

Suction Line Filters and Filter Driers Series ASF and ASD

Hermetic design

Features

- Filtration down to 10 micron
- Two Schrader valves to measure pressure drop
- Compact size
- Temperature range -45°C to +65°C
- Max. operating pressure: 34,5 bar



Suction Line Filters Type	Order-No.	Connection				Nominal Capacity Q _n kW				
		Solder/ODF		Flare/SAE		R 134a	R 22	R 404A	R 407C	R507
		mm	inch	mm	inch					
ASF 28 S3	056 574		3/8			6,0	8,4	7,7	7,8	7,7
ASF 28 S4	056 575		1/2			9,9	14,4	13,4	13,4	13,4
ASF 35 F5	056 577			16	5/8	11,1	16,5	15,5	15,3	15,5
ASF 35 S5	056 578		5/8			15,9	23,2	21,4	21,6	21,4
ASF 45 S6	056 582		3/4			23,3	34,5	32,0	32,1	32,0
ASF 45 S7	056 580	22	7/8			32,5	42,5	34,5	39,5	34,5
ASF 50 S9	056 579		1-1/8			46,0	67,1	55,5	62,4	55,5
ASF 75 S11	056 581	35	1-3/8			60,2	85,4	70,7	79,4	70,7
ASF 75 S13	056 576		1-5/8			65,4	87,5	73,1	81,4	73,1

Suction Line Filter Driers Type	Order-No.	Connection				Nominal Capacity Q _n kW				
		Solder/ODF		Flare/SAE		R 134a	R 22	R 404A	R 407C	R507
		mm	inch	mm	inch					
ASD 28 S3	056564		3/8			5,5	8,1	7,4	7,5	7,4
ASD 28 S4	056565		1/2			9,1	13,4	12,7	12,5	12,7
ASD 35 F5	056567			16	5/8	10,7	15,5	14,4	14,4	14,4
ASD 35 S5	056569		5/8			14,3	20,4	19,0	19,0	19,0
ASD 45 S6	056570		3/4			19,1	24,6	22,5	22,9	22,5
ASD 45 S7	056571	22	7/8			25,0	32,3	26,4	30,0	26,4
ASD 50 S9	056572		1-1/8			35,3	46,4	38,3	43,2	38,3
ASD 75 S11	056573	35	1-3/8			42,9	56,9	47,8	52,9	47,8
ASD 75 S13	056566		1-5/8			45,2	60,8	51,0	56,5	51,0

Nominal capacity at +4°C evaporating temperature (saturated condition/dew point) and a pressure drop of 0.21 bar between inlet and outlet of ASF/ASD. 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 1 K saturation temperature

Q_o: Required cooling capacity

Correction Factor K _s Evaporating Temperature (°C)											
	+4	0	-5	-10	-15	-20	-25	-30	-35	-40	
K _s	1,00	1,12	1,35	1,75	2,00	2,50	3,00	3,75	5,00	6,60	K _s

Suction Line Filter and Filter Drier Shells Series BTAS

for Replaceable Filters and Filter Drier Cores

Features

- Filtration down to 10 micron
- Corrosion resistant
- Short and compact design
- Temperature range -45°C to +65°C
- Max. operating pressure: 27,6 bar



BTAS

Suction Line Shells Type	Order-No.	Connection Solder/ODF		Nominal Capacity Q _n kW					Filter Core	
		mm	inch	R 134a	R 22	R 404A	R 407C	R 507	Type	Order-No.
BTAS 25	049 460		5/8	12,5	17,1	13,9	15,9	13,9	A2F	049 479
BTAS 27	049 462	22	7/8	22,3	29,6	24,3	27,5	24,3		
BTAS 39	049 465		1-1/8	37,7	50,4	40,6	46,9	40,6	A3F	049 480
BTAS 311	049 466	35	1-3/8	60,3	80,7	65,2	75,1	65,2		
BTAS 342	060 243	42		73,4	97,5	81,1	90,7	81,1		
BTAS 313	049 467		1-5/8	73,4	97,5	81,1	90,7	81,1		
BTAS 317	049 468	54	2-1/8	97,6	127,7	104,8	118,8	104,8		
BTAS 417	049 471	54	2-1/8	134,7	178,2	145,3	165,7	145,3	A4F	049 481
BTAS 521	049 474		2-5/8	209,0	282,4	229,8	262,6	229,8	A5F	049 482
BTAS 580	056 334	80		260,1	346,1	283,9	321,9	283,9		
BTAS 525	049 475		3-1/8	260,1	346,1	283,9	321,9	283,9		

Filters and Filter Drier cores have to be ordered separately.

Suction Line Shells Type	Order-No.	Connection Solder/ODF		Nominal Capacity Q _n kW					Filter Drier Core	
		mm	inch	R 134a	R 22	R 404A	R 407C	R 507	Type	Order-No.
BTAS 25	049 460		5/8	11,6	15,5	12,8	14,4	12,8	A2F- D	049 483
BTAS 27	049 462	22	7/8	19,1	25,2	20,6	23,4	20,6		
BTAS 39	049 465		1-1/8	34,4	45,7	37,5	42,5	37,5	A3F- D	049 484
BTAS 311	049 466	35	1-3/8	49,2	65,5	53,7	60,9	53,7		
BTAS 342	060 243	42		57,1	77,3	62,5	71,9	62,5		
BTAS 313	049 467		1-5/8	57,1	77,3	62,5	71,9	62,5		
BTAS 317	049 468	54	2-1/8	71,1	94,1	77,7	87,5	77,7		
BTAS 417	049 471	54	2-1/8	106,8	144,5	118,3	134,4	118,3	A4F- D	049 485
BTAS 521	049 474		2-5/8	153,3	205,1	169,0	190,7	169,0	A5F- D	049 486
BTAS 580	056 334	80		181,2	242,0	199,4	225,1	199,4		
BTAS 525	049 475		3-1/8	181,2	242,0	199,4	225,1	199,4		

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: Nominal capacity

K_s: Correction factor for a pressure drop corresponding 1 K saturation temperature

Q_o: Required cooling capacity

$$Q_n = Q_o \times K_s$$

Correction Factor K _s											
Evaporating Temperature (°C)											
	+4	0	-5	-10	-15	-20	-25	-30	-35	-40	
K _s	1,00	1,12	1,35	1,75	2,00	2,50	3,00	3,75	5,00	6,60	K _s