

DHT

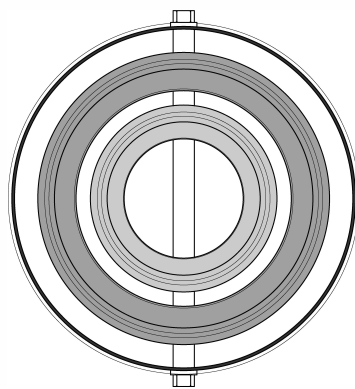
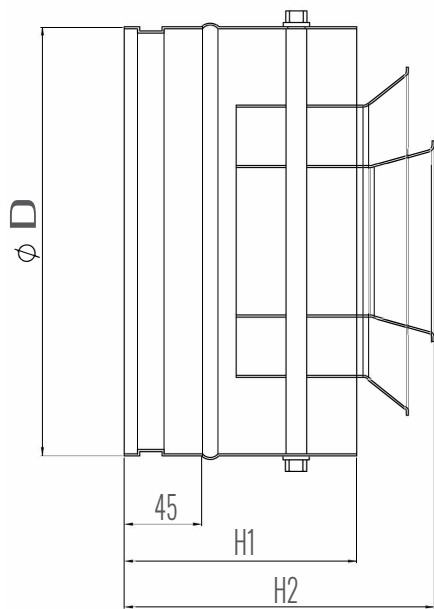
High induction adjustable conical nozzle diffuser with direct duct mounting and EPDM sealing gasket.

The central body can be easily adjusted or rotated 180 ° for maximum throw.

- **INSTALLATION HEIGHT:** up to 25/30m
- **APPLICATION:** cooling and heating for wide areas

TECHNICAL SPECIFICATIONS AND USAGE LIMIT

INSTALLATION HEIGHT	APPLICATIONS	MATERIALS	SURFACE FINISH	COLOR	FASTENING
Up to 25m	Cooling and heating for wide areas	Pickled Steel	Epoxy powder coating resistant to shocks and abrasions	Standard RAL 9010 - gloss RAL 9016 - gloss RAL 9003 - mat	By means of screws positioned on the neck of the diffuser



GREEN BUILDING

Thanks also to the support and support of GreenMap, Tecnica products contribute to obtaining the credits of the major international sustainability rating systems for buildings



LEED
IP, EA, MR



WELL
MATERIALS,
COMMUNITY

BREEAM










BREEAM
MAN, WST

For more details regarding the specific contributions to the indicated credits, contact Tecnica Srl

TECHNICAL DATA

Model	Ø D [mm]	H1 [mm]	H2 [mm]	box [mm]	Peso [kg]
DHT 200	199	121	159	225x225x185	0,90
DHT 250	249	135	181	270x270x205	1,20
DHT 315	314	135	198	355x355x220	1,60
DHT 400	399	145	225	435x435x248	2,00
DHT 500	499	248	353	535x535x375	3,90

APPLICATIONS

								
Residential	Easy Pack	Calculation Methods	REACH Certificate	RoHS Certificate	Industry	Building	Air Conditioning	Interior design

*on request

Selection example - Flow Rate / Vertical Throw

Chart 1

The graph shows the vertical throw that can be obtained in isothermal conditions based on the flow rate.

Note:

The data reported in it refer to the diffuser with the central cones in the standard position with wide / short throw, with fixing directly to the channel.

