

ARIASILENT BOX

Distribution box for HRV systems



AriaSilent Box

Distribution box system dedicated to Heat Recovery Ventilation systems.

The range consists of 4 box models made of plastic material respectively equipped with a maximum number of 6, 8 and 18 connections.

AriaSilent Boxes are supplied with all connections closed. The patented tear-off tab allows easy opening of only the connections necessary for connecting the air distribution systems through the AriaSilent link fittings.

The AriaSilent Box 18 Therm version is also equipped with internal thermal insulation to avoid the formation of condensation or energy losses even in the case of transporting air with a temperature different from that of the rooms in which the box is installed. It is also suitable for combination with units that provide dehumidification and thermal integration.

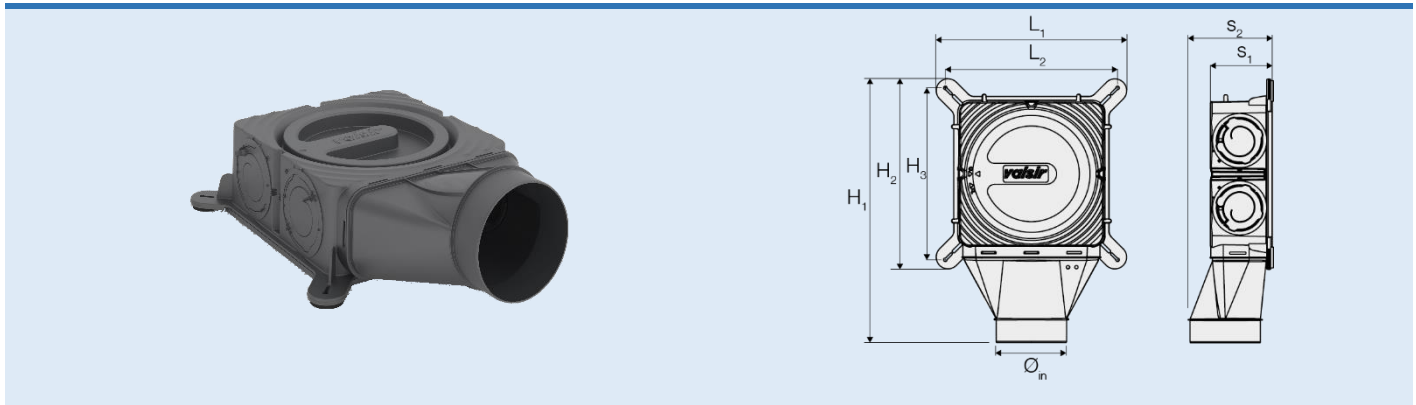
Characteristics

- 4 versions of distribution box
- Made of Polypropylene with antibacterial and antistatic master
- Patented tear-off tab for opening the bindings
- Internal deflector in models 18 and 18 Therm for an optimal distribution of the air flow
- Therm version internally insulated
- Multi-diameter connector to allow the combination to the different main connection channels with the ventilation unit

Table: Features of AriaSilent Box distribution box

Characteristics	
Box material	PP + master antibacterial and antistatic
Internal deflector material (AriaSilent Box 18 and 18 Therm)	EPS with graphite
Insulating layer material (Therm version only)	EPS with graphite
Sealing gaskets material	SBR / EPDM
Product standard	UNI EN 17192:2019
Application	Air supply
Body color of the box	Grey RAL 7011
Storage temperature	Min -10° C Max +60° C
Usage temperature	Min -5° C Max +60° C

