

**STG SERIES**

# BI-FLOW FILTER DRIERS



(GreenTech range: for fluids GROUP 1 according to Directive 2014/68/EU or GROUP A3/A2L according to ANSI-ASHRAE 34-2016)

## FEATURES

- HIGH EFFICIENT IN MOISTURE ABSORPTION, FILTERING IMPURITY, ACID, PAINT REMAINS AND MUD REMOVAL
- HYBRID DESICCANT
- DURABLE AND SOLID FILTER CORES
- FILTERING FINENESS: 20µm
- CORROSION RESISTANT PAINTING CAN SURVIVE SALT SPRAY TEST OF 500 HOURS
- CONNECTION TYPE: SOLDER

## GENERAL SPECIFICATIONS

- Applicable for HC, HFC, HFO refrigerants such as: R290, R1234ze(E), R1234yf, R447A, R452B, R454B, R454C
- Ambient temperature min./max.: -30°C / +70°C
- Medium temperature TS min./max.: -30°C / +120°C
- Max. operating pressure PS: 4,83 MPa (48,3 bar)
- Installation position: preferably installed in liquid line
- Certifications: UL/CSA and PED declaration (all products have been covered by Art.4.3 PED Directive 2014/68/EU)

## TECNHICAL PARAMETERS *Desiccant Selection Table*

	Medium Type	80% 3Å Desiccant and 20% Active Alumina	100% 3Å Desiccant
Refrigerant	HC	Applicable	Applicable
	HFC	Applicable	Applicable
	HFO	Applicable	Applicable
Oil <sup>3</sup>	Mineral oil or AB	Applicable	Applicable
	Pure POE or PAG	Applicable	Applicable
	POE or PAG with additive	Not Applicable	Applicable

**Note:** When the systems use oil with additive, it is not recommended to use a core with alumina



Model Designation Legend

<b>1</b>	<b>Product Code</b>	<b>Filter Drier Series</b>	
	STG	Indicates bidirectional filter drier	
<b>2</b>	<b>Filter Core</b>	<b>Structure and Material</b>	
	B	Solid core, 100%3Å desiccant	
	F	Solid core, 80% 3Å desiccant and 20% active alumina	
<b>3</b>	<b>Internal Volume</b>	<b>Expressed in [ inch<sup>3</sup> ]</b>	<b>Expressed in [ cm<sup>3</sup> ]</b>
	03	3	49
	05	5	82
	08	8	131
	16	16	262
	30	30	492
<b>4</b>	<b>Connection Size</b>	<b>Pos. 5 shows "0": Solder [inch]</b>	
	02	1/4	
	25	5/16	
	03	3/8	
	04	1/2	
	05	5/8	
	06	3/4	
	07	7/8	
	09	1 1/8	
	<b>Connection Size</b>	<b>Pos. 5 shows "1": Solder [mm]</b>	
	06	6	
	(08) *	(5/16" version can be used e.g. STG-B08 <b>250</b> )	
	10	10	
	12	12	
	(16) *	(5/8" version can be used e.g. STG-B16 <b>050</b> )	
(22) *	(7/8" version can be used e.g. STG-B16 <b>070</b> )		
28	28		
<b>5</b>	<b>Pipe Connection</b>	<b>Type</b>	
	0	Solder with inch connections	
	1 *	Solder with metric connections	
<b>6</b>	<b>Version Number</b>	<b>Description</b>	
	901	Standard product	

