



Filter Driers with Replaceable Core

The filter driers with replaceable core (HTG series) are used as drier in liquid line and suction line of refrigerating, freezing and air conditioning system. The filter housing allows to choose different kinds of cores. It's sealed by bottom cover for an easy removal and replacement of core from the bottom. The core holder requires minimum free space to remove the core for replacement.



FEATURES

- HIGH EFFICIENT IN MOISTURE ABSORPTION, FILTERING IMPURITY, ACID, PAINT REMAINS AND MUD REMOVAL
- HYBRID DESICCANT
- DURABLE AND SOLID FILTER CORES
- FILTERING FINENESS: 20 μ m
- CORROSION RESISTANT PAINTING CAN SURVIVE SALT SPRAY TEST OF 500 HOURS
- CONNECTION TYPE: FLARE OR SOLDER

FEATURES OF FILTER ELEMENT

• SH48-A80 FILTER ELEMENT:

80% 3A DESICCANT AND 20% ACTIVATED ALUMINA, IT PROVIDES A GOOD DESICCATION ABILITY AND AN ACID ABSORPTION CAPABILITY IN A WIDE TEMPERATURE RANGE. THE CORE RESISTANCE IS GUARANTEED WITH HIGH LEVEL OF VIBRATION THANKS TO AN ANTI-SHOCK DESIGN. SUGGESTED INSTALLATION POSITION ON LIQUID LINE

• SH48-A00 FILTER ELEMENT:

100% 3A DESICCANT
IT PROVIDES THE MAXIMUM LEVEL OF DESICCATION ABILITY IN A WIDE TEMPERATURE RANGE. THE CORE RESISTANCE IS GUARANTEED WITH HIGH LEVEL OF VIBRATION THANKS TO AN ANTI-SHOCK DESIGN. SUGGESTED INSTALLATION POSITION ON LIQUID LINE





SANHUA *SERIES HTG* Filter Driers with Replaceable Core

FEATURES OF FILTER ELEMENT

• SH48-A30 FILTER ELEMENT:

30% 3A DESICCANT , 70% ACTIVATED ALUMINA

THIS SOLID FILTER ELEMENT PROVIDES AN EXCELLENT ACID ABSORPTION TOGETHER WITH A STANDARD DESICCATION ABILITY IN A WIDE TEMPERATURE RANGE. THE SUGGESTED INSTALLATION POSITION IS ON THE SUCTION LINE; IT IS SUITABLE AFTER COMPRESSOR BURNOUT BECAUSE IT REMOVES ACID, IMPURITIES AND OTHER HARMFUL SUBSTANCE AVOIDING THE DAMAGE OF THE NEW COMPRESSOR.

SH48-A30 FILTER CORE IS COMPATIBLE WITH HCFC / HFC REFRIGERANTS AND ITS DESIGN OPTIMIZES THE FLOW PASSAGE GENERATING LOW INTERNAL PRESSURE DROP. THE CORE RESISTANCE IS GUARANTEED WITH HIGH LEVEL OF VIBRATION THANKS TO AN ANTI-SHOCK DESIGN.

GENERAL SPECIFICATION

- Applicable for all common HCFC and HFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507A ...
- Ambient temperature min./max.: -30°C / +55°
- Medium temperature TS min./max.: -40°C / +70°C
- Max. operating pressure PS: from 4,5 MPa (45 bar)
- (see table 1)
- Installation position:
 - HTG with SH48-A80 or SH48-A00 in liquid line
 - HTG with SH48-A30 in suction line
- Certifications: UL/CSA and PED declaration

TECHNICAL PARAMETERS

Desiccant Selection Table

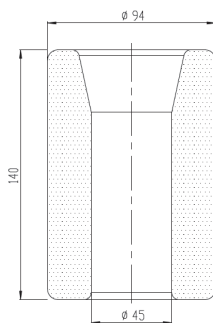
	Medium Type	30% 3A desiccant 70% active alumina	80% 3A desiccant 20% active alumina	100% 3A desiccant
Core Model	-	SH48-A30	SH48-A80	SH48-A00
Core Part Number	-	HTG-29101	HTG-29102	HTG-29103
Suggested Installation position	-	Suction Line	Liquid Line	Liquid Line
Refrigerant	HFC	Applicable	Applicable	Suggested
	HCFC	Suggested	Suggested	Applicable
	CFC	Applicable	Applicable	Not Applicable
	HC	Applicable	Applicable	Applicable
Oil	Mineral oil or AB	Suggested	Suggested	Applicable
	Pure POE or PAG	Applicable	Applicable	Suggested
	POE or PAG with additive	Not applicable	Not applicable	Applicable

