

Omni Directional, Dual Tone Wide Area Warning System

*EFFECTIVE OUTDOOR COVERAGE RADIUS OF UP TO 3.5 KILOMETERS



- Fully enclosed and heated air horn for corrosion and weather protection.
- Dual tone, 311 Hz / 370 Hz (other frequencies available).
- Combination valve set up allows for signaling of all 8 horns at once either manually or electrically controlled.
- Solenoid valve comes standard with explosion proof coil and are available in 120VAC, 240VAC/50-60Hz or 12, 24, 48VDC
- Dual Heaters supplied with thermostat preset to turn on at 4°C[40°F] and off at 16°C[60°F], 300 Watts total, 120VAC
- Horns constructed of cast aluminum with stainless steel hardware
- Frame and side panels constructed from mild steel.

* Signal will produce a sound pressure level of approximately 70 dB @ 3.5 km in calm, cool conditions without topographical interference. Signal strength at distance can vary dramatically depending on environmental and geographical conditions. Please consult factory for more detailed information.

Operating Medium: Control:	Air, nitrogen, CO ₂ - 1-1/4" NPT Air Inlet Manual, and Solenoid Combination valve
SPL (Loudness): Air Consumption:	141 ± 1 dBA on total @ 1 meter 91 L/sec [192 SCFM] @ 7 bar [100 PSIG]
Audibility: Fundamental Frequency: Tone (Musical Note):	3.5 km in still air 311 Hz / 370 Hz ± 20 Hz E ^b [E-flat] / F ₄ sharp
Operating Pressure: Operating Temperature:	2 – 10 bar [30 – 150 PSI] -40°C to +85°C [-40°F to +185°F]
Finish: Degree of Protection:	Painted red (alkyd enamel) IP 56
Basic Dimension: Net Weight:	1086x1086x1600mm [42.75x42.75x63"] 109 kg [240 lbs]

