	34	
07F	2100	11	21	41	60	60	60	60	37	
07G	2400	13	25	47	60	60	60	60	40	
07H	2700	13	28	52	60	60	60	60	45	
07I	3000	12	30	57	60	60	60	60	49	
10A	600	5	6	11	23	28	26	22	19	300*, 600, 900, 1200, 1500, 1800, 2100, 2400 **Free Area 33%**
10B	900	6	9	15	30	40	36	28	22	
10C	1200	6	11	19	38	51	46	33	24	
10C2	1400	6	12	23	42	57	51	36	25	
10E	1800	7	14	30	51	60	60	41	27	
10F	2100	8	17	35	59	60	60	46	28	
10G	2400	9	20	39	60	60	60	51	30	
10H	2700	11	22	43	60	60	60	55	32	
10I	3000	11	24	48	60	60	60	60	34	
12A	600	4	6	11	21	26	24	20	17	325*, 650, 975, 1300, 1625, 1950, 2275 **Free Area 38%**
12B	900	5	8	15	28	36	32	24	19	
12C	1200	5	10	19	34	47	39	27	21	
12C2	1400	6	11	22	39	49	44	29	22	
12E	1800	7	13	27	48	58	52	33	22	
12F	2100	7	15	33	54	60	59	36	23	
12G	2400	8	17	37	60	60	60	39	24	
12H	2700	9	19	41	60	60	60	43	25	
12I	3000	10	21	45	60	60	60	46	26	
15A	600	4	6	11	21	25	22	18	16	350*, 700, 1050, 1400, 1750, 2100 **Free Area 43%**
15B	900	5	8	14	27	35	28	21	18	
15C	1200	5	9	17	33	44	33	24	19	
15C2	1400	6	10	20	37	47	37	25	19	
15E	1800	6	13	25	46	56	44	27	19	
15F	2100	7	14	30	51	60	49	31	20	
15G	2400	8	16	35	57	60	55	34	20	
15H	2700	8	17	39	60	60	60	36	21	
15I	3000	9	19	42	60	60	60	39	22	
17A	600	3	5	11	19	23	20	15	14	375*, 750, 1125, 1500, 1875, 2250 **Free Area 47%**
17B	900	4	6	14	24	31	24	18	16	
17C	1200	4	8	17	29	39	29	20	17	
17C2	1400	4	9	20	34	43	32	21	17	
17E	1800	5	11	24	42	52	38	24	17	
17F	2100	5	12	29	48	59	43	26	17	
17G	2400	6	14	33	54	60	48	29	17	
17H	2700	6	15	36	59	60	52	31	18	
17I	3000	6	17	39	60	60	57	33	19	

* Single module width, mm

Insertion losses shown are based on a height of 500mm.

TECHNICAL DATA – N2T TAPERED SPLITTER

Model No. N2T...	Length, (mm)	Static Insertion Loss, dB, Octave Band Centre Frequency (Hz) 63	125	250	500	1k	2k	4k	8k	Module Widths, mm.
20A	600	3	5	11	19	22	19	14	15	
20B	900	3	6	14	24	29	23	16	16	
20C	1200	3	8	16	29	35	26	18	16	400*, 800, 1200, 1600, 2000, 2400
20C2	1400	4	9	18	33	40	29	19	16	
20E	1800	4	10	23	40	48	34	21	16	
20F	2100	5	11	27	46	55	38	23	16	Free Area 50%
20G	2400	5	13	31	51	60	41	25	16	
20H	2700	6	14	33	56	60	45	27	17	
20I	3000	6	15	36	60	60	48	28	17	
22A	600	3	4	11	18	21	18	13	14	
22B	900	3	6	13	23	27	21	15	14	
22C	1200	3	7	15	27	32	24	16	14	
22C2	1400	4	8	17	31	36	26	17	15	425*, 850, 1275, 1700, 2125
22E	1800	4	10	21	38	44	30	19	15	
22F	2100	4	11	25	43	48	33	21	15	Free Area 53%
22G	2400	4	12	29	48	53	36	23	15	
22H	2700	5	13	31	53	58	39	24	15	
22I	3000	6	14	33	58	60	42	25	15	
25A	600	3	4	9	16	20	17	13	13	
25B	900	3	6	12	21	25	19	14	14	
25C	1200	3	7	14	25	30	22	16	14	
25C2	1400	3	8	16	28	34	23	17	15	450*, 900, 1350, 1800, 2250
25E	1800	4	9	20	36	40	27	19	15	
25F	2100	4	11	23	40	44	29	20	15	Free Area 56%
25G	2400	5	12	26	45	48	32	21	15	
25H	2700	5	13	29	49	53	35	23	15	
25I	3000	5	14	31	53	58	37	23	15	

* Single module width, mm

Insertion losses shown are based on a height of 500mm.

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TECHNICAL DATA – N2T..QS TAPERED SPLITTER

