# D N H Loudspeakers





< Makes the world sound >



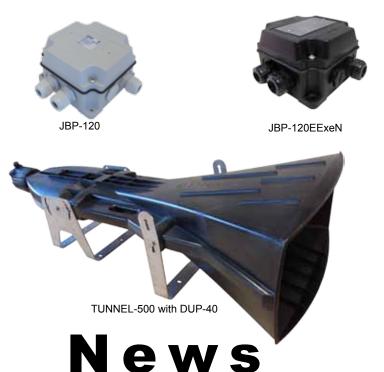
# "The original



"MORE THAN 69 SOUND YEARS"

# DNH Design"







P-3x2P-54



MC-50

# DNH designs and manufactures one of the world's largest range of loudspeakers.

Since the company was established in 1946, DNH is renowned as a supplier of high quality products.

All DNH products are engineered and designed in Norway, and almost 90% are exported around the world.

In addition to the strong niche products such as flameproof, weatherproof, vandal-proof and shockproof speakers, DNH is known for its ability to tailor products according to the customers demands.

Due to the fact that DNH manufactures almost all the components of the speaker, "non-standard" requirements such as special colour, special transformers and different cable entries can be supplied.

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# Miniature Horn Loudspeakers

DNH proudly presents this exciting range of high quality plastic horn loudspeakers. The HP series can be installed in all manner of harsh environments, both internal and external for public address and intercom uses.

Their frequency range and high sensitivity, combined with high corrosion resistance and pleasing design make the products stand out in terms of quality and performance.

Excellent for PA and alarm systems on ferries, railways, airports and industrial installations.





HP-6C

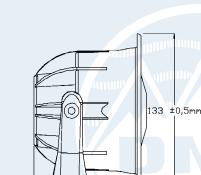




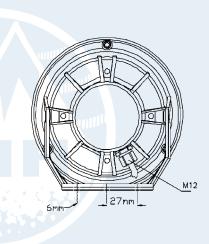
HP-8







94.5 ±0,5mm



Model	HP-6	HP-6C	HPS-6	HP-8	A-45	H-44
Material/Colour	PA/RAL 7035	PA/RAL 7035	PA/RAL 7035	PA/RAL 7035	Alu/PA/RAL 7035	Alu/PA/RAL 7035
Rated/max power, Watt	6W/ 15W	6W/ 15W	6W/ 15W	8W/ 15W	6W/10W	6W/10W
SPL/1W/1m	100 dB	100 dB	100 dB	101 dB	101 dB	101 dB
Effective freq.range, Hz	300-20000 Hz	300-20000 Hz	300-20000 Hz	300-20000Hz	300-20000Hz	300-20000Hz
Dimensions, mm	Ø97x85	Ø97x132	121x121x118	Ø133x95,5	121x121x70	Ø120x70
IP Rating	67	67	67	67	67	67

## "The Sound Ambassador"



#### Plastic Horn, References:

- Channel Tunnel Link, UK & France
- Nat West Tower Refurbishment Project in London
- Opel/Vauxhall plants in UK, Spain, Germany and Austria
- Bahia Plant, Brazil
- Munich Airport in Germany
- Carnival Cruise Line
- Royal Caribbean Cruise Line
- Holland American Line
- United Metallurgical Company, Russia
- Federal State Unitary Enterprise "Mining and Chemical Combine" Russia
- Titan-2 Holding, Russia
- Power plant Wilhelmshaven, Germany



LP-210	DSP-15	DSP-15L	HP-10	HP-15	HP-20	HP30
Ronfalin/RAL 7035	ASA/RAL 7035	ASA/RAL 7035	ASA/RAL 7035	ASA/RAL 7035	PA/RAL 7035	PA/RAL 7035
10W	15W	25W	10W/15W	15W/ 20W	20W/ 25W	30W/40W
100 dB	106 dB	112 dB	106 dB	108 dB	110 dB	110 dB
350-20000 Hz	330-8000 Hz	290-8000 Hz	410-8000 Hz	330-8000 Hz	310-8000 Hz	310-8000 Hz
204x138x98	186x247x144	349x272x201	Ø139x198	Ø200x247	Ø237x286	Ø237x286
56	67	67	67	67	67	67



# **Metal Horn Loudspeakers**

The DNH aluminium horn series represent an extremely robust range of heavy duty horn speakers.