Table: Dimensions AriaSilent Box 6 Compact



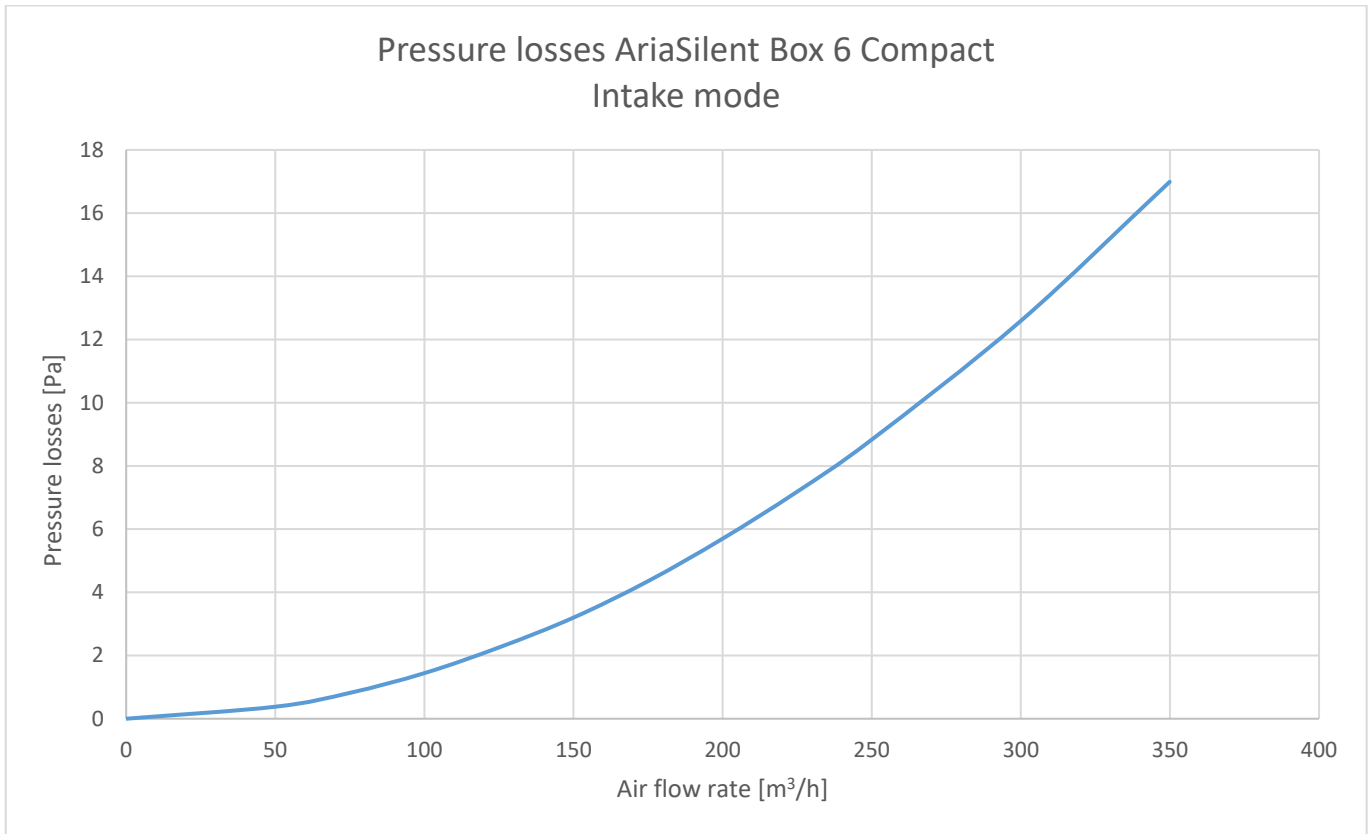
\varnothing_{in}	L ₁	L ₂	H ₁	H ₂	H ₃	s ₁	s ₂
125	340	306	470	340	306	110	150

Table: Pressure losses AriaSilent Box 6 Compact



Air flow rate [m ³ /h]	Pressure losses [Pa]	Pressure losses [Pa]
50	0,78	0,38
75	1,47	0,82
100	2,38	1,45
125	3,48	2,27
150	4,82	3,21
175	6,40	4,37
200	8,19	5,69
225	10,27	7,16
250	12,61	8,82
300	18,13	12,58
350	24,97	16,99

