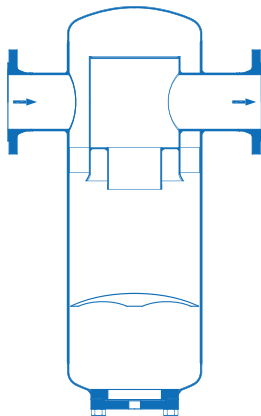
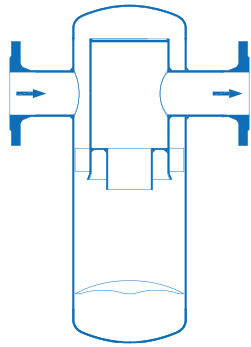




RIFOdry Dryer / Separator

5020 - 5220

PN 6 - 40



Housing Material:

- S235JR+N; P235GH-TC1

Nominal diameters: DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250

Connections:

- Flanges DN 15-250, acc. DIN EN 1092-1, PN16/40
- Flanges 1/2"-10", acc. ANSI B 16.5, Class 150 & 300
- Female thread G 1/2"-4" (BSP) acc. DIN ISO 228
- Female thread 1/2"-1 1/4" NPT acc. ANSI B 1.20.1
- Butt weld DN 15-250 acc. DIN EN 12627 as ANSI B 16.25
- Socket weld DN 15-250 acc. DIN EN 12760 as ANSI B 16.11

Nominal pressure stage: PN 6 - 40

Volume: varied

Operation-Limits: varied

Media: Steam, compressed air, compressed gas.

Function: A control device makes the medium loaded with liquid swirled and rotating with high peripheral speed in the separating chamber thus producing centrifugal forces which eject the specifically heavier particles like condensate, dirt etc. The separated particles glide on the tank wall over to the collecting chamber. The purified gas goes from the separator over to a central submerged pipe fitted with a blade ring with detaching edge preventing the liquid from running into the submerged pipe. The collecting room is shielded such as to prevent the separated liquid from being whirled up and entrained. The collecting room can be automatically evacuated by a Rifomat float trap.

Special characteristics: Heavy-duty cyclone separators were developed within the scope of scientific cyclone researches. Within a gas speed range (measured in the smoke tube) from 2–18 m/sec., the separators work trouble-free and ensure a nearly complete separation despite of both extreme gas fluctuations and different liquid amounts. In case of a high gas speed, finest droplets (from 3 to 5 microns) are ejected unlike the lower speed where the liquid turns to greater drops which are easily to be separated. Fog effects the separation to be nearly complete. The separators don't need to be maintained and have neither a filling nor a filter insert.

Installation:

- Directly in the pipeline before the consumer

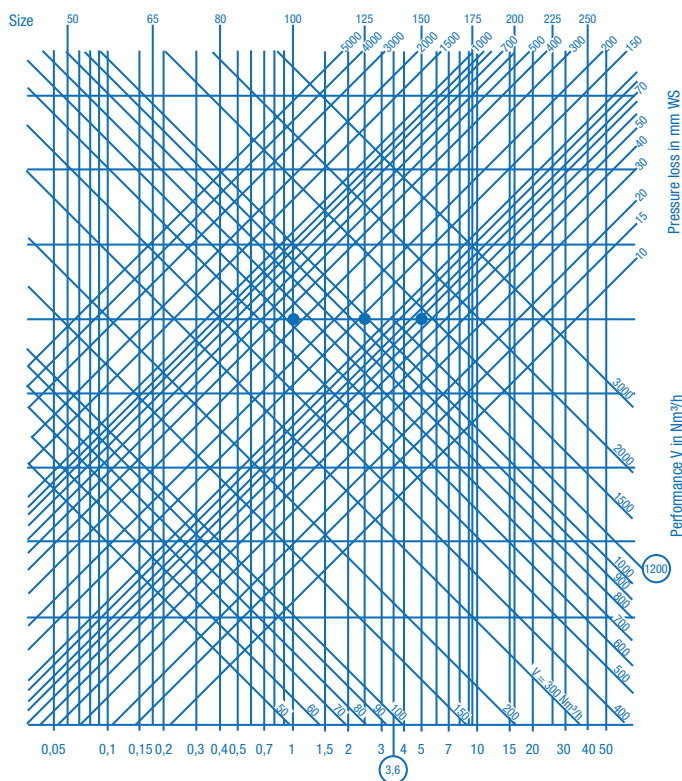
As option at additional charge:

- Rifomat float trap for automatic drain
- For higher pressure and temperature
- Special inspection (e.g. foreign rules)
- With brackets or feet
- Add. connections (e.g. scavenger connection)
- Housing flange for opening the dryer
- With special surface protection (e.g. galvanised)
- With sight glass
- Further special designs possible

Select chart for Separator

(Only for air at 20°C)

Pipe diameter in mm = Separator size



Effective gas density q in kg/m^3

For other gases: Gas density = $1,2 \times \text{pressure}$
and the pressure loss divided by $\frac{1,2}{\text{effective gas density}}$

