



# RES 180 FVH

Standard Series

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## Features



- Glass fiber membrane
- Aluminium former
- Extended smooth response
- Rubber surround
- Long-excursion voice coil
- Vented-pole system
- Symmetrical field circuit
- Competition-grade driver

## Primary Applications

Technical characteristics	Symbol	Value	Unit
Overall diameter	Ø	165	mm
Cutout diameter	Ø	146	mm
Depth	↔	75	mm
Nominal impedance	Z	4	Ω
Nominal power handling	P	120	W
Sensitivity	E	91	dB
Mass of speaker	m	2	kg

## Voice Coil

Technical characteristics	Symbol	Value	Unit
Voice coil diameter	Ø	37	mm
Minimum impedance	Z min	3.85	Ω
DC resistance	Re	3.5	Ω
Voice coil inductance	Lbm	0.5	mH
Voice coil height	H	14	mm
Former	-	Al	-
Number of layers	n	2	-

## Magnet

Technical characteristics	Symbol	Value	Unit
Magnet dimensions	Ø x h	120 x 17	mm
Magnet weight	m	0.7	kg
Flux density	B	1.3	T
Force factor	Bl	6.4	NA <sup>-1</sup>
Height of magnetic gap	He	6	mm
Linear excursion	X max	4	mm

## Parameters

Technical characteristics	Symbol	Value	Unit
Resonance frequency	Fs	40	Hz

Suspension compliance	Cms	0.95	mmN <sup>-1</sup>
Mechanical Q factor	Qms	1.7	-
Electrical Q factor	Qes	0.36	-
Total Q factor	Qts	0.3	-
Moving mass	Mms	$1.7 \cdot 10^{-2}$	Kg
Effective piston area	Sd	$1.35 \cdot 10^{-2}$	m <sup>2</sup>
Volume equivalent of air @ Cas	Vas	$2.3 \cdot 10^{-2}$	m <sup>3</sup>

#### Suggested Application

Technical characteristics	Symbol	Value	Unit
Box volume	Vb	9-15	l
	Rv	0.5	Ω
Box frequency	Fb	57-50	Hz
-3 dB frequency	F3	61-50	Hz
Vent length	Lp	125-90	mm
Vent diameter	Dp	50-50	mm

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