



**HARTZELL FAN, INC.  
SOUND INFORMATION  
SERIES 40  
SD-131**

**December 5, 2005**



Hartzell Fan, Inc. certifies that the Series 40 Fiberglass In-Line Centrifugal Fan is licensed to bear the AMCA seal for air and sound. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

## HARTZELL FAN, INC.

## SERIES 40 SOUND INFORMATION

SD-131

MODEL	# BL	SP	RPM	SOUND POWER LEVEL BY OCTAVE BAND							
				1	2	3	4	5	6	7	8
40-12FA100	9	0.5	2000	83	80	81	80	80	73	65	57
40-12FA100	9	1.0	2000	83	79	80	78	77	70	63	57
40-12FA100	9	1.5	2000	84	80	80	77	73	68	62	58
40-12FA100	9	1.0	3000	94	90	89	91	88	88	79	71
40-12FA100	9	2.5	3000	95	91	88	89	85	82	75	69
40-12FA100	9	4.0	3000	94	90	88	88	84	79	74	69
40-12FA100	9	2.0	4000	100	98	95	97	95	95	88	80
40-12FA100	9	4.0	4000	101	98	94	95	93	92	85	78
40-12FA100	9	6.0	4000	101	99	95	95	92	88	83	78
40-12FA-66	9	0.5	2000	84	79	80	76	78	73	64	55
40-12FA-66	9	1.0	2000	82	78	77	75	73	68	63	59
40-12FA-66	9	1.5	2000	82	78	77	75	71	67	64	60
40-12FA-66	9	1.0	3000	93	91	88	89	85	87	79	69
40-12FA-66	9	2.5	3000	93	89	86	86	83	80	74	70
40-12FA-66	9	4.0	3000	92	89	86	86	82	78	75	71
40-12FA-66	9	2.0	4000	100	99	94	95	91	93	88	79
40-12FA-66	9	4.0	4000	99	98	93	92	90	89	83	78
40-12FA-66	9	6.0	4000	99	97	93	92	90	87	82	79
40-15FA100	10	0.5	2000	88	87	86	87	87	82	72	68
40-15FA100	10	1.5	2000	88	86	86	87	86	81	72	69
40-15FA100	10	2.5	2000	90	86	85	84	81	76	71	69
40-15FA100	10	1.0	2500	93	92	91	92	91	92	79	75
40-15FA100	10	2.5	2500	94	91	90	92	91	90	77	74
40-15FA100	10	4.0	2500	96	92	90	90	87	82	77	75
40-15FA100	10	2.0	3000	97	96	95	96	95	96	85	80
40-15FA100	10	4.0	3000	98	96	94	95	94	94	84	79
40-15FA100	10	6.0	3000	101	97	94	94	92	87	82	79
40-15FA-66	10	0.5	2000	88	86	85	85	87	82	72	70
40-15FA-66	10	1.5	2000	88	85	85	84	83	78	71	69
40-15FA-66	10	2.5	2000	90	86	84	82	78	74	71	69
40-15FA-66	10	1.0	2500	94	91	90	90	90	92	77	75
40-15FA-66	10	2.5	2500	94	90	90	90	88	85	76	74
40-15FA-66	10	4.0	2500	96	92	90	89	84	80	76	74
40-15FA-66	10	2.0	3000	98	95	94	93	93	95	83	79
40-15FA-66	10	4.0	3000	98	95	94	93	92	89	82	79
40-15FA-66	10	6.0	3000	101	98	94	92	89	85	81	79
40-22FA100	11	0.5	1000	84	83	81	80	83	69	61	53
40-22FA100	11	1.0	1000	84	82	80	77	76	67	60	52
40-22FA100	11	1.5	1000	84	80	78	74	71	65	59	52
40-22FA100	11	1.0	1500	94	93	93	89	90	87	74	66
40-22FA100	11	2.0	1500	93	92	92	88	86	83	73	66
40-22FA100	11	3.0	1500	93	91	90	86	83	79	72	65
40-22FA100	11	2.0	2000	101	99	98	96	95	98	84	76
40-22FA100	11	4.0	2000	100	99	97	95	92	91	82	75
40-22FA100	11	6.0	2000	100	99	95	93	89	86	80	74
40-22FA-66	11	0.5	1000	83	80	77	75	82	66	61	57
40-22FA-66	11	1.0	1000	82	79	76	72	74	64	61	58
40-22FA-66	11	1.5	1000	84	79	76	72	66	62	60	59
40-22FA-66	11	1.0	1500	90	91	90	85	87	85	72	68
40-22FA-66	11	2.0	1500	90	90	89	83	82	80	71	68
40-22FA-66	11	3.0	1500	91	91	89	83	79	75	70	68
40-22FA-66	11	2.0	2000	95	98	95	92	90	97	81	76
40-22FA-66	11	4.0	2000	96	97	94	91	87	89	79	76
40-22FA-66	11	6.0	2000	97	99	94	91	87	81	77	75