Graph: Pressure losses AriaSilent Box 6 Compact - Intake mode



Graph: Pressure losses AriaSilent Box 6 Compact - Extraction mode

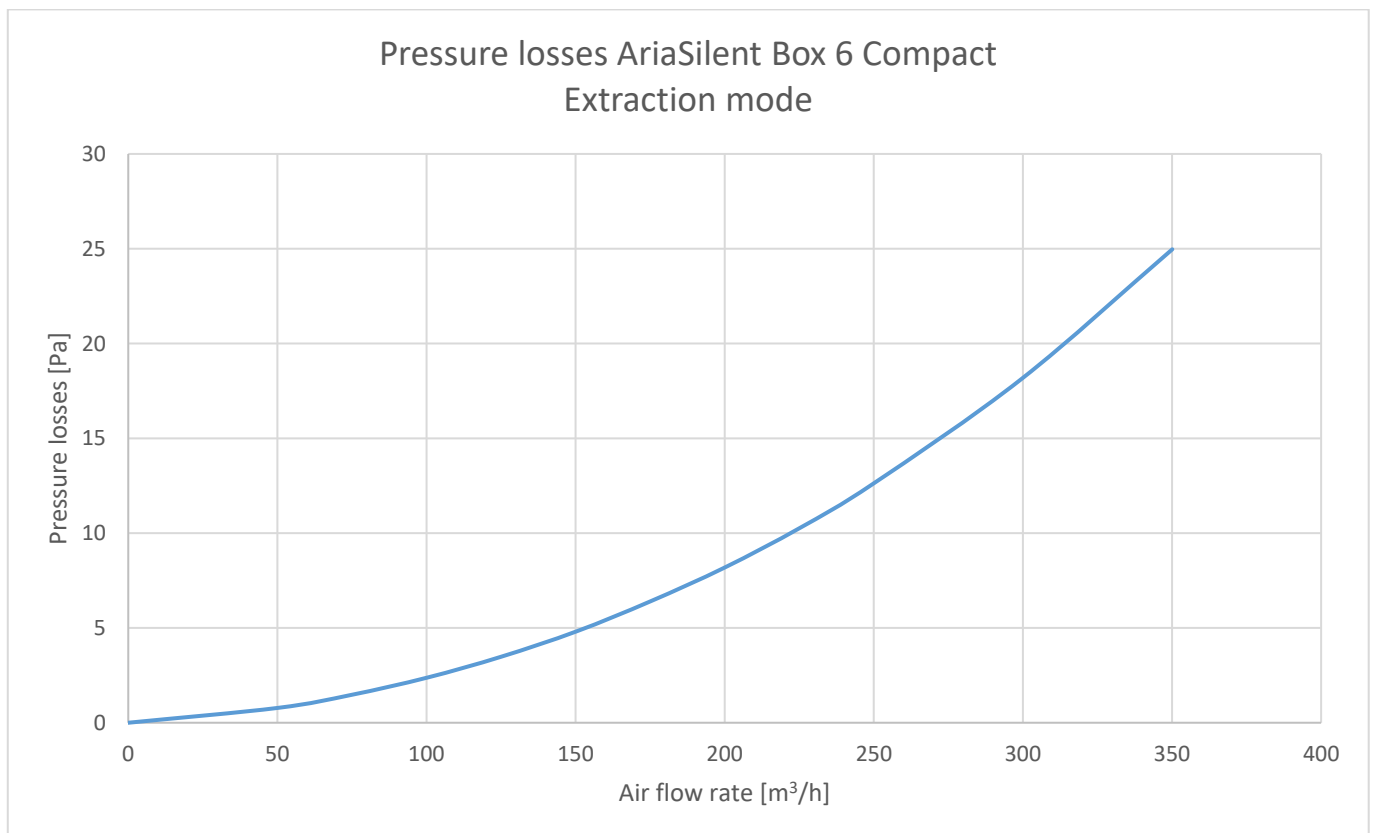
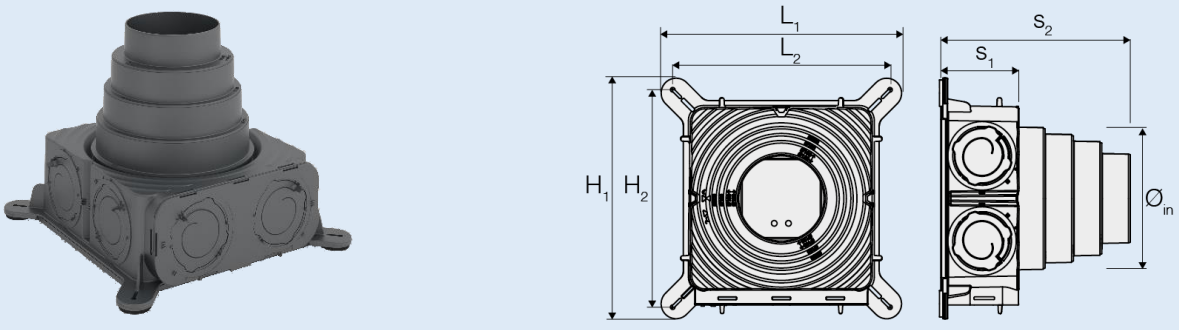
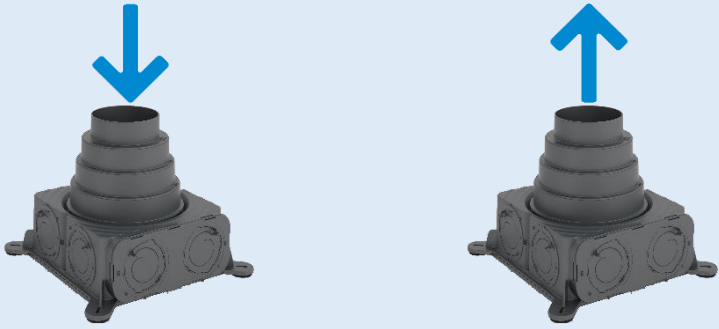


