

Introduction

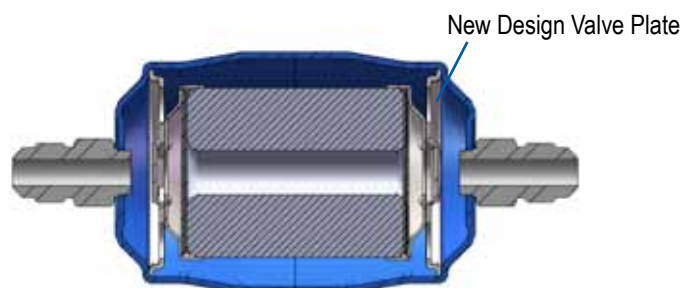
Heldon Bi-Flow filter driers offer the highest levels of protection for heat pump air-conditioning systems. They are designed to remove moisture, acids and solid particles that can lead to premature component failure and harmful chemical reactions regardless of whether the air-conditioning demand is for Heating or Cooling.

The Heldon Bi-Flow filter driers employ a new, improved built in check valve system that ensures all particles remain trapped once they are caught by the filter regardless of the refrigerant flow direction. The new valve plate design directs the refrigerant flow through the desiccant core from the outside, inwards at all times. This provides maximum Drying and Micron Filtration for the refrigerant whilst maintaining acceptable refrigerant flow rates through the filter drier.

All this is delivered day in, day out, no matter what the season outdoors.

Standard Series (Beige) have a solid core consisting of 100% molecular sieve. The valve plate has been designed to handle all conditions, they offer quick water absorption and are ideally suited to HFC refrigerants, POE and PAG oils.

Burnout Series (Yellow) have a solid core consisting of 48% Molecular Sieve, 47% Activated Alumina and 5% Activated Carbon. They offer quick moisture and acid absorption and are ideally suited when a small motor burnout occurs and space does not permit a full size burnout drier.



Features

Features

- Solid drier core construction with an optimized binding agent.
- Pre and post core filters provide double the filtration and less chance of a total core blockage.
- 3040 Standard Series – 100% Molecular Sieve.
- 3027 Burnout Series – 48% Molecular Sieve, 47% Activated Alumina and 5% Activate Carbon.
- Solid copper sweat and zinc plated flare connections.
- Powder Coated UL approved shell rated at 4200kPa / 600psi (R410A compatible)
- Valve plate employs compressor plate material for long life.

Benefits

- Larger & faster moisture uptake per cubic capacity of dessicant.
- Maximum filtration without any nuisance breakdowns.
- Ideal for POE oil systems, delivering the quickest moisture removal and the reduced risk of hydrolysis. Importantly, will not strip Manufacturers oil additives.
- Clean up after small burnout with space restrictions.
- Easier to use and longer life.
- Suitable for harsh environments and for high pressure applications.
- Will provide years of trouble free, system protection.

Manufacturing Standards

Manufactured in accordance with AS 2971 or UL207.
Safe Working Pressure: 4,200 kPa.