THE SOUND POWER LEVEL RATINGS SHOWN ARE IN DECIBELS, REFERRED TO  $10^{-12}$  WATTS, CALCULATED PER AMCA STANDARD 301. VALUES SHOWN ARE FOR OUTLET (LW<sub>o</sub>) SOUND POWER LEVELS FOR INSTALLATION TYPE B: FREE INLET, DUCTED OUTLET. RATINGS INCLUDE THE EFFECTS OF DUCT END CORRECTION.

MODEL	# BL	SP	RPM	SOUND POWER LEVEL BY OCTAVE BAND							
				1	2	3	4	5	6	7	8
40-27FA100	11	0.5	1000	92	92	90	94	90	76	68	60
40-27FA100	11	1.5	1000	91	90	89	91	85	73	67	59
40-27FA100	11	2.5	1000	89	89	87	83	78	72	66	58
40-27FA100	11	1.0	1400	100	99	98	96	107	88	79	71
40-27FA100	11	2.5	1400	98	99	97	97	103	85	78	70
40-27FA100	11	4.0	1400	97	98	95	93	90	82	77	70
40-27FA100	11	2.0	1800	104	105	104	102	108	100	87	79
40-27FA100	11	4.0	1800	103	104	103	102	106	97	86	79
40-27FA100	11	6.0	1800	101	103	102	100	99	92	85	78
40-27FA-66	11	0.5	1000	87	88	87	91	87	75	64	56
40-27FA-66	11	1.0	1000	87	88	86	88	82	72	63	55
40-27FA-66	11	2.0	1000	87	86	85	81	76	70	63	55
40-27FA-66	11	1.0	1400	95	94	97	93	99	89	76	67
40-27FA-66	11	2.5	1400	97	94	95	92	93	82	75	66
40-27FA-66	11	4.0	1400	97	93	94	90	86	80	74	66
40-27FA-66	11	2.0	1800	100	100	101	99	104	98	85	75
40-27FA-66	11	4.0	1800	102	100	100	97	100	91	83	75
40-27FA-66	11	6.0	1800	103	99	99	97	95	88	82	75
40-33FA100	11	0.5	900	90	90	92	94	97	83	75	70
40-33FA100	11	1.5	900	88	90	91	90	89	82	75	70
40-33FA100	11	2.5	900	87	88	89	87	86	82	75	70
40-33FA100	11	1.5	1200	95	96	98	97	102	93	84	78
40-33FA100	11	2.5	1200	94	95	98	96	98	92	83	78
40-33FA100	11	3.5	1200	93	94	97	95	94	91	84	79
40-33FA100	11	2.0	1500	99	100	102	102	106	102	91	85
40-33FA100	11	4.0	1500	98	100	102	102	102	99	91	85
40-33FA100	11	6.0	1500	97	98	100	100	99	97	91	85
40-33FA-66	11	0.5	900	84	90	89	87	88	80	70	63
40-33FA-66	11	1.5	900	83	89	88	85	84	77	69	63
40-33FA-66	11	2.5	900	83	86	85	82	80	75	69	64
40-33FA-66	11	1.5	1200	88	93	97	93	93	91	78	72
40-33FA-66	11	2.5	1200	88	93	96	92	91	88	78	72
40-33FA-66	11	3.5	1200	88	92	95	91	88	85	77	72
40-33FA-66	11	2.0	1500	92	96	102	98	98	99	86	79
40-33FA-66	11	4.0	1500	91	96	101	97	96	95	85	79
40-33FA-66	11	6.0	1500	91	95	99	96	93	92	84	79
40-40FA100	11	0.5	800	93	94	95	100	98	85	78	73
40-40FA100	11	1.5	800	92	94	94	95	93	84	77	73
40-40FA100	11	2.5	800	91	93	93	91	89	84	78	74
40-40FA100	11	1.5	1000	97	98	100	100	104	92	84	79
40-40FA100	11	2.5	1000	97	97	100	98	100	92	84	79
40-40FA100	11	3.5	1000	96	97	99	97	96	92	84	80
40-40FA100	11	2.0	1200	101	102	104	103	109	99	90	84
40-40FA100	11	4.0	1200	100	101	104	102	103	98	89	84
40-40FA100	11	6.0	1200	99	100	102	100	99	97	89	85
40-40FA-66	11	0.5	800	88	95	92	91	92	81	72	66
40-40FA-66	11	1.5	800	88	94	90	90	88	79	72	66
40-40FA-66	11	2.5	800	87	91	89	86	84	77	72	66
40-40FA-66	11	1.5	1000	91	97	98	95	95	89	79	72
40-40FA-66	11	2.5	1000	91	96	97	94	93	87	78	72
40-40FA-66	11	3.5	1000	91	95	96	92	90	85	78	73
40-40FA-66	11	2.0	1200	94	99	103	99	99	97	85	78
40-40FA-66	11	4.0	1200	94	98	102	98	97	93	84	78
40-40FA-66	11	6.0	1200	94	97	99	96	94	91	83	78