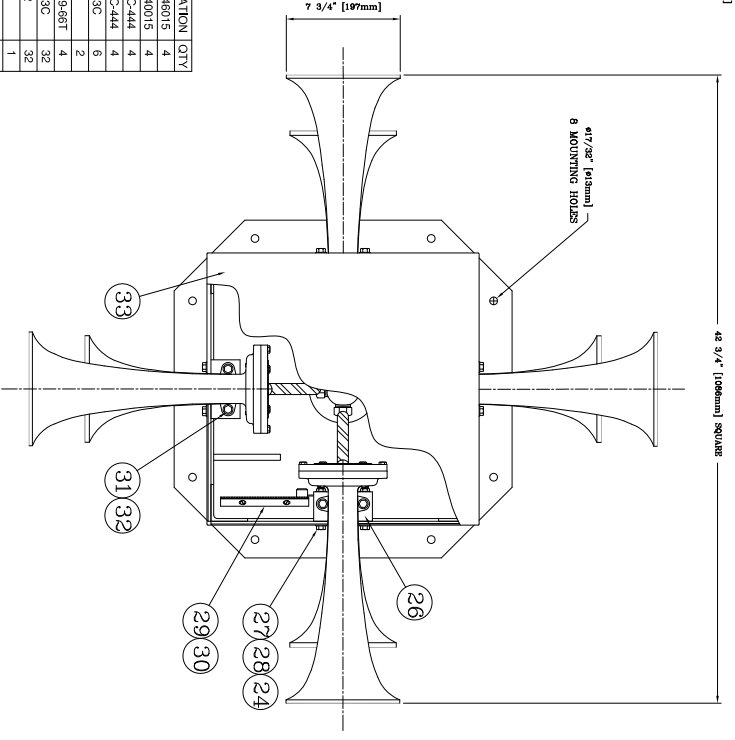
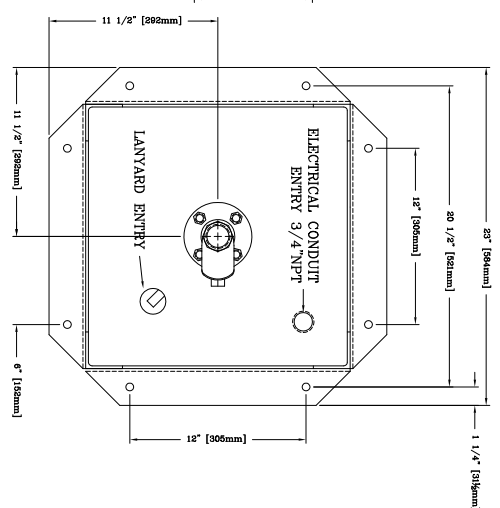
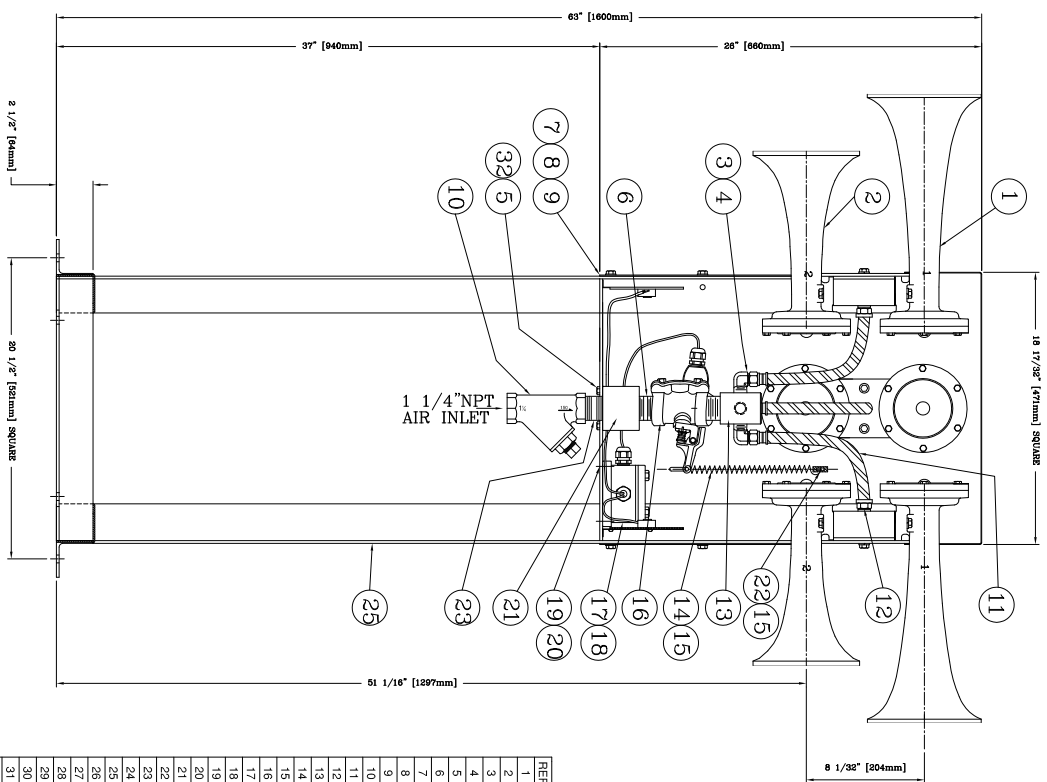
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REF	PART	DESCRIPTION	MATERIAL	SPECIFICATION	QTY
1	30101-AP	KS-1 AIR HORN, 3111 Hz, W.O. BASE	ASSEMBLY	DWG NO. 46015	4
2	30102-AP	KS-2 AIR HORN, 370 Hz, W.O. BASE	ASSEMBLY	DWG NO. 40015	4
3	18286	1/2" TUBE ADAPTOR	BRASS	ASME OSC-444	4
4	18290	MALE ELBOW 1/2" TUBE TO 1/2" PIPE	BRASS	ASME OSC-444	4
5	40023	HEX HEAD CAP SCREW, 3/8" x 1.6, 3/4"	STAINLESS STEEL	ASTM F593C	6
6	W002-040SS	PIPE NIPPLE, 1-1/4" NPT x 2-1/2"	STAINLESS STEEL	ANSI B2.1	2
7	13250	SIDE PANEL, 8 BELLS	MILD STEEL	ASTM F568-66T	2
8	13256	HEX HEAD CAP SCREW, 5/16-18x1 1/2"	STAINLESS STEEL	ASTM F593C	32
9	13244	FLAT WASHER, 5/16"	STAINLESS STEEL	ASA B27.2	32
10	10294	STRAINER, 1/4" NPT	ASSEMBLY	ASTM B82	1
11	18280	HOSE, 300 PSIG OPERATING PRESS.	NEOPRENE RUBBER	COMMERCIAL	4
12	40297	1/2" NPT MALE TO PUSH ON	BRASS	ASME OSC-444	4
13	19610	HOSE CONNECTOR MANFOLD	STAINLESS STEEL	ASTM F594	1
14	13220	SPRING	STAINLESS STEEL	ASTM A311	2
15	13229	SHACKLE	GALVANIZED STEEL	COMMERCIAL	2
16	10980	COMBINATION VALVE	ASSEMBLY	DWG NO. 10976	1
17	19401	JUNCTION BOX	ASSEMBLY	DWG NO. 19401	1
18	18106	BASE GASKET	TN9000	ASTM F104	1
19	W009-008SS	HEX HEAD CAP SCREW, 1/4-20x1 1/4"	STAINLESS STEEL	ASTM F593C	4
20	W095-008SS	HEX LOCK NUT, 1/4-20 (NOT SHOWN)	STAINLESS STEEL	ASTM F94	4
21	13190	MOUNTING FLANGE, 1-1/4" NPT	ALUMINUM	ASTM B209	1
22	13203	BRACKET ALUMINUM	ALUMINUM	ASTM B209	1
23	13221	PIPE NIPPLE, 1-1/4" NPT x 3"	STAINLESS STEEL	ANSI B2.1	1
24	86223	LOCK NUT, 3/8-16	S.S. STEEL, NYLON	ASTM F593-41	8
25	13622	MOUNTING STAND FOR 8 BELLS	MILD STEEL	ASTM A569-66T	1
26	19613	MANIFOLD BLOCK	ALUMINUM	ASTM B209	4
27	86225	FLAT WASHER, 3/8"	STAINLESS STEEL	ASA B27.2	16
28	13257	HEX HEAD BOLT, 3/8-16x3	STAINLESS STEEL	ASTM A593C	8
29	18121	FLEXIBLE HEATER, 150W, 120VAC	ASSEMBLY	DWG NO. 18121	4
30	65099	PAN HEAD CAP SCREW, 10-24x3.8	STAINLESS STEEL	ANSI B18.6.3	2
31	86224	HEX HEAD CAP SCREW, 3/8-16x1 1/4"	STAINLESS STEEL	ASTM F593C	16
32	30122	HELICAL LOCK WASHER, 3/8"	STAINLESS STEEL	ASME B18.21.1	22
33	13241	COVER FOR 8 BELL STRUCTURE	MILD STEEL	ASTM A569-66T	1

