AP Loudspeakers series

Protection mode:

Type of protection:	2GD M2EEx d IIC EEx d I
Class of temperature:	T6 T5
Protection degree:	IP65/66
Ambient Temp :	-20℃/+40℃ (+60℃ on req.)
Zones :	1-2-21-22

Description:

The loudspeakers series AP are produced with a cylindrical body and two different types of lid: flat or dome-shaped. In both cases the ABS horn is mechanically fitted on the end of the body. They come in two different sizes: the smallest (AP 6) can hold a magnetodynamic unit of 6W – 8Ω without a transformer while the biggest (AP 9/C) can hold a unit with a 100V transformer for a max. 60W power.

Standards
CENELEC EN50014/18 ; EN50281-1-1 ; EN60529

Threading and inlets:
The single inlet placed on the housing is GK ¾" UNI 6125.

Materials and treatments:
-Cast iron UNI/ISO 185 Q200 (G20 UNI 5007);
-other materials available: INOX AISI 304/316, aluminium alloy G Al Si 13 UNI 4514.
-Electrolytic zinc plating procedure.
-External nitro painting RAL 9006 or RAL 7034;
-(other types of painting such as: anti condensate or epoxidic and other colours are available on request).

Technical data:

Model	HD35	HD60	HD35T	HD60T
Speakers	Driver	Driver	Driver	Driver
Rated Power Low Impedance	35W / 16Ω	60W / 16Ω	–	–
Power Taps at 100V	–	–	35 / 20 / 10W	60 / 40 / 20W
SPL (1W/1m)	110dB with diffusion cone	112dB with diffusion cone	112dB with diffusion cone	115dB with diffusion cone
Max SPL (Rated W/1m)	125dB	130dB	127dB	133dB
Frequency Range (-10dB)	150Hz – 6Khz	150Hz – 6Khz	200Hz – 6Khz	200Hz – 6Khz

SPL calculation at different powers

FORMULE => SPL = x + 10 * log y – z

x = SPL (1W/1m) ; y = Power in Watt ; z = 5dB due to sintered filter ;

Example at 10W for HD35T unit:

SPL = 112dB + 10 * log10W – 5dB => SPL = 117dB

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