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MODEL	# BL	SP	RPM	SOUND POWER LEVEL BY OCTAVE BAND							
				1	2	3	4	5	6	7	8
40-49FA100	11	0.5	600	93	95	94	103	91	81	75	70
40-49FA100	11	1.5	600	92	95	93	94	89	80	75	71
40-49FA100	11	2.5	600	90	92	91	90	88	80	75	71
40-49FA100	11	1.0	750	97	99	99	103	99	88	82	77
40-49FA100	11	2.5	750	96	98	98	98	95	88	82	77
40-49FA100	11	4.0	750	95	96	96	95	93	88	81	77
40-49FA100	11	2.0	900	101	102	103	104	105	94	87	82
40-49FA100	11	4.0	900	100	101	103	101	100	94	87	83
40-49FA100	11	6.0	900	99	100	100	99	98	94	87	82
40-49FA-66	11	0.5	600	90	95	90	91	89	76	69	63
40-49FA-66	11	1.5	600	89	93	88	88	84	75	69	63
40-49FA-66	11	2.5	600	88	89	86	84	82	74	69	64
40-49FA-66	11	1.0	750	93	99	95	95	96	84	76	70
40-49FA-66	11	2.5	750	92	98	94	92	91	82	76	70
40-49FA-66	11	4.0	750	92	94	92	89	88	81	76	71
40-49FA-66	11	2.0	900	96	101	100	99	99	91	82	75
40-49FA-66	11	4.0	900	95	100	99	96	94	88	81	75
40-49FA-66	11	6.0	900	95	98	97	94	92	87	81	76
40-60FA100	11	1.0	600	99	101	100	107	96	87	81	76
40-60FA100	11	2.0	600	98	101	99	102	95	87	81	77
40-60FA100	11	3.0	600	97	100	98	97	94	87	82	78
40-60FA100	11	1.0	700	102	104	104	111	104	92	86	81
40-60FA100	11	2.5	700	101	104	103	105	100	92	86	81
40-60FA100	11	4.0	700	100	103	102	101	98	92	86	82
40-60FA100	11	2.0	800	105	106	107	109	107	97	90	85
40-60FA100	11	4.0	800	104	106	106	106	104	96	90	85
40-60FA100	11	6.0	800	103	104	105	103	101	96	90	85
40-60FA-66	11	1.0	600	96	100	96	97	94	82	75	69
40-60FA-66	11	2.0	600	96	100	95	95	91	81	75	69
40-60FA-66	11	3.0	600	95	98	93	91	88	80	75	70
40-60FA-66	11	1.0	700	98	105	100	100	101	87	80	74
40-60FA-66	11	2.5	700	98	104	99	99	97	86	80	74
40-60FA-66	11	4.0	700	97	102	97	95	93	85	80	74
40-60FA-66	11	2.0	800	100	106	103	103	103	92	84	78
40-60FA-66	11	4.0	800	100	105	102	101	99	90	84	78
40-60FA-66	11	6.0	800	99	102	100	98	96	89	84	79

THE SOUND POWER LEVEL RATINGS SHOWN ARE IN DECIBELS, REFERRED TO  $10^{-12}$  WATTS, CALCULATED PER AMCA STANDARD 301. VALUES SHOWN ARE FOR OUTLET (LW<sub>o</sub>) SOUND POWER LEVELS FOR INSTALLATION TYPE B: FREE INLET, DUCTED OUTLET. RATINGS INCLUDE THE EFFECTS OF DUCT END CORRECTION.