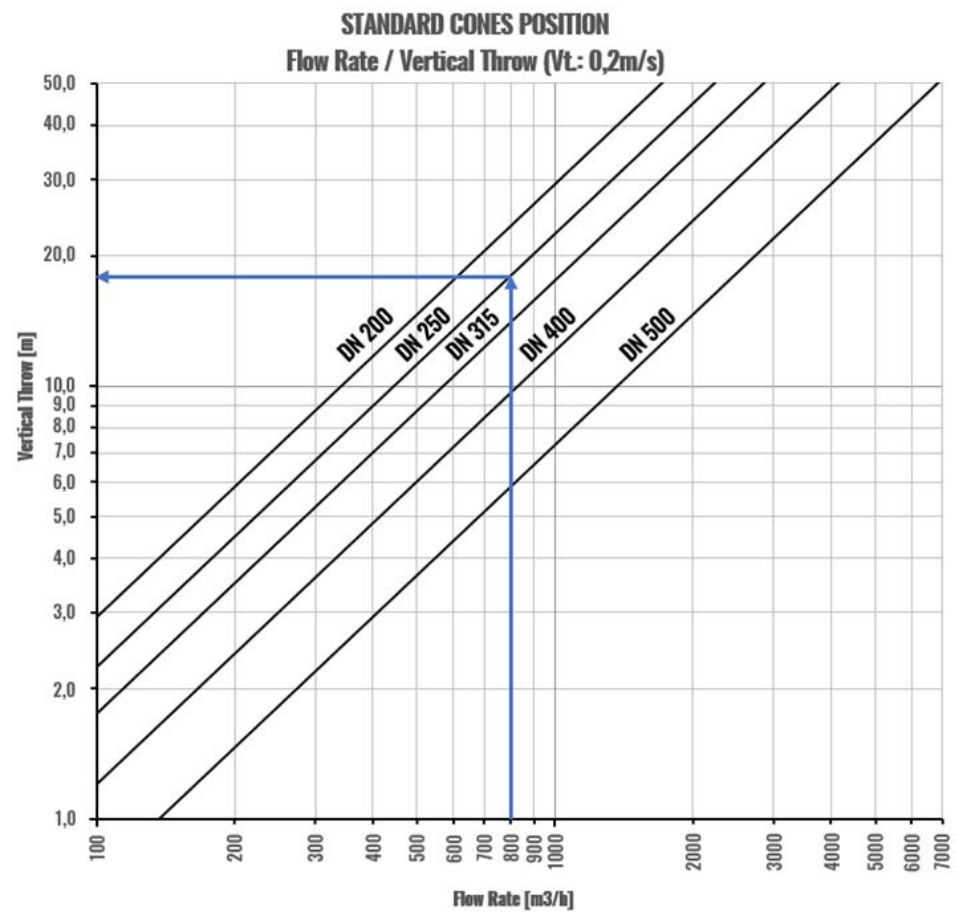
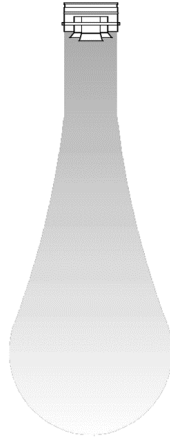
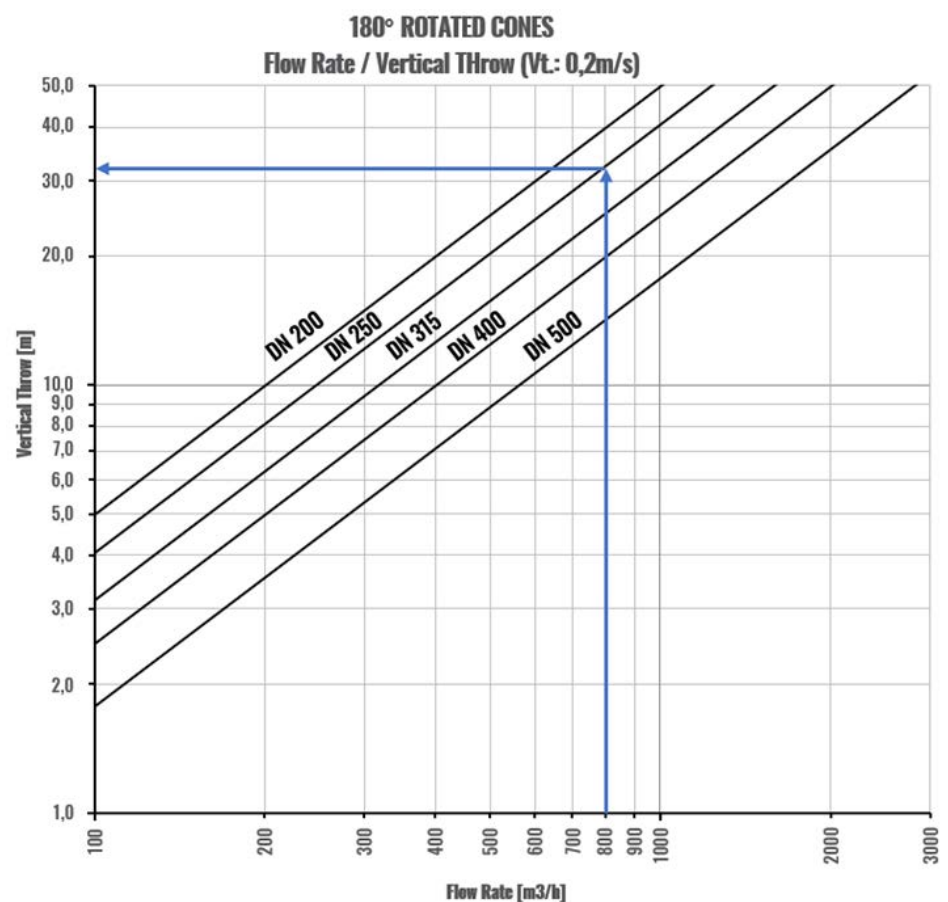


