

Zeparo Z10



Automatic air vents and separators

Micro bubble, dirt and combined separators
Industrial type

*Engineering
GREAT Solutions*

Zeparo ZIO

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 makes these products incredibly efficient. The Zeparo Industrial (ZI) have been specially developed 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.



Key features

> Cleans and protects the installation

Protects critical investments from malfunction and even failure due to dirt, such as boilers, pumps, valves, chillers, and calorimeter meters. No clogging risk. Reduces maintenance of equipment needed over system lifetime and associated costs.

> Magnet Accessory

Optimizes separation efficiency even further for sludge and magnetite (black iron oxide) deposits which consist of finer magnetic particles. Easy handling and cleaning.

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 / 16 bar - see Articles
Min. admissible pressure, PSmin: 0 bar

Temperature:

Max. admissible temperature, TS:
PN10: 110°C
PN16: 160°C
Min. admissible temperature, TSmin:
PN10, PN16: -10°C

Material:

Steel. Color beryllium.

Connection:

Flanges according to EN 1092-1.

Approvals:

Constructed according to
PED 2014/68/EU.

Transportation and storage:

In frostless, dry places.

Volumes and Flows

DN	VN [l]	qN [m³/h]	qN _{max} [m³/h]
	ZIO...F		
200	110	170	395
250	210	306	618
300	370	435	890
350	461	575	1040
400	750	750	1350
450	974	945	1680
500	1249	1160	2230
600	3098	1685	3440

VN = Nominal volume

qN = Nominal flow/flow rate

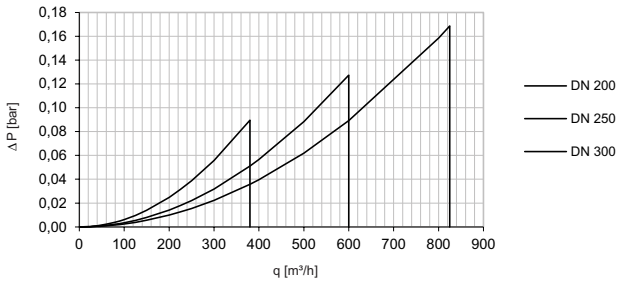
qN_{max} = Maximum flow

Diagrams

Approx. pressure loss (Δp) – Separator

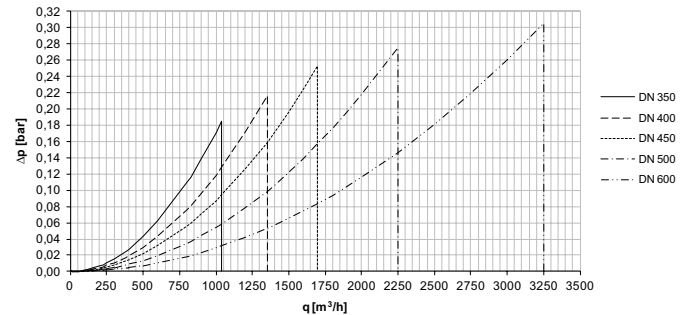
Zeparo ZIO

DN 200 – DN 300



Zeparo ZIO

DN 350 – DN 600

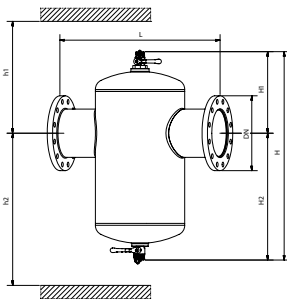


Zeparo DN 200 – DN 600 operation is limited to:

Continuous flow $\leq q_N$

Intermittent flow $\leq q_{N_{max}}$

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Industrial type.

Flanged connection. Horizontal installation.

Dirt and microbubble separator.

PN 10

Type	S [DN]	H	H1	H2	h1	h2	L	q_{nom} [m³/h]	q_{max} [m³/h]	m [kg]	EAN	Article No
ZIO 200F	200	1110	455	660	805	910	775	170	395	95	7640161636637	303020-51500
ZIO 250F	250	1315	480	835	830	1085	890	306	618	139	7640161636644	303020-51600
ZIO 300F	300	1315	520	795	870	1045	1005	435	890	157	7640161636651	303020-51700
ZIO 350F	350	1650	600	1060	950	1310	1050	575	1040	265	7640161636668	303020-51800
ZIO 400F	400	2085	626	1034	976	1284	1150	750	1350	305	7640161636675	303020-51900
ZIO 450F	450	2085	725	1360	1075	1610	1450	945	1680	515	7640161636682	303020-52000
ZIO 500F	500	2085	750	1334	1100	1584	1600	1160	2230	590	7640161636699	303020-52100
ZIO 600F	600	2655	985	1670	1335	1920	1800	1685	3440	720	7640161636705	303020-52200

