

Uni-Flow Filter Driers Series DTG for R32



The filter driers of series DTG are used in refrigeration system with unidirectional flow to absorb moisture and acid in the system and to filter out the impurities.

Features

- Highly efficient in moisture absorption, filtering impurity, paint remains and mud removal
- 100% 3Å desiccant
- Durable and solid filter cores
- Filtering fineness: 20µm
- Corrosion resistant painting survives salt spray test of 500 hours
- Connection type: solder

General Specification

- Applicable for refrigerants such as R32
- Ambient temperature min./max.: -30°C / +55°C
- Medium temperature TS min./max.: -30°C / +120°C
- Max. operating pressure PS max.: 4,9 MPa (49 bar) - 711 PSIG
- Installation position: - Flow direction corresponds to the arrow
- 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)

Technical Parameters

Desiccant Selection Table

	Medium type	100% 3Å desiccant
Refrigerant	R32	Applicable
Oil	Mineral oil or AB	Applicable
	Pure POE or PAG	Applicable
	POE or PAG with additive	Applicable

Pos. No.	Model Designation Legend		
1	Product Code	Filter Drier Series	
	DTG	Indicates unidirectional filter drier	
2	Filter Core	Structure and Material	
	B	Solid core, 100%3Å desiccant	
3	Internal Volume	Expressed in [inch³]	Expressed in [cm³]
	03	3	49
	05	5	82
	08	8	131
	16	16	262
	30	30	492
	41	41	672
4	Connection Size	Pos. 5 shows "0": Solder [inch]	
	02	1/4	
	03	3/8	
	04	1/2	
	05	5/8	
	06	3/4	
	07	7/8	
	09	1 1/8	
	Connection Size	Pos. 5 shows "1": Solder [mm]	
	06	6	
	10	10	
	12	12	
	(16) *	(5/8" version can be used e.g. DTG-B08 050)	
	(22) *	(7/8" version can be used e.g. DTG-B16 070)	
28	28		
5	Pipe Connection	Type	
	0	Solder with inch connections	
	1*	Solder with metric connections	
6	Version Number	Description	
	932	Standard product for R32 (MOP 49 bar)	

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

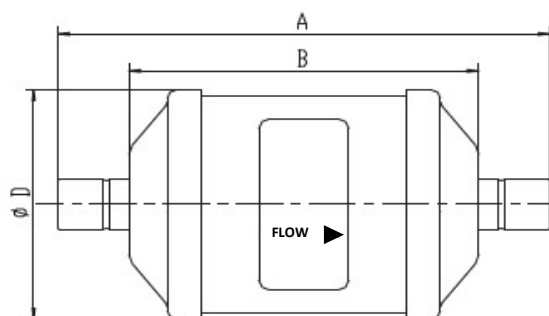
Model Designation Example:

Position Number						According to Model Designation Legend
1	2	3	4	5	6	
DTG	B	03	06	1	932	Unidirectional filter drier
DTG	B	03	06	1	932	Solid filter core with 100% 3Å desiccant
DTG	B	03	06	1	932	3 inch ³ internal volume
DTG	B	03	06	1	932	When Pos. 5 is "1": connection size 6mm
DTG	B	03	06	1	932	Solder connection metric
DTG	B	03	06	1	932	Standard product for R32 (MOP 49 bar)