Chart 2

The graph shows the vertical throw that can be obtained in isothermal conditions based on the flow rate.

Note:

The data shown in it refer to the diffuser with the central cones in a position rotated by 180 ° inwards with a narrow / deep throw, with fixing directly to the channel.



NB The pressure drop data shown in the graph refer to the operation of the diffuser with the damper completely open.

Selection example - Flow Rate / Pressure Drop / Noise Level

Chart 1

The graph shows the pressure drop of the diffuser based on the flow rate with relative indication of the acoustic power level without environmental attenuation.

Note:

The data reported in it refer to the diffuser with the central cones in the standard position with wide / short throw, with fixing directly to the channel.

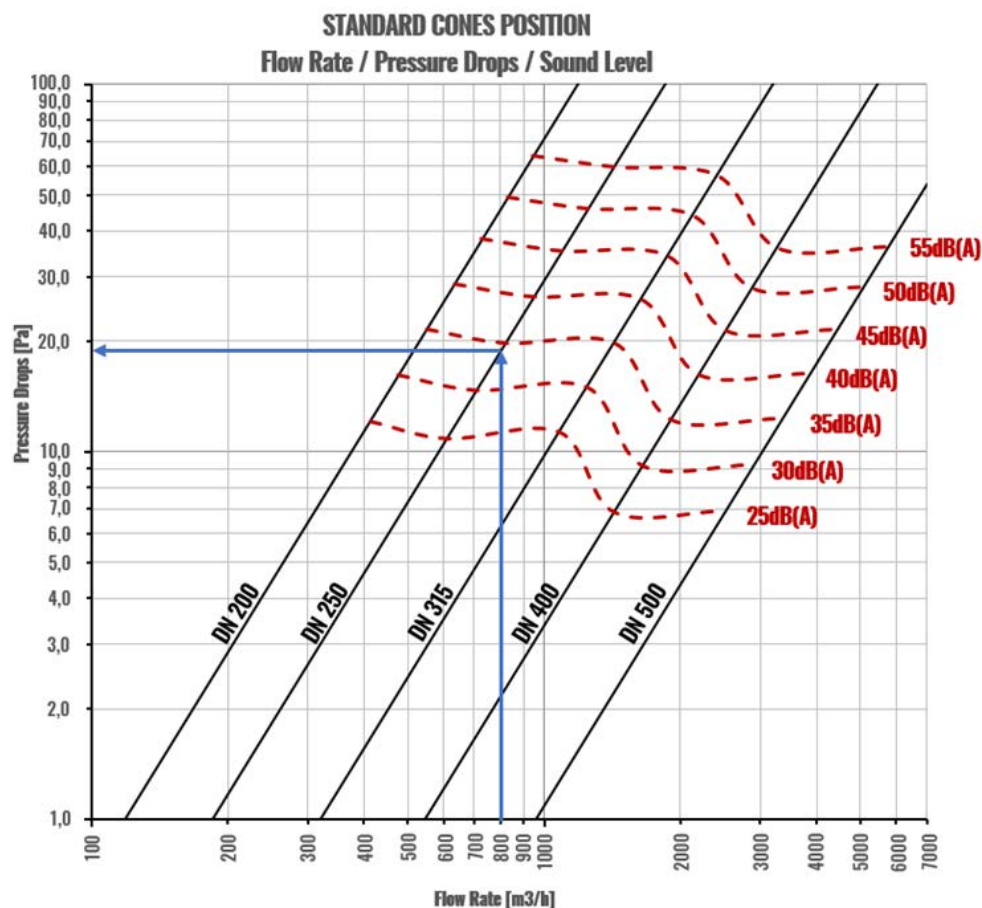
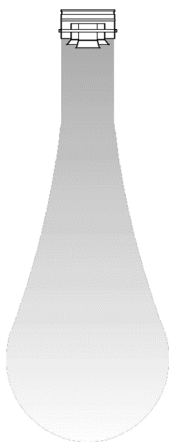
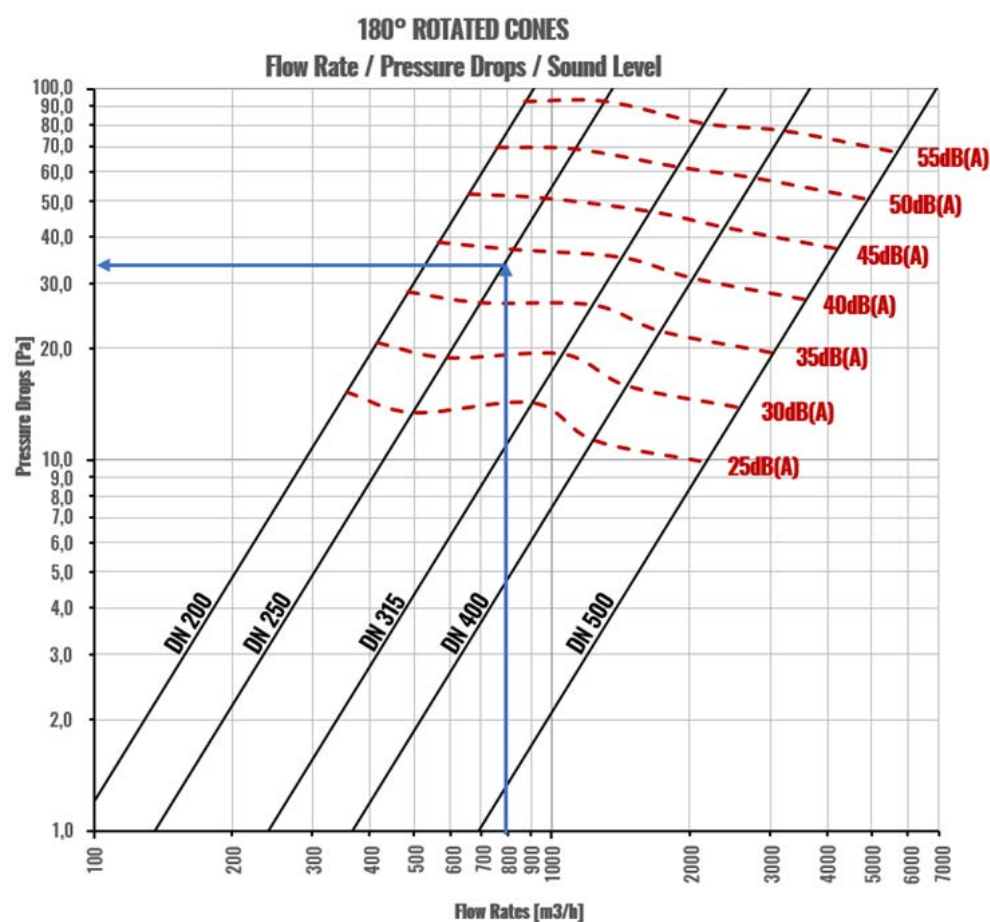


Chart 2

The graph shows the pressure drop of the diffuser based on the flow rate with relative indication of the acoustic power level without environmental attenuation.