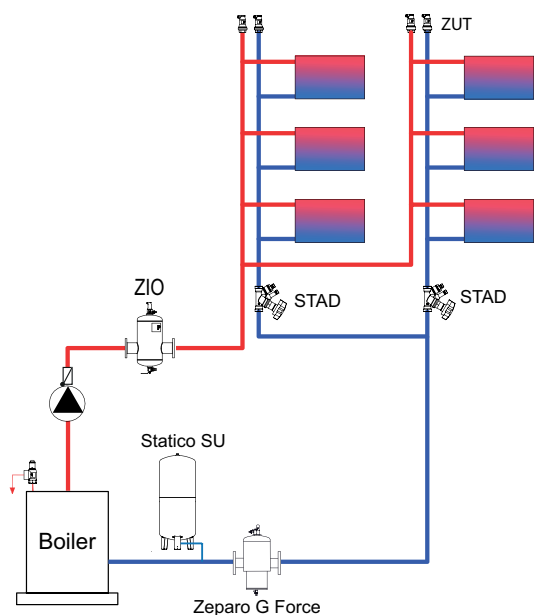
PN 16

Type	S [DN]	H	H1	H2	h1	h2	L	q_{nom} [m³/h]	q_{max} [m³/h]	m [kg]	EAN	Article No
ZIO 200F	200	1145	430	715	780	965	775	170	395	125	7640161628540	793 6200
ZIO 250F	250	1380	500	880	850	1130	890	306	618	240	7640161628557	793 6250
ZIO 300F	300	1660	620	1040	970	1290	1005	435	890	405	7640161628564	793 6300
ZIO 350F	350	1660	615	1045	965	1295	1050	575	1040	415	7640161628571	793 6350
ZIO 400F	400	2080	710	1370	1060	1620	1150	750	1350	695	7640161628588	793 6400
ZIO 450F	450	2180	735	1445	1085	1695	1450	945	1680	860	7640161628595	793 6450
ZIO 500F	500	2510	865	1645	1215	1895	1600	1160	2230	1035	7640161628601	793 6500
ZIO 600F	600	2955	1000	1955	1350	2205	1800	1685	3440	1750	7640161628618	793 6600

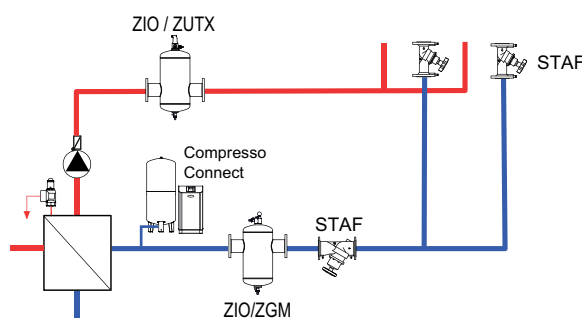
Applications TS > 110 °C, PS > 10 bar upon request.

Application examples

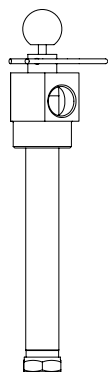
System with boiler



System with heat exchanger



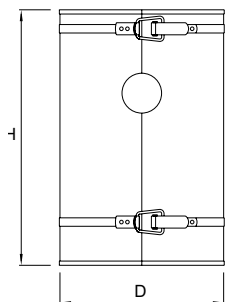
Accessories for separators



Zeparo ZGM

Magnet Attachment. For retrofitting to mounting on site in the Zeparo ZIO range. T-branch with magnetic rod and pocket. To increase the magnetite capture.

Type	m [kg]	m [kg] (incl. magnet)	EAN	Article No
ZGM 200-300	3.0	4.0	7640161634794	303051-11500
ZGM 350-450	3.3	4.4	7640161636965	303051-12000
ZGM 500-600	3.5	4.8	7640161636972	303051-12300



Zeparo ZHI

Thermal insulation for Zeparo ZIO. Heating water systems. 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.

Type	D	H	SD*	m [kg]	S [DN]	EAN	Article No
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

*) Insulation thickness