

## Technical Data - Compressed Air Condensate Separators

Separator Type <sup>3)</sup> including float drain	Port Size ISO228-1 BSPP	Air Flow Rates m <sup>3</sup> /min cfm										Length		Height		Depth		Weight	
		5 bar		7 bar		9 bar		10 bar		13 bar		mm	in	mm	in	mm	in	Kg	lbs
		m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM								
GDWS006G1/4	1/4"																		
GDWS006G3/8	3/8"	0.45	15.9	0.60	21.2	0.71	25.2	0.75	26.5	0.84	29.9	76	3.0	181.5	7.2	64	2.5	0.6	1.3
GDWS006G1/2	1/2"																		
GDWS024G3/8	3/8"																		
GDWS024G1/2	1/2"	1.80	63.8	2.40	84.8	2.86	101	3.00	106	3.38	119	97.5	3.8	235	9.3	84	3.3	1.1	2.4
GDWS024G3/4	3/4"																		
GDWS024G1	1"																		
GDWS066G3/4	3/4"																		
GDWS066G1	1"	4.96	175	6.60	233	7.86	278	8.25	291	9.29	328	129	5.1	275	10.8	115	4.5	2.2	4.8
GDWS066G1/4	1 1/4"																		
GDWS066G1/2	1 1/2"																		
GDWS210G1/4	1 1/4"																		
GDWS210G1/2	1 1/2"	15.79	558	21.0	742	25.0	883	26.25	928	29.58	1045	170	6.7	432	17	156	6.1	5.1	11.2
GDWS210G2	2"																		
GDWS480G21/2	2 1/2"																		
GDWS480G3	3"	36.09	1275	48.0	1696	57.1	2019	60.0	2120	67.6	2389	205	8.1	504	19.9	181	7.1	10	22

Flange housing	Port Size	Air Flow Rates m <sup>3</sup> /min cfm										Length		Height		Depth		Weight	
		5 bar		7 bar		9 bar		10 bar		13 bar		mm	in	mm	in	mm	in	Kg	lbs
		m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM								
GDWS480GF	DN80	41	1441	48	1695	54	1915	57	2017	65	2305	370	14.6	1070	42.1	285	11.2	66	146
GDWS600GF	DN100	51	1801	60	2119	68	2394	71	2522	82	2882	450	17.7	1120	44.1	340	13.4	102	225
GDWS1080GF	DN150	92	3242	108	3814	122	4310	129	4539	147	5187	580	22.8	1240	48.8	460	18.1	191	434
GDWS1800GF	DN200	153	5556	180	6537	203	7387	214	7779	245	8890	750	29.5	1585	62.4	640	25.2	397	875
GDWS2880GF	DN250	245	8645	288	10171	325	11493	343	12103	392	13833	862	33.9	1570	61.8	715	28.2	537	1184
GDWS4320GF	DN300	358	12652	421	14885	476	16820	501	17713	573	20244	1000	39.3	1610	63.5	840	33.1	675	1488