These speakers are renowned for both high reliability and a superb efficiency, that makes them suitable for all industrial environments and public areas such as railway-stations, dockyards and manufacturing works.

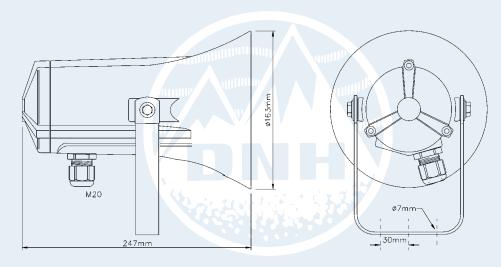
The vandal-proof Safe-15 has been designed to withstand external impact as well as unauthorised access.

HS-15S is designed to withstand external sound shocks.(>175dB).

HSS-15 in stainless steel, is made to withstand extremely corrosive environments.







Model	HS-15	H-66	HS-15 S
Material/Colour	Alu/RAL 7035	Alu/RAL 7035	Alu/RAL 7035
Rated/max power, Watt	15W/20W	25W/30W	15W/20W
SPL/1W/1m	107 dB	109 dB	107 dB
Effective freq.range, Hz	350-7500 Hz	300-7000 Hz	350-7500 Hz
Dimensions, mm	Ø163x247	Ø217x245	Ø163x247
IP Rating	67	67	55

## "The Sound Ambassador"











# The DNH Aluminium horn speakers have been supplied to many different projects throughout the world. Among them:

- Channel Tunnel between England and France
- Changi Prison, Singapore
- London Underground, England
- Rendsburg-Tunnel, Germany
- Tramway in Augsburg, Germany
- Electronuclear Plant, Brazil
- ASCO nuclear plant, Spain (HSS-15)



HSS-15	SAFE-15	HS-8
Stainless Steel	Alu/RAL 9010 or 3000	Alu/RAL 7035
15W/20W	15W/30W	8W/10W
107 dB	95 dB	103 dB
350-7500 Hz	500-7000 Hz	500-6000 Hz
Ø169x245	105x210x59	Ø124x141
67	67	67



# Alarm Horn Loudspeakers

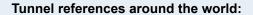
Alarm horns have a very high SPL value for alarm purposes.

The DNH range of Music Horns and Music Cabinets represent a unique sound performance.

The precise sound quality combined with the high sensitivity make these models superb for music reproduction.

The powerful output of the MH-50 (120 dB at 1m) will provide coverage over very large areas.

Music cabinets are used in sports stadia, cruise liners, school yards, swimming pools, leisure parks and mountain resorts.



- Germany
- United Kingdom
- Australia
- The Netherlands
- Switzerland









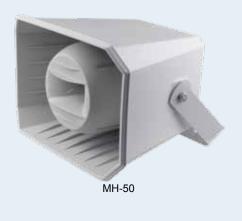
DS-100 and DST-100



Model **DH-50 with DS-100** TUNNEL-500 with DUP-40 **HPA-60** Material/Colour VO Fiberglass, Alu. LM 6/RAL 7035 Alu PA 6/RAL 7035 100W 40W Rated/max power, Watt 60W

SPL/1W/1m 112 dB 114 dB 110 dB 200-5000 Hz 350-8000 Hz 310-8000 Hz Effective freq.range, Hz Ø508x664 507x295x1310 Ø237x250 Dimensions, mm **IP Rating** 67 67 67

# **Music Horn Speakers**





MC-50





MC-200

DNH music horns have had an excellent reputation for many years and have been chosen for many different projects throughout the world. Among them:

- Meribel Stadium, France
- Royal Caribbean Cruise Liners
- Hurtigruta: "Trollfjord", Norway
- Carnival Cruise Line
- Narvik slalom and down hill, Norway
- Olympic Games in Athens, Greece



MH-50	MC-50	MC-200
PP,ABS RAL 7035	ABS , V0 / RAL 7035	ABS , V0 / RAL 7035
50W/80W	50 W / 70 W	200 W
104 dB	98 dB	100 dB
140-16000 Hz	90 - 20000 Hz	40 - 20000 Hz
362x252x310	454x227x314	850x358x555x
55	55	55



## **Explosion Proof Loudspeakers**

DNH manufactures the world's most complete range of Ex loudspeakers for use in hazardous environments.

