



General Product Catalogue

AIR CONDITIONING

COMMERCIAL REFRIGERATION

HEAT PUMP



SANEUA

"Strive for perfection, **Pursuit of excellence**"

Sanhua is a leading HVAC&R manufacturer of controls and components with a global footprint and 30 years of experience. Our co-operation with the largest companies in the Automotive, Appliance and HVAC&R industry makes Sanhua a leading worldwide OEM supplier providing the highest quality components at the most competitive price.

Furthermore, strategic acquisitions by Sanhua of leading HVAC brands such as Ranco and Aweco and joint venture projects with Danfoss transformed Sanhua into one of the largest manufacturers of Expansion, Solenoid and Reversing Valves with annual valve sales exceeding 100 Million pieces.

SANHUA IS LISTED IN TOP 100 STRONGEST CHINESE INDUSTRIAL BRANDS.

After sustainable growth over the last 3 decades, Sanhua have made significant progress to introduce a comprehensive range of controls and line components for the Commercial Air conditioning and Refrigeration Industries and to increase its service level coverage in the most important European markets.



SUMMARY

ELECTRONIC EXPANSION VALVE 0 SERIES ELECTRONIC EXPANSION VALVE R SERIES	
RESIDENTIAL INVERTER CONTROLLER INVERTER CONTROLLER FOR LARGE SYSTEM INVERTER CONTROLLER FOR HP WATER HEATER STANDAR INVERTER COMPRESSOR CONTROLLER	
SOLENOID VALVE MDF FLANGE SERIES SOLENOID VALVE FDF FLANGE SERIES	
CHECK VALVE FLOAT TYPE SERIES RECEIVER VALVE ZJF SERIES BAR-STOCK SERVICE VALVE SMV SERIES	. 28
1.5 IN3 FILTER DRIER DTG-M02 SERIES BI-STABLE SOLENOID VALVE BDF/KMV SERIES STEP VALVE DDF SERIES DRAIN PUMP A SERIES DRAIN PUMP B SERIES FLOAT LEVEL SWITCH YKG (A) SERIES ACCUMULATOR P SERIES ACCUMULATOR S SERIES LIQUID RECEIVER V SERIES SUCTION LINE ACCUMULATOR (COMPRESSOR) KCY SERIES COMPENSATOR JYQ SERIES MUFFLER TXY/XYQ SERIES PESSURE VESSEL Y SERIES ASSEMBLY GZJ SERIES	38 40 42 44 46 48 50 52 52 54 52 58 58 58

Note: Sanhua accepts no responsibility for any errors that may occur in this catalogue. Sanhua accepts no responsibility for any product selection made from this material, it is the customers sole responsibility to ensure the correct selection of any components.





Technical information sanhuaclimate.com





SANHUA INTERNATIONAL info@sanhuaeurope.com



Note: Conditions could change without previous notice due to components updating or typing mistakes. Sanhua declines any responsibility for a wrong product choice based on this table. Please make sure all your requirements are covered in our suggestion

GLOBAL FOOTPRINT & LOCAL SUPPORT



- Technical Service Hotline in 4 languages (English, Italian, German and Spanish)
- On site engineering support on request.
- Online Data Sheets and product catalogues.
- B2B Customer Platform, on line 24x7 order & stock management.

EMEA CENTRAL WAREHOUSE

- LOCATION: BIERUN (POLAND)
- CAPACITY: 4000 SQ. M.-3.500 PALLETS
- ON-LINE DELIVERIES TRACKING SYSTEM
- OPENING HOURS FLEXIBILITY
- URGENCIES MANAGEMENT

QUALITY AND R&D

The company has a sufficient number of modern manufacturing equipment, advanced production engineering and effective control tools.

Products of Sanhua have passed many international and domestic safety certificates such as CQC, CE, TüV, UL, VDE, and have gained trust and satisfaction from customers with reliable and continuous-improving quality.

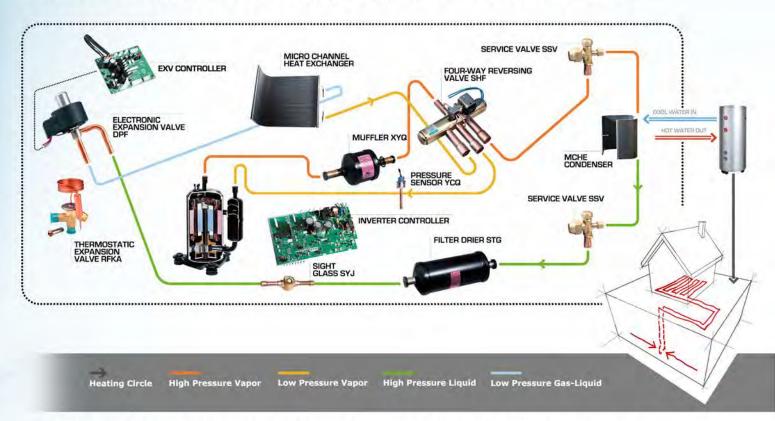
ISO9001 Quality Management System ISO14001 Environment Manag.System QC080000 Hazardous Substance ISO10012 Measurement Manag System**





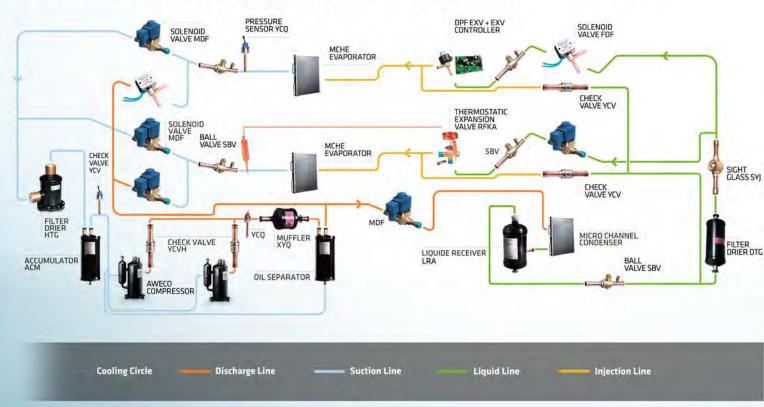


Air to Water Heat Pump Application Solutions

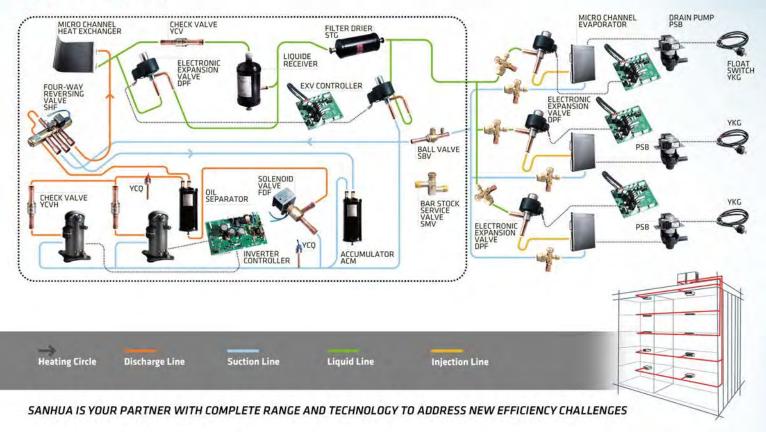


SANHUA IS YOUR PARTNER WITH COMPLETE RANGE AND TECHNOLOGY TO ADDRESS NEW EFFICIENCY CHALLENGES

Commercial Refrigeration Application Solutions



COMMERCIAL AIR CONDITIONING VRF SYSTEM



ChillinGideas worldwide

