



DSH/DSHH – Filter Drier Shell

<p>DSH/DSHH Filter Drier Shell: The compact housing for Operating Pressures for 60 and 130 bar</p> <p>CE</p>	<p>Product Features:</p> <ul style="list-style-type: none"> • Optimal Flow Capacity with low pressure Drop • CE marked acc. PED 2014/68/EU • Powder Painted for excellent corrosion resistance • Outlet Screen Mesh size 120 micron • 80% Molecular Sieve for high moisture capacity and quick removal of moisture • 20% Activated Alumina for Acid removal • High water capacity even at high liquid temperatures due to high MS content (3 Å Material) • Connection suitable for brazing and welding • Robust Block Retainer <p>Optional: ¼"NPT thread in cover</p>
--	---

Pressure Equipment	2014/68/EU	Released for Media:	CO ₂ , Mineral-, Synthetic- und POE, PAG lubricants
Applied Standards	EN 378/-1/-2, EN 14276-1, EN 1593, EN 1779	Materials	Housing: Steel Pressure Connection: Ni plated Steel Cover plated Steel, Screw: 8.8
Pressure Range:	Op. Pressure: DSH 60 bar, DSHH 130 bar Test Pressure: DSH 86 bar, DSHH: 186 bar	Temperature Range:	-10°C bis 75°C: DSH: 60 bar, DSHH 130bar -35 bis -10°C: DSH 45 bar, DSHH 97 bar:

Refrigerant Overview

Refrigerant	Group acc. PED 2014/68/EC	Group acc. EN378	Refrigerant	Group acc. PED 2014/68/EC	Group acc. EN378
R404A R134a R448A R449A R450A R513A R744	II	A1	R1234ze (E) R1234yf R32 R455A R454C	I	A2L
			R1270 R290	I	A3

Models and Capacities with T48 Insert (Qn)

Type	P/N	Inserts	Braze Conn		Butt Weld. Steel tube	Qn liquid	Qn suction	Oper. Pressure	PED Cat.		
			ODF (mm)	ODF (zoll)					Fluid II	Fluid I	
DSH-485	16 311	1	16	5/8	21,3x1,75/2	110	30	60 bar	I	II	
DSH-487	16 300		22	7/8	26,9x2	200	54				
DSH-489	16 302		28	1-1/8	33,7x2/2,5	258	70				
DSH-4811	16 303		35	1-3/8		323	87				
DSH-4813	16 304		42	1-5/8	48,3x3,2	323	87				
DSH-967	16 306	2	22	7/8		204	55		130 bar	II	III
DSH-969	16 307		28	1-1/8		312	84				
DSH-9611	16 308		35	1-3/8		387	104				
DSH-9613	16 309		42	1-5/8		452	122				
DSH-9617	16 310		54	2-1/8	60,3x3,6	452	122				
DSHH-487	16 301	1	22	7/8		200	54	II		III	
DSHH-489	16 313		28	1-1/8		258	70				
DSHH-969	16 312	2	28	1-1/8		312	84				

R744 liquid: $t_{\text{evap}} = -30^{\circ}\text{C}$, $t_{\text{c}} = -10^{\circ}\text{C}$, pressure drop 0,07 bar **R744 gas:** $t_{\text{evap}} = -30^{\circ}\text{C}$, $t_{\text{c}} = -10^{\circ}\text{C}$, pressure drop 1K

Correction factor (Kt liquid): $Q_0 \times K_{\text{t liquid}} = Q_n$

Condensing Temp. °C	Evaporating Temp. °C				
	-10	-20	-35	-40	-50
10	1,33	1,32	1,32	1,33	1,34
5	1,22	1,21	1,22	1,22	1,24
-5	1,07	1,06	1,06	1,07	1,08
-10		1,00	1,00	1,01	1,02
-20			0,9	0,9	0,91

