

SPIROTRAP[®]



DIRT SEPARATORS
HIGH VELOCITY



SPIROTHERM

THE ULTIMATE IN DISTRIBUTION EFFICIENCY

CLEAN SYSTEM WATER THROUGHOUT THE LIFE OF THE INSTALLATION

The life and efficiency of a large volume fluid system is greatly dependent on clean system water. Dirt can cause many problems, such as increased component wear and frequent breakdowns. Reduced efficiency, corrosion, pump and control valve wear result in increased maintenance, unnecessary costs and dissatisfied customers. Traditionally, strainers or filters which operate under high pressure losses are installed in a sidestream to deal with dirt problems. However, these require frequent maintenance and, if not cleaned on a regular basis, cause even lower flow rates and, eventually, blockages.

There is a solution!

A large volume fluid system without dirt is possible! There is a unique device which will remove dirt down to the smallest particle. It works continuously and is low-maintenance. Less maintenance, fewer costs, satisfied owners!

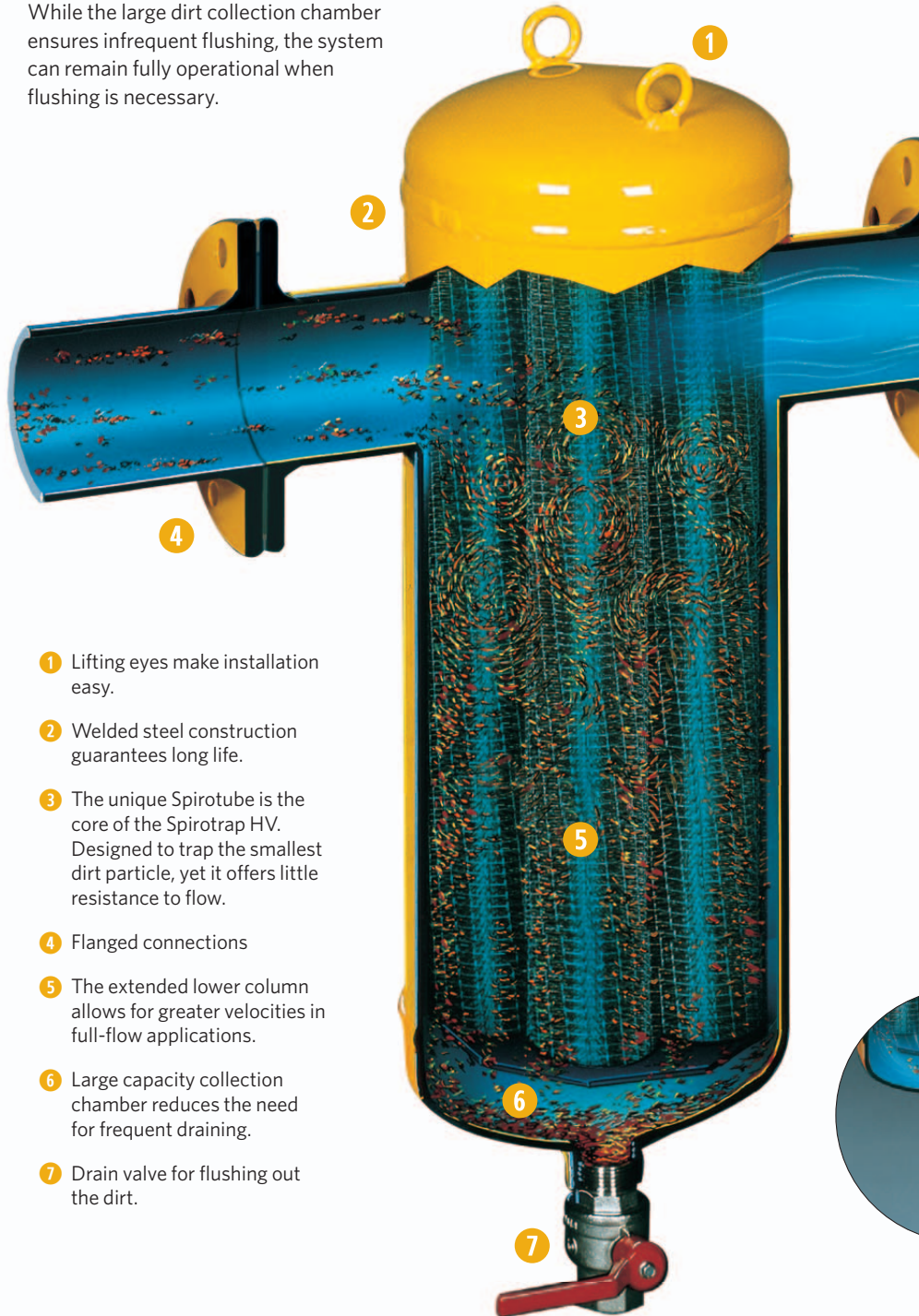
The name:

SPIROTRAP HV



THE KEY DIFFERENCE

The unique construction of the Spirotrap HV allows for the removal of dirt particles of all sizes. The Spirotube®, the core of the Spirotrap HV, creates a low velocity area, which forces the dirt particles to sink to the dirt collection chamber at the bottom of the unit. Because the dirt is collected outside the main flow, blockages do not occur, and the Spirotrap HV's pressure drop remains constant. While the large dirt collection chamber ensures infrequent flushing, the system can remain fully operational when flushing is necessary.



