Suction Line Filter and Filter Drier Shells Series BTAS for Replaceable Filters and Filter Drier Cores

Features

- Corrosion-free brass body ideal for suction line applications
- Extremely large filtration area for optimum flow capacity
- Low pressure drop
- Filtration down to 40 micron
- Temperature range TS: -45°C ... +50°C
- Max. allowable working pressure PS: 24 bar
- UL/CUL: File Nr. SA3124

BTAS

Selection Table - Suction Line Shells With Filter Core

Type	Part No.	Connection Solder/ODF		Nominal Capacity Q_n (kW)									Filter Core	
		(mm)	(inch)	R134a	R22	R404A	R407C	R507	R448A R449A	R450A	R513A	R507	Type	Part No.
CE marking not required acc. PED														
BTAS 25	015 353		5/8	12.5	17.1	13.9	15.9	13.9					A2F	009 907
BTAS 27	015 354	22	7/8	22.3	29.6	24.3	27.5	24.3	31.7	16.3	14.8	14.6		
BTAS 39	015 355		1 1/8	37.7	50.4	40.6	46.9	40.6	50.4	24.8	22.5	22.2	A3F	009 909
BTAS 311	015 356	35	1 3/8	60.3	80.7	65.2	75.1	65.2	54.0	27.5	25.0	24.7		
BTAS 313	015 357		1 5/8	73.4	97.5	81.1	90.7	81.1	86.4	44.2	40.1	39.6		
BTAS 342	015 358	42		73.4	97.5	81.1	90.7	81.1	86.4	44.2	40.1	39.6		
BTAS 317	015 359	54	2 1/8	97.6	127.7	104.8	118.8	104.8	104.3	54.4	49.3	48.7		
BTAS 417	015 360	54	2 1/8	134.7	178.2	145.3	165.7	145.3	190.7	98.6	89.4	88.3	A4F	009 911
CE Marked, Conformity Assessment Cat. I, Procedure Module A														
BTAS 521	015 361		2 5/8	209.0	282.4	229.8	262.6	229.8	302.2	153.0	138.7	137.0	A5F	009 913
BTAS 525	015 362		3 1/8	260.1	346.1	283.9	321.9	283.9	370.6	190.4	172.6	170.4		
BTAS 580	015 363	80		260.1	346.1	283.9	321.9	283.9	370.6	190.4	172.6	170.4		

Note: Filter Core has to be Ordered Separately.

Selection Table - Suction Line Shells With Filter Drier Core

Type	Part No.	Connection Solder/ODF		Nominal Capacity Q_n (kW)									Filter Drier Core	
		(mm)	(inch)	R134a	R22	R404A	R407C	R507	R448A R449A	R450A	R513A	R507	Type	Part No.
CE marking not required acc. PED														
BTAS 25	015 353		5/8	11.6	15.5	12.8	14.3	12.8	16.6	8.5	7.7	7.6	A2F-D	009 908
BTAS 27	015 354	22	7/8	19.1	25.2	20.6	23.4	20.6	27.0	13.9	12.6	12.5		
BTAS 39	015 355		1 1/8	34.4	45.7	37.5	42.5	37.5	36.0	18.0	16.3	16.1	A3F-D	009 910
BTAS 311	015 356	35	1 3/8	49.2	65.5	53.7	60.9	53.7	50.4	25.2	22.8	22.5		
BTAS 313	015 357		1 5/8	57.1	77.3	62.5	71.9	62.5	72.0	37.4	33.9	33.5		
BTAS 342	015 358	42		57.1	77.3	62.5	71.9	62.5	72.0	37.4	33.9	33.5		
BTAS 317	015 359	54	2 1/8	77.1	94.1	77.7	87.5	77.7	82.8	40.8	37.0	36.5		
BTAS 417	015 360	54	2 1/8	106.8	144.5	118.3	134.4	118.3	154.7	78.2	70.9	70.0	A4F-D	009 912
CE marked, Conformity Assessment Cat. I, Procedure Module A														
BTAS 521	015 361		2 5/8	153.3	205.1	169.0	190.7	169.0	219.5	112.2	101.7	100.4	A5F-D	009 914
BTAS 525	015 362		3 1/8	181.2	242.0	199.4	225.1	199.4	259.1	132.6	120.2	118.7		
BTAS 580	015 363	80		181.2	242.0	199.4	225.1	199.4	259.1	132.6	120.2	118.7		

Note: Filter Drier Core has to be Ordered Separately.

Nominal capacity at +4°C evaporating temperature (saturated condition/ dew point) and a pressure drop of 0.21 bar between inlet and outlet of BTAS. Correction factor for other evaporating temperatures than +4°C:

$$Q_n = Q_o \times K_s$$

Q_n: Nominal capacity
K_s: Correction factor for a pressure drop corresponding 1K saturation temperature
Q_o: Required cooling capacity

Evaporating Temperature (°C)	+4	0	-5	-10	-15	-20	-25	-30	-35	-40
Correction Factor k_t	1.00	1.12	1.35	1.75	2.00	2.50	3.00	3.75	5.00	6.60

BTAS - Water and Acid Adsorption Capacity

Core	Water Adsorption Capacity (g)								Acid Adsorption Capacity (g)
	Liquid Temperature 24°C				Liquid Temperature 52°C				
	R134a	R22	R404A R507	R407C	R134a	R22	R404A R507	R407C	
A2F-D	2.8	2.5	2.9	4.8	2.3	1.9	2.3	5.0	3.7
A3F-D	7.6	6.8	8.0	13.3	6.3	5.3	6.2	13.8	10.3
A4F-D	14.8	13.3	15.7	25.9	12.2	10.3	12.2	26.9	20.1
A5F-D	21.8	19.6	23.1	38.2	18.0	15.1	17.9	39.7	29.6

Accessories and Spare Parts

Repair Kits with Cover, Screws and Gaskets	Type	Part No.
Repair Kit BTAS 2	KD 30519-2	065 970
Repair Kit BTAS 3	KD 30519-3	065 971
Repair Kit BTAS 4	KD 30519-4	065 972
Repair Kit BTAS 5	KD 30519-5	065 973