DNH offers a wide variety of heavy duty fully approved Ex-equipment, specially designed for use in military and civil installations where gases and other explosives make special precautions necessary.

CAREEX-6(T)x2 and BA-56 EExeN(T)x2 are products unique to DNH These are designed with 2 independent loudspeakers, transformers and terminal blocks. This allows both A+B systems to be contained in a single housing.

The junction box JBP-120EExeN in antistatic PA has an IP 67 rating and 6 entries.



JBP-120EExeN



DSP-25EExmN(T)



DSP-15EExmN(T)



DSP-15EExmNL(T)



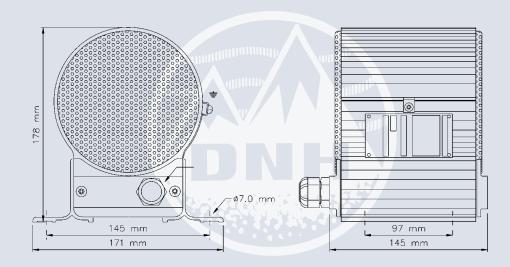
DHP/DST-40 EExeN(T)



CM-6EExmN(T)



(T): The model is delivered with transformer



Model	DSP-25 EExmN	DSP-15 EExmN	DSP-15 EExmNL	DHP/DST-40 EExeN	CM-6 EExmN	HP-20EExIIN
Material/Colour	PA/Black	PA/Black	PA/Black	Alu,PA/Black	PA/Black	PA/Black
Rated/max power, Watt	25W/25W	15W/25W	15W/25W	40W	6W	20W
SPL/1W/1m	106 dB	105 dB	109 dB	110 dB	85 dB	110 dB
Effective freq.range, Hz	370-7000 Hz	380-7000 Hz	330-7000 Hz	330-7000 Hz	300-20000 Hz	310-8000 Hz
Dimensions, mm	Ø257x340	186x207x144	342x272x197	380x368x175	137x137x53	Ø237x286
IP Rating	67	67	67	67	67	67

# "Design and Performance"



HS-15EExmN(T)



HS-8EExmN(T)



H-60 EExeN(T)



CAREEX-6(T) CAREEX-6(T)x2



BAREEX-36(T)



BA-56EExeN(T) BA-56EExeN(T)x2



#### **EEx References:**

- Statfjord - Ekofisk - Valhall - Oseberg øst - Kvitebjørn - Piper Bravo - Åsgård A &B - Grane - Njord - Visund - Balder - Brent - Britannia - Ringhorne - Beryl - Snorre B - Huldra - Gjøa

- GEAD - Athena FPSO - Kåstø Gassled

- Kollsnes

#### Others:

Hibernia, Canada
 N'Kossa, Congo
 Kazakhstan
 USAN, Nigeria
 Shell platforms, Malaysia
 Petrobras platforms, Brazil
 AKPO, Nigeria
 Jasmine, North Sea

- Djeno, Kongo



HS-15 EExmN	HS-8 EExmN	H-60 EExeN	HS-15 EExIIN	CAREEX-6 CAPEEX-6	CAREEX-36 BAREEX-36	BA-56 EExeN
Alu/RAL 7035	Alu alloy/RAL 7035	Alu/RAL 7035	Alu/RAL 7035	Alu/Anod.	Alu/Anod.	Alu/RAL 9010 grille
15W	8W	20W/20W	15W	6W	6W	6W
105 dB	100 dB	106 dB	107 dB	86 dB	84 dB	88 dB
410-7000 Hz	550-7000 Hz	370-6000 Hz	370-7000 Hz	160-16000 Hz	180-15000 Hz	160-15000 Hz
Ø163x247	Ø124x141	Ø217x245	Ø163x247	Ø178x171x145	146x135x88	Ø200x172
67	67	67	67	67	67	67



### **Music Masters**

The DNH MD-series and professional range of models are designed for applications where a combination of high quality music reproduction and clear public address are required.

These models have an exceptional frequency range and an impressive ability to transmit a distinct and very natural sound, combined with high power output.

The selection of models provide different solutions for different applications and are suitable for use in environments such as shopping malls, restaurants, bars, hotels, churches, conference rooms etc.