Model No. N2T..QS	Length, (mm)	Static Insertion Loss, dB, Octave Band Centre Frequency (Hz) 63	125	250	500	1k	2k	4k	8k	Module Widths, mm.
05A	600	4	6	8	23	28	22	22	20	
05B	900	6	10	15	33	39	30	26	22	
05C	1200	8	12	20	41	49	38	33	26	250*, 500, 750, 1000, 1250, 1500, 1750, 2000
05C2	1400	8	13	24	43	52	41	35	27	
05E	1800	10	16	29	52	60	49	41	31	
05F	2100	11	19	38	55	60	55	43	32	
05G	2400	11	21	42	60	60	60	46	35	
05H	2700	14	25	48	60	60	60	51	37	**Free Area 20%**
05I	3000	15	30	53	60	60	60	56	40	
07A	600	4	6	9	24	27	21	20	19	
07B	900	6	9	15	32	36	28	24	21	
07C	1200	7	11	20	39	45	34	29	24	
07C2	1400	8	12	23	42	47	37	31	25	275*, 550, 825, 1100, 1375, 1650, 1925, 2200
07E	1800	9	15	28	49	56	44	36	27	
07F	2100	10	17	35	55	60	49	38	28	
07G	2400	10	19	39	60	60	55	41	30	**Free Area 27%**
07H	2700	12	23	44	60	60	60	45	32	
07I	3000	13	27	48	60	60	60	49	34	
10A	600	3	5	8	23	24	20	18	17	
10B	900	4	8	13	30	32	24	21	19	
10C	1200	5	10	18	36	39	29	24	20	300*, 600, 900, 1200, 1500, 1800, 2100, 2400
10C2	1400	5	11	21	39	42	32	25	21	
10E	1800	6	14	25	46	48	37	29	23	
10F	2100	7	15	31	50	50	42	30	24	
10G	2400	7	17	36	56	55	48	32	25	**Free Area 33%**
10H	2700	9	20	41	60	60	53	35	26	
10I	3000	10	22	45	60	60	58	39	28	
12A	600	4	5	9	22	22	19	17	15	
12B	900	4	7	13	27	28	23	19	16	
12C	1200	5	9	17	32	34	26	20	18	325*, 650, 975, 1300, 1625, 1950, 2275
12C2	1400	6	10	20	35	37	29	22	19	
12E	1800	7	13	24	42	43	33	25	20	
12F	2100	7	14	28	48	47	37	26	21	**Free Area 38%**
12G	2400	8	16	33	54	53	42	28	21	
12H	2700	8	17	37	59	58	45	30	22	
12I	3000	9	19	40	60	60	48	33	23	
15A	600	4	5	9	22	22	18	15	15	
15B	900	5	7	13	27	27	21	17	16	
15C	1200	5	9	17	31	32	24	19	17	
15C2	1400	6	10	19	34	34	26	20	18	350*, 700, 1050, 1400, 1750, 2100
15E	1800	6	12	22	39	39	29	22	17	
15F	2100	7	13	26	47	45	33	23	18	
15G	2400	7	15	30	52	51	37	25	18	**Free Area 43%**
15H	2700	7	16	34	57	56	39	27	19	
15I	3000	8	17	37	60	60	42	29	20	
17A	600	2	4	9	20	21	17	14	14	
17B	900	3	6	13	25	25	20	16	16	
17C	1200	4	8	17	29	30	22	17	17	
17C2	1400	4	9	18	32	31	24	18	17	375*, 750, 1125, 1500, 1875, 2250
17E	1800	5	10	22	36	35	28	20	16	
17F	2100	5	11	25	44	41	30	21	17	
17G	2400	5	12	29	49	46	33	23	17	**Free Area 47%**
17H	2700	6	14	32	54	49	35	24	18	
17I	3000	6	16	35	59	53	37	26	18	

* Single module width, mm

Insertion losses shown are based on a height of 500mm.

TECHNICAL DATA – N2T..QS TAPERED SPLITTER

Model No. N2T...	Length, (mm)	Static Insertion Loss, dB, Octave Band Centre Frequency (Hz) 63	125	250	500	1k	2k	4k	8k	Module Widths, mm.
20A	600	3	4	9	20	20	17	13	14	
20B	900	3	5	13	23	24	19	15	15	
20C	1200	3	7	16	27	28	21	16	16	400*, 800, 1200, 1600, 2000, 2400
20C2	1400	3	8	17	29	29	22	17	16	
20E	1800	3	10	21	33	32	26	19	16	
20F	2100	3	11	24	41	38	28	20	16	
20G	2400	3	13	28	49	43	30	22	17	Free Area 50%
20H	2700	4	14	31	54	46	32	23	17	
20I	3000	5	14	34	59	49	34	24	17	
22A	600	3	4	9	19	20	17	13	14	
22B	900	3	5	12	22	23	18	14	14	
22C	1200	3	6	15	25	25	20	15	14	
22C2	1400	4	7	16	27	27	21	16	15	425*, 850, 1275, 1700, 2125
22E	1800	4	9	19	31	30	24	18	15	
22F	2100	4	10	23	39	35	26	19	15	
22G	2400	4	12	26	47	40	28	21	16	
22H	2700	4	13	29	51	42	29	22	16	Free Area 53%
22I	3000	4	14	32	55	45	31	23	16	
25A	600	3	3	9	18	19	16	12	13	
25B	900	3	5	12	21	22	17	13	13	
25C	1200	3	7	15	24	25	19	15	14	
25C2	1400	3	8	16	25	26	20	16	14	450*, 900, 1350, 1800, 2250
25E	1800	3	9	19	28	29	22	17	14	
25F	2100	3	10	22	36	33	24	18	14	
25G	2400	4	11	25	44	36	25	19	15	Free Area 56%
25H	2700	4	12	28	48	39	27	20	15	
25I	3000	4	13	31	52	42	28	21	15	

* Single module width, mm

Insertion losses shown are based on a height of 500mm.