Note:

The data shown in it refer to the diffuser with the central cones rotated 180° inwards with a narrow / deep throw, with fixing directly to the channel.



Sound Spectrum / Correction "K"

Static attenuation of the sound level based on frequency								
Mod.	63	125	250	500	1k	2k	4k	8k
200	16	12	7	3	1	0	0	0
250	14	10	6	2	0	0	0	0
315	12	9	4	2	0	0	0	0
400	6	7	3	1	0	0	0	0
500	5	6	2	0	0	0	0	0

Sound power correction coefficient based on frequency									
Mod.	Cones	63	125	250	500	1k	2k	4k	8k
200	std.	-10	-5	1	-4	-5	-8	-14	-12
	180°	-10	-5	-1	-4	-4	-10	-15	-12
250	std.	-10	-5	1	-4	-4	-11	-13	-12
	180°	-11	-5	0	-4	-3	-13	-15	-12
315	std.	-10	-5	-1	-3	-3	-13	-14	-12
	180°	-11	-5	-3	-5	-2	-15	-15	-12
400	std.	-10	-5	-2	-3	3	-14	-15	-12
	180°	-11	-5	-3	-6	-3	-13	-15	-12
500	std.	-10	-5	-2	-3	-3	-14	-15	-12
	180°	-11	-5	-3	-5	-2	-12	-15	-12

OPERATING DATA TABLE FOR QUICK SELECTION

Model	Description	M.U.	Vi (m/s)									
			1	2	3	4	5	6	7	8	9	10
200 Ak: 0,0293m ²	Flow Rate	m ³ /h	105	211	316	422	527	633	738	844	949	1055
	Pressure Drop Cones in standard position	Pa	0,8	3,2	7,2	12,7	19,9	28,6	39,0	50,9	64,4	79,5
	Pressure Drop Cones Rotated 180°	Pa	1,3	5,4	12,1	21,5	33,6	48,3	65,8	85,9	108,7	134,2
	Vertical Throw Vt 0,20m/s Cones in standard position	mt	3,1	6,2	9,3	12,4	15,4	18,5	21,6	24,7	27,8	30,9
	Vertical Throw Vt 0,20m/s Cones rotated 180°	mt	5,2	10,5	15,7	20,9	26,2	31,4	36,7	41,9	47,1	52,4
	Noise Level Cones in standard position	dB(A)	25	25	25	28	34	41	48	53	57	61
	Noise Level Cones rotated 180°	dB(A)	25	24	26	31	37	44	50	55	58	62
	Min. Installation Height Cones in standard position	mt	4,9	8,0	11,1	14,2	17,2	20,3	23,4	26,5	29,6	32,7
	Min Installation Height Cones rotated 180°	mt	7,0	12,3	17,5	22,7	28,0	33,2	38,5	43,7	48,9	54,2
250 Ak: 0,0464m ²	Flow Rate	m ³ /h	167	334	501	668	835	1002	1169	1336	1503	1670
	Pressure Drop Cones in standard position	Pa	0,8	3,3	7,3	13,0	20,3	29,3	39,9	52,1	65,9	81,4
	Pressure Drop Cones Rotated 180°	Pa	1,5	6,1	13,6	24,3	37,9	54,6	74,3	97,0	122,8	151,6
	Vertical Throw Vt 0,20m/s Cones in standard position	mt	3,8	7,5	11,3	15,0	18,8	22,5	26,3	30,0	33,8	37,5
	Vertical Throw Vt 0,20m/s Cones rotated 180°	mt	6,7	13,5	20,2	27,0	33,7	40,5	47,2	54,0	60,7	67,5
	Noise Level Cones in standard position	dB(A)	25	25	25	28	34	41	48	53	57	61
	Noise Level Cones rotated 180°	dB(A)	25	24	27	32	38	44	48	51	53	56
	Min. Installation Height Cones in standard position	mt	5,6	9,3	13,1	16,8	20,6	24,3	28,1	31,8	35,6	39,3
	Min Installation Height Cones rotated 180°	mt	8,5	15,3	22,0	28,8	35,5	42,3	49,0	55,8	62,5	69,3
315 Ak: 0,0745m ²	Flow Rate	m ³ /h	268	536	805	1073	1341	1609	1877	2146	2414	2682
	Pressure Drop Cones in standard position	Pa	0,7	2,8	6,3	11,2	17,5	25,1	34,2	44,7	56,6	69,8
	Pressure Drop Cones Rotated 180°	Pa	1,2	5,0	11,2	19,9	31,1	44,8	60,9	79,6	100,7	124,3
	Vertical Throw Vt 0,20m/s Cones in standard position	mt	4,7	9,4	14,0	18,7	23,4	28,1	32,8	37,5	42,1	46,8
	Vertical Throw Vt 0,20m/s Cones rotated 180°	mt	8,4	16,8	25,2	33,7	42,1	50,5	58,9	67,3	75,7	84,2
	Noise Level Cones in standard position	dB(A)	25	25	25	27	33	41	48	55	61	68
	Noise Level Cones rotated 180°	dB(A)	25	25	25	27	33	41	48	55	61	68
	Min. Installation Height Cones in standard position	mt	6,5	11,2	15,8	20,5	25,2	29,9	34,6	39,3	43,9	48,6
	Min Installation Height Cones rotated 180°	mt	10,2	18,6	27,0	35,5	43,9	52,3	60,7	69,1	77,5	86,0