Model	MD-200	MD-120	MD-60	MD-40
Material/Colour	PE/Black	PE,Black	ABS/Black/White	ABS/Black/White
Rated/max power, Watt	200W/300W	120/150W	60/100W	40/60W
SPL/1W/1m	100 dB	91 dB	90 dB	85 dB
Effective freq.range, Hz	60-20000 Hz	35-20000 Hz	45-20000 Hz	70-20000 Hz
Dimensions, mm	430x485x320	475x326x330	203x335x250	148x155x186
IP Rating	54	44*	44*	44*
* IP mounted with the arill 30 dea	rees downwards			

# "The Height of Performance"





MC-50





MC-200

#### **Music Masters, References:**

- Lisbon Z00, Portugal
- Football stadium, Leverkusen, Germany
- Swimming pools, Paris
- Airport Hahn, Germany
- Trud stadium, Russia
- Football stadium, Troyes, France
- Lorient Museum, France



MC-50	MC-200
ABS , V0 / RAL 7035	ABS , V0 / RAL 7035
50 W / 70 W	200 W
98 dB	100 dB
90 - 20000 Hz	40 - 20000 Hz
454x227x314	850x358x555x
55	55
	ABS , V0 / RAL 7035 50 W / 70 W 98 dB 90 - 20000 Hz 454x227x314

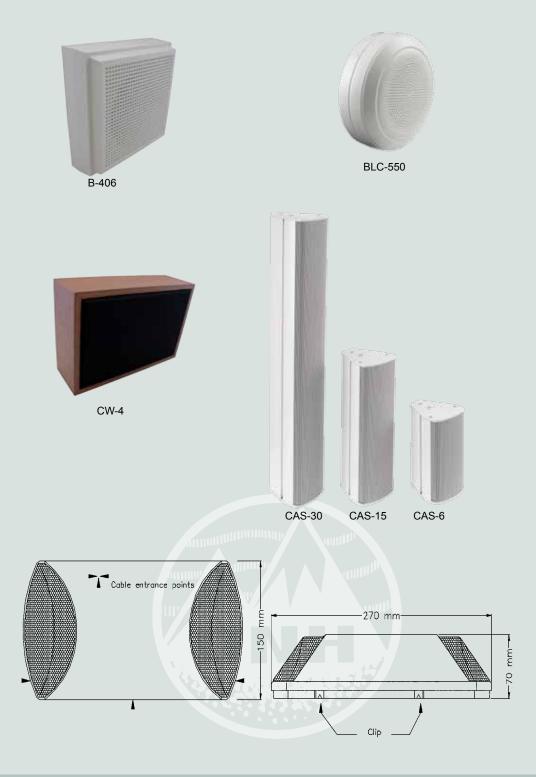


# **Cabinet Loudspeakers**

DNH offers a wide range of cabinet loudspeakers for different applications. Common for all models are easy installation, colour options, and an aesthetically pleasing design. Ideal for public address and background music systems.

Several models are suitable for both indoor and outdoor use.

Our cabinet models are designed for use in public places, airports, churches, conference rooms, sports arenas as well as industrial environments.



Model	B-406	BLC-550	CW-4	CAS-30	CAS-15	CAS-6
Material/Colour	ABS/RAL-9002	ABS/RAL-9010	Particle board/nut	Alu/PA/white/anod.	Alu/PA/white/anod.	Alu/PA/white/anod.
Rated/max power, Watt	6W/8W	6W/10W	4W/8W	30W/40W	15W/20W	6W/10W
SPL/1W/1m	92 dB	90 dB	90 dB	90 dB	89 dB	88 dB
Effective freq.range, Hz	230-20000 Hz	140-20000 Hz	150-20000 Hz	120-20000 Hz	120-20000 Hz	130-20000 Hz
Dimensions, mm	210x210x66	Ø206x85	252x171x84	102x111x610	102x111x307	102x111x187
IP Rating				54	54	54