Correction factor (Kt suction): $Q_0 \times K_{\text{t suction}} = Q_n$

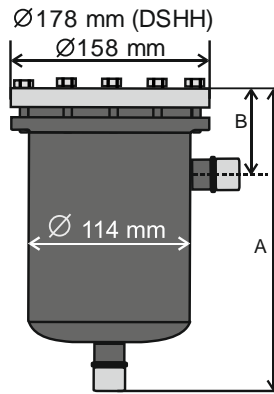
Condensing Temp. °C	Evaporating Temp. °C					
	5	-10	-20	-30	-40	-50
10	0,45	0,71	0,93	1,23	1,69	2,37
5	0,42	0,67	0,87	1,16	1,59	2,22
-5	0,38	0,61	0,79	1,05	1,43	2,00
-10			0,75	1,00	1,37	1,91
-20				0,92	1,26	1,76

Accessories

Type	P/N		Weight
T-48	16016	Block Type Drier with 80% Molecular sieve and 20% activated Aluminum oxide	0,86
W-48	16085	Burn out Block (Water Capacity 80% of T-47 Block, see page 2, acid)	0,82
F-48	16086	Stainless Steel Filter, Mesh size 100	0,43
DSD-48	16084	Cover Gasket for DS-Series (mulit pack 6 pcs.)	
DSU-48	16083	Universal Cover gasket set for other Filter Drier brands	

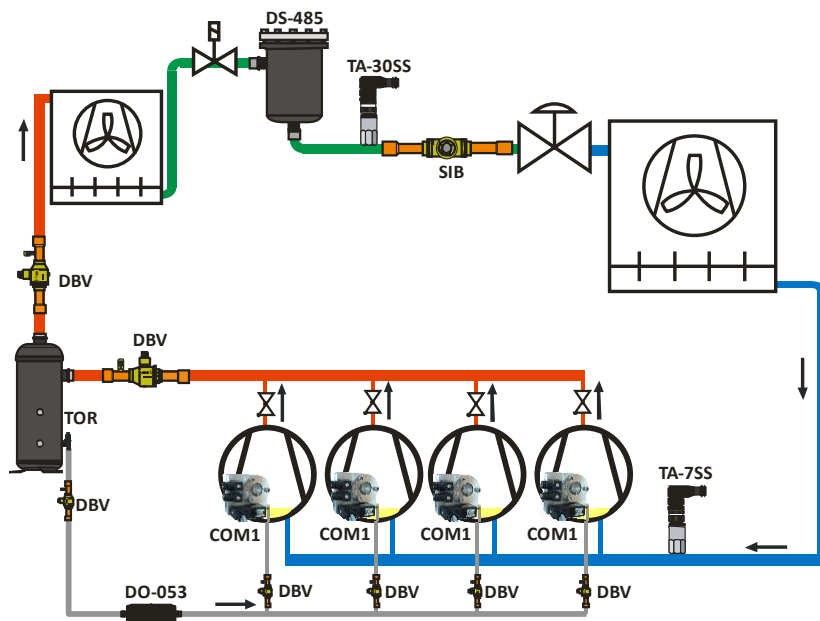


Dimension DS (mm)



Type	P/N	No. of Inserts	Braze Conn.		A (mm)	B (mm)	Volume (ltr.)	Weight (kg)
			ODF (mm)	ODF (inch)				
DSH-485	16 311	1	16	5/8	239	100	1,6	
DSH-487	16 300		22	7/8	244	100		
DSH-489	16 302		28	1-1/8	244	100		
DSH-4811	16 303		35	1-3/8	249	100		
DSH-4813	16 304		42	1-5/8	254	100		
DSH-967	16 306	2	22	7/8	379	100	3,0	
DSH-969	16 307		28	1-1/8	379	100		
DSH-9611	16 308		35	1-3/8	384	100		
DSH-9613	16 309		42	1-5/8	389	100		
DSH-9617	16 310		54	2-1/8	394	100		
DSHH-487	16 301	1	22	7/8	268	106	1,6	
DSHH-489	16 313		28	1-1/8	268	106		
DSHH-969	16 312	2	28	1-1/8	409	106	3,0	

Cycle Diagram with DEKA components



DEKA Controls will not accept responsibility for possible errors in Technical literature and other printed material. DEKA Controls reserves the right to change his products without notice. This applies also to products already on order provided that such changes can be made without sub sequential changes being necessary in specifications already agreed