## Technical Data - Compressed Air Filter - GDF Series

Filter Model GDF Port & Grade G_H_V	Port Size ISO228-1 BSPP	Air Flow Rates <sup>1)</sup> m <sup>3</sup> /min cfm										Length		Height		Depth		Weight	
		5 bar		7 bar		9 bar		10 bar		13 bar		mm	in	mm	in	mm	in	Kg	lbs
		m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM								
GDF0006G1/4 (Grade)	G 1/4"																		
GDF0006G3/8 (Grade)	G 3/8"	0.51	18.0	0.6	21.2	0.68	24.0	0.71	25.2	0.82	28.8	76.0	3.0	181.5	7.12	64	2.5	0.6	1.3
GDF0006G1/2 (Grade)	G 1/2"																		
GDF0012G3/8 (Grade)	G 3/8"	1.02	36.0	1.20	42.4	1.36	47.9	1.43	50.5	1.63	57.7	97.5	3.8	235	9.3	84	3.3	1.1	2.4
GDF0012G1/2 (Grade)	G 1/2"																		
GDF0018G1/2 (Grade)	G 1/2"																		
GDF0018G3/4 (Grade)	G 3/4"	1.53	54.1	1.80	63.6	2.03	71.9	2.14	75.7	2.45	86.5	97.5	3.8	235	9.3	84	3.3	1.1	2.4
GDF0018G1 (Grade)	G 1"																		
GDF0036G3/4 (Grade)	G 3/4"	3.06	108	3.60	127	4.07	144	4.28	151	4.90	173	129.0	5.1	274.8	10.8	115	4.5	2.2	4.8
GDF0036G1 (Grade)	G 1"																		
GDF0066G1 (Grade)	G 1"																		
GDF0066G1/4 (Grade)	G 1 1/4"	5.61	198	6.60	233	7.46	263	7.85	277	8.98	317	129.0	5.1	364.3	14.3	115	4.5	2.7	5.9
GDF0066G1/2 (Grade)	G 1 1/2"																		
GDF0096G1/4 (Grade)	G 1 1/4"	8.16	288	9.60	339	10.8	383	11.4	404	13.1	461	170.0	6.7	432.5	17.0	156	6.1	5.1	11.2
GDF0096G1/2 (Grade)	G 1 1/2"																		
GDF0132G1/2 (Grade)	G 1 1/2"	11.22	396	13.20	466	14.92	527	15.71	555	17.95	634	170.0	6.7	524.5	20.6	156	6.1	5.7	12.5
GDF0132G2 (Grade)	G 2"																		
GDF0198G2 (Grade)	G 2"	16.83	595	19.80	670	22.37	791	23.56	833	26.93	951	170.0	6.7	524.5	20.6	156	6.1	5.7	12.5
GDF0258G21/2 (Grade)	G 2 1/2"	21.93	775	25.8	912	29.15	1030	30.70	1085	35.09	1240	204.8	8.1	641.6	25.3	181	7.1	11.1	24.4
GDF0258G3 (Grade)	G 3"																		
GDF0372G21/2 (Grade)	G 2 1/2"	31.62	1117	37.20	1314	42.04	1485	44.27	1564	50.59	1788	204.8	8.1	832.1	32.8	181	7.1	13.9	30.6
GDF0372G3 (Grade)	G 3"																		
GDF0600G4 (Grade)	G 4"	51.0	1802	60	2120	67.8	2396	71.4	2523	81.6	2883	840	16.5	1694	33.3	282	11.1	44.5	98.1

Fabricated Housing <sup>2)</sup>	Port Size	5 bar		7 bar		9 bar		10 bar		13 bar		Length		Height		Depth		Weight	
		m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	m <sup>3</sup> /min	CFM	mm	in	mm	in	mm	in	Kg	lbs
GDF0372G (GRADE) F	DN80	32	1115	37	1312	42	1483	44	1561	51	1784	440	17.3	1065	42	340	13.4	70	154
GDF0744G (GRADE) F	DN100	63	2231	74	2625	84	2966	89	3124	101	3570	500	19.7	1152	45.4	405	16	97	214
GDF1116G (GRADE) F	DN150	95	3347	112	3938	126	4450	133	4686	152	5356	600	23.6	1256	49.5	520	20.5	148	326
GDF1488G (GRADE) F	DN150	126	4463	149	5251	168	5934	177	6249	202	7141	650	25.6	1332	52.4	580	22.8	187	412
GDF2232G (GRADE) F	DN200	190	6695	223	7877	252	8901	266	9374	304	10713	750	29.5	1415	55.7	640	25.2	240	529
GDF3720G (GRADE) F	DN250	316	11160	372	13129	420	14836	443	15624	506	17855	1000	39.4	1603	63.1	840	33	470	1036

<sup>1)</sup> For flowrates at other pressures, apply the correction factor shown.

<sup>2)</sup> Fabricated housings flanged to BS 4504 PN16 and designed to CEN 286 Part 1 (1991). Other pressure vessel standards available.

<sup>3)</sup> Supplied with float drain / optional electronic drain.

<sup>4)</sup> Supplied with manual drain.

# GDFT Oil Vapour Removal Filter

## Point of Use Oil Vapour Removal Grade V Filtration Performance

Filtration Grade	Filter Type	Particle Removal (inc Water & Oil Aerosols)	Max Remaining Oil Content at 35°C (95°F)	Filtration Efficiency	Test Method Used	Inlet Challenge Concentration	Initial Dry Differential Pressure	Initial Saturated Differential Pressure	Adsorbent Life	Precede with Grade
GDFT	Oil Vapour Removal	N/A	0.003 mg/m <sup>3</sup> 0.003 ppm (w)	N/A	ISO8573-5	0.05mg/m <sup>3</sup>	<350 mbar <5 psi	N/A	*12 months	G + H

\*When corrected to match systems conditions.