- Note:**
- 1) For CFC system, usage of core with alumina is recommended as a strong capability to absorb acid may be needed
 - 2) When the systems use oil with additive, it is not recommended to use a core with alumina.





SANHUA SERIES HTG Filter Driers with Replaceable Core



Filter core dimensions

Model Designation Legend

1	Product Code	Filter Drier Series	
	HTG	Indicates replaceable core filter drier	
2	Internal volume	Expressed in inch ³	Expressed in cm ³
	A48	48	787
	A96	96	1573
	B44	144	2360
	B92	192	3146
3	Connection size	Pos. 4 shows "0": Solder [inch]	
	05	5/8	
	07	7/8	
	09	1 1/8	
	11	1 3/8	
	13	1 5/8	
	17	2 1/8	
	21	2 5/8	
	Connection size	Pos. 4 shows "1": Solder [mm]	
	05	16 - (5/8" version can be used e.g. HTG-A48 050)	
	07	22 - (7/8" version can be used e.g. HTG-A48 070)	
	28	28	
	11	35 - (1 3/8" version can be used e.g. HTG-A48 110)	
	42	42	
	17	54 - (2 1/8" version can be used e.g. HTG-A48 170)	
4	Pipe Connection	Type	
	0	Solder with inch connections	
	1 *	Solder with metric connections	
5	Version Number	Description	
	901	Standard product	

Note: * Solder connections which fit to metric and inch are marked with inch product codes e.g. 16, 22, 35 and 54mm





SANHUA *SERIES HTG* Filter Driers with Replaceable Core

MODEL DESIGNATION EXAMPLE

Position Number						According to Model Designation Legend
1	2	3	4	5	6	
HTG	A96	28	1	901		Replaceable core filter drier
HTG	A96	28	1	901		96 inch ³ internal volume
HTG	A96	28	1	901		When Pos. 4 is "1": connection size 28mm
HTG	A96	28	1	901		Solder connection metric
HTG	A96	28	1	901		Standard product





