S W Hart & Co ®

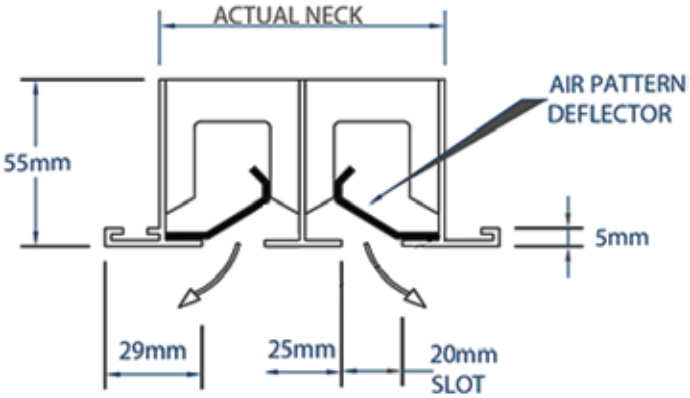
MAKE HART MODEL LH 20

Linear Slot Diffuser

Features :

- Linear Boot
- Spigot Damper in Linear Boot
- Opposed Blade Damper
- Slide Damper
- Joining "keys" for alignment of continuous sections
- Fixed Deflector

Dimension :



Accessories :

- Linear Boot
- T-Bar lay-in or surface mount diffuser
- Standard slot width 20mm
- One to eight slot standard configuration, other configurations available
- Fitted with 180° adjustable air pattern deflection
- Optional fixed air pattern deflection
- Available with mitred corner sections or curved face
- Individual max length - 2 meters
- Modularised to form continuous length
- Aluminium construction
- Standard powder coat finish in satin white
- Alternative colours are available on request
- NATA certified performance data

Installation :

- Ceiling

LH20-Standard Sizes :

20mm SLOT	Actual Neck(mm)	FACE(mm)
1 SLOT	49	77
2 SLOT	96	124
3 SLOT	142	170
4 SLOT	189	217
5 SLOT	236	264
6 SLOT	283	311
7 SLOT	329	357
8 SLOT	375	403

TEST CERTIFICATE

ACOUSTIC AND AIRFLOW PERFORMANCE TEST OF CORRECT SLOT LINEAR DIFFUSER TYPE LH 20.

LENGTH: 1200MM SLOT: 20MM X 1150MM

SUPPLIED BY: S.W. HART & CO.

TESTED BY VIPAC ENGINEERS & SCIENTISTS LTD

PROJECT SCIENTIST - DAVID WREN

SOUND POWER RESULTS

TEST CONDITIONS				SOUND POWER LEVEL, DB RE 10^{-12}W OCTAVE BAND CENTRE FREQUENCY (Hz)						
Qs (l/s)	Ps (pa)	T (m)	NR	125	250	500	1000	2000	4000	8000
25	9.0	1.8	-	<33.0	33.5	24.5	<18.0	<10.5	<12.0	<15.0
50	30.0	3.1	26	41.0	45.0	40.5	32.5	23.0	18.0	<15.0
75	63.5	4.0	34	51.0	53.5	48.5	42.5	35.5	32.5	23.5
100	103.0	5.7	44	59.0	62.5	54.0	49.5	43.5	42.5	34.5
125	146.0	>6.0	49	63.0	67.5	59.5	54.0	49.0	49.0	41.5

Qs - Air flow rate (l/s)

Ps - Static Pressure Drop (Pa)

t - Average Throw to terminal velocity of 0.5 m/s (m)

NR - Noise Rating number based on 10dB room absorption

- - Insufficient margin above background noise to allow any determination

< - Insufficient margin above background to allow an accurate determination

TEST CERTIFICATE

ACOUSTIC AND AIRFLOW PERFORMANCE TEST OF TWO SLOT LINEAR DIFFUSER TYPE LH 20.

LENGTH: 1200MM SLOT: 20MM X 1150MM

SUPPLIED BY: S.W. HART & CO.