- 1 Lifting eyes make installation easy.
- 2 Welded steel construction guarantees long life.
- 3 The unique Spirotube is the core of the Spirotrap HV. Designed to trap the smallest dirt particle, yet it offers little resistance to flow.
- 4 Flanged connections
- 5 The extended lower column allows for greater velocities in full-flow applications.
- 6 Large capacity collection chamber reduces the need for frequent draining.
- 7 Drain valve for flushing out the dirt.

THE ULTIMATE IN DISTRIBUTION EFFICIENCY

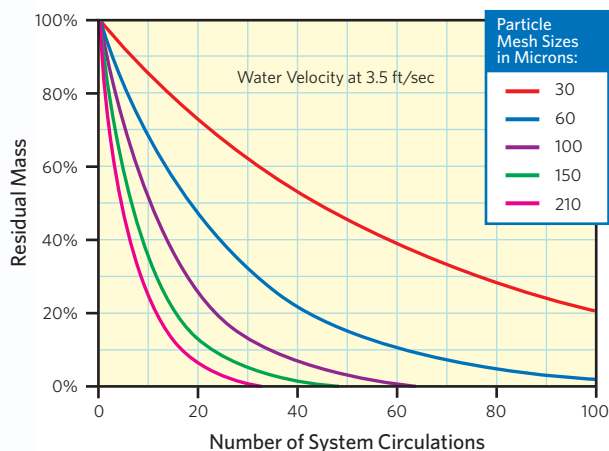


ADVANTAGES TO THE SPECIFIER, INSTALLER AND OWNER

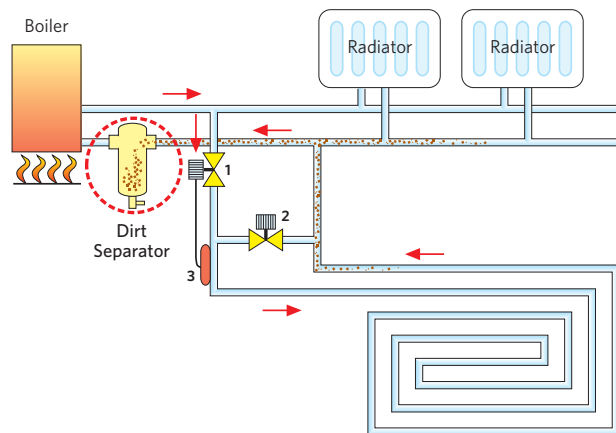
- No change to piping design selection required. HV units often match pipe size.
- Larger shell and increased barrier medium provide high efficiency.
- Exclusively designed for full-flow high velocity systems such as central plants and district heating/cooling.
- Virtually no maintenance and no replacement filters.
- Dirt can be flushed while system is fully operational.
- All dirt can be removed in one central location in the equipment room.
- Will not block the flow.
- Minimum pressure drop, always constant.
- Optional removable head for bundle inspection.

The Spirotrap HV (High Velocity) dirt eliminator was developed especially for large volume fluid systems where higher velocities are found. It allows a maximum entering water velocity of up to 10' per second and, like the standard Spirotrap dirt eliminator, the Spirotrap HV can remain fully operational during cleaning. Furthermore, the Spirotrap HV requires no replacement parts!

DIRT SEPARATION EFFICIENCY

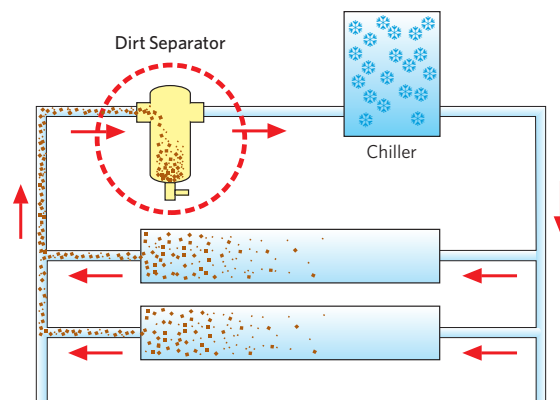


When the drain valve is opened the system pressure flushes out the collected dirt. This only takes a few seconds.