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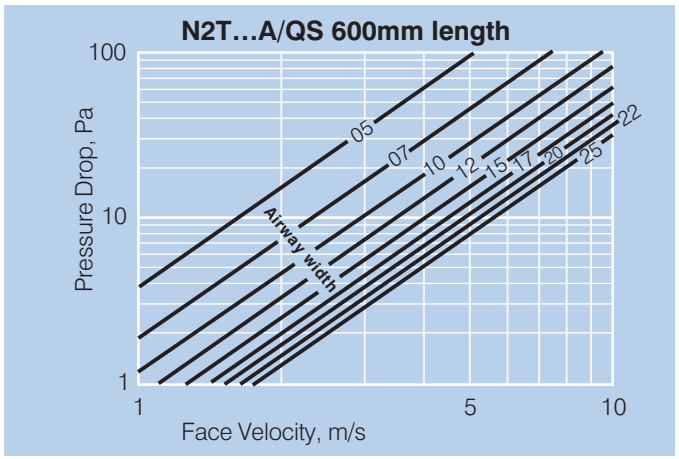
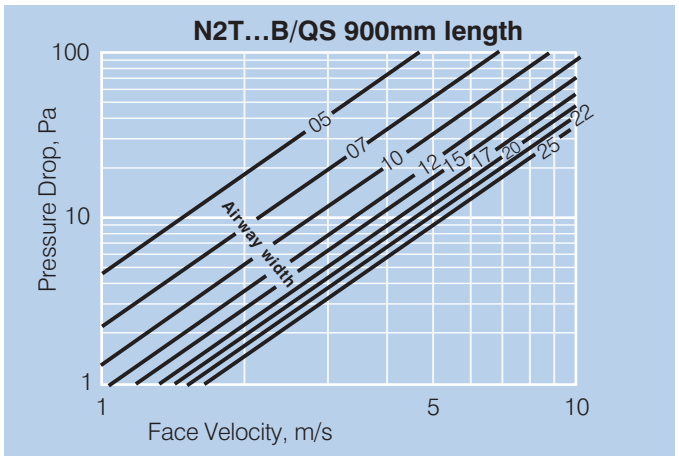
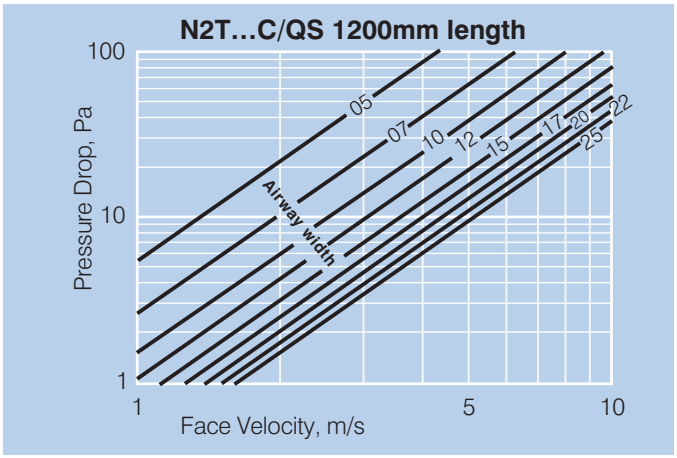
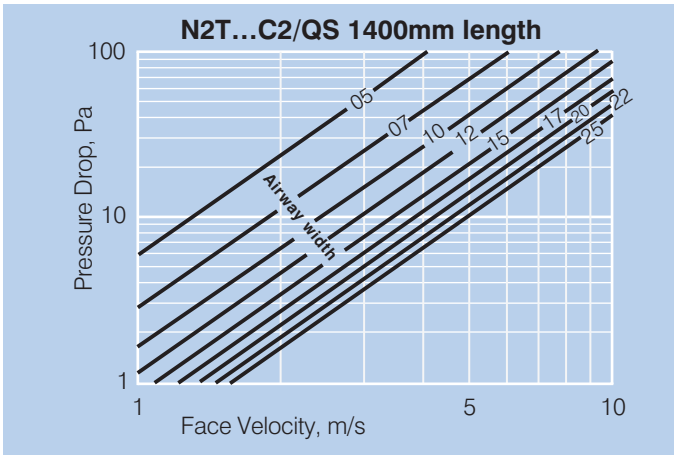
PRESSURE LOSS GRAPHS – N2T.. /QS TAPERED SPLITTER