Table: Dimensions AriaSilent Box 8 Compact



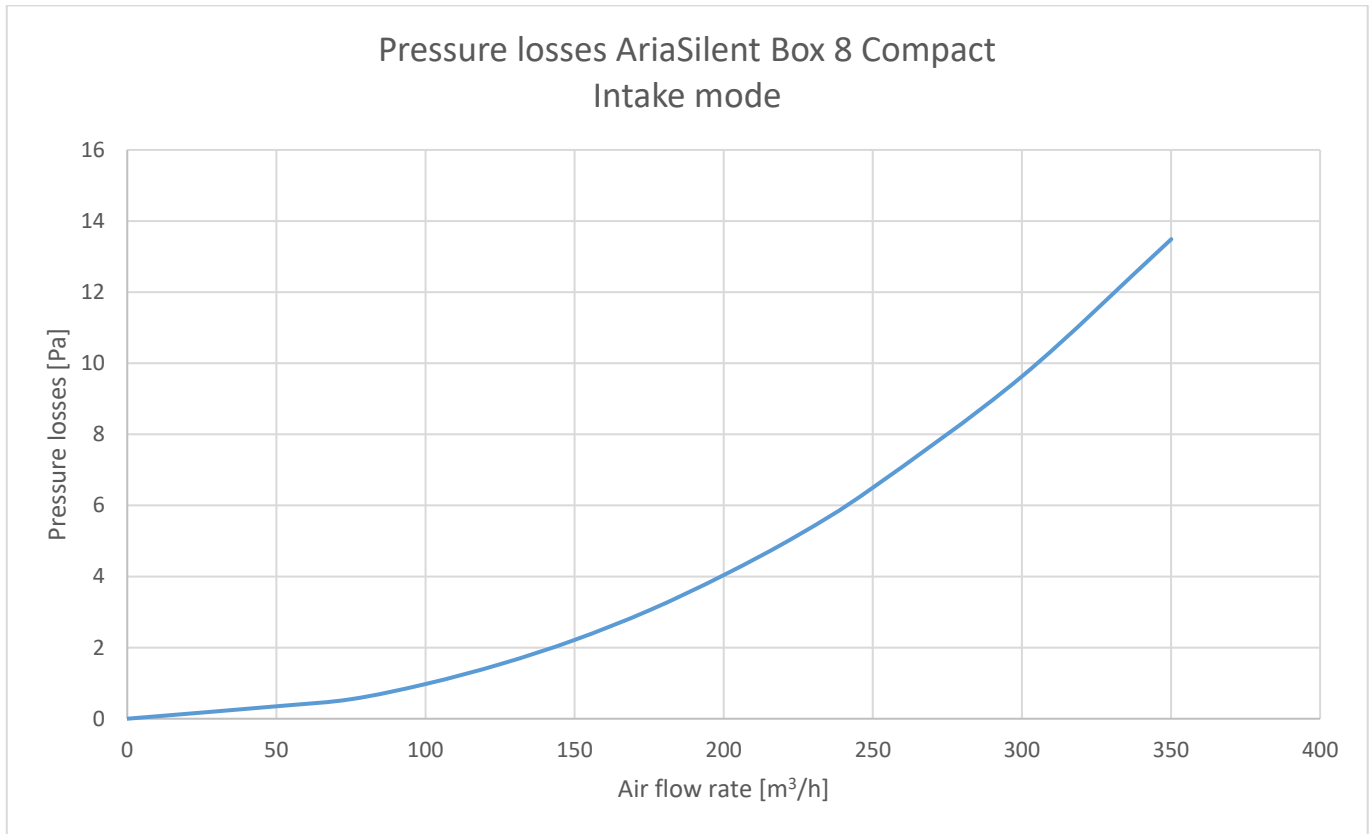
\varnothing_{in}	L ₁	L ₂	H ₁	H ₂	S ₁	S ₂
125-160-180-200	340	306	340	306	110	267

Table: Pressure losses AriaSilent Box 8 Compact



Air flow rate [m ³ /h]	Pressure losses [Pa]	Pressure losses [Pa]
50	< 0,4	0,54
75	0,55	1,01
100	0,98	1,63
125	1,54	2,40
150	2,21	3,35
175	3,05	4,49
200	4,04	5,82
225	5,17	7,39
250	6,49	9,20
300	9,62	13,61
350	13,49	19,28