# "Loud and Clear"







SAFE-10 P



CP-6



**CP-66** 



P-3x2P



TRIC-6



#### **Cabinet Speakers, References:**

- Malpensa Airport, Milano, Italia
- National Public Hospital, Oslo, Norway
- Madrid Underground, Spain
- Hamburger Hochbahn, Germany
- Amman Airport, Jordan
- NSB, The Norwegian Railways
- Holy Trinity Church, Sheffield, UK
- Singaporean Coastguard, Singapore
- London Underground
- Opera Paris, France
- Polish Parlament, Poland
- Surgutneftegaz, Russia



SAFE-m6	Safe-10P	CP-6	CP-66	P-3x2P	TRIC-6
Alu/white/red	ABS/RAL-9010	ABS/RAL-9010	ABS/RAL-9010	Ronfalin/RAL 7035	ABS/RAL 9010
6W/10W	10W/15W	6W/10W	6W/10W	15W/20W	6W
85 dB	85 dB	86 dB	86 dB	93 dB	88 dB
190-20000 Hz	160-20000 Hz	150-20000 Hz	170-20000 Hz	180-16000 Hz	180-18000 Hz
105x210x59	104x206x55	193x149x70	270x149x70	92x210x70	220x220x38
56	44			54	



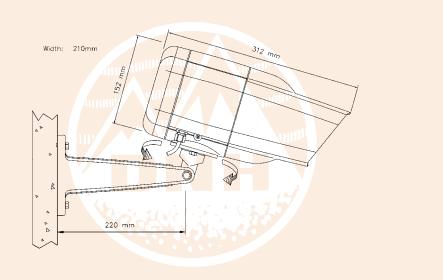
# **Projectors**

The DNH projector loudspeakers represent a wide range of options.

These models cover multiple applications for indoor as well as outdoor use. In addition to the standard models, we offer different specialities such as weather proof and fire proof versions, and of course colour options. The ideal versions for maximum sound coverage and high performance.

Projectors are excellent for both public address and background music systems, in and outdoors. Ideal for use in airports and railways.





DP-10 / DP-30

CAR-4	CAR-6	CAP-15W	PROSOUND-300	DP-10
Alu/white or anod.	Alu/White or anod.	Alu/White or anod.	PA/RAL 9005 or 7035	Ronfalin/RAL 7035
4//6W	6W/10W	15W/20W	30W/50W	10W/15W
90 dB	90 dB	92 dB	85 dB	94 dB
150-16000 Hz	150-20000 Hz	150-20000 Hz	125-20000 Hz	140-16000 Hz
175x152x90	175x152x175	Ø146x200	157x178	152x315x210
		55	54	55
	Alu/white or anod. 4//6W 90 dB 150-16000 Hz	Alu/white or anod. Alu/White or anod. 4//6W 6W/10W 90 dB 90 dB 150-16000 Hz 150-20000 Hz	Alu/white or anod. Alu/White or anod. Alu/White or anod. 4//6W 6W/10W 15W/20W 90 dB 90 dB 92 dB 150-16000 Hz 150-20000 Hz 175x152x90 175x152x175 Ø146x200	Alu/white or anod.       Alu/White or anod.       Alu/White or anod.       PA/RAL 9005 or 7035         4//6W       6W/10W       15W/20W       30W/50W         90 dB       92 dB       85 dB         150-16000 Hz       150-20000 Hz       150-20000 Hz       125-20000 Hz         175x152x90       175x152x175       Ø146x200       157x178

PROSOUND-300

# "Design and Performance"





PS-6









References:

- Deutsche Bahn, Germany
- Metro in Athens, Greece
- Amman Airport, Jordan
- London Underground, England
- Malpensa Airport, Milano, Italy
- Carnival Cruise Line
- RCCL Cruise Line
- Underground in Madrid, Spain
- Heathrow Airport, London
- Olympic Games, Greece
- Schiphol Airport, Amsterdam
- Zurich Airport, Switzerland



DP-30	DPD-10	DPD-30	PS-6	VEP-6	BIVEP-6	VEP-15
Ronfalin/RAL 7035	Ronfalin/RAL 7035	Ronfalin/RAL 7035	PA/RAL 7035	ABS/RAL 7035	ABS/RAL 7035	ABS/Vo/White
30W/50W	10W/15W	30W/50W	6W/15W	6W/15W	6W/15W	15W/20W
89 dB	91 dB	88 dB	85 dB	87 dB	82 dB	92 dB
110-20000 Hz	140-16000 Hz	100-20000 Hz	150-18000 Hz	170-20000 Hz	155-20000 Hz	150-20000 Hz
152x315x210	152x210x455	152x210x455	157x160	110x127	110x167	Ø162x205
55	55	55	56	44	44	55



# Ceiling Loudspeakers "Metal"

DNH offers several models of metal and plastic ceiling loudspeakers in different design and shape. Mounting ranges from the conventional screw fitted type (B-560, B-620 and BS-660), to easy spring mounting (BK-560).