SANHUA SERIES HTG Filter Driers with Replaceable Core

GENERAL CHARACTERISTICS OF FILTER Table 1

Series	Model	Part Number	Solder Connections ODF		Number of cores	Dimensions & Weight					Design Pressure (MPa)	PED category
			[in]	[mm]		A	B	L	G	Weight ¹⁾		
						[mm]	[mm]	[mm]	[mm]	[kg]		
HTG A48s	HTG-A48050-901	HTG-29001	5/8	16	1	250	164	170	116	5,1	4,5	Cat. I
	HTG-A48070-901	HTG-29002	7/8	22		249	163	170	116	5,1	4,5	
	HTG-A48090-901	HTG-29003	1 1/8	-		254	168	170	121	5,1	4,5	
	HTG-A48281-901	HTG-29004	-	28		254	168	170	121	5,1	4,5	
	HTG-A48110-901	HTG-29005	1 3/8	35		253	167	170	121	5,1	4,5	
	HTG-A48130-901	HTG-29006	1 5/8	-		272	186	170	141	5,1	4,5	
	HTG-A48421-901	HTG-29007	-	42		272	186	170	141	5,1	4,5	
	HTG-A48170-901	HTG-29008	2 1/8	54		275	182	170	145	5,1	4,5	
	HTG-A48210-901	HTG-29009	2 5/8	-		277	177	170	149	5,1	4,5	
HTG A96s	HTG-A96050-901	HTG-29010	5/8	16	2	391	305	310	116	6,2	4,5	
	HTG-A96070-901	HTG-29011	7/8	22		390	304	310	116	6,2	4,5	
	HTG-A96090-901	HTG-29012	1 1/8	-		395	309	310	121	6,2	4,5	
	HTG-A96281-901	HTG-29013	-	28		395	309	310	121	6,2	4,5	
	HTG-A96110-901	HTG-29014	1 3/8	35		394	308	310	121	6,2	4,5	
	HTG-A96130-901	HTG-29015	1 5/8	-		413	327	310	141	6,2	4,5	
	HTG-A96421-901	HTG-29016	-	42		413	327	310	141	6,2	4,5	
	HTG-A96170-901	HTG-29017	2 1/8	54		416	323	310	145	6,2	4,5	
	HTG-A96210-901	HTG-29018	2 5/8	-		418	318	310	149	6,2	4,5	
HTG B44s	HTG-B44050-901	HTG-29019	5/8	16	3	532	446	310	116	7,6	4,5	
	HTG-B44070-901	HTG-29020	7/8	22		531	445	310	116	7,6	4,5	
	HTG-B44090-901	HTG-29021	1 1/8	-		536	450	310	121	7,6	4,5	
	HTG-B44281-901	HTG-29022	-	28		536	450	310	121	7,6	4,5	
	HTG-B44110-901	HTG-29023	1 3/8	35		535	449	310	121	7,6	4,5	
	HTG-B44130-901	HTG-29024	1 5/8	-		554	468	310	141	7,6	4,5	
	HTG-B44421-901	HTG-29025	-	42		554	468	310	141	7,6	4,5	
	HTG-B44170-901	HTG-29026	2 1/8	54		557	464	310	145	7,6	4,5	
	HTG-B44210-901	HTG-29027	2 5/8	-		559	459	310	149	7,6	4,5	
HTG B92s	HTG-B92050-901	HTG-29028	5/8	16	4	677	591	310	116	9,1	4,5	
	HTG-B92070-901	HTG-29029	7/8	22		676	590	310	116	9,1	4,5	
	HTG-B92090-901	HTG-29030	1 1/8	-		681	595	310	121	9,1	4,5	
	HTG-B92281-901	HTG-29031	-	28		681	595	310	121	9,1	4,5	
	HTG-B92110-901	HTG-29032	1 3/8	35		680	594	310	121	9,1	4,5	
	HTG-B92130-901	HTG-29033	1 5/8	-		699	613	310	141	9,1	4,5	
	HTG-B92421-901	HTG-29034	-	42		699	613	310	141	9,1	4,5	
	HTG-B92170-901	HTG-29035	2 1/8	54		702	609	310	145	9,1	4,5	
	HTG-B92210-901	HTG-29036	2 5/8	-		704	604	310	149	9,1	4,5	

Note: 1) Weight of filter shell (must be added the filter core weight: 0.6 kg)