Graph: Pressure losses AriaSilent Box 8 Compact - Intake mode



Graph: Pressure losses AriaSilent Box 8 Compact - Extraction mode

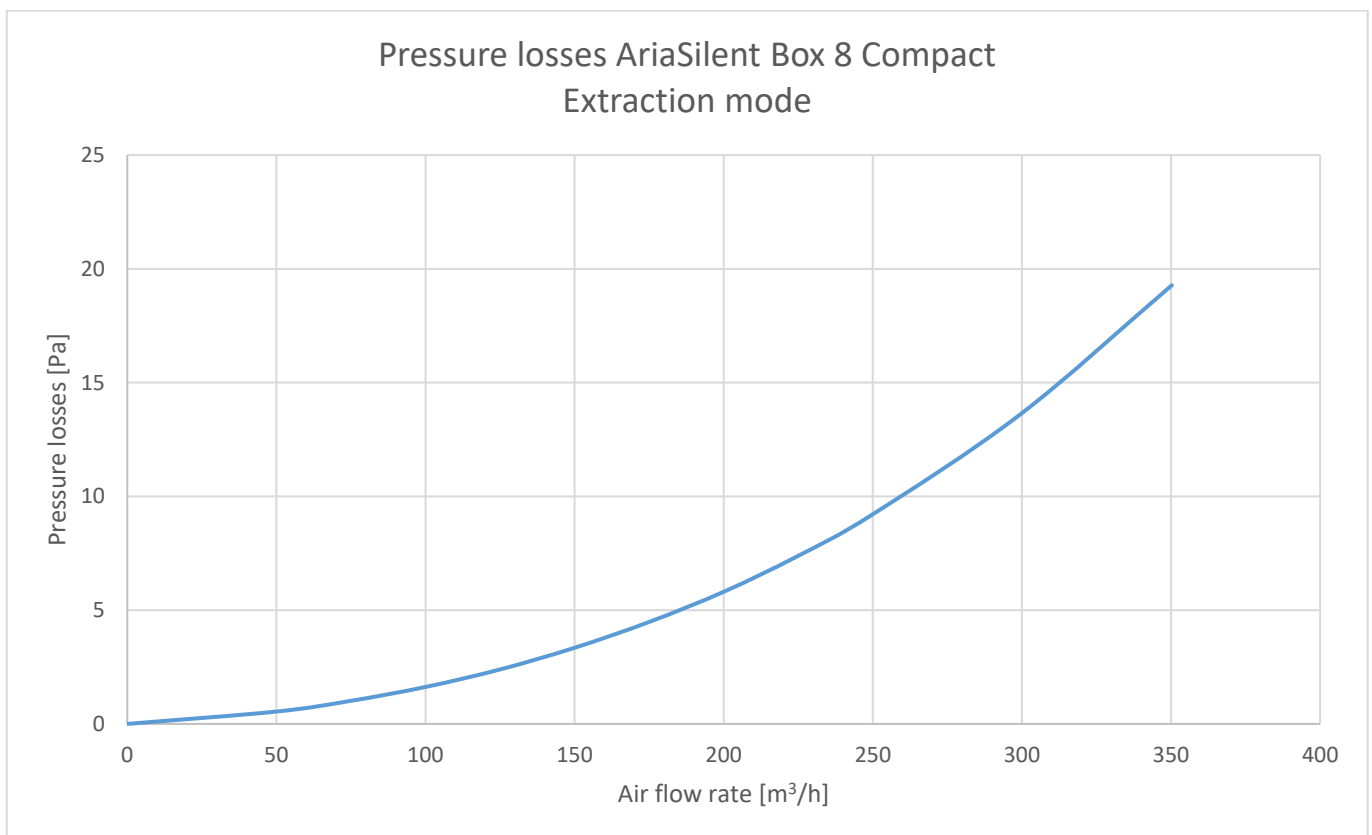
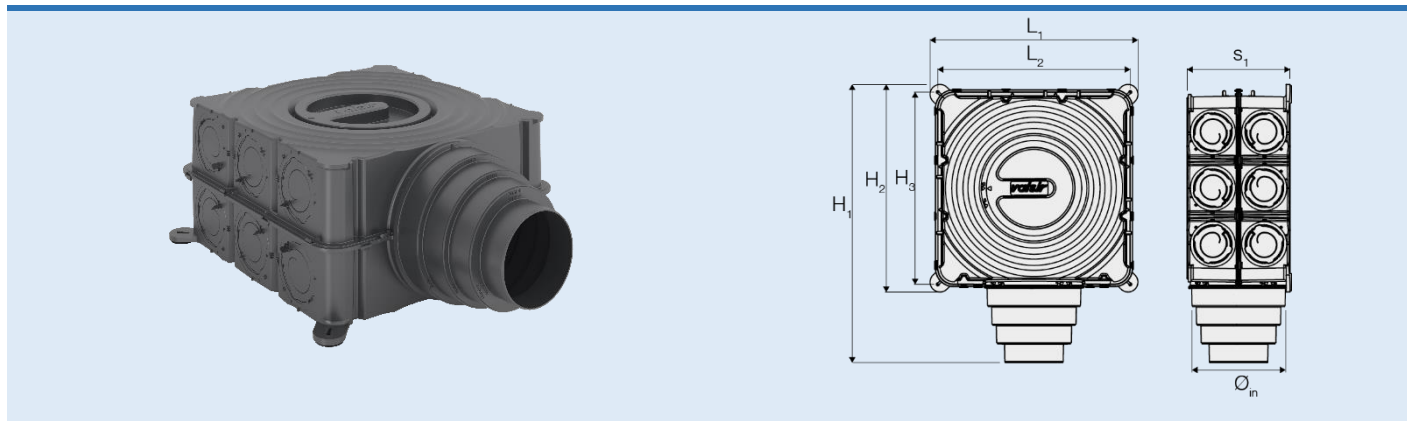