Example: 1200 Ncbm/h air, 3 bar = effect. density 3,6 kg/m^3

Dryer size 100, pressure loss 325 mm WS

Dryer size 125, pressure loss 135 mm WS

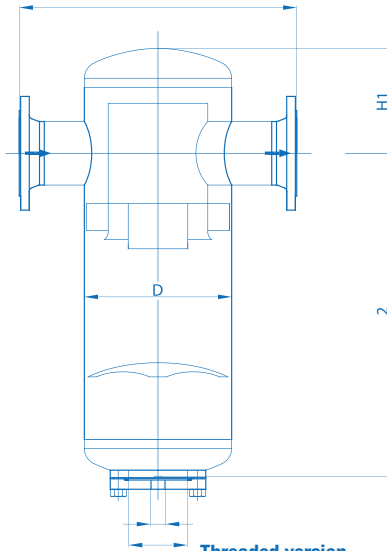
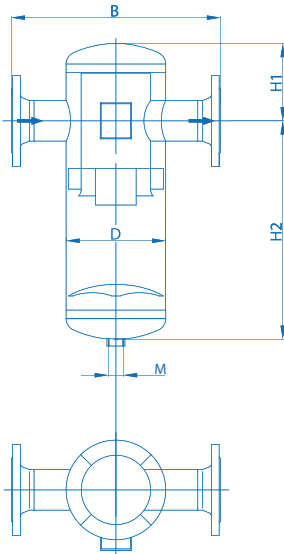
Dryer size 150, pressure loss 65 mm WS



Installation Dimensions

5020 - 5220

PN 6 - 40



- bar g = allowable housing pressure by max. 120°C
- NW = nominal size connection
- G-Ltr. = Volume (up to 200 liters** approval by TÜV).
- S-Ltr. = volume collecting chamber
- kg = weight approx
- * = flange connection against extra price
- ** = for media group two, up to 50 pressure volume for media group one
- R = inspection port

Tolerances acc. to DIN 28005

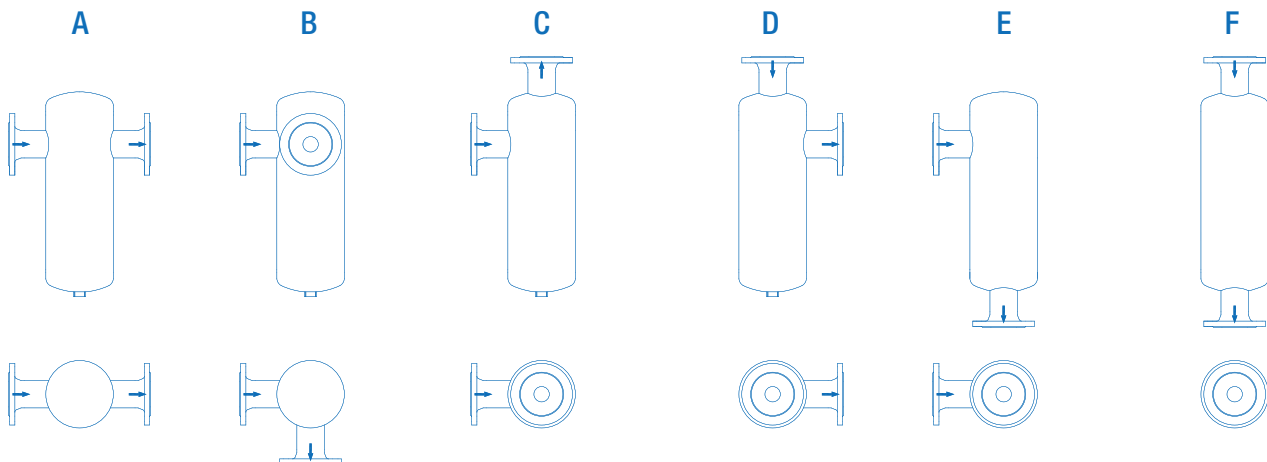
DN	15	20	25	32	40	50	65	80	100
D	63,5	63,5	101,6	101,6	127	152,4	177,8	219,1	267
H1	90	90	100	100	110	130	140	170	190
H2	360	360	360	450	450	450	480	480	610
B	120	120	160	170	190	230	270	330	380
M	1/2"	1/2"	1"	1"	1"	1"	1"	1"	1"
bar ü	25	25	25	25	16	16	16	16	16
NW	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
G-Ltr.**	1,1	1,1	3,2	3,9	6	8,9	13	22	40
S-Ltr.	0,4	0,4	0,9	1,7	2,3	3,0	3,4	3,3	8,8
Kg	2,6	2,8	5,5	6,5	10	15	16	22	32

Threaded version

Flanged version

DN	15	20	25	32	40	50	65	80	100	125	150	175	200	225	250
D	63,5	63,5	101,6	101,6	127	152,4	177,8	219,1	267	323,9	368	419	500	550	600
H1	90	90	100	100	110	130	140	170	190	230	240	280	290	330	355
H2	360	360	360	450	450	450	480	480	610	710	810	960	980	1210	1300
B	200	210	240	260	340	360	400	460	520	610	700	860	900	950	990
R	-	-	-	-	-	-	-	-	-	DN129	DN129	DN129	DN129	DN129	DN129
M	1/2"	1/2"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
bar g	25	25	25	25	16	16	16	10	8	7	6	6	6	6	6
NW	15	20	25	32	40	50	65	80	100	125	150	200	200	250	250
G-Ltr.**	1,1	1,1	3,2	3,9	6	8,9	13	22	40	71	103	157	228	337	433
S-Ltr.	0,4	0,4	0,9	1,7	2,3	3	3,4	3,3	8,8	11	16	26	35	65	80
Kg	4,1	4,9	8,1	10,3	13	19	21	26	37	56	71	118	134	175	197

Construction / Installation Examples



- no spare parts up to an including size 100 available
- up to size 125 is a housing gasket available

To ensure correct parts delivery, please specify part number, medium, operating pressure, operating temperature, performance, nominal diameter and construction.