

SANHUA is the world's largest producer of Micro-Channel Heat Exchangers

for Stationary HVACe-R application



SANHUA DELIVERS OVER 1,300,000 MCHE CONDENSERS (CO & HP) AND EVAPORATORS HELPING TO IMPROVE SYSTEM EFFICIENCY BY UP TO 30%

ADVANCED
Technology & Solutions

- ✓ Improves efficiency by **30%**
- ✓ Refrigerant Charge Reduction by **30%** Environmental Friendly
- ✓ MCHE is lighter in weight, smaller in volume Compact Design



Uni-Flow Filter Driers

DTG/L SERIES



The filter driers of series DTG are used in refrigeration system with unidirectional flow to absorb moisture and acid in the system and to filter out the impurities.

REFRIGERANT

R22, R134a, R404A, R407C, R410A, R507A

FILTRATION 20 µm

LARGE TEMPERATURE SERVICE RANGE -30°C to +120°C

PS 48,3 bar

SELECTION FORMULAS

Filter Drier 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) 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
- PS: 4,83 MPa
- 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
- 15ppm R12
- 30ppm R502
- 50ppm R134a, R404A, R507A, R410A, R407C

Note: The above data is based on clean system at ideal conditions; with impurities accumulated in the filter, the flow may decrease.

SOLID FILTER CORE*

Part number	Capacity [kW]					Moisture Absorption (gram H ₂ O)								Connection SAE Flare (inch)
	R134a	R404A/R507A	R22	R407C	R410A	R134a		R404A/R507A		R407C/R410A		R22		
	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C		
DTG-30001	7.7	6.7	8.1	8.1	8.1	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	1/4
DTG-30002	14.4	10.6	14.8	14.8	14.8	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	3/8
DTG-30003	24.6	17.2	25	24.6	25	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	1/2
DTG-30004	8.4	6	8.4	8.4	8.4	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	1/4
DTG-30005	23.9	16.9	24.3	23.9	24.6	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	3/8
DTG-30006	8.4	6	8.4	8.4	8.4	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	1/4
DTG-30007	25	17.6	25.3	25	25.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	3/8
DTG-30008	30.6	21.5	31.3	30.9	31.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	1/2
DTG-30009	10.9	7.7	11.3	10.9	11.3	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	1/4
DTG-30010	25.7	17.9	26	26	26.4	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	3/8
DTG-30011	32.4	22.9	33.1	32.7	33.8	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	1/2
DTG-30012	43.3	30.6	43.6	43.6	44.3	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	5/8
DTG-30013	46.4	32.7	47.1	46.8	47.8	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	3/4
DTG-30014	25.7	17.9	26	26	26.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	3/8
DTG-30015	33.1	23.2	33.8	33.4	34.1	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	1/2
DTG-30016	45.7	32	46.4	46.1	46.8	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	5/8
DTG-30017	62.6	44	63.7	63.3	64.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	3/4
DTG-30018	63	44.3	64	63.7	64.7	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	7/8
DTG-30019	35.2	24.6	35.9	35.5	36.2	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	1/2
DTG-30020	60.8	42.9	61.9	61.5	62.6	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	5/8