SANHUA SERIES HTG Filter Driers with Replaceable Core

SELECTION TABLE - WITH CORE SH48-A00 Table 2

Model	Acid Adsorption capacity (g)	Capacity [kW] ¹					Moisture Absorption [gram H ₂ O]							
		R134a	R404A	R22	R407C ²	R410A	R134a		R404A		R407C ²		R22	
			R507A				75°F	125°F	75°F	125°F	R410A		75°F	125°F
											23,9°C	51,7°C		
HTG-A48050-901	-	65,5	45,9	67,6	67,6	67,6	67,4	58,1	72,6	59,6	57,0	51,8	62,2	57,0
HTG-A48070-901	-	104,7	73,5	108,2	108,2	108,2	67,4	58,1	72,6	59,6	57,0	51,8	62,2	57,0
HTG-A48090-901	-	150,5	105,7	155,4	155,4	155,4	67,4	58,1	72,6	59,6	57,0	51,8	62,2	57,0
HTG-A48281-901	-	150,5	105,7	155,4	155,4	155,4	67,4	58,1	72,6	59,6	57,0	51,8	62,2	57,0
HTG-A48110-901	-	202,7	142,5	209,3	209,3	209,3	67,4	58,1	72,6	59,6	57,0	51,8	62,2	57,0
HTG-A48130-901	-	248,9	174,7	256,6	256,6	256,6	67,4	58,1	72,6	59,6	57,0	51,8	62,2	57,0
HTG-A48421-901	-	59,9	174,7	256,6	256,6	256,6	67,4	58,1	72,6	59,6	57,0	51,8	62,2	57,0
HTG-A48170-901	-	353,5	248,2	364,7	364,7	364,7	67,4	58,1	72,6	59,6	57,0	51,8	62,2	57,0
HTG-A48210-901	-	392,7	276,2	405,7	405,7	405,7	67,4	58,1	72,6	59,6	57,0	51,8	62,2	57,0
HTG-A96050-901	-	65,5	45,9	67,6	67,6	67,6	134,8	116,1	145,2	119,2	114,0	103,7	124,4	114,0
HTG-A96070-901	-	104,7	73,5	108,2	108,2	108,2	134,8	116,1	145,2	119,2	114,0	103,7	124,4	114,0
HTG-A96090-901	-	150,5	105,7	155,4	155,4	155,4	134,8	116,1	145,2	119,2	114,0	103,7	124,4	114,0
HTG-A96281-901	-	150,5	105,7	155,4	155,4	155,4	134,8	116,1	145,2	119,2	114,0	103,7	124,4	114,0
HTG-A96110-901	-	202,7	142,5	209,3	209,3	209,3	134,8	116,1	145,2	119,2	114,0	103,7	124,4	114,0
HTG-A96130-901	-	248,9	174,7	256,6	256,6	256,6	134,8	116,1	145,2	119,2	114,0	103,7	124,4	114,0
HTG-A96421-901	-	248,9	174,7	256,6	256,6	256,6	134,8	116,1	145,2	119,2	114,0	103,7	124,4	114,0
HTG-A96170-901	-	353,5	248,2	364,7	364,7	364,7	134,8	116,1	145,2	119,2	114,0	103,7	124,4	114,0
HTG-A96210-901	-	392,7	276,2	405,7	405,7	405,7	134,8	116,1	145,2	119,2	114,0	103,7	124,4	114,0
HTG-B44050-901	-	65,5	45,9	67,6	67,6	67,6	202,2	174,3	217,8	178,8	171,0	155,4	186,6	171,0
HTG-B44070-901	-	104,7	73,5	108,2	108,2	108,2	202,2	174,3	217,8	178,8	171,0	155,4	186,6	171,0
HTG-B44090-901	-	150,5	105,7	155,4	155,4	155,4	202,2	174,3	217,8	178,8	171,0	155,4	186,6	171,0
HTG-B44281-901	-	150,5	105,7	155,4	155,4	155,4	202,2	174,3	217,8	178,8	171,0	155,4	186,6	171,0
HTG-B44110-901	-	202,7	142,5	209,3	209,3	209,3	202,2	174,3	217,8	178,8	171,0	155,4	186,6	171,0
HTG-B44130-901	-	248,9	174,7	256,6	256,6	256,6	202,2	174,3	217,8	178,8	171,0	155,4	186,6	171,0
HTG-B44421-901	-	248,9	174,7	256,6	256,6	256,6	202,2	174,3	217,8	178,8	171,0	155,4	186,6	171,0
HTG-B44170-901	-	353,5	248,2	364,7	364,7	364,7	202,2	174,3	217,8	178,8	171,0	155,4	186,6	171,0
HTG-B44210-901	-	392,7	276,2	405,7	405,7	405,7	202,2	174,3	217,8	178,8	171,0	155,4	186,6	171,0
HTG-B92050-901	-	65,5	45,9	67,6	67,6	67,6	269,6	232,4	290,4	238,4	228,0	207,2	248,8	228,0
HTG-B92070-901	-	104,7	73,5	108,2	108,2	108,2	269,6	232,4	290,4	238,4	228,0	207,2	248,8	228,0
HTG-B92090-901	-	150,5	105,7	155,4	155,4	155,4	269,6	232,4	290,4	238,4	228,0	207,2	248,8	228,0
HTG-B92281-901	-	150,5	105,7	155,4	155,4	155,4	269,6	232,4	290,4	238,4	228,0	207,2	248,8	228,0
HTG-B92110-901	-	202,7	142,5	209,3	209,3	209,3	269,6	232,4	290,4	238,4	228,0	207,2	248,8	228,0
HTG-B92130-901	-	248,9	174,7	256,6	256,6	256,6	269,6	232,4	290,4	238,4	228,0	207,2	248,8	228,0
HTG-B92421-901	-	248,9	174,7	256,6	256,6	256,6	269,6	232,4	290,4	238,4	228,0	207,2	248,8	228,0
HTG-B92170-901	-	353,5	248,2	364,7	364,7	364,7	269,6	232,4	290,4	238,4	228,0	207,2	248,8	228,0
HTG-B92210-901	-	392,7	276,2	405,7	405,7	405,7	269,6	232,4	290,4	238,4	228,0	207,2	248,8	228,0

