

GDM

Filter Housing



CLEAN
AIR



POWER
GENERATION



CLEAN
ROOM



INDUSTRIAL

GDM filter housings are standardised modular casings, designed to fit all MANN+HUMMEL bag filters, all types of compact filters and most carbon filter cassettes.

Constructed in standard form from galvanised steel for strength and durability, GDM can also be supplied in epoxy-coated or stainless steel. The hinged door hatch is equally robust and is fitted with sturdy, ergonomic locking handle. Points for differential pressure measurements are provided as standard.

KEY FACTS

- Modular design: For seamless integration with a variety of operational environments
- Parallelogram fitted filters: Ensures absolutely air tight filter installation
- Constructed from galvanised steel: For excellent strength and rigidity
- Side access and inspection door: Simplifies filter install and maintenance
- Compatible with the entire product range G3-F9 and most carbon filters: For simple installation and utmost flexibility



GDM Filter Housing and Available Variants

GDM FILTER HOUSING

The GDM filter housing is produced in sections of galvanized steel sheet. As standard it comes uninsulated or insulated with double-walls and intermediate insulation (EI 30). The airtight side-access inspection door moves on hinges and is equipped with solid handles (as option with lock). Differential pressure connections for pressure drop measurements with pressure gauge are standard. The filters are fitted with a parallelogram that ensures absolute air-tightness. Both flange and PG joint duct connections are available.

The GDM housing is as option also available in stainless steel or epoxy coated.



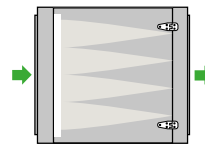
The filter cassette is installed from the side-access inspection door



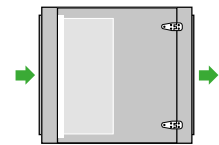
The fitting of the air filter with parallelogram towards the gasket ensure airtightness

AVAILABLE VARIANTS

GDM-FK-S for bag filters G2-F9

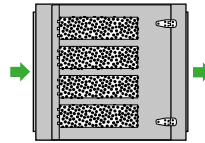


GDM-FK-K for compact filter F6-F9 and carbon filter AFP-AZ



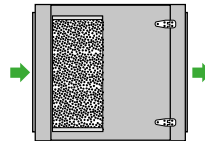
GDM-FK is designed for various types of filter cassettes. The filters are fitted into the casing through the side-access hatch and pressed with the parallelogram towards the gasket for efficient tightening. The inspection door can only be closed with the handle in locked position, which guarantee air-tightness.

GDM KK-C for Scandsorb carbon cylinders



GDM KK-C is designed for Scandsorb cylinders filled with activated carbon or the impregnated spheres Unisorb Mark 2. The cylinders are fitted with bayonet joints on to the mounting plate inside the housing. The intermediate gasket ensures air-tightness. The cylinders can be refilled with carbon.

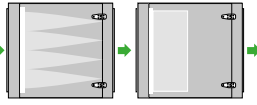
GDM KK-TK for Odorex carbon cassettes



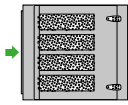
GDM KK-TK is designed for Odorex carbon filter cassettes type CF1 and CF2. The Odorex cassettes are fitted in the same way as the other filter cassettes with parallelogram. The Odorex filters are exchangeable cassettes with a galvanized steel sheet casing.

GDM – Technical Data

GDM-FK-S
GDM-FK-K



GDM KK-C

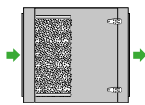


Dwelling time:

Carbon - 0.12 secs
Unisorb. - 0.6 secs

Size	No. of Filters, Module			Nominal Flow (m³/s)	No. of Cylinders	Activated Carbon (l)	Nominal Flow (m³/s)	Unisorb Spheres (litre)	Nominal Flow (m³/s)
	1/4 *)	1/2	1/1						
0.5x0.5	1	-	-	0.24	4	16	0.14	16	0.028
0.5x1	-	1	-	0.47	8	32	0.28	32	0.055
0.5x1.5	1	1	-	0.71	12	48	0.42	48	0.084
0.5x2	-	2	-	0.94	16	64	0.56	64	0.11
0.5x2.5	1	2	-	1.18	20	80	0.70	80	0.14
0.5x3	-	3	-	1.41	24	96	0.84	96	0.16
1x0.5	-	1	-	0.47	8	32	0.28	32	0.055
1x1	-	-	1	0.94	16	64	0.56	64	0.11
1x1.5	-	1	1	1.41	24	96	0.84	96	0.16
1x2	-	-	2	1.88	32	128	1.12	128	0.21
1x2.5	-	1	2	2.35	40	160	1.40	160	0.27
1x3	-	-	3	2.82	48	192	1.68	192	0.32
1.5x0.5	1	1	-	0.71	12	48	0.42	48	0.084
1.5x1	-	1	1	1.41	24	96	0.84	96	0.16
1.5x1.5	1	2	1	2.12	36	144	1.26	144	0.24
1.5x2	-	2	2	2.82	48	192	1.68	192	0.32
1.5x2.5	1	3	2	3.53	60	240	2.10	240	0.40
1.5x3	-	3	3	4.23	72	288	2.52	288	0.48
2x0.5	-	2	-	0.94	16	64	0.56	64	0.11
2x1	-	-	2	1.88	32	128	1.12	128	0.21
2x1.5	-	2	2	2.82	40	160	1.40	160	0.27
2x2	-	-	4	3.76	64	256	2.24	256	0.42
2x2.5	-	2	4	4.70	80	320	2.80	320	0.53
2x3	-	-	6	5.64	96	384	3.36	384	0.64
2.5x0.5	1	2	-	1.18	20	80	0.70	80	0.14
2.5x1	-	1	2	2.35	40	160	1.40	160	0.27
2.5x1.5	1	3	2	3.53	60	240	2.10	240	0.40
2.5x2	-	2	4	4.70	80	320	2.80	320	0.53
2.5x2.5	1	4	4	5.88	100	400	3.50	400	0.67
2.5x3	-	3	6	7.05	120	480	4.20	480	0.80
3x0.5	-	3	-	1.41	24	96	0.84	96	0.16
3x1	-	-	3	2.82	48	192	1.68	192	0.32
3x1.5	-	3	3	4.23	72	288	2.52	288	0.48
3x2	-	-	6	5.64	96	384	3.36	384	0.64
3x2.5	-	3	6	7.05	120	480	4.20	480	0.80
3x3	-	-	9	8.46	144	576	5.04	576	0.96