Horn Fundamental Frequency: 3111/370 Hz ± 4%
 Sound Pressure Level (Loudness) measured at 1 meter:
 144 ± 10dB(A) and dB(C) on All Pass (Total)
 while blowing with 100 PSIG (7 Bars) pressure at the base,
 with Air Consumption of 184 SCFM (86 L/Sec).
 Effective Audibility Range: 70 db at approximately 4 km
 in calm, cool conditions, unobstructed path.
 Operating Pressure Range: 45-175 PSIG (3-12 Bars)
 Operating Temperature Range: -40°F (-40°C) to 175°F (80°C)
 Ingress of Protection: IP 66

TWO HEATERS 150W EACH, 120VAC, THERMOSTATICALLY CONTROLLED 40-55°F
 1 1/4" NPT COMBINATION SOLENOID AND MANUAL VALVE, 120VAC/1PH/60HZ

SEE DRAWING No. 30287-W FOR WIRING DIAGRAM

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Kahlenberg
TWO RIVERS, WISCONSIN 54241

MODEL K4-12-EN
ASSEMBLY AND DIMENSIONS

REV.	BY	DATE	DESCRIPTION	APP'D.
A	ZN	03/13/12	UPDATED PART NUMBERS	EMK

DR.	DATE	OKD.	SCALE	DRWG. NO.	REV.
ZIN	05/25/11	EMK	N.T.S.	30287	A

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