

Zeparo ZI/ZE

Micro bubble, dirt and combined separators Industrial and Extended type



PNEUMATEX

Pressurisation & Water Quality › Balancing & Control › Thermostatic Control

ENGINEERING ADVANTAGE

For applications of all sizes, the Zeparo range offers a complete, reliable solution for problems with air and sludge in heating, solar and chilled water systems – from initial venting to the separation of the tiniest and finest magnetite particles. The helistill separator – a brand new development – makes these products incredibly efficient. The Zeparo Industrial (ZI) and Extended (ZE) have been specially developed by Pneumatex to meet the high demands of large installations, and they have one objective: to achieve an air-free, sludgefree installation without the use of filters, which become clogged or require regular maintenance.



Technical description

Application:

Heating, solar and chilled water systems.

Media:

Non-aggressive and non-toxic system media.
Addition of antifreeze agent up to 50%.

Pressure:

Max. admissible pressure, PS: 10 bar
Min. admissible pressure, PSmin: 0 bar

Temperature:

Max. admissible temperature, TS: 110 °C
Min. admissible temperature, TSmin: -10 °C

Material:

Steel. Color beryllium.

Approvals:

Constructed according to PED/DEP 97/23/EC.

Transportation and storing:

In frostless, dry places.

Volume and Flow

DN	VN [l]		VD [m³/h]	VM [m³/h]
	ZIO...F/S	ZIK...F/S, ZEK...F/S		
50	7	11	8	25
65	7	11	15	42
80	16	23	20	58
100	17	25	30	95
125	27	35	50	147
150	51	67	75	218
200	110	150	125	360
250	210	290	200	575
300	370	500	275	814