OPERATING DATA TABLE FOR QUICK SELECTION

Modello	Descrizione	U.M.	Vi (m/s)									
			1	2	3	4	5	6	7	8	9	10
400 Ak: 0,1213m ²	Flow Rate	m ³ /h	437	873	1310	1747	2183	2620	3057	3493	3930	4367
	Pressure Drop Cones in standard position	Pa	0,6	2,5	5,7	10,2	15,9	22,9	31,2	40,8	51,6	63,7
	Pressure Drop Cones Rotated 180°	Pa	1,4	5,6	12,7	22,6	35,3	50,8	69,2	90,4	114,4	141,2
	Vertical Throw Vt 0,20m/s Cones in standard position	mt	5,3	10,5	15,8	21,0	26,3	31,6	36,8	42,1	47,3	52,6
	Vertical Throw Vt 0,20m/s Cones rotated 180°	mt	10,8	21,6	32,4	43,2	54,0	64,8	75,6	86,5	97,3	108,1
	Noise Level Cones in standard position	dB(A)	25	24	26	31	38	45	51	55	57	58
	Noise Level Cones rotated 180°	dB(A)	25	24	26	31	38	45	51	55	57	58
	Min. Installation Height Cones in standard position	mt	7,1	12,3	17,6	22,8	28,1	33,4	38,6	43,9	49,1	54,4
	Min Installation Height Cones rotated 180°	mt	12,6	23,4	34,2	45,0	55,8	66,6	77,4	88,3	99,1	109,9
	500 Ak: 0,1213m ²	Flow Rate	m ³ /h	687	1374	2062	2749	3436	4123	4811	5498	6185
Pressure Drop Cones in standard position		Pa	0,5	2,1	4,6	8,3	12,9	18,6	25,3	33,0	41,8	51,6
Pressure Drop Cones Rotated 180°		Pa	1,0	4,0	8,9	15,9	24,8	35,7	48,7	63,5	80,4	99,3
Vertical Throw Vt 0,20m/s Cones in standard position		mt	5,0	10,1	15,1	20,1	25,1	30,2	35,2	40,2	45,2	50,3
Vertical Throw Vt 0,20m/s Cones rotated 180°		mt	12,2	24,5	36,7	48,9	61,1	73,4	85,6	97,8	110,0	122,3
Noise Level Cones in standard position		dB(A)	25	24	26	31	38	45	51	55	57	58
Noise Level Cones rotated 180°		dB(A)	25	24	26	31	38	45	51	55	57	58
Min. Installation Height Cones in standard position		mt	6,8	11,9	16,9	21,9	26,9	32,0	37,0	42,0	47,0	52,1
Min Installation Height Cones rotated 180°		mt	14,0	26,3	38,5	50,7	62,9	75,2	87,4	99,6	111,8	124,1