## Product selection

Stated flows are for operation at 7 barg (100 psi g), 35°C (95°F) for flows at other conditions use connection factors below.

Model	Pipe Size	L/s	m <sup>3</sup> /min	m <sup>3</sup> /hr	cfm	Replacement Cartridge	No. Required
GDFT052GV	2	87	5.2	314	185	GDE052V	1
GDFT106GV	2	177	10.6	637	375	GDE106V	1
GDFT212GV	2	354	21.2	1274	750	GDE212V	1
GDFT319GV	2½	531	31.9	1911	1125	GDE319V	1
GDFT425GV	2½	708	42.5	2549	1500	GDE425V	1
GDFT531GV	2½	885	53.1	3186	1875	GDE531V	1
2 x GDFT531GV	2½	1770	106.2	6371	3750	GDE531V	2
3 x GDFT531GV	2½	2655	159.3	9557	5625	GDE531V	3
4 x GDFT531GV	2½	3540	212.4	12743	7500	GDE531V	4
5 x GDFT531GV	2½	4424	265.5	15928	9375	GDE531V	5

## Correction Factors Temperature (CFT)

Oil lubricated compressors		
°C	°F	Correction Factor
25	77	1.00
30	86	1.00
35	95	1.00
40	104	1.25
45	113	1.55
50	122	1.90

## Correction Factors Temperature (CFT)

Oil free compressors		
°C	°F	Correction Factor
25	77	1.00
30	86	1.00
35	95	1.00
40	104	1.25
45	113	1.55
50	122	1.90

## Correction Factors Pressure (CFP)

bar g	psi g	Correction Factor
3	44	2.00
4	58	1.60
5	73	1.33
6	87	1.14
7	100	1.00
8	116	1.00
9	131	1.00
10	145	1.00
11	160	1.00
12	174	1.00
13	189	1.00
14	203	1.00
15	218	1.00
16	232	1.00

## Correction Factors - Inlet Dewpoint (CFD)

	°C	°F	Correction Factor
Dry	-70 to +3	-100 to +38	1.00
Wet	+3 and above	+38 and above	4.00

It is assumed inlet oil vapour concentration does not exceed 0.05mg/m<sup>3</sup> at 35°C (95°F). For applications with higher oil vapour concentrations, please contact Gardner Denver for accurate sizing.

### Filter Selection - Grade GDFT

To correctly select a GDFT oil vapour removal filter, the flow rate of the GDFT must be adjusted for the minimum operating pressure, maximum operational temperature and pressure dewpoint of the system.

1. Obtain the minimum operating pressure, maximum inlet temperature, maximum compressed air flow rate and dewpoint of the compressed air at the inlet of the GDFT.
2. Select correction factor for maximum inlet temperature from the CFT table to compressor type (always round up e.g. for 37°C use 40°C correction factor).
3. Select correction factor for minimum inlet pressure from the CFP table that corresponds type (always round down e.g. for 5.3 bar use 5 bar correction factor).
4. Select correction factor for pressure dewpoint from the CFD table.
5. Calculate minimum filtration capacity  
Minimum filtration Capacity = Compressed Air Flow x CFT x CFP x CFD
6. Using the minimum filtration capacity, select a GDFT model from the flow rate tables above (GDFT selected must have a flow rate equal to or greater than the minimum filtration capacity). If the minimum filtration capacity exceeds the maximum values of the models shown within the tables, please contact Gardner Denver for advice regarding larger multi-banked units

## Weights and Dimensions

Model	Pipe Size	Height		Width		Depth		Weight	
		mm	ins	mm	ins	mm	ins	kg	lbs
GDFT052GV	2"	792	31.2	245	9.6	230	9.1	28.5	62.8
GDFT106GV	2"	1009	39.7	590	23.2	550	21.7	62.5	137.8
GDFT212GV	2"	1009	39.7	735	28.9	550	21.7	71.5	157.6
GDFT319GV	2½"	1009	39.7	888	35.0	550	21.7	92.8	204.6
GDFT425GV	2½"	1009	39.7	1065	41.9	550	21.7	100.6	221.8
GDFT531GV	2½"	1009	39.7	1234	48.6	550	21.7	122.0	269.0