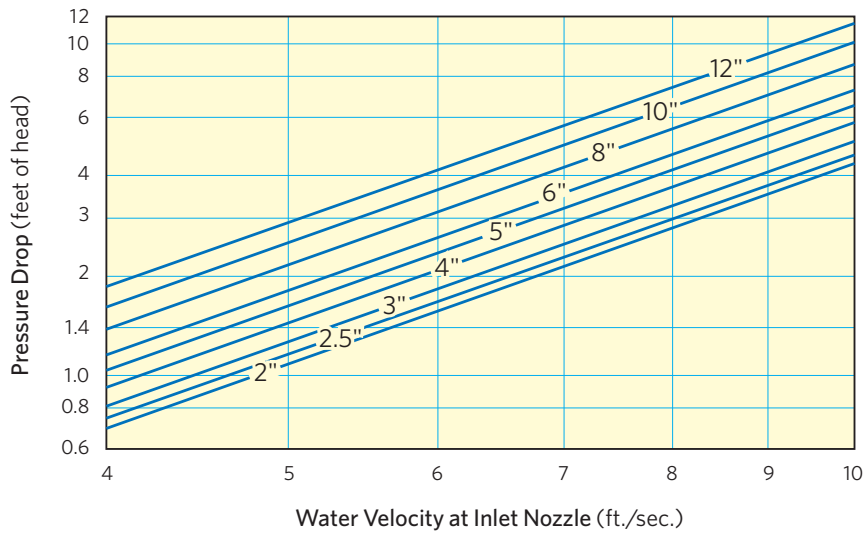
THE BENEFITS ARE CLEAR

The Spirotrap HV is so much more than your traditional separator! The unique construction of the Spirotrap HV dirt separator allows for quick and easy dirt removal while the system remains operational, whereas traditional products need to be taken apart for cleaning. No more isolating, no more draining, no more air! The patented Spirotube, the core of the Spirotrap HV, allows dirt particles to sink to the bottom, eliminating any blockage concerns. There are no strainers, filters or replacement parts to get clogged! Flow remains constant, without high pressure drop. Furthermore, the Spirotrap HV is cost-effective in full-flow applications without the need for sidestream piping. Clearly beneficial, clearly Spirotrap HV!



*For more detailed technical information, ask about our Spirotism booklet.

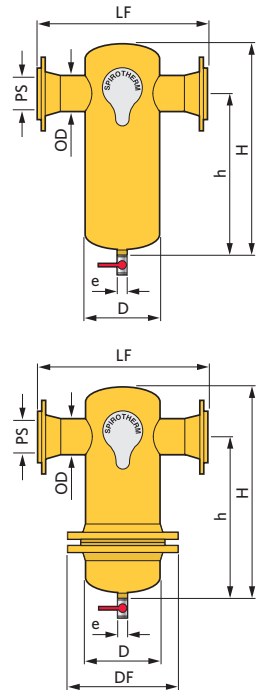
PRESSURE DROP



TECHNICAL SPECIFICATIONS

SPIROTRAP HV SENIOR

DIRT Part Number		THT200	THT250	THT300	THT400	THT500	THT600	THT800	THT1000	THT1200
DRAIN Part Number		THN200	THN250	THN300	THN400	THN500	THN600	THN800	THN1000	THN1200
Pipe Size	Inch	2	2.5	3	4	5	6	8	10	12
O.D.	Inch	2.375	3	3.5	4.5	5.5	6.625	8.625	10.75	12.75
D	Inch	6.3	6.3	8.6	8.6	12.8	12.8	16.0	20.0	24.0
DF	Inch	11.2	11.2	13.4	13.4	18.1	18.1	22.8	28.1	33.1
H	Inch	21.3	21.3	27.4	27.4	37.2	37.2	47.8	63.6	75.8
h	Inch	16.9	16.5	21.7	21.3	29.7	29.1	37.6	51.2	61.0
LF	Inch	15.2	15.7	20.2	20.6	27.7	27.7	33.6	37.5	42.5
e	NPT	1"	1"	1"	1"	1"	1"	1"	1"	1"
Volume	Gal.	2.2	2.2	5.9	5.9	18.3	18.3	37.6	78.6	135.9
Weight: Dirt	Lb.	69	75	120	141	242	277	427	730	1250
Weight: Drain**	Lb.	107	150	202	233	325	355	686	990	1483
Max. Flow*	GPM	105	155	225	405	630	910	1610	2450	3500



*Approximately 10 ft. per second inlet velocity.

**Spirotrap HV Drain models feature a removable lower head to facilitate cleaning.

All Spirotraps can be fabricated and stamped in accordance with ASME Section VIII, Division 1 for unfired pressure vessels upon request.

Standard rating is 150 psi at 270°F. Consult local sales office for special requirements.

Custom dimensions available for space limitations.

Refer to web site Submittal Data for higher flows and models up to 36\".