Dimensions and Capacities



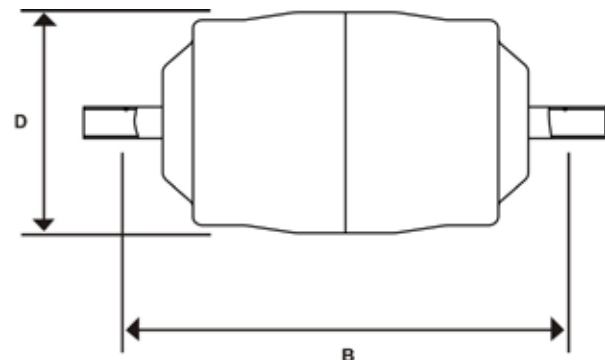
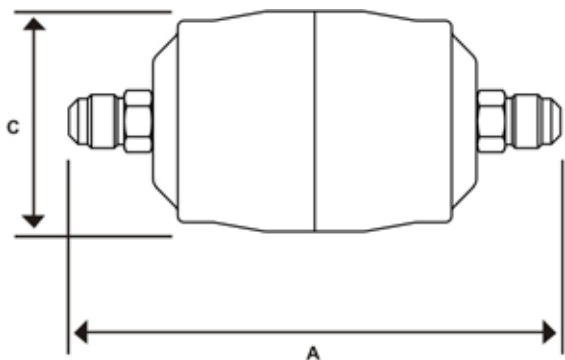
Standard			Capacity kw		Drying Capacity		
Connection	Part No.		R22	R407C	kg refrigerant*		
	Flare	Solder	R410A	R134a	R22	R410A	R134a
1/4	3040-082	3040-082S	4.1	3.7	11.5	11.5	12.5
3/8	3040-083	3040-083S	8	7.4	11.5	11.5	12.5
1/2	3040-084	3040-084S	8.9	8	11.5	11.5	12.5
3/8	3040-163	3040-163S	18.9	17	15.5	15.5	16.3
1/2	3040-164	3040-164S	30	27	15.5	15.5	16.3
5/8	3040-165	3040-165S	38.5	34.6	15.5	15.5	16.3



Burnout Series		Capacity kW		Drying Capacity			Acid Capacity g
Connection	Part No. Flare	R22	R407C	kg refrigerant*			
		R410A	R134a	R22	R410A	R134a	
1/4	3027-082	4.2	3.8	7	6.3	7.4	3.9
3/8	3027-083	8.3	7.5	7	6.3	7.4	3.9
1/2	3027-084	9.1	8.2	7	6.3	7.4	3.9
3/8	3027-163	19	17.5	13	11.8	14	8.8
1/2	3027-164	30	27	13	11.8	14	8.8
5/8	3027-165	39	35.8	13	11.8	14	8.8

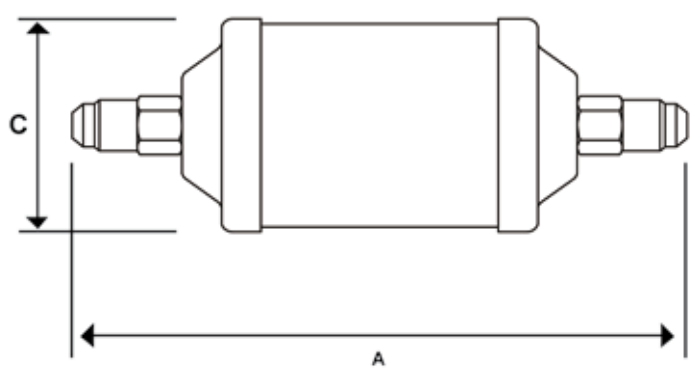
Given in accordance with ARI 710-86 for;
 Evaporator temperature; $t_e = -15^\circ\text{C}$
 Condensing temperature; $t_c = 30^\circ\text{C}$
 Pressure drop $P = 7\text{kpa (1 psi)}$

*Drying capacity based on the following criteria;
 R22 - down to 50ppm
 R407C - down to 50ppm
 R410A - down to 60ppm
 R134a - down to 75ppm



Dimensions, Weights & Carton Quantities

Part No.	A mm	C mm	Weight kg	Carton qty	Part No.	B mm	D mm	Weight kg	Carton qty
3040-082	145	65	.515	24	3040-082S	116	65	.480	24
3040-083	155	65	.550	24	3040-083S	120	65	.485	24
3040-084	163	65	.580	24	3040-084S	122	65	.495	24
3040-163	169	78	.790	18	3040-163S	134	78	.805	18
3040-164	177	78	.825	18	3040-164S	136	78	.820	18
3040-165	185	78	.895	18	3040-165S	134	78	.895	18



Dimensions, Weights & Carton Quantities

Part No. Flare	A mm	C mm	Weight kg	Carton qty
3027-082	140	64	.515	18
3027-083	152	64	.550	18
3027-084	160	64	.580	18
3027-163	170	78	.790	18
3027-164	175	78	.825	18
3027-165	185	78	.895	18