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SANHUA *SERIES HTG*

Filter Driers with Replaceable Core

SELECTION TABLE - WITH CORE SH48-A80 Table 3

Model	Acid Adsorption capacity (g) ³⁾	Capacity [kW] ¹⁾					Moisture Absorption [gram H ₂ O]							
		R134a	R404A	R22	R407C ²⁾	R410A	R134a		R404A		R407C ²⁾		R22	
			R507A				75°F	125°F	75°F	125°F	R410A		75°F	125°F
		23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C			
		HTG-A48050-901	10	65,5	45,9	67,6	67,6	67,6	58,0	50,0	61,7	50,7	47,9	43,5
HTG-A48070-901	104,7	73,5		108,2	108,2	108,2	58,0	50,0	61,7	50,7	47,9	43,5	52,9	48,5
HTG-A48090-901	150,5	105,7		155,4	155,4	155,4	58,0	50,0	61,7	50,7	47,9	43,5	52,9	48,5
HTG-A48281-901	150,5	105,7		155,4	155,4	155,4	58,0	50,0	61,7	50,7	47,9	43,5	52,9	48,5
HTG-A48110-901	202,7	142,5		209,3	209,3	209,3	58,0	50,0	61,7	50,7	47,9	43,5	52,9	48,5
HTG-A48130-901	248,9	174,7		256,6	256,6	256,6	58,0	50,0	61,7	50,7	47,9	43,5	52,9	48,5
HTG-A48421-901	59,9	174,7		256,6	256,6	256,6	58,0	50,0	61,7	50,7	47,9	43,5	52,9	48,5
HTG-A48170-901	353,5	248,2		364,7	364,7	364,7	58,0	50,0	61,7	50,7	47,9	43,5	52,9	48,5
HTG-A48210-901	392,7	276,2		405,7	405,7	405,7	58,0	50,0	61,7	50,7	47,9	43,5	52,9	48,5
HTG-A96050-901	20	65,5	45,9	67,6	67,6	67,6	115,9	99,8	123,4	101,3	95,8	87,1	105,7	96,9
HTG-A96070-901		104,7	73,5	108,2	108,2	108,2	115,9	99,8	123,4	101,3	95,8	87,1	105,7	96,9
HTG-A96090-901		150,5	105,7	155,4	155,4	155,4	115,9	99,8	123,4	101,3	95,8	87,1	105,7	96,9
HTG-A96281-901		150,5	105,7	155,4	155,4	155,4	115,9	99,8	123,4	101,3	95,8	87,1	105,7	96,9
HTG-A96110-901		202,7	142,5	209,3	209,3	209,3	115,9	99,8	123,4	101,3	95,8	87,1	105,7	96,9
HTG-A96130-901		248,9	174,7	256,6	256,6	256,6	115,9	99,8	123,4	101,3	95,8	87,1	105,7	96,9
HTG-A96421-901		248,9	174,7	256,6	256,6	256,6	115,9	99,8	123,4	101,3	95,8	87,1	105,7	96,9
HTG-A96170-901		353,5	248,2	364,7	364,7	364,7	115,9	99,8	123,4	101,3	95,8	87,1	105,7	96,9
HTG-A96210-901		392,7	276,2	405,7	405,7	405,7	115,9	99,8	123,4	101,3	95,8	87,1	105,7	96,9
HTG-B44050-901	30	65,5	45,9	67,6	67,6	67,6	173,9	149,9	185,1	152,0	143,6	130,5	158,6	145,4
HTG-B44070-901		104,7	73,5	108,2	108,2	108,2	173,9	149,9	185,1	152,0	143,6	130,5	158,6	145,4
HTG-B44090-901		150,5	105,7	155,4	155,4	155,4	173,9	149,9	185,1	152,0	143,6	130,5	158,6	145,4
HTG-B44281-901		150,5	105,7	155,4	155,4	155,4	173,9	149,9	185,1	152,0	143,6	130,5	158,6	145,4
HTG-B44110-901		202,7	142,5	209,3	209,3	209,3	173,9	149,9	185,1	152,0	143,6	130,5	158,6	145,4
HTG-B44130-901		248,9	174,7	256,6	256,6	256,6	173,9	149,9	185,1	152,0	143,6	130,5	158,6	145,4
HTG-B44421-901		248,9	174,7	256,6	256,6	256,6	173,9	149,9	185,1	152,0	143,6	130,5	158,6	145,4
HTG-B44170-901		353,5	248,2	364,7	364,7	364,7	173,9	149,9	185,1	152,0	143,6	130,5	158,6	145,4
HTG-B44210-901		392,7	276,2	405,7	405,7	405,7	173,9	149,9	185,1	152,0	143,6	130,5	158,6	145,4
HTG-B92050-901	40	65,5	45,9	67,6	67,6	67,6	231,9	199,9	246,8	202,6	191,5	174,0	211,5	193,8
HTG-B92070-901		104,7	73,5	108,2	108,2	108,2	231,9	199,9	246,8	202,6	191,5	174,0	211,5	193,8
HTG-B92090-901		150,5	105,7	155,4	155,4	155,4	231,9	199,9	246,8	202,6	191,5	174,0	211,5	193,8
HTG-B92281-901		150,5	105,7	155,4	155,4	155,4	231,9	199,9	246,8	202,6	191,5	174,0	211,5	193,8
HTG-B92110-901		202,7	142,5	209,3	209,3	209,3	231,9	199,9	246,8	202,6	191,5	174,0	211,5	193,8
HTG-B92130-901		248,9	174,7	256,6	256,6	256,6	231,9	199,9	246,8	202,6	191,5	174,0	211,5	193,8
HTG-B92421-901		248,9	174,7	256,6	256,6	256,6	231,9	199,9	246,8	202,6	191,5	174,0	211,5	193,8
HTG-B92170-901		353,5	248,2	364,7	364,7	364,7	231,9	199,9	246,8	202,6	191,5	174,0	211,5	193,8
HTG-B92210-901		392,7	276,2	405,7	405,7	405,7	231,9	199,9	246,8	202,6	191,5	174,0	211,5	193,8