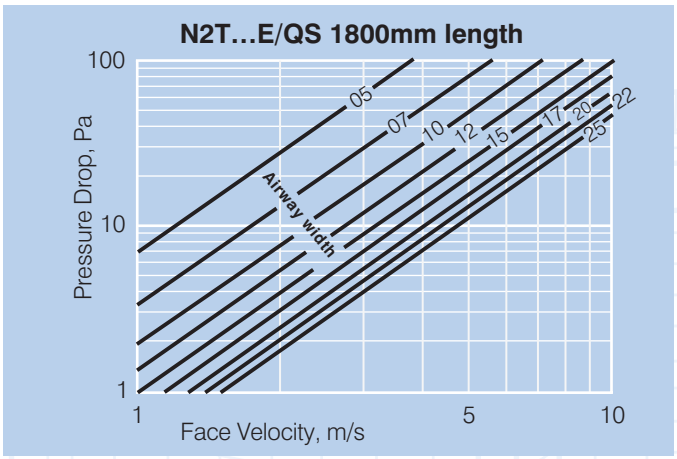


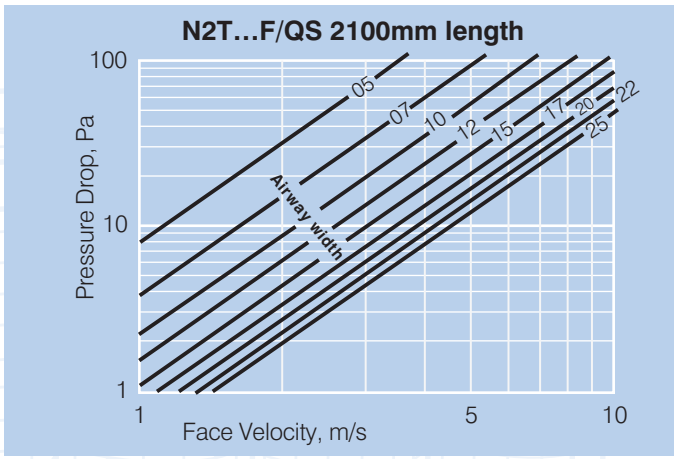


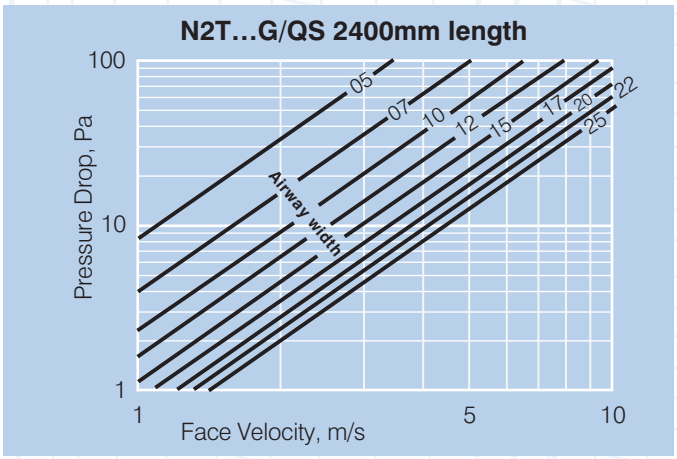
PRESSURE LOSS GRAPHS – N2T.. /QS TAPERED SPLITTER