VN = Nominal volume

VD = Nominal flow/flow rate

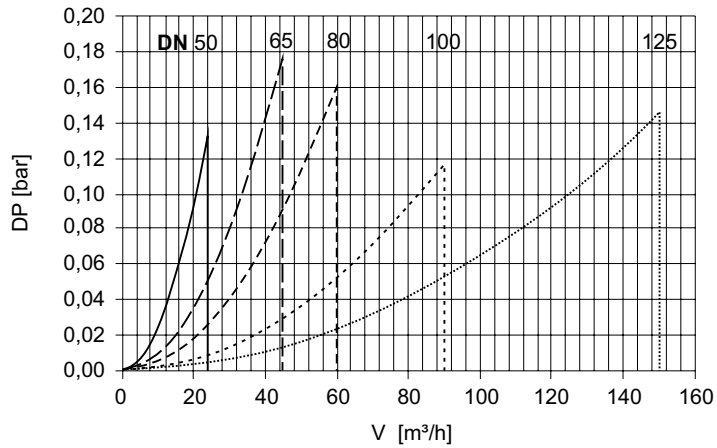
VM = Maximum flow

Diagrams

Approx. pressure loss DP – Separator

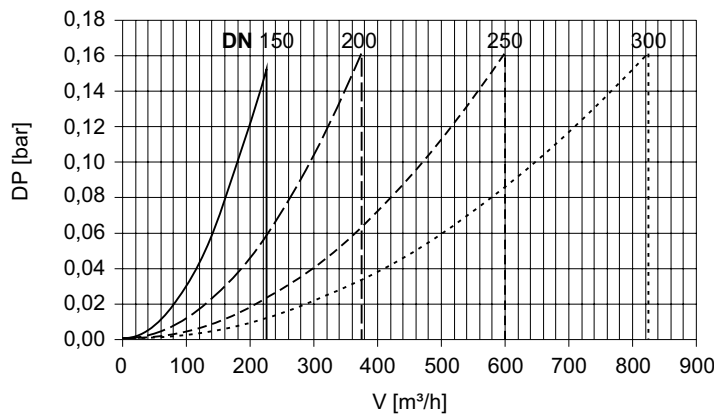
Zeparo ZIO, ZIK, ZEK

DN 50 – DN 125



Zeparo ZIO, ZIK, ZEK

DN 150 – DN 300

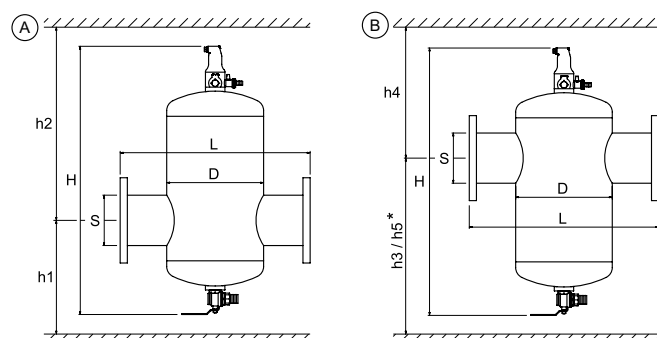


Zeparo DN 50 – DN 300 operation is limited to:

Continuous flow $\leq$ VD,

Intermittant flow $\leq$ VM.

Zeparo ZIO – Version Omni ideal for micro bubbles or sludge particles



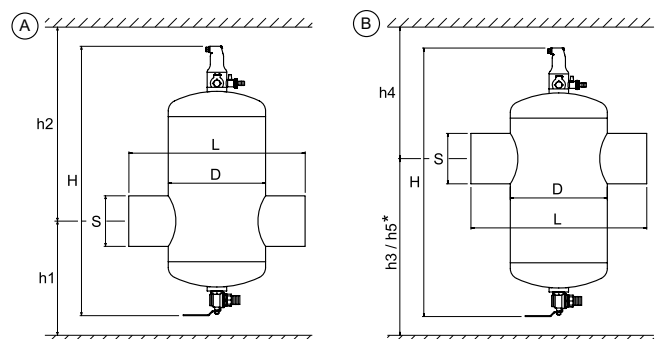
Zeparo ZIO...F

Industrial type.

Flange connection PN 16. Horizontal installation.

A: Separator for micro bubbles **B:** Separator for sludge particles

Type	D	H	h1	h2	h3	h4	h5*	L	[kg]	S	EAN	Article No
										[DN]		
ZIO 50F	168	626	244	452	406	290	596	350	20	50	7640148633062	788 2050
ZIO 65F	168	626	244	452	406	290	596	350	22	65	7640148633079	788 2065
ZIO 80F	219	739	275	534	488	321	663	470	30	80	7640148633086	788 2080
ZIO 100F	219	739	275	534	488	321	663	475	32	100	7640148633093	788 2100
ZIO 125F	324	941	375	636	590	421	780	635	57	125	7640148633109	788 2125
ZIO 150F	324	941	375	636	590	421	780	635	61	150	7640148633116	788 2150
ZIO 200F	406	1169	382	757	711	428	886	775	110	200	7640148633123	788 2200
ZIO 250F	508	1316	445	941	895	491	1070	890	141	250	7640148633130	788 2250
ZIO 300F	610	1556	510	1116	1070	556	1245	1005	255	300	7640148633147	788 2300



Zeparo ZIO...S

Industrial type.

Welding connection. Horizontal installation.

A: Separator for micro bubbles **B:** Separator for sludge particles

Type	D	H	h1	h2	h3	h4	h5*	L	[kg]	S	EAN	Article No
										[DN]		
ZIO 50S	168	626	244	452	406	290	596	336	14	50	7640148633154	788 3050
ZIO 65S	168	626	244	452	406	290	596	336	15	65	7640148633161	788 3065
ZIO 80S	219	739	275	534	488	321	663	456	22	80	7640148633178	788 3080
ZIO 100S	219	739	275	534	488	321	663	461	23	100	7640148633185	788 3100
ZIO 125S	324	941	375	636	590	421	780	619	46	125	7640148633192	788 3125
ZIO 150S	324	941	375	636	590	421	780	619	47	150	7640148633208	788 3150
ZIO 200S	406	1169	382	757	711	428	886	759	91	200	7640148633215	788 3200
ZIO 250S	508	1316	445	941	895	491	1070	874	112	250	7640148633222	788 3250
ZIO 300S	610	1556	510	1116	1070	556	1245	989	217	300	7640148633239	788 3300

*) With optional Magnet Attachment Zeparo ZIMA.