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SANHUA SERIES HTG Filter Driers with Replaceable Core

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) R22, 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):

- 60ppm R22
- 50ppm R134a
- 50ppm R404A
- 50ppm R407C
- 50ppm R410A
- 50ppm R507A

SUCTION LINE FILTER-DRIERS

Any pressure loss in the suction line also reduces system capacity significantly. Obtaining a low pressure drop is particularly important for energy savings on all the air conditioning and refrigeration systems. Therefore, suction line filter-driers should be sized generously on these systems. Sanhua suggests that the pressure drop across it should not exceed the values given in the table below (table 4: DP limits in metric units; table 5: DP limits in imperial units)

SUCTION LINE FILTER DRIER MAXIMUM RECOMMENDED PRESSURE DROP (BAR) Table 4

System	Evaporator Saturated Suction Temperature ⁴⁾ (°C)	Permanent Installation		Temporary Installation	
		Refrigerant			
		R22; R404A; R407C; R410A, R507	R134a	R22; R404A; R407C; R410A, R507	R134a
Air conditioning	4	0,21	0,14	0,56	0,42
Commercial	-7	0,14	0,105	0,28	0,21
Low temperature	-29	0,07	0,035	0,14	0,07

SUCTION LINE FILTER DRIER MAXIMUM RECOMMENDED PRESSURE DROP (PSI) Table 5

System	Evaporator Saturated Suction Temperature ⁵⁾ (°F)	Permanent Installation		Temporary Installation	
		Refrigerant			
		R22; R404A; R407C; R410A, R507	R134a	R22; R404A; R407C; R410A, R507	R134a
Air conditioning	40	3	2	8	6
Commercial	20	2	1,5	4	3
Low temperature	-20	1	0,5	2	1