**Note:** \* Solder connections which fit to metric and inch are marked with inch product codes e.g. 8, 16 and 22 mm.

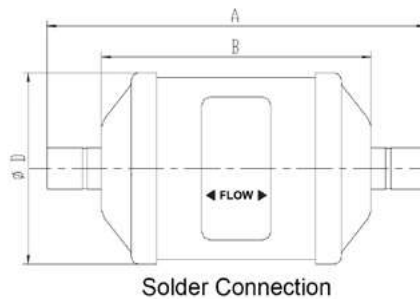


GENERAL CHARACTERISTICS OF STG-F FILTER - SOLDER CONNECTION

Filter	Model <sup>1)</sup> [inch]	Part Number (multi package)* [inch]	Model <sup>1)</sup> [mm]	Part Number (multi package)* [mm]	Nominal Volumen		Connection		Dimensions & Weight <sup>2)</sup>				PED Category <sup>3)</sup>
							Solder		ØD	B	A	Weight	
					[inch <sup>3</sup> ]	[cm <sup>3</sup> ]	[inch]	[mm]	[mm]	[mm]	[mm]	[g]	
STGF052s	STG-F05 020-901	10235010302	STG-F05 061-901	10235010602	5	82	1/4	6	69	76	114	450	Art. 4.3
STGF053s	STG-F05 030-901	10235010402	STG-F05 101-901	10235010702	5	82	3/8	10	69	76	114	450	Art. 4.3
STGF054s	STG-F05 040-901	10235010502	STG-F05 121-901	10235010802	5	82	1/2	12	69	76	124	450	Art. 4.3
STGF082s	STG-F08 020-901	10235011202	STG-F08 061-901	10235011602	8	131	1/4	6	69	98	136	580	Art. 4.3
STGF0825s	STG-F08 250-901	10235011302	STG-F08 250-901	10235011302	8	131	5/16	8	69	98	136	580	Art. 4.3
STGF083s	STG-F08 030-901	10235011402	STG-F08 101-901	10235011702	8	131	3/8	10	69	98	136	580	Art. 4.3
STGF084s	STG-F08 040-901	10235011502	STG-F08 121-901	10235011802	8	131	1/2	12	69	98	146	580	Art. 4.3
STGF163s	STG-F16 030-901	10235012202	STG-F16 101-901	10235012602	16	262	3/8	10	81	118	156	900	Art. 4.3
STGF164s	STG-F16 040-901	10235012302	STG-F16 121-901	10235012702	16	262	1/2	12	81	118	166	900	Art. 4.3
<b>STGF165s</b>	<b>STG-F16 050-901</b>	<b>10235012402</b>	<b>STG-F16 050-901</b>	<b>10235012402</b>	<b>16</b>	<b>262</b>	<b>5/8</b>	<b>16</b>	<b>81</b>	<b>118</b>	<b>166</b>	<b>900</b>	<b>Art. 4.3</b>
STGF167s	STG-F16 070-901	10235012502	STG-F16 070-901	10235012502	16	262	7/8	22	81	118	178	900	Art. 4.3
STGF303s	STG-F30 030-901	10235013902	STG-F30 101-901	10235013102	30	492	3/8	10	81	193	231	1700	Art. 4.3
STGF304s	STG-F30 040-901	10235014002	STG-F30 121-901	10235013202	30	492	1/2	12	81	193	241	1700	Art. 4.3
STGF305s	STG-F30 050-901	10235014102	STG-F30 050-901	10235014102	30	492	5/8	16	81	193	241	1700	Art. 4.3
STGF306s	STG-F30 060-901	10235014202	-	-	30	492	3/4	-	81	193	253	1700	Art. 4.3
STGF307s	STG-F30 070-901	10235012902	STG-F30 070-901	10235012902	30	492	7/8	22	81	193	253	1700	Art. 4.3
STGF309s	STG-F30 090-901	10235013002	STG-F30 281-901	10235013402	30	492	1 1/8	28	81	193	263	1700	Art. 4.3

**Note:** \* Available also as industrial package. Contact Sanhua for more details.

- 1) Delivery time on request
- 2) Dimensions are rounded up to integral mm
- 3) PED Directive 2014/68/EU. Category evaluated considering product as a “vessel”





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					[inch <sup>3</sup> ]	[cm <sup>3</sup> ]	Solder		ØD [mm]	B [mm]	A [mm]	Weight [g]	
							[inch]	[mm]					
STGF052s	STG-F05 020-901	10235010302	STG-F05 061-901	10235010602	5	82	1/4	6	69	76	114	450	Art. 4.3
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STGF164s	STG-F16 040-901	10235012302	STG-F16 121-901	10235012702	16	262	1/2	12	81	118	166	900	Art. 4.3
<b>STGF165s</b>	<b>STG-F16 050-901</b>	<b>10235012402</b>	<b>STG-F16 050-901</b>	<b>10235012402</b>	<b>16</b>	<b>262</b>	<b>5/8</b>	<b>16</b>	<b>81</b>	<b>118</b>	<b>166</b>	<b>900</b>	<b>Art. 4.3</b>
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