GDM KK-TK



Dwelling time:

0.04 secs

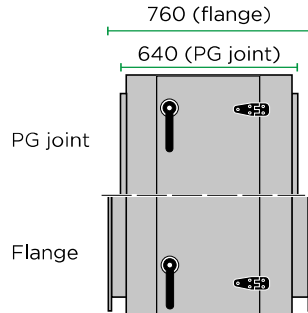
Note: For carbon filter cassette Scandsorb V25 and V75, use Filter housing GDR.

Size	No. of Cassettes CF1		Activated Carbon (l)	Nominal Flow (m³/s)	No. of Cassettes CF2		Activated Carbon (l)	Nominal Flow (m³/s)
	1/2	1/1			1/2	1/1		
0.5x1	1	-	10	0.24	1	-	20	0.47
0.5x2	2	-	20	0.47	2	-	40	0.94
1x1	-	1	20	0.47	-	1	40	0.94
1x2	-	2	40	0.94	-	2	80	1.88
1.5x1	1	1	30	0.71	1	1	60	1.41
1.5x2	2	2	60	1.41	2	2	120	2.82
2x1	-	2	40	0.94	-	2	80	1.88
2x2	-	4	80	1.88	-	4	160	3.76

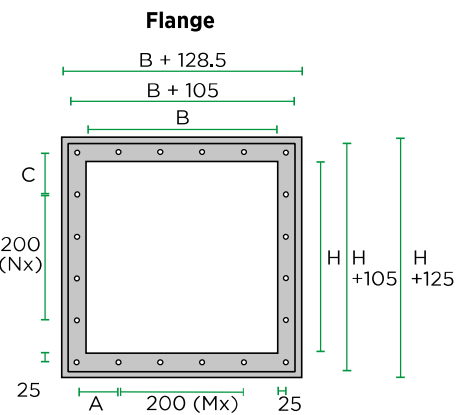
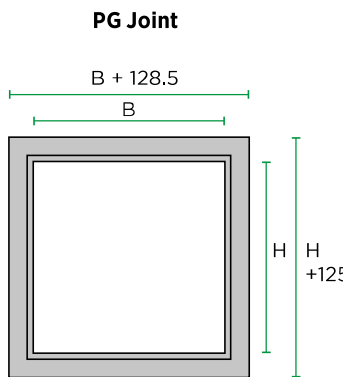
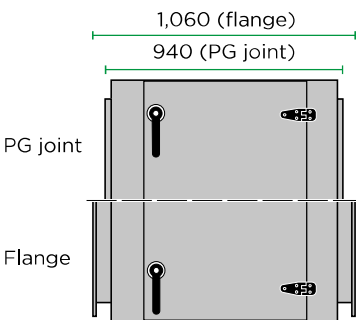
GDM – Technical Data

DIMENSIONS (mm)

GDM-FK-K



OTHER



Width (W)	Height (H)					
	310	615	920	1,225	1,530	1,835
325	0.5x0.5	0.5x1	0.5x1.5	0.5x2	0.5x2.5	0.5x3
625	1x0.5	1x1	1x1.5	1x2	1x2.5	1x3
925	1.5x0.5	1.5x1	1.5x1.5	1.5x2	1.5x2.5	1.5x3
1,225	2x0.5	2x1	2x1.5	2x2	2x2.5	2x3
1,525	2.5x0.5	2.5x1	2.5x1.5	2.5x2	2.5x2.5	2.5x3
1,825	3x0.5	3x1	3x1.5	3x2	3x2.5	3x3

B	A	M	H	C	N
1	137.5	2	1	132.5	2
1.5	187.5	3	1.5	185	3
2	137.5	5	2	137.5	5
2.5	187.5	6	2.5	190	6
3	137.5	8	3	142.5	8

WEIGHT (kg)

Weight of GDM FK-S filter housing with flanged connection (excluding filters).

- Uninsulated filter housing
- Insulated filter housing

Width (Module)		Height (Module)					
		0.5	1	1.5	2	2.5	3
0.5	○	39	56	74	89	108	123
	■	86	86	112	140	162	185
1	○	52	77	88	103	124	139
	■	74	115	134	157	186	209
1.5	○	67	84	109	122	146	161
	■	105	130	163	184	216	239
2	○	80	96	121	136	162	177
	■	126	150	183	206	240	263
2.5	○	95	112	139	155	183	199
	■	149	174	209	233	271	293
3	○	107	124	153	169	199	214
	■	169	194	231	255	293	316