SANHUA *SERIES HTG* Filter Driers with Replaceable Core

SUCTION LINE FLOW CAPACITY WITH CORE SH48-A30 (KW) ⁽¹⁾ Table 6

NO.	Model	Capacity (kW)											
		Evaporation temperature (°C)											
		-40	-20	4,4	-30	-20	4,4	-40	-20	4,4	-40	-20	4,4
		Pressure drop (bar)											
		0,04	0,10	0,21	0,04	0,07	0,14	0,04	0,10	0,21	0,04	0,10	0,21
		R22/R407C			R134a			R404A/R507			R410A		
1	HTG-A48050-901	3,0	8,5	20,0	2,9	5,1	12,4	2,3	6,7	16,6	3,0	8,5	20,0
2	HTG-A48070-901	5,5	15,5	36,0	5,3	9,4	22,2	4,3	12,3	29,6	5,5	15,3	36,0
3	HTG-A48090-901	7,4	20,5	48,5	7,1	12,6	30,0	5,7	16,3	40,0	7,4	20,5	48,5
4	HTG-A48281-901	7,4	20,5	48,5	7,1	12,6	30,0	5,7	16,3	40,0	7,4	20,5	48,5
5	HTG-A48110-901	9,5	26,0	61,0	9,1	16,0	37,5	7,3	20,7	50,0	9,5	26,0	61,0
6	HTG-A48130-901	9,5	26,0	61,0	9,1	16,0	37,5	7,3	20,7	50,0	9,5	26,0	61,0
7	HTG-A48421-901	9,5	26,0	61,0	9,1	16,0	37,5	7,3	20,7	50,0	9,5	26,0	61,0
8	HTG-A48170-901	9,5	26,0	61,0	9,1	16,0	37,5	7,3	20,7	50,0	9,5	26,0	61,0
9	HTG-A48210-901	9,5	26,0	61,0	9,1	16,0	37,5	7,3	20,7	50,0	9,5	26,0	61,0
10	HTG-A96050-901	3,1	8,6	20,3	3,0	5,4	12,7	2,4	7,0	17,1	3,1	8,7	20,5
11	HTG-A96070-901	5,5	15,4	36,2	5,3	9,4	22,4	4,3	12,3	29,8	5,5	15,4	36,2
12	HTG-A96090-901	8,3	23,4	55,4	8,0	14,3	34,1	6,5	18,7	46,0	8,3	23,4	56,0
13	HTG-A96281-901	8,3	23,4	55,4	8,0	14,3	34,1	6,5	18,7	46,0	8,3	23,4	56,0
14	HTG-A96110-901	11,3	32,0	76,0	10,8	19,4	46,5	8,8	25,5	63,0	11,3	32,0	76,0
15	HTG-A96130-901	13,5	38,0	91,0	13,0	23,1	55,6	10,5	30,4	75,0	13,4	38,0	91,0
16	HTG-A96421-901	13,5	38,0	91,0	13,0	23,1	55,6	10,5	30,4	75,0	13,4	38,0	91,0
17	HTG-A96170-901	13,5	38,0	91,0	13,0	23,1	55,6	10,5	30,4	75,0	13,4	38,0	91,0
18	HTG-A96210-901	13,5	38,0	91,0	13,0	23,1	55,6	10,5	30,4	75,0	13,4	38,0	91,0
19	HTG-B44050-901	3,3	9,5	21,7	3,2	5,7	13,3	2,6	7,3	16,5	3,3	9,5	21,7
20	HTG-B44070-901	6,3	18,0	41,0	6,0	10,6	25,1	4,8	13,8	34,0	6,3	18,0	41,0
21	HTG-B44090-901	8,4	24,0	55,0	8,0	14,3	34,0	6,5	18,5	46,0	8,4	24,0	55,0
22	HTG-B44281-901	8,4	24,0	55,0	8,0	14,3	34,0	6,5	18,5	46,0	8,4	24,0	55,0
23	HTG-B44110-901	12,5	36,5	89,0	12,1	22,0	54,0	9,8	29,2	73,0	12,5	36,5	89,0
24	HTG-B44130-901	12,5	36,5	89,0	12,1	22,0	54,0	9,8	29,2	73,0	12,5	36,5	89,0
25	HTG-B44421-901	12,5	36,5	89,0	12,1	22,0	54,0	9,8	29,2	73,0	12,5	36,5	89,0
26	HTG-B44170-901	12,5	36,5	89,0	12,1	22,0	54,0	9,8	29,2	73,0	12,5	36,5	89,0
27	HTG-B44210-901	12,5	36,5	89,0	12,1	22,0	54,0	9,8	29,2	73,0	12,5	36,5	89,0
28	HTG-B92050-901	4,0	10,9	25,9	3,8	6,7	16,0	3,0	8,7	21,6	4,0	10,9	25,9
29	HTG-B92070-901	7,5	20,5	48,8	7,2	12,7	30,0	5,8	16,5	40,6	7,5	20,5	48,8
30	HTG-B92090-901	10,1	27,5	66,0	9,7	17,1	40,0	7,8	22,1	54,3	10,1	27,5	66,0
31	HTG-B92281-901	10,1	27,5	66,0	9,7	17,1	40,0	7,8	22,1	54,3	10,1	27,5	66,0
32	HTG-B92110-901	14,1	39,7	95,0	13,6	24,2	58,1	11,0	31,9	78,1	14,1	39,7	95,0
33	HTG-B92130-901	17,1	49,0	118,0	16,5	30,0	72,0	13,4	39,0	97,0	17,1	49,0	118,0
34	HTG-B92421-901	17,1	49,0	118,0	16,5	30,0	72,0	13,4	39,0	97,0	17,1	49,0	118,0
35	HTG-B92170-901	17,1	49,0	118,0	16,5	30,0	72,0	13,4	39,0	97,0	17,1	49,0	118,0
36	HTG-B92210-901	17,1	49,0	118,0	16,5	30,0	72,0	13,4	39,0	97,0	17,1	49,0	118,0