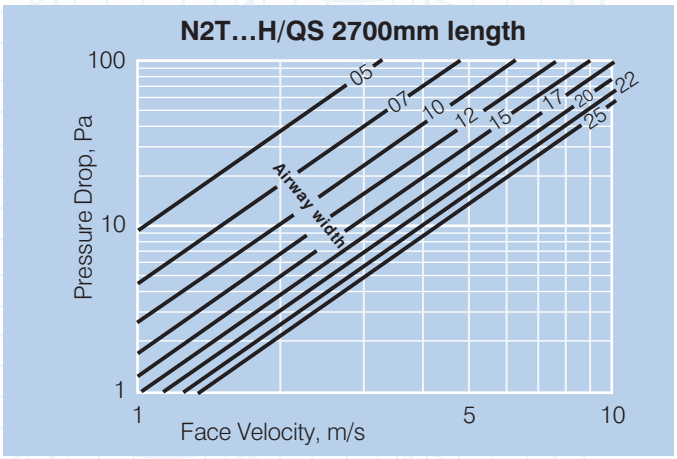


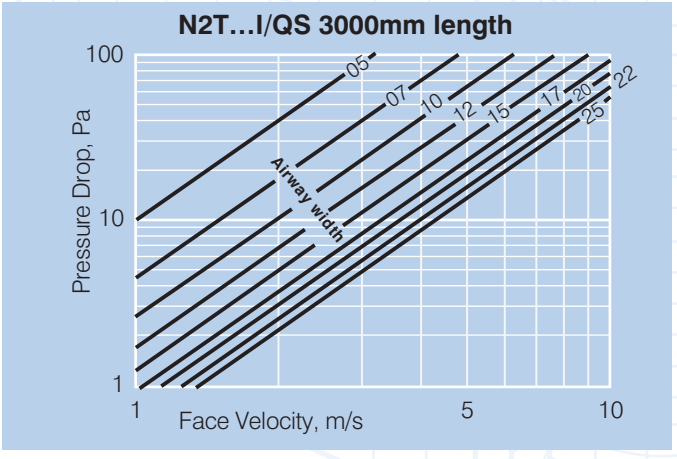












TECHNICAL DATA – N3T TAPERED SPLITTER

Model No. N3T..	Length, (mm)	Static Insertion Loss, dB, Octave Band Centre Frequency (Hz) 63	125	250	500	1k	2k	4k	8k	Module Widths, mm.
10A	600	9	9	14	28	28	26	19	18	
10B	900	9	14	19	37	41	34	24	20	
10C	1200	11	16	26	45	53	42	26	23	400*, 800, 1200, 1600, 2000
10C2	1400	12	17	28	51	55	46	31	23	
10E	1800	14	20	34	60	60	54	37	26	
10F	2100	14	25	38	60	60	60	42	28	Free Area 25%
10G	2400	16	29	45	60	60	60	47	27	
10H	2700	16	31	51	60	60	60	48	27	
10I	3000	17	35	46	60	60	60	50	26	
12A	600	8	8	15	25	27	24	19	18	
12B	900	9	12	19	33	38	31	22	19	
12C	1200	10	14	25	41	48	37	24	21	
12C2	1400	11	15	27	46	51	41	28	22	425*, 850, 1275, 1700, 2125
12E	1800	12	18	33	56	59	48	33	24	
12F	2100	13	23	36	60	60	54	37	25	Free Area 29%
12G	2400	14	26	42	60	60	60	41	25	
12H	2700	14	28	47	60	60	60	42	25	
12I	3000	15	31	47	60	60	60	44	25	
15A	600	7	8	14	24	27	22	18	18	
15B	900	8	11	18	31	36	28	21	19	
15C	1200	9	13	23	38	45	33	23	20	
15C2	1400	10	14	26	43	48	36	26	21	
15E	1800	11	17	31	52	57	42	30	22	450*, 900, 1350, 1800, 2250
15F	2100	12	20	34	59	60	47	33	23	
15G	2400	13	23	39	60	60	52	36	23	Free Area 33%
15H	2700	13	25	43	60	60	57	37	23	
15I	3000	14	27	47	60	60	60	38	23	
17A	600	7	8	14	22	26	21	17	17	
17B	900	7	10	18	29	33	25	19	18	
17C	1200	8	12	22	35	41	30	21	18	
17C2	1400	9	13	25	39	44	32	23	19	475*, 950, 1425, 1900, 2375
17E	1800	10	16	30	48	51	37	27	20	
17F	2100	11	19	33	54	58	41	29	21	
17G	2400	11	21	36	60	60	45	31	21	Free Area 37%
17H	2700	12	23	40	60	60	48	33	21	
17I	3000	13	25	44	60	60	52	34	22	
20A	600	6	8	14	22	25	19	17	16	
20B	900	7	9	17	27	31	23	18	16	
20C	1200	8	11	21	33	37	26	19	16	
20C2	1400	8	12	23	37	41	28	21	17	500*, 1000, 1500, 2000
20E	1800	9	15	28	45	49	32	24	18	
20F	2100	10	17	31	50	55	35	25	19	Free Area 40%
20G	2400	10	19	34	55	60	38	27	19	
20H	2700	11	21	37	60	60	41	28	19	
20I	3000	12	22	40	60	60	44	29	20	
22A	600	5	7	14	20	24	18	16	17	
22B	900	6	8	18	25	29	21	18	17	
22C	1200	7	10	21	30	35	24	19	17	
22C2	1400	8	11	24	34	38	26	20	18	525*, 1050, 1575, 2100
22E	1800	8	14	28	42	46	29	23	18	
22F	2100	9	15	31	46	49	32	24	18	Free Area 43%
22G	2400	10	17	33	50	54	34	25	19	
22H	2700	10	19	36	56	60	36	26	19	
22I	3000	11	20	45	60	60	39	26	19	
25A	600	4	7	14	19	23	17	16	17	
25B	900	5	8	17	24	27	20	17	17	
25C	1200	6	10	20	29	32	22	19	17	
25C2	1400	7	11	23	32	35	23	20	18	550*, 1100, 1650, 2200
25E	1800	8	13	27	40	42	26	21	18	
25F	2100	9	15	29	44	46	28	22	18	Free Area 45%
25G	2400	10	16	32	48	51	30	23	18	
25H	2700	10	18	35	52	55	32	23	18	
25I	3000	11	19	38	57	60	33	23	19	

* Single module width, mm

Insertion losses shown are based on a height of 500mm.

TECHNICAL DATA – N3T TAPERED SPLITTER

Model No. N2T...	Length, (mm)	Static Insertion Loss, dB, Octave Band Centre Frequency (Hz) 63	125	250	500	1k	2k	4k	8k	Module Widths, mm.
30A	600	3	6	14	19	21	16	15	15	
30B	900	4	7	17	23	24	18	16	15	
30C	1200	6	9	20	27	28	20	17	16	600*, 1200,
30C2	1400	6	10	22	30	31	21	18	16	1800, 2400
30E	1800	7	12	26	37	36	22	19	17	
30F	2100	7	14	28	41	40	23	19	17	
30G	2400	9	15	31	44	44	25	20	17	Free Area 50%
30H	2700	9	16	34	49	47	26	20	17	
30I	3000	10	18	36	53	49	28	20	17	

* Single module width, mm

Insertion losses shown are based on a height of 500mm.

TECHNICAL DATA – N3T..QS TAPERED SPLITTER

Model No. N3T..QS	Length, (mm)	Static Insertion Loss, dB, Octave Band Centre Frequency (Hz) 63	125	250	500	1k	2k	4k	8k	Module Widths, mm.
10A	600	8	11	14	21	22	23	18	18	
10B	900	9	12	19	25	25	24	20	21	
10C	1200	10	16	24	31	31	28	22	22	400*, 800, 1200,
10C2	1400	11	17	25	33	35	31	23	23	1600, 2000
10E	1800	12	22	28	38	43	36	30	25	
10F	2100	14	25	28	41	45	39	33	27	Free Area 25%
10G	2400	19	28	30	44	48	43	37	29	
10H	2700	18	29	36	55	54	45	36	26	
10I	3000	22	28	59	52	60	49	36	29	
12A	600	8	11	14	19	22	21	17	18	
12B	900	9	12	19	23	25	23	19	20	
12C	1200	9	15	23	28	30	27	22	21	425*, 850, 1275,
12C2	1400	11	16	24	30	33	29	23	22	1700, 2125
12E	1800	11	20	27	35	40	34	28	23	
12F	2100	13	23	28	38	42	36	30	25	Free Area 29%
12G	2400	17	25	29	40	45	39	34	26	
12H	2700	16	26	35	50	50	41	33	24	
12I	3000	19	26	52	51	60	44	33	26	
15A	600	7	10	13	18	22	20	17	18	
15B	900	8	11	17	22	25	22	19	19	
15C	1200	9	13	21	26	29	25	21	20	
15C2	1400	10	14	22	28	32	27	22	21	450*, 900, 1350,
15E	1800	11	18	25	32	37	31	26	22	1800, 2250
15F	2100	13	20	25	34	39	33	28	23	
15G	2400	16	22	26	36	41	36	31	24	Free Area 33%
15H	2700	15	24	32	46	47	38	30	23	
15I	3000	17	24	45	50	60	40	30	24	
17A	600	7	9	14	18	21	19	17	17	
17B	900	8	11	17	21	25	21	19	18	
17C	1200	9	13	21	25	29	24	20	19	475*, 950, 1425,
17C2	1400	9	14	22	27	31	26	21	19	1900, 2375
17E	1800	10	17	25	31	36	29	24	20	
17F	2100	12	19	27	34	38	32	26	21	
17G	2400	14	21	28	36	41	34	28	22	Free Area 37%
17H	2700	13	22	33	44	46	35	28	21	
17I	3000	13	23	38	48	50	36	28	20	
20A	600	6	9	14	19	21	18	16	16	
20B	900	7	11	17	22	25	21	18	17	
20C	1200	8	12	19	25	28	23	20	17	
20C2	1400	9	13	21	27	30	24	21	18	500*, 1000,
20E	1800	9	16	24	31	35	28	23	19	1500, 2000
20F	2100	11	18	27	35	38	30	24	19	
20G	2400	12	20	30	38	42	32	26	19	Free Area 40%
20H	2700	12	21	33	44	44	33	25	19	
20I	3000	12	21	36	49	47	33	25	19	