Table: Dimensions AriaSilent Box 18



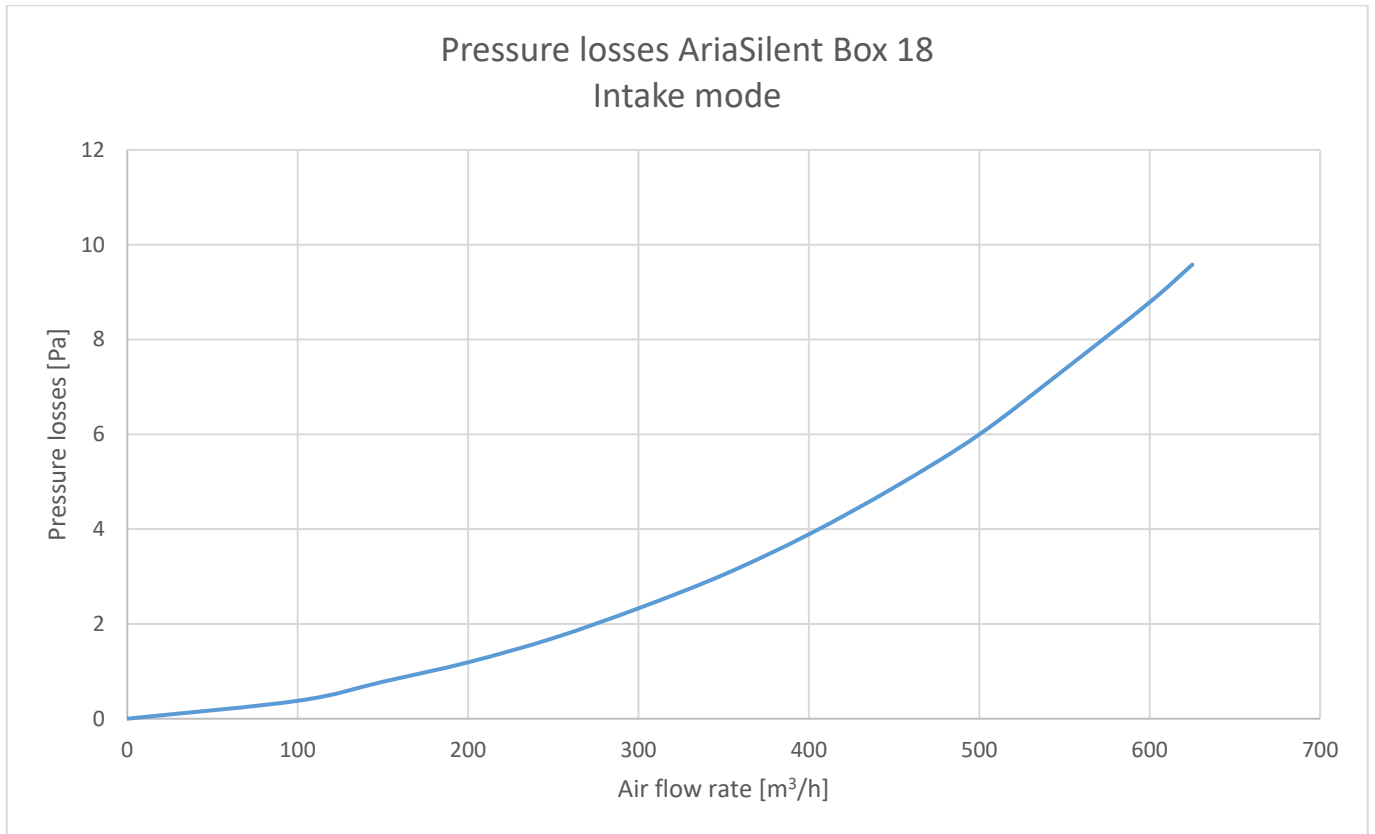
\varnothing_{in}	L ₁	L ₂	H ₁	H ₂	H ₃	S ₁
125-160-180-200	445	412	597	445	412	220

Table: Pressure losses AriaSilent Box 18



Air flow rate [m ³ /h]	Pressure losses [Pa]	Pressure losses [Pa]
100	0,58	< 0,4
150	1,24	0,78
200	2,19	1,19
250	3,37	1,70
300	4,85	2,33
350	6,49	3,04
400	8,41	3,89
450	10,54	4,88
500	12,94	5,99
550	15,46	7,36
600	18,29	8,79
650	19,69	9,58