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SANHUA SERIES HTG Filter Driers with Replaceable Core

The capacities listed in the table 6 are rated at the maximum recommended pressure drop for permanent installation. Suction line Filter-Driers guarantees an acid removal and a drying capacity described in table 7:

DRYING CAPACITY: SH48-A30 ⁽¹⁾ Table 7

Filter Type		HTG-A48	HTG-A96	HTG-B44	HTG-B92
Number of cores		1	2	3	4
Acid Adsorption capacity (g) ³⁾		28,0	56,0	84,0	112,0
Refrigerant	Evaporating Temp. (°C) ⁴⁾	Moisture Absorption [gram H ₂ O]			
R22/ R407C ²⁾	-40,0	26,0	52,0	78,0	104,0
	-20,0	18,0	36,3	54,0	72,0
	4,4	11,0	22,0	32,0	43,0
R134a	-30,0	43,0	86,0	129,0	172,0
	-20,0	36,0	72,0	108,0	144,0
	4,4	25,0	50,0	75,0	100,0
R404A / R507	-40,0	45,0	90,0	135,0	180,0
	-20,0	28,0	56,0	84,0	112,0
	4,4	18,0	36,0	54,0	72,0
R410A	-40,0	40,0	80,0	120,0	160,0
	-20,0	33,0	66,0	99,0	132,0
	4,4	24,0	48,0	72,0	96,0

Drying capacity is expressed during drying in:

R22: EPD = 10 ppm W, corresponding dew point temperature is -50°C

R134a: EPD = 50 ppm W, corresponding dew point temperature is -37°C

R404A: EPD = 10 ppm W, corresponding dew point temperature is -40°C

R407C: EPD = 10 ppm W, corresponding dew point temperature is -40°C

- Note:**
- 1) The data reported in the Table 2, 3, 6 and 7 are based on filter driers in a clean system at ideal conditions; with impurities accumulated in the filter, the capacity may decrease.
 - 2) R407C data based on dew point conditions
 - 3) Adsorption capacity of oleic acid at 0.05 TAN (Total Acid Number)
 - 4) Standard Evaporating Temperature defined by ANSI.AHRI Standard 731 (SI)-2013
 - 5) Standard Evaporating Temperature defined by ANSI.AHRI Standard 730 (I-P)-2013