TECHNICAL DATA – N3T..QS TAPERED SPLITTER

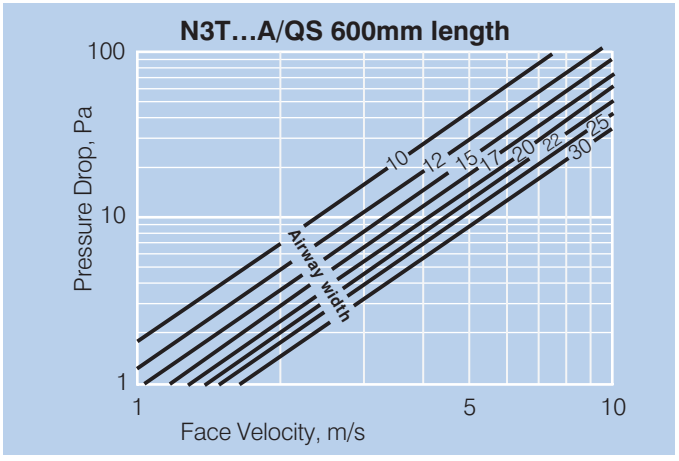
Model No.	Length,	Static Insertion Loss, dB, Octave Band Centre Frequency (Hz)								Module Widths, mm.
N3T..QS	(mm)	63	125	250	500	1k	2k	4k	8k	
22A	**600**	5	8	14	16	20	17	16	17	
22B	**900**	6	9	16	19	23	19	18	17	
22C	**1200**	8	11	19	22	26	21	19	18	
22C2	**1400**	8	12	20	24	28	22	20	18	525*, 1050, 1575, 2100
22E	**1800**	9	14	23	27	31	25	22	18	
22F	**2100**	11	16	24	29	34	27	23	19	**Free Area 43%**
22G	**2400**	12	17	26	31	36	29	24	19	
22H	**2700**	12	19	30	38	40	30	24	19	
22I	**3000**	11	19	35	45	44	30	24	19	
25A	**600**	5	8	12	15	20	17	16	17	
25B	**900**	6	9	15	18	22	18	17	17	
25C	**1200**	7	10	18	20	24	20	18	17	
25C2	**1400**	8	11	19	21	25	21	19	18	550*, 1100, 1650, 2200
25E	**1800**	9	13	21	24	28	23	20	18	
25F	**2100**	11	14	21	25	29	25	21	18	**Free Area 45%**
25G	**2400**	13	15	20	25	30	26	22	19	
25H	**2700**	12	17	27	34	36	27	22	19	
25I	**3000**	12	19	33	42	41	27	22	19	
30A	**600**	3	7	14	17	19	16	15	15	
30B	**900**	4	8	16	19	21	17	16	16	
30C	**1200**	6	10	18	21	23	18	17	16	
30C2	**1400**	7	11	19	22	24	19	18	16	600*, 1200, 1800, 2400
30E	**1800**	7	12	21	25	28	21	19	16	
30F	**2100**	9	14	23	28	31	23	19	17	**Free Area 50%**
30G	**2400**	11	15	25	30	34	24	20	17	
30H	**2700**	11	16	29	35	35	24	20	17	
30I	**3000**	12	17	32	39	37	24	20	18	

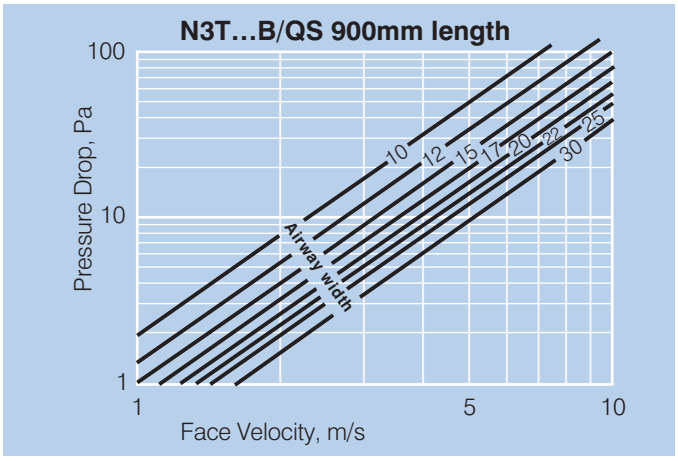
* Single module width, mm

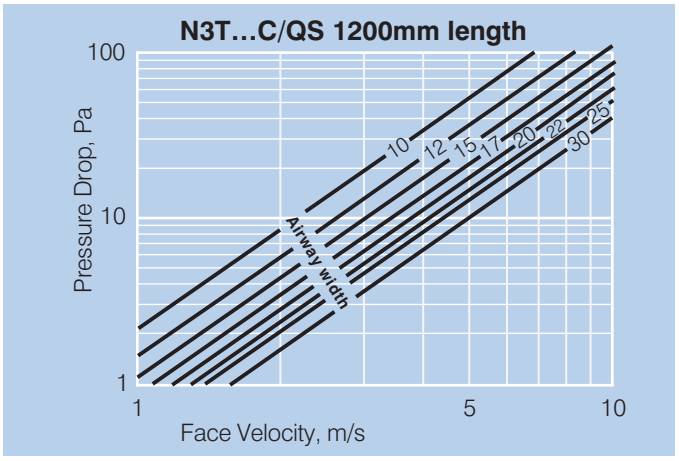
Insertion losses shown are based on a height of 500mm.

