

DTG-M02 SERIES**1.5 IN³ FILTER DRIER**

DTG-M02 series 1.5in3 filter drier are mainly used for light commercial refrigeration applications, with unidirectional flow to absorb moisture and filter out the impurities.

**FEATURES**

- STAINLESS STEEL HOUSING WITH HIGH STRENGTH
- HOUSING SURFACE ADOPTS ADSORPTION PRINCIPLE TO FORM A NANO-SOLID FILM TO ANTI-RUST, SURVIVES MORE THAN 1500 HOURS OF NEUTRAL SALT SPRAY TEST.
- SOLID FILER CORES, HIGHLY EFFICIENT IN MOISTURE ABSORPTION, FILTERING IMPURITY.
- COMPACT DESIGN, MEETING THE STRICT 150G SYSTEM LIMITS FOR FLAMMABLE REFRIGERANTS SUCH AS R290.

GENERAL SPECIFICATION

- Applicable refrigerants: HCFC, HFC, HC, HFO
- Medium temperature: -30°C~+120°C
- Ambient temperature: -30°C~+55°C
- Max. Operation pressure PS max: 4.83MPa (48,3bar) - 700PSI
- Installation position:
 - Flow direction corresponds to the arrow
 - Preferably installed in liquid line
- Certification: UL/CSA and PED declaration

1.5 IN³ FILTER DRIER



Model Designation Legend

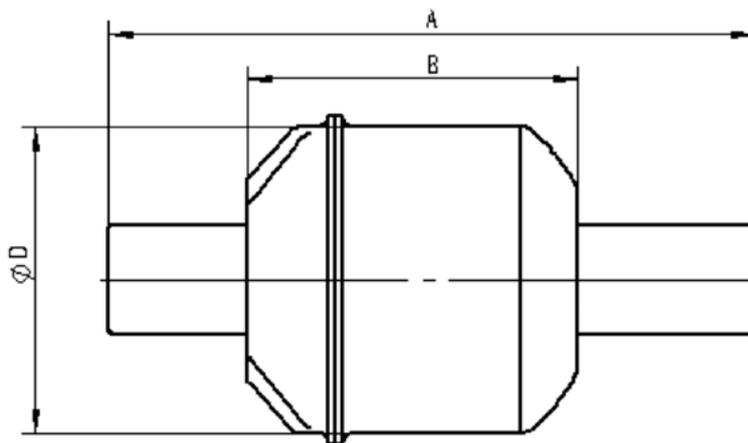
1	Product Code	Product Series	
	DTG	Indicates unidirectional filter drier	
2	Filter Core	Structure and Material	
	M	Solid core, 100%3Å desiccant, stainless steel housing	
3	Filter core volume	[inch ³]	[cm ³]
	02	1.5	25
4	Connection Size	Pos. 5 shows "0": Solder [inch]	
	02	1/4	
	03	3/8	
	04	1/2	
4	Connection Size	Pos. 5 shows "1": Solder [inch]	
	06	6	
	10	10	
	12	12	
5	Pipe Connection	Type	
	0	Solder with inch connections	
	1	Solder with metric connections	
6	Version Number	Description	
	901	Series number	

MODEL DESIGNATION EXAMPLE

Position Number						According to Model Designation Legend
1	2	3	4	5	6	
DTG	M	02	02	0	901	Unidirectional filter drier
DTG	M	02	02	0	901	Solid filter core with 100% 3Å desiccant, stainless steel
DTG	M	02	02	0	901	1.5 inch ³ filter core volume
DTG	M	02	02	0	901	When Pos. 5 is "0": connection size 1/4 inch
DTG	M	02	02	0	901	Solder connection inch
DTG	M	02	02	0	901	Series number



GENERAL CHARACTERISTICS



Filter	Model	Part Number (Industrial pack)	Solder connection		Dimensions & Weight				PED Category
			[inch]	[mm]	ØD	B	A	Weight	
					[mm]	[mm]	[mm]	[g]	
DTGM022s	DTG-M02020-901	10230041401	1/4	-	42	45	77	95	Art. 4.3
DTGM023s	DTG-M02030-901	10230039601	3/8	-	42	45	77	95	Art. 4.3
DTGM024s	DTG-M02040-901	10230041501	1/2	-	42	45	83	95	Art. 4.3
DTGM022/2.8mms	DTG-M02020-003	10230056701	1/4_2.8 mm		42	45	105,5	97.7	Art. 4.3



SELECTION TABLE

Model	Capacity ¹⁾ [kW]/[TR]					Moisture Absorption (gram H ₂ O)							
	R134a	R404A	R290	R407C ²⁾	R410A	R134a		R404A		R407C ²⁾		R290	
		R507A				75°F	125°F	75°F	125°F	R410A		75°F	125°F
										23,9°C	51,7°C		
DTGM022s	2.3/0.66	1.6/0.46	2.6/0.73	2.4/0.68	2.4/0.68	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2
DTGM023s	3.5/1	2.5/0.71	3.9/1.1	3.5/1	3.5/1	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2
DTGM024s	4.7/1.33	3.3/0.94	5.1/1.45	4.7/1.34	4.8/1.37	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2
DTGM022/2.8mms ³⁾	1.3/0.37	0.9/0.26	1.6/0.46	1.3/0.37	1.4/0.4	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2

- Note:**
- 1) the above data is based on clean system at ideal conditions; with impurities, accumulated in the filter, the capacity may decrease
 - 2) R407C capacity is based on dew point conditions
 - 3) Preliminary data for liquid line capacity for model DTGM022/2.8mms

SELECTION FORMULAS

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

- 0,40 kg/min/kW (3.1 lb/min/ton) R134a
- 0,53 kg/min/kW (4.1 lb/min/ton) R404A, R507A
- 0,39 kg/min/kW (3.0 lb/min/ton) R407C
- 0,36 kg/min/kW (2.8 lb/min/ton) R410A

Note: Data on water absorption is based on the following EPD (method: ASHRAE Standard 63.1):

- 50ppm R134a
- 50ppm R404A
- 50ppm R407C
- 50ppm R410A
- 50ppm R507A