Graph: Pressure losses AriaSilent Box 18 - Intake mode



Graph: Pressure losses AriaSilent Box 18 - Extraction mode

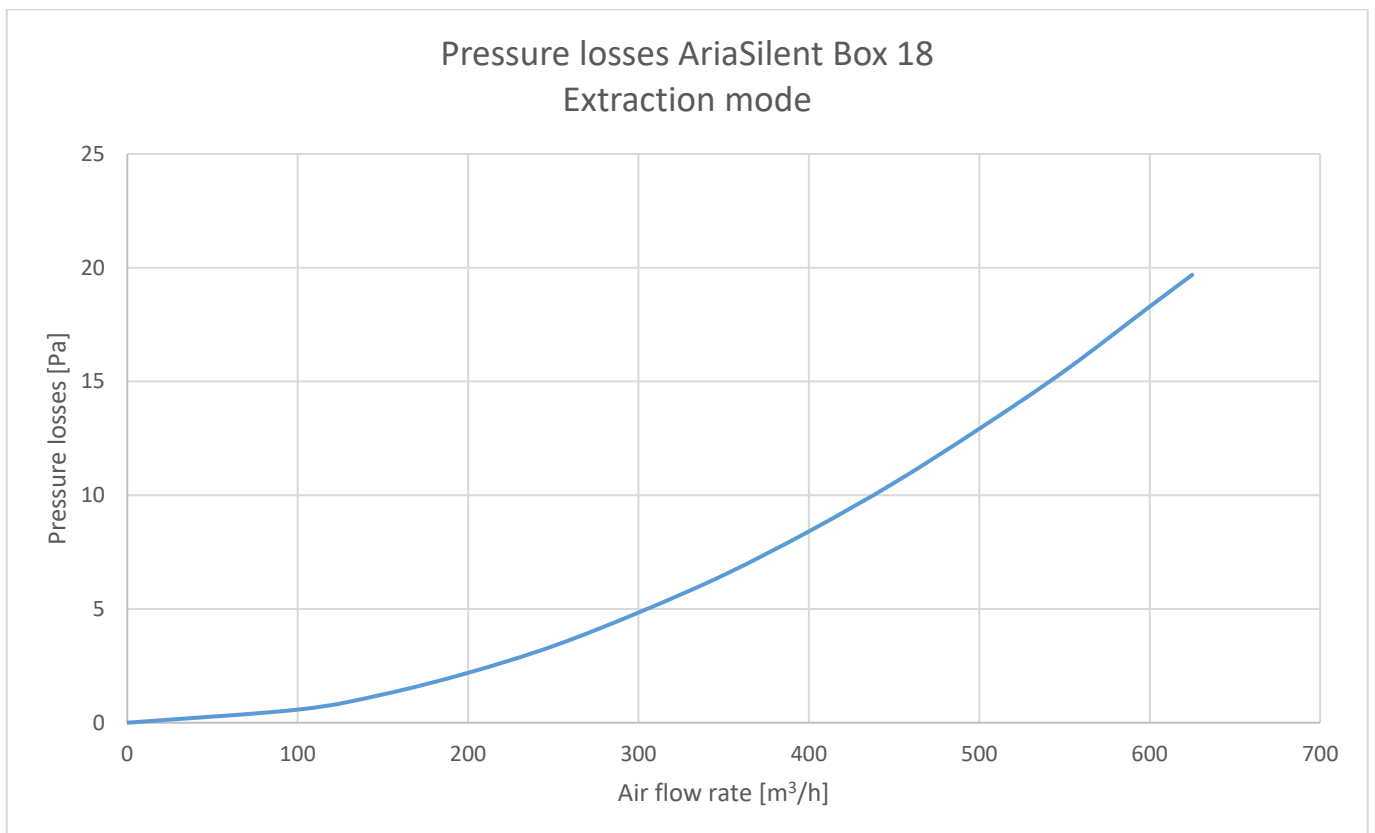
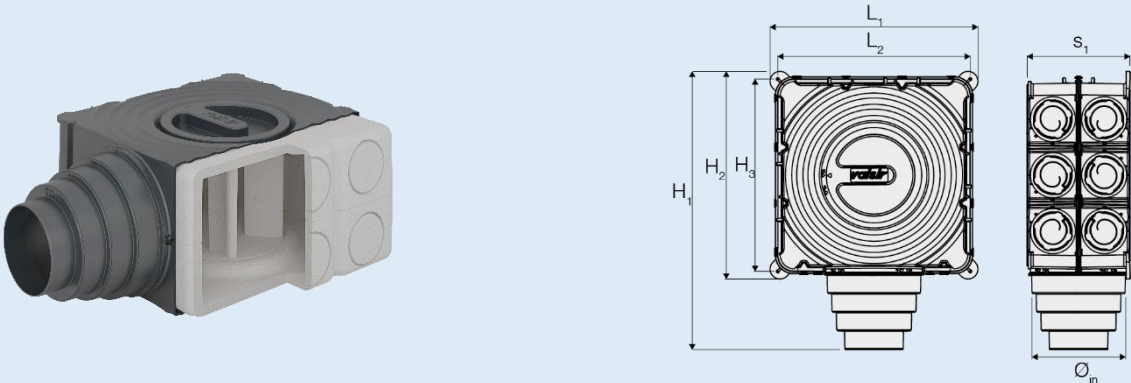
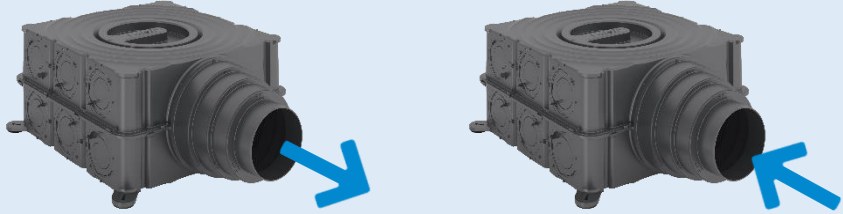