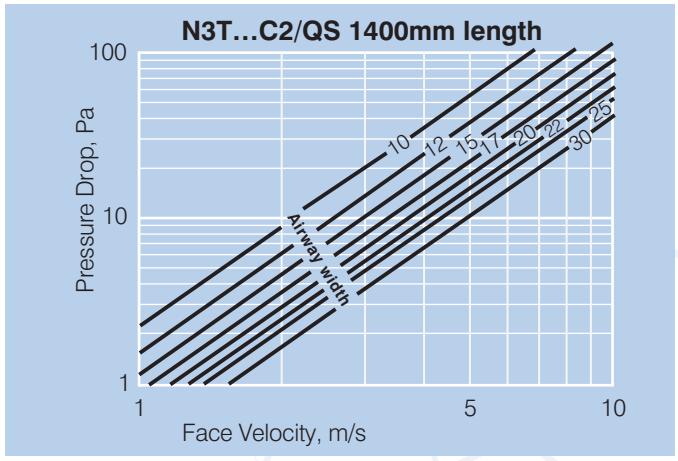
H

PRESSURE LOSS GRAPHS – N3T.. /QS TAPERED SPLITTER

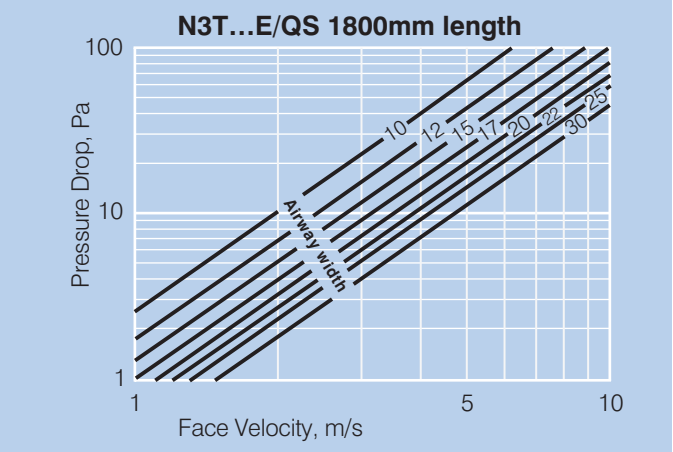


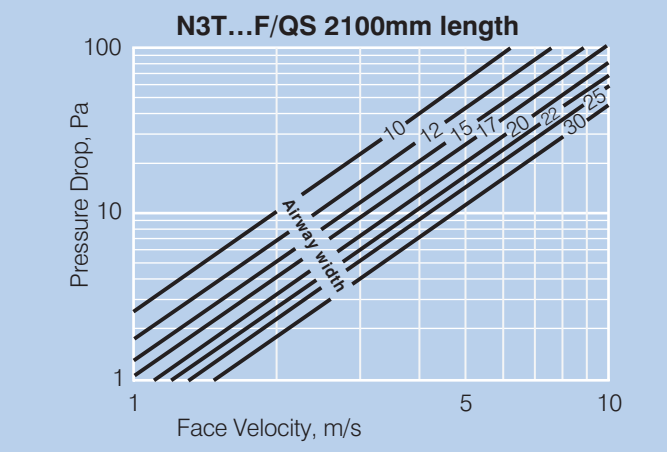


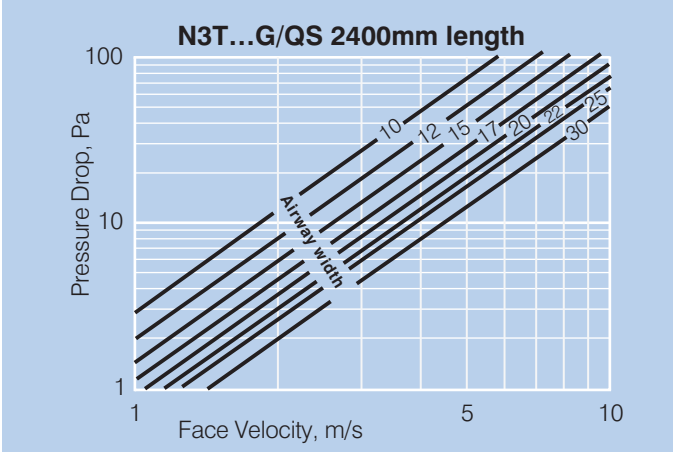


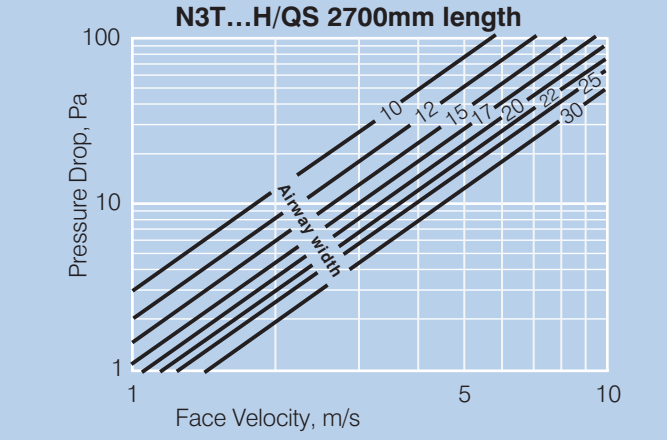


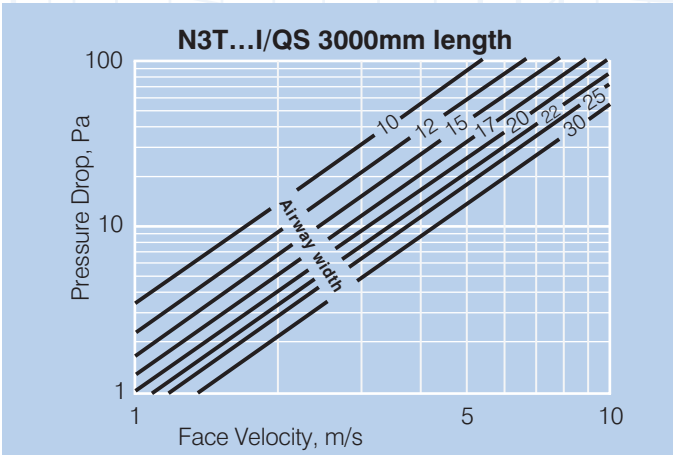
PRESSURE LOSS GRAPHS – N3T.. /QS TAPERED SPLITTER











H

HOW TO DETERMINE WEIGHT

Attenuator weights for individual models are available on the Fantech Selection Program or alternatively the following manual process can be used to attain the approximate maximum weight of each attenuator combination.

Divide the chosen attenuator width by the chosen module width to get the quantity of modules within the attenuator. Round up to the length and height row closest to the attenuator selected, and then the column with corresponding module quantity will provide the maximum weight of the selection. Interpolate for intermediate sizes as required.

N2T TAPERED SPLITTER SERIES - WEIGHTS, KG*

Length, (mm)	Height, mm	Module Quantity 1	2	3	4	5	6	7	8
600	600	22	36	49	63	76	90	103	117
	1200	38	58	79	100	121	141	162	183
	1800	53	81	109	137	165	193	221	249
	2400	69	104	139	175	210	245	280	315
1200	600	39	63	87	111	135	159	183	207
	1200	67	103	140	176	213	249	286	322
	1800	95	144	193	242	291	340	389	438
	2400	123	184	246	307	369	430	492	553
1800	600	56	91	125	160	194	228	263	297
	1200	96	148	201	253	305	357	410	462
	1800	136	206	276	346	416	487	557	627
	2400	176	264	352	440	528	616	704	791
2400	600	74	118	163	208	253	297	342	387
	1200	126	194	261	329	397	465	533	601
	1800	178	269	360	451	542	633	724	815
	2400	230	344	458	572	687	801	915	1030

N2T..Q-SEAL SERIES - WEIGHTS, KG*

Length, (mm)	Height, mm	Module Quantity 1	2	3	4	5	6	7	8
600	600	22	36	50	63	77	91	104	118
	1200	38	59	80	101	122	143	164	185
	1800	54	82	111	139	167	196	224	253
	2400	70	105	141	177	213	248	284	320
1200	600	40	64	88	112	137	161	185	209
	1200	68	105	142	179	216	253	290	327
	1800	96	146	195	245	295	345	395	445