General Characteristics of DTG-B Filter - Solder Connection													
Filter	Model [inch]	Part Number (multi package) ¹⁾ [inch]	Model [mm]	Part Number (multi package) ¹⁾ [mm]	Nominal Volume		Connection		Dimensions & Weight ²⁾				PED Category ³⁾ (Fluid Group 1)
					[inch ³]	[cm ³]	Solder		ØD [mm]	B [mm]	A [mm]	Weight [g]	
							[inch]	[mm]					
DTGB032s	DTG-B03020-932	10230045602	DTG-B03061-932	10230047802	3	49	1/4	6	45	65	103	160	Art. 4.3
DTGB033s	DTG-B03030-932	10230045702	DTG-B03101-932	10230047902	3	49	3/8	10	45	65	103	160	Art. 4.3
DTGB034s	DTG-B03040-932	10230045802	DTG-B03121-932	10230048002	3	49	1/2	12	45	65	113	160	Art. 4.3
DTGB052s	DTG-B05020-932	10230045902	DTG-B05061-932	10230048102	5	82	1/4	6	69	76	114	450	Art. 4.3
DTGB053s	DTG-B05030-932	10230046002	DTG-B05101-932	10230048202	5	82	3/8	10	69	76	114	450	Art. 4.3
DTGB054s	DTG-B05040-932	10230046102	DTG-B05121-932	10230048302	5	82	1/2	12	69	76	124	450	Art. 4.3
DTGB055s	DTG-B05050-932	10230046202	DTG-B05050-932	10230046202	5	82	5/8	16	69	76	124	450	Art. 4.3
DTGB083s	DTG-B08030-932	10230046302	DTG-B08101-932	10230048402	8	131	3/8	10	69	98	136	550	Art. 4.3
DTGB084s	DTG-B08040-932	10230046402	DTG-B08121-932	10230048502	8	131	1/2	12	69	98	146	550	Art. 4.3
DTGB085s	DTG-B08050-932	10230046502	DTG-B08050-932	10230046502	8	131	5/6	16	69	98	146	550	Art. 4.3
DTGB163s	DTG-B16030-932	10230046602	DTG-B16101-932	10230048602	16	262	3/8	10	69	118	156	660	Art. 4.3
DTGB164s	DTG-B16040-932	10230046702	DTG-B16121-932	10230048702	16	262	1/2	12	69	118	166	660	Art. 4.3
DTGB165s	DTG-B16050-932	10230046802	DTG-B16050-932	10230046802	16	262	5/8	16	69	118	166	660	Art. 4.3
DTGB166s	DTG-B16060-932	10230046902	-	-	16	262	3/4	-	69	118	178	660	Art. 4.3
DTGB167s	DTG-B16070-932	10230047002	DTG-B16070-932	10230047002	16	262	7/8	22	69	118	178	660	Art. 4.3
DTGB305s	DTG-B30050-932	10230047202	DTG-B30050-932	10230047202	30	492	5/8	16	81	193	241	1550	Art. 4.3
DTGB306s	DTG-B30060-932	10230047302	-	-	30	492	3/4	-	81	193	253	1550	Art. 4.3
DTGB307s	DTG-B30070-932	10230047402	DTG-B30070-932	10230047402	30	492	7/8	22	81	193	253	1550	Art. 4.3
DTGB309s	DTG-B30090-932	10230047502	-	-	30	492	1 1/8	-	81	193	263	1550	Art. 4.3
DTGB417s	DTG-B41070-932	10230047602	DTG-B41070-932	10230047602	41	672	7/8	22	94	194	254	2050	Art. 4.3
DTGB419s	DTG-B41090-932	10230047702	-	-	41	672	1 1/8	-	94	194	264	2050	Art. 4.3

Note:

- 1) Available also as industrial package. Contact Sanhua for more details.
- 2) Dimensions are rounded up to integral mm
- 3) PED Directive 2014/68/EU. Category evaluated considering product as a “vessel”



Solder Connection

Selection Table	
Model	Capacity ¹⁾ [kW]
	R32
DTGB032s	12
DTGB033s	22.4
DTGB034s	38.3
DTGB052s	13.1
DTGB053s	37
DTGB054s	39.4
DTGB055s	54
DTG-B083s	38.8
DTGB084s	47.4
DTGB085s	69.6
DTGB163s	40
DTGB164s	50.4
DTGB165s	67.4
DTGB166s	72
DTGB167s	73
DTGB305s	71
DTGB306s	97
DTGB307s	98
DTGB309s	110
DTGB417s	140
DTGB419s	143

Note:

- 1) the above data is based on filter driers with inch connections and clean system at ideal conditions; with impurities accumulated in the filter, the capacity may decrease

Selection Formulas:

Filter Driers for liquid line are manufactured in compliance with ARI Standard 710. Flow rate of liquid refrigerant at a differential pressure of 0,07bar (1psi) is indicated by kW which is based on the temperature of liquid refrigerant 30°C (86°F), the evaporating temperature of refrigerant is -15°C (5°F).