Applications TS > 110 °C, PS > 10 bar upon request.

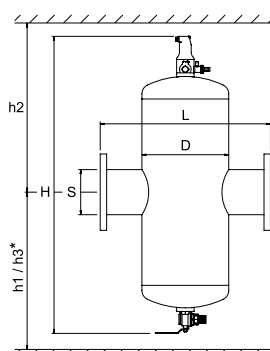
Accessories:

Adaptor Zeparo ZPA

Magnet Attachment Zeparo ZIMA

Thermal insulation Zeparo ZHI

Zeparo ZIK – Version Kombi for micro bubbles and sludge particles

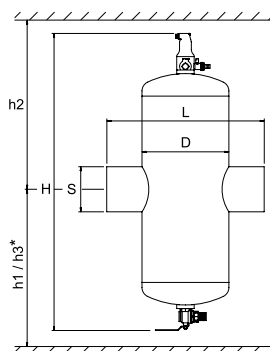


Zeparo ZIK...F

Industrial type.

Flange connection PN 16. Horizontal installation.

Type	D	H	h1	h2	h3*	L	[kg]	S [DN]	EAN	Article No
ZIK 50F	168	773	406	437	596	350	23	50	7640148633246	788 4050
ZIK 65F	168	773	406	437	596	350	25	65	7640148633253	788 4065
ZIK 80F	219	937	488	519	663	470	36	80	7640148633260	788 4080
ZIK 100F	219	937	488	519	663	475	38	100	7640148633277	788 4100
ZIK 125F	324	1141	590	621	780	635	70	125	7640148633284	788 4125
ZIK 150F	324	1141	590	621	780	635	74	150	7640148633291	788 4150
ZIK 200F	406	1383	711	742	886	775	151	200	7640148633307	788 4200
ZIK 250F	508	1751	895	926	1070	890	184	250	7640148633314	788 4250
ZIK 300F	610	2101	1070	1101	1245	1005	340	300	7640148633321	788 4300



Zeparo ZIK...S

Industrial type.

Welding connection. Horizontal installation.

Type	D	H	h1	h2	h3*	L	[kg]	S [DN]	EAN	Article No
ZIK 50S	168	773	406	437	596	336	18	50	7640148633338	788 5050
ZIK 65S	168	773	406	437	596	336	19	65	7640148633345	788 5065
ZIK 80S	219	937	488	519	663	456	28	80	7640148633352	788 5080
ZIK 100S	219	937	488	519	663	461	29	100	7640148633369	788 5100
ZIK 125S	324	1141	590	621	780	619	59	125	7640148633376	788 5125
ZIK 150S	324	1141	590	621	780	619	60	150	7640148633383	788 5150
ZIK 200S	406	1383	711	742	886	759	132	200	7640148633390	788 5200
ZIK 250S	508	1751	895	926	1070	874	156	250	7640148633406	788 5250
ZIK 300S	610	2101	1070	1101	1245	989	302	300	7640148633413	788 5300

*) With optional Magnet Attachment Zeparo ZIMA.

Applications TS > 110 °C, PS > 10 bar upon request.

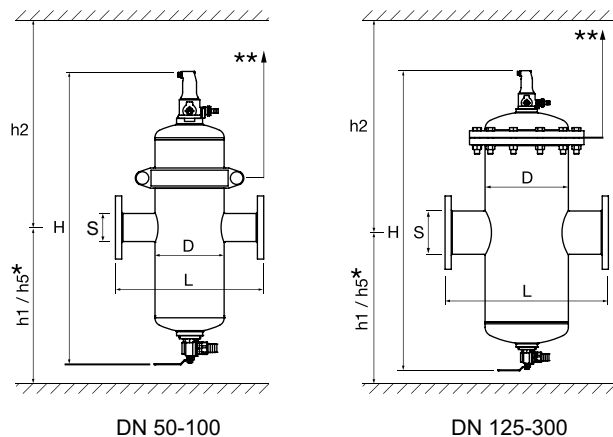
Accessories:

Adaptor Zeparo ZPA

Magnet Attachment Zeparo ZIMA

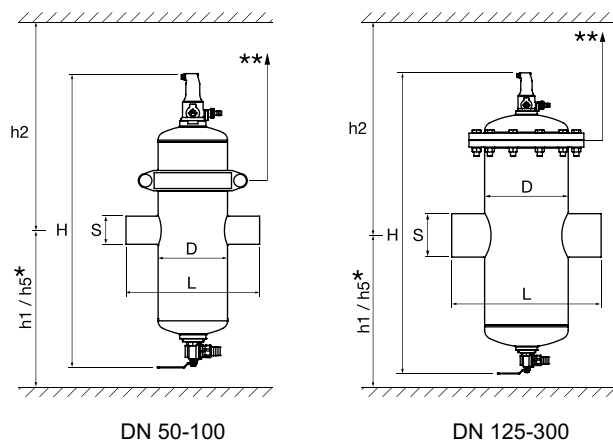
Thermal insulation Zeparo ZHI

Zeparo ZEK – Version Kombi for micro bubbles and sludge particles



Zeparo ZEK...F
Extended type.
Flange connection PN 16. Horizontal installation.

Type	D	H	h1	h2	h3	h4	h5*	L	[kg]	S [DN]	EAN	Article No
ZEK 50F	168	811	506	854	804	477	696	350	26	50	7640148633420	788 6050
ZEK 65F	168	811	506	854	804	477	696	350	27	65	7640148633437	788 6065
ZEK 80F	219	977	588	1066	1016	557	778	470	42	80	7640148633444	788 6080
ZEK 100F	219	977	588	1066	1016	557	778	475	44	100	7640148633451	788 6100
ZEK 125F	324	1189	694	1497	1447	672	884	635	100	125	7640148633468	788 6125
ZEK 150F	324	1189	694	1497	1447	672	884	635	106	150	7640148633475	788 6150
ZEK 200F	406	1449	817	1872	1822	803	1007	775	213	200	7640148633482	788 6200
ZEK 250F	508	1821	999	2326	2276	982	1189	890	277	250	7640148633499	788 6250
ZEK 300F	610	2101	1140	2736	2686	1132	1330	1005	450	300	7640148633505	788 6300



Zeparo ZEK...S
Extended type.
Welding connection. Horizontal installation.

Type	D	H	h1	h2	h3	h4	h5*	L	[kg]	S [DN]	EAN	Article No
ZEK 50S	168	811	506	854	804	477	696	336	20	50	7640148633512	788 7050
ZEK 65S	168	811	506	854	804	477	696	336	21	65	7640148633529	788 7065
ZEK 80S	219	977	588	1066	1016	557	778	456	30	80	7640148633536	788 7080
ZEK 100S	219	977	588	1066	1016	557	778	461	35	100	7640148633543	788 7100
ZEK 125S	324	1189	694	1497	1447	672	884	619	89	125	7640148633550	788 7125
ZEK 150S	324	1189	694	1497	1447	672	884	619	92	150	7640148633567	788 7150
ZEK 200S	406	1449	817	1872	1822	803	1007	759	193	200	7640148633574	788 7200
ZEK 250S	508	1821	999	2326	2276	982	1189	874	248	250	7640148633581	788 7250
ZEK 300S	610	2101	1140	2736	2686	1132	1330	989	412	300	7640148633598	788 7300

*) With optional Magnet Attachment Zeparo ZIMA.

**) The helistill separator can be demounted from the top
Applications TS > 110 °C, PS > 10 bar upon request.

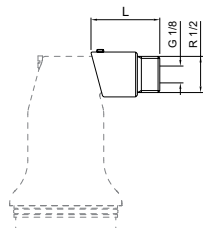
Accessories: Adaptor Zeparo ZPA
Magnet Attachment Zeparo ZIMA
Thermal insulation Zeparo ZHI

Accessories for separators

Adaptor, Magnet Attachment

Heating, solar and cooling water systems.

Addition of antifreeze agent up to 50%.



Zeparo ZPA

Adaptor, for connecting a vent pipe.

Brass.

Female thread and male thread.