Table: Dimensions AriaSilent Box 18 Therm



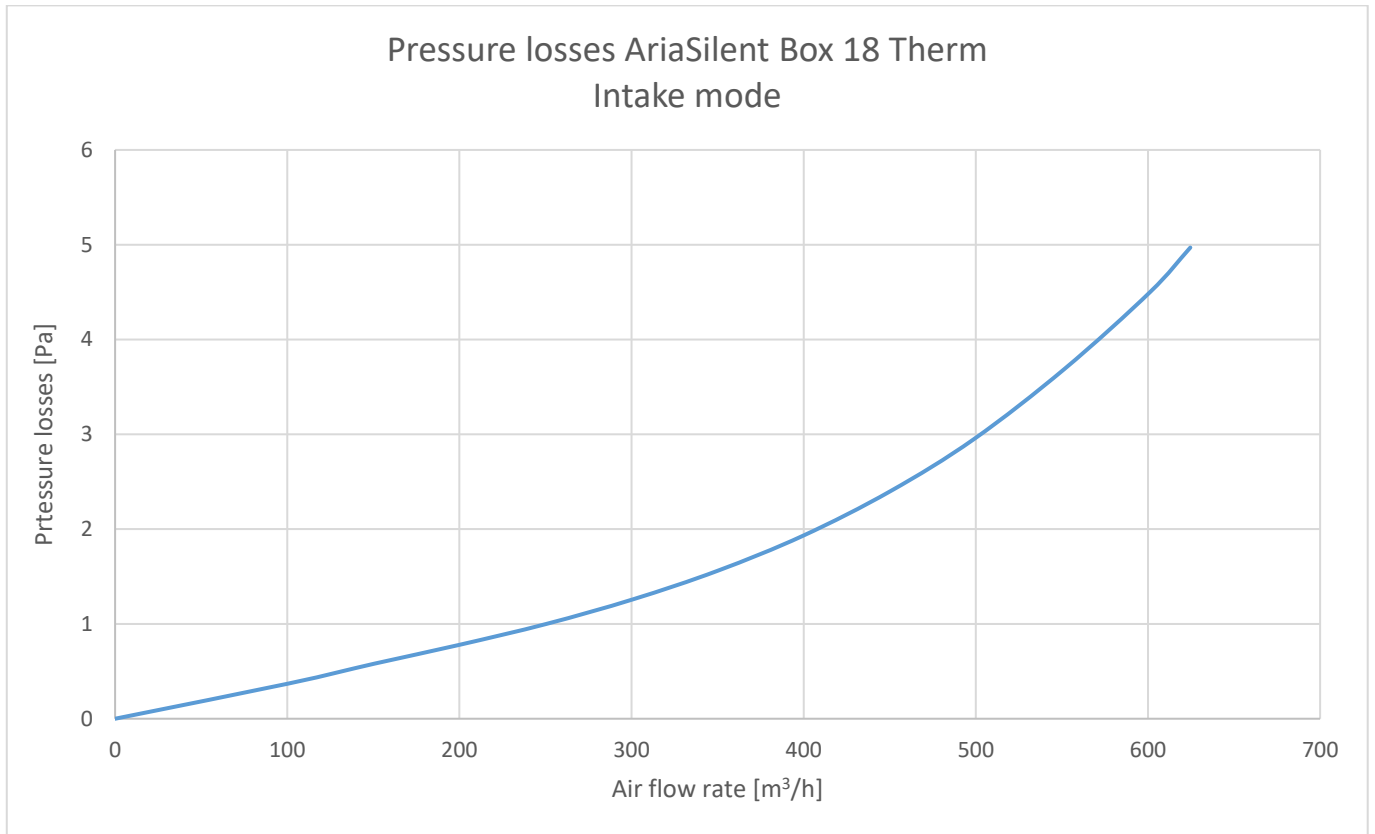
\varnothing_{in}	L ₁	L ₂	H ₁	H ₂	H ₃	S ₁
125-160-180-200	445	412	597	445	412	220

Table: Pressure losses AriaSilent Box 18 Therm



Air flow rate [m ³ /h]	Pressure losses [Pa]	Pressure losses [Pa]
100	0,66	< 0,4
150	1,34	0,58
200	2,27	0,78
250	3,40	1,00
300	4,82	1,26
350	6,40	1,56
400	8,25	1,93
450	10,32	2,40
500	12,68	2,95
550	15,18	3,69
600	18,02	4,50
650	19,45	4,97

Graph: Pressure losses AriaSilent Box 18 Therm - Intake mode



Graph: Pressure losses AriaSilent Box 18 Therm - Extraction mode