	2400	124	186	249	312	375	437	500	563
1800	600	57	92	126	161	196	231	266	301
	1200	97	150	203	256	310	363	416	469
	1800	137	209	280	352	423	494	566	637
	2400	178	267	357	447	537	626	716	806
2400	600	74	120	165	210	256	301	346	392
	1200	127	196	265	334	403	472	542	611
	1800	179	272	365	458	551	644	737	830
	2400	232	349	465	582	698	815	932	1048

* Weights in the above tables are approximate and are based on a 450mm module width. See the Fantech Selection Program for individual models.

N3T TAPERED SPLITTER SERIES - WEIGHTS, KG*

Length, (mm)	Height, mm	Module Quantity 1	2	3	4	5	6	7	8
600	600	25	42	59	76	93	109	126	143
	1200	42	67	92	118	143	168	193	218
	1800	59	92	126	160	193	227	260	294
	2400	76	118	160	201	243	285	327	369
1200	600	45	75	105	136	166	196	226	256
	1200	75	120	165	210	255	300	345	390
	1800	105	165	225	285	344	404	464	524
	2400	136	210	285	359	434	508	583	658
1800	600	65	109	152	195	239	282	325	369
	1200	109	173	238	303	367	432	497	561
	1800	152	238	324	410	496	582	668	754
	2400	195	303	410	517	624	732	839	946
2400	600	85	142	199	255	312	368	425	482
	1200	142	226	311	395	479	564	648	733
	1800	199	311	423	535	647	759	871	984
	2400	255	395	535	675	815	955	1095	1235

N3T Q-SEAL SPLITTER SERIES - WEIGHTS, KG*

Length, (mm)	Height, mm	Module Quantity 1	2	3	4	5	6	7	8
600	600	25	42	59	76	93	110	127	144
	1200	42	68	93	119	144	170	195	221
	1800	59	93	127	161	195	229	263	297
	2400	76	119	161	204	246	289	331	374
1200	600	46	76	106	137	167	197	228	258
	1200	76	121	167	212	258	303	349	394
	1800	106	167	228	288	349	409	470	531
	2400	137	212	288	364	440	515	591	667
1800	600	66	110	153	197	241	285	328	372
	1200	110	175	241	306	372	437	503	568
	1800	153	241	328	415	502	590	677	764
	2400	197	306	415	524	633	742	851	960
2400	600	86	143	200	258	315	372	429	486
	1200	143	229	314	400	485	571	656	742
	1800	200	314	428	542	656	770	884	998
	2400	258	400	542	684	827	969	1111	1254

* Weights in the above tables are approximate and are based on a 600mm module width. See the Fantech Selection Program for individual models.