TESTED BY VIPAC ENGINEERS & SCIENTISTS LTD

PROJECT SCIENTIST - DAVID WREN

SOUND POWER RESULTS

TEST CONDITIONS				SOUND POWER LEVEL, DB RE 10^{-12}W OCTAVE BAND CENTRE FREQUENCY (Hz)						
Qs (l/s)	Ps (pa)	T (m)	NR	125	250	500	1000	2000	4000	8000
50	10.0	2.3	19	34.5	39.5	30.0	17.5	<10.5	<12.0	<15.0
75	23.0	3.3	30	41.0	49.5	43.0	34.0	23.0	16.0	<15.0
100	41.0	4.2	36	46.0	54.0	49.5	42.5	33.5	28.5	17.0
125	62.0	5.5	40	49.5	57.5	53.5	48.5	40.5	36.5	29.5
150	90.0	>6.0	45	55.5	60.5	58.5	53.5	47.0	44.5	36.0

Qs - Air flow rate (l/s)

Ps - Static Pressure Drop (Pa)

t - Average Throw to terminal velocity of 0.5 m/s (m)

NR - Noise Rating number based on 10dB room absorption

- - Insufficient margin above background noise to allow any determination

< - Insufficient margin above background to allow an accurate determination

TEST CERTIFICATE

ACOUSTIC AND AIRFLOW PERFORMANCE TEST OF THREE SLOT LINEAR DIFFUSER TYPE LH 20.

LENGTH: 1200MM SLOT: 20MM X 1150MM

SUPPLIED BY: S.W. HART & CO.

TESTED BY VIPAC ENGINEERS & SCIENTISTS LTD

PROJECT SCIENTIST - DAVID WREN

SOUND POWER RESULTS

TEST CONDITIONS			SOUND POWER LEVEL, DB RE 10^{-12}W OCTAVE BAND CENTRE FREQUENCY (Hz)							
Qs (l/s)	Ps (pa)	T (m)	NR	125	250	500	1000	2000	4000	8000
75	8.0	2.5	17	34.5	38.0	19.5	<12.5	<12.5	<12.0	<15.0
100	16.0	3.0	25	38.5	45.5	39.5	30.5	21.5	13.5	<15.0
125	24.0	3.2	31	44.5	51.0	44.0	37.5	28.5	23.5	<15.0
150	35.5	4.2	35	48.5	55.0	49.0	43.0	36.0	32.0	21.0
175	49.0	>5.5	39	52.5	58.5	52.5	46.5	40.0	37.0	28.0
200	62.0	>5.5	42	55.5	61.0	55.5	50.5	44.5	42.5	34.0

Qs - Air flow rate (l/s)

Ps - Static Pressure Drop (Pa)

t - Average Throw to terminal velocity of 0.5 m/s (m)

NR - Noise Rating number based on 10dB room absorption

- - Insufficient margin above background noise to allow any determination

< - Insufficient margin above background to allow an accurate determination

TEST CERTIFICATE

ACOUSTIC AND AIRFLOW PERFORMANCE TEST OF FOUR SLOT LINEAR DIFFUSER TYPE LH 20.

LENGTH: 1200MM SLOT: 20MM X 1150MM

SUPPLIED BY: S.W. HART & CO.

TESTED BY VIPAC ENGINEERS & SCIENTISTS LTD

PROJECT SCIENTIST - DAVID WREN

SOUND POWER RESULTS

TEST CONDITIONS			SOUND POWER LEVEL, DB RE 10^{-12}W OCTAVE BAND CENTRE FREQUENCY (Hz)							
Qs (l/s)	Ps (pa)	T (m)	NR	125	250	500	1000	2000	4000	8000
100	12.0	2.6	21	<37.0	42.0	35.0	23.5	<12.0	<15.0	<15.0
125	17.0	3.2	26	40.0	46.5	40.0	31.0	20.5	12.0	<15.0
150	25.0	4.0	31	43.0	50.5	44.0	37.0	27.5	20.5	<15.0
200	43.5	>6.0	38	48.5	56.5	51.5	46.0	38.5	34.0	23.0
250	63.0	>6.0	42	52.5	60.5	55.5	50.5	44.0	41.0	31.5
300	89.5	>6.0	46	57.0	63.5	59.5	55.0	49.5	47.5	40.0

Qs - Air flow rate (l/s)

Ps - Static Pressure Drop (Pa)

t - Average Throw to terminal velocity of 0.5 m/s (m)

NR - Noise Rating number based on 10dB room absorption

- - Insufficient margin above background noise to allow any determination

< - Insufficient margin above background to allow an accurate determination