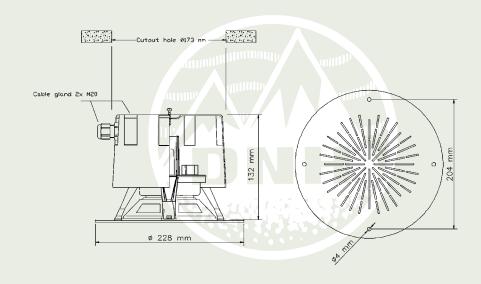
The models BP-560, BP-660 and BP-860 will have no visible screws.

The prob versions of B-560 and B-620 are fitted with two-way loudspeaker systems for extended frequency range and high power.

Our ceiling loudspeakers are available with dust-boxes in V0 plastic or steel fire-domes.







Model	B-560	BS-560	BK-560	B-620	VES-360	VES-561	VES-661
Material/Colour	PA V0/Alu/RAL9010	Alu/RAL9010	PA V0/Alu/RAL 9010	PA V0/Alu/RAL9010	Steel,Alu/RAL9010	Steel,Alu/RAL9010	Steel/Alu/White
Rated/max power, Watt	6W/10W	6W/15W	6W/10W	6W/15W	6W/8W	6W/8W	6 W / 10 W
SPL/1W/1m(dB)	90 dB	90 dB	90 dB	92 dB	90 dB	90 dB	92 dB
Effective freq.range, Hz	110-20000 Hz	110-20000 Hz	100-20000 Hz	80-20000 Hz	180-12000 Hz	180-12000 Hz	130–20000 Hz
Dimensions, mm	Ø165x105	Ø167x95	Ø165x105	Ø228x109	Ø165x112	Ø165x112	Ø220x129
IP Rating							

# "High Performance" "Plastic"

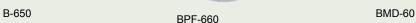




BP-860







#### Ceiling speakers, references:

- Malpensa Airport, Italy
- Carnival Cruise Line
- Holland American Line
- McDonalds Restaurants
- Marks & Spencer, Athens, Greece
- London Underground, UK
- BPC 1,2,3 (French army)
- Bergensbanen, Oslo- Bergen, Norway



BP-560	BP-660	BP-860	B-650	BPF-660	BMD-60
PA ABS/RAL 9010	PA ABS/RAL 9010	ABS/RAL 9010	ABS grille/white	PA ABS/RAL 9010	ABS/RAL 9010
6W/10W	6W/20W	6W/20W	6W/15W	6W/20W	60W/100W
90 dB	93 dB	90 dB	90 dB	93 dB	90 dB
110-15000 Hz	100-20000 Hz	45-20000 Hz	140-18000 Hz	170-20000 Hz	45-20000 Hz
Ø190x120	Ø237x133	Ø290x210	Ø232x129	Ø237x133	Ø292x205
			42	54	44



# EN-54-24 Loudspeakers

#### EN-54-24

If you use loudspeakers to broadcast a warning of fire to occupants of a building, the loudspeakers themselves have to be certified according to EN-54-24

#### Voice alarm

In buildings where a large number of people are likely to be present, such as airports, rail stations and large office complexes a voice evacuation should be installed.

Of course it is imperative that any system designed to provide the public with information about evacuation procedures, must continue to operate throughout the duration of any incident, or until such time as everybody has been removed from the area of danger.