Part number	Capacity [kW]					Moisture Absorption (gram H ₂ O)								Connection Solder (inch)
	R134a	R404A/R507A	R22	R407C	R410A	R134a		R404A/R507A		R407C/R410A		R22		
	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C		
DTG-30020	7.7	6.7	8.1	8.1	8.1	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	1/4
DTG-30021	9.5	6.7	9.5	9.5	9.8	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	5/16
DTG-30022	14.4	10.6	14.8	14.8	14.8	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	3/8
DTG-30023	24.6	17.2	25	24.6	25	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	1/2
DTG-30024	8.4	6	8.4	8.4	8.4	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	1/4
DTG-30025	10.9	7.4	10.9	10.9	11.3	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	5/16
DTG-30026	23.9	16.9	24.3	23.9	24.6	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	3/8
DTG-30027	25.3	17.9	25.7	25.7	26	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	1/2
DTG-30028	34.8	24.6	35.5	35.2	35.9	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	5/8
DTG-30029	8.4	6	8.4	8.4	8.4	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	1/4
DTG-30030	11.6	8.1	12	11.6	12	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	5/16
DTG-30031	25	17.6	25.3	25	25.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	3/8
DTG-30032	30.6	21.5	31.3	30.9	31.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	1/2
DTG-30033	44.7	31.7	45.7	45.4	46.1	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	5/8
DTG-30034	10.9	7.7	11.3	10.9	11.3	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	1/4
DTG-30035	11.6	8.1	12	11.6	12	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	5/16
DTG-30036	25.7	17.9	26	26	26.4	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	3/8
DTG-30037	32.4	22.9	33.1	32.7	33.8	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	1/2
DTG-30038	43.3	30.6	43.6	43.6	44.3	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	5/8
DTG-30039	46.4	32.7	47.1	46.8	47.8	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	3/4
DTG-30040	47.1	33.4	48.2	47.8	48.5	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	7/8
DTG-30041	25.7	17.9	26	26	26.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	3/8
DTG-30042	33.1	23.2	33.8	33.4	34.1	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	1/2
DTG-30043	45.7	32	46.4	46.1	46.8	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	5/8
DTG-30044	62.6	44	63.7	63.3	64.4	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	3/4
DTG-30045	63	44.3	64	63.7	64.7	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	7/8
DTG-30046	70.7	52.1	75.3	74.6	76	51.4	48.7	83.4	51.4	51.3	43.7	52.1	44.1	1 1/8
DTG-30047	35.2	24.6	35.9	35.5	36.2	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	1/2
DTG-30048	60.8	42.9	61.9	61.5	62.6	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	5/8
DTG-30049	90.4	63.7	91.8	91.4	92.8	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	7/8
DTG-30050	92.1	64.7	93.6	92.8	94.6	63.7	59.7	103.5	55.7	63.7	58.9	70.2	59.4	1 1/8
DTG-30051	91.4	64	92.8	91.8	93.9	123.3	115.6	200.3	107.9	123.3	114	135.8	114.9	7/8
DTG-30052	95.3	67.2	97.1	96.4	98.1	123.3	115.6	200.3	107.9	123.3	114	135.8	114.9	1 1/8

Part number	Capacity [kW]					Moisture Absorption (gram H ₂ O)								Connection Solder (mm)
	R134a	R404A/R507A	R22	R407C	R410A	R134a		R404A/R507A		R407C/R410A		R22		
	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C	75°F 23.9°C	125°F 51.7°C		
DTG-30053	7.7	6.7	8.1	8.1	8.1	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	6
DTG-30021	9.5	6.7	9.5	9.5	9.8	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	8
DTG-30055	14.4	10.6	14.8	14.8	14.8	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	10
DTG-30056	24.6	17.2	25	24.6	25	4.2	3.8	5.7	3.4	3.4	3.1	3.7	3.4	12
DTG-30057	8.4	6	8.4	8.4	8.4	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	6
DTG-30025	10.9	7.4	10.9	10.9	11.3	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	8
DTG-30059	23.9	16.9	24.3	23.9	24.6	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	10
DTG-30060	25.3	17.9	25.7	25.7	26	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	12
DTG-30054	34.8	24.6	35.5	35.2	35.9	11.6	10.9	17.7	10.2	10.9	9.5	11.4	9.7	16
DTG-30061	8.4	6	8.4	8.4	8.4	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	6
DTG-30030	11.6	8.1	12	11.6	12	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	8
DTG-30063	25	17.6	25.3	25	25.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	10
DTG-30064	30.6	21.5	31.3	30.9	31.7	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	12
DTG-30062	44.7	31.7	45.7	45.4	46.1	14.8	14.2	23.7	19.8	14.8	13	15.5	13.1	16
DTG-30065	10.9	7.7	11.3	10.9	11.3	20.6	19.5	33.2	18.3	20.6	17.6	20.9	17.7	6
DTG-30035														