

## HLC-SAC SYSTEM PERFORMANCE DATA

### CENTER PANEL

CFM per sq. ft.	10	20	30	40	50	60	70	80
Ps	0.06	0.13	0.21	0.30	0.40	0.48	0.58	0.69
NC	< 20	< 20	23	26	32	34	39	42
Velocity at 6-ft (single panel)	20	35	50	65	70	80	90	100
Velocity at 6-ft (multi-panels 1)	20	35	50	70	80	90	100	110
Velocity at 6-ft (multi-panels 2)	25	40	60	80	100	110	120	130

### PERFORMANCE NOTES FOR HLC-SAC SYSTEM — CENTER PANEL

All data is tested in accordance with ANSI/ASHRAE 70-2006.

#### DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Ps Static pressure =  $P_t - P_v$  (inches of water column)

Throw vertical throw at a 50 fpm terminal velocity and temperature differential of 15°

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re:  $10^{-12}$  watts minus a 10dB room attenuation in all octave bands maximum inlet velocity of 500 fpm. NC based on center panel area of 4 square feet.

To calculate NC for other panel areas, add the result of the following equation to the NC value from table above: NC adjustment =  $10 \times \text{Log}(\text{multi-panel area} / 4)$

Multi-panels 1 - Average velocity at 6 feet for adjacent panels totaling 15 to 30 square feet

Multi-panels 2 - Average velocity at 6 feet for adjacent panels totaling more than 30 square feet

## HLC-SAC PERFORMANCE DATA

CFM per linear ft.	20	25	30	35	40	45	50	55	60
Ps	0.024	0.030	0.036	0.050	0.064	0.078	0.091	0.109	0.127
Throw (ft)	5	5	6	7	7	8	8	9	9
NC	< 15	< 15	< 15	16	17	19	21	24	27

### PERFORMANCE NOTES FOR HLC-SAC

All data is tested in accordance with ANSI/ASHRAE 70 and 113.

#### DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Ps Static pressure =  $P_t - P_v$  (inches of water column)

Throw Vertical throw at a 50 fpm terminal velocity and temperature differential of 15°

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re:  $10^{-12}$  watts minus a 10 dB room attenuation in all octave bands maximum inlet velocity of 500 fpm. NC based on center panel area of 4 square feet.

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