SAFE-561-54



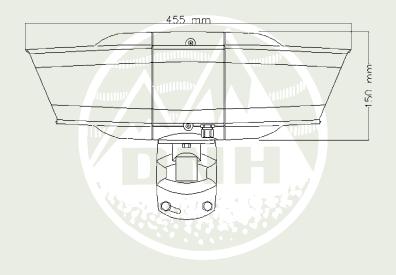
VES-561-54



DP-10-54



DPD-10-54



Model	SAFE-561-54	VES-561-54	DP-10-54	DPD-10-54
Material/Colour	Steel/RAL 9010	Steel,Alu/RAL 9010	Ronfalin 5VA/RAL 7035	Ronfalin 5VA/RAL 7035
Rated power, Watt	6W	6W	6W	6W
Termination	Ceramic terminal	Ceramic terminal	Screw terminal	Screw terminal
SPL/1W/1m	90 dB	90 dB	93 dB	90 dB
Effective freq.range, Hz	180-13000 Hz	180-13000 Hz	140-12000 Hz	120-12000 Hz
Dimensions, mm	Ø169x65	Ø165x112	152x315x210	152x210x455
IP Rating	22	22	55	55

# "Design and Performance"



P-3x2P-54



DSP-15-54











P-3x2P-54	CAS-15-54	DSP-15	HP-10
Ronfalin/RAL 7035	Alu/white/anod.	Ronfalin/RAL 7035	Ronfalin/RAL 703
15W	15W	15W	10W
Screw terminal / 0,5m cable	Ceramic terminal	Screw terminal	Screw terminal
94 dB	92 dB	106 dB	106 dB
180-15000 Hz	160-20000 Hz	360-12000 Hz	360-12000 Hz
92x210x70	102x111x307	186x247x144	Ø139x198
FF	FC		



# Clean Room Loudspeakers

#### Clean Room

The DNH range of clean room loudspeakers (CR) is developed specially to meet the demand for cleanliness in certain environments such as production facilities for micro-electronics, pharmaceutical industry, photo industry and laboratories.

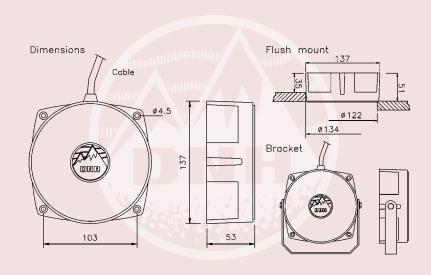
Our Aqua-30 underwater loudspeaker is 100% water proof and has excellent performance in or out of water. Unique design and supplied with 5 m cable.



Our loudspeakers VES-661x2 and BP-660x2 are fitted with two complete louspeaker systems, two separate loudspeakers, two transformers and two terminals in one enclosure (A + B system in one enclosure)







Model	BLC-550 CR	CAP-15W CR	CR-6	BK-560 CR	BP-560 CR
Material/Colour	ABS/RAL 9010	Alu,PA/RAL9010, anodized	PA/RAL 9010	Aluminum/RAL9010	PA ABS/RAL9010
Rated/max power, Watt	6W/15W	15W/15W	6W/30W	6W/10W	6W/10W
SPL/1W/1m	88 dB	85 dB	85 dB	88 dB	88 dB
Effective freq.range, Hz	140-12000 Hz	125-12000 Hz	280-20000 Hz	140-12000 Hz	70-12000 Hz
Dimensions, mm	Ø206x85	Ø146x200	Ø137x53	Ø165x105	Ø190x120
IP Rating					

# **Specialities**





















VES-661 A+B	BP-660 A+B	AQUA-30	SAFE-561 SAUNA	B-406 A+B	AQUA-30 Shoch absorber
Steel / RAL 9010	ABS / RAL9010	PA / BLUE	Steel / RAL 9010	ABS/RAL-9002	Silicone rubber / Orange
6W / 2x6W	6W / 2x6W	20W/30W	6W / 6W	6W / 2x6W	
93 dB	93 dB	105 dB	86 dB	93 dB	
240-13000 Hz	240-13000 Hz	80-20000 Hz	150-11000Hz	240-15000 Hz	
Ø220x129	Ø237x120	137x137x53	Ø169x65	210x210x66	145x145x82
		68	54		







## "The original DNH design"

**The Buyer** of DNH loudspeakers benefits from the research and engineering which DNH has performed for more than 69 years in developing high class loudspeakers for every purpose and demand. This experience, combined with the most careful selection of materials and the strictest manufacturing controls, will assure you performance of highest quality.

During all stages of our manufacturing and production process, a fully documented and **Approved Quality Assurance system to** ISO 9001 is imposed.

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