Max. admissible temperature, TS: 160 °C

Type	L	[kg]	S	EAN	Article No
ZPA	40	0,2	G1/8-R1/2	7640148633048	789 0010

Zeparo ZIMA

Magnet Attachment. For retrofitting to mounting on site in the range Zeparo ZIO, ZIK and ZEK.

T-branch with magnetic rod and pocket. To increase the magnetite capture.



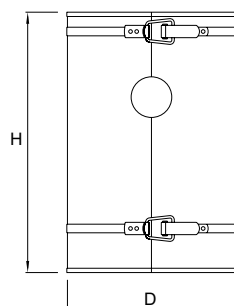
Type	[kg]	EAN	Article No
ZIMA 50-100	3,0		788 0100
ZIMA 125-200	4,3		788 0200
ZIMA 250	5,4		788 0250
ZIMA 300	6,3		788 0300

Thermal insulation

Rockwool 2 part galvanized steel cladding, easy to fit with toggle clamps.

Insulation value approx. 0.040 W/mK.

Fire rating A2 to DIN 4102.

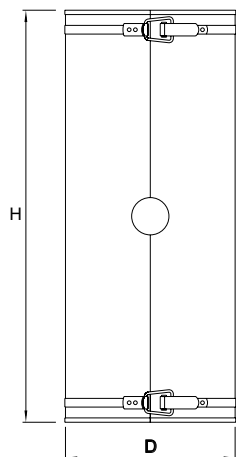


Zeparo ZHI

Thermal insulation for Zeparo ZIO.

Heating water systems.

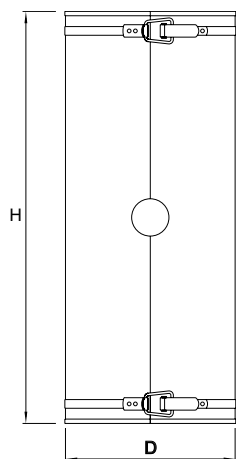
Type	D	H	SD*	[kg]	S [DN]	EAN	Article No
ZHI 50/60 ZIO	278	405	50	3,7	50/60	7640148633642	787 2065
ZHI 80/100 ZIO	349	515	60	7,3	80/100	7640148633659	787 2100
ZHI 125/150 ZIO	453	716	60	14,4	125/150	7640148633666	787 2150
ZHI 200 ZIO	536	840	60	20,9	200	7640148633673	787 2200
ZHI 250 ZIO	630	1089	60	32,5	250	7640148633680	787 2250
ZHI 300 ZIO	738	1329	60	47,6	300	7640148633697	787 2300



Zeparo ZHI

Thermal insulation for Zeparo ZIK.
Heating water systems.

Type	D	H	SD*	[kg]	S [DN]	EAN	Article No
ZHI 50/65 ZIK	278	551	50	5	50/65	7640148633703	787 3065
ZHI 80/100 ZIK	349	710	60	9,9	80/100	7640148633710	787 3100
ZHI 125/150 ZIK	453	916	60	18	125/150	7640148633727	787 3150
ZHI 200 ZIK	536	1147	60	27,5	200	7640148633734	787 3200
ZHI 250 ZIK	630	1515	60	44,3	250	7640148633741	787 3250
ZHI 300 ZIK	738	1887	60	66,8	300	7640148633758	787 3300



Zeparo ZHI

Thermal insulation for Zeparo ZEK
Heating water systems

Type	D	H	SD*	[kg]	S [DN]	EAN	Article No
ZHI 50/65 ZEK	292	512	60	5	50/65	7640148639583	787 4065
ZHI 80/100 ZEK	363	670	70	10,1	80/100	7640148639590	787 4100
ZHI 125/150 ZEK	468	905	70	19,8	125/150	7640148639606	787 4150
ZHI 200 ZEK	591	1166	90	29,5	200	7640148639613	787 4200
ZHI 250 ZEK	690	1526	90	47,5	250	7640148639620	787 4250
ZHI 300 ZEK	788	1821	90	66,8	300	7640148639637	787 4300

*) Insulation thickness

Additional information

Abbreviations and terminology: Datasheet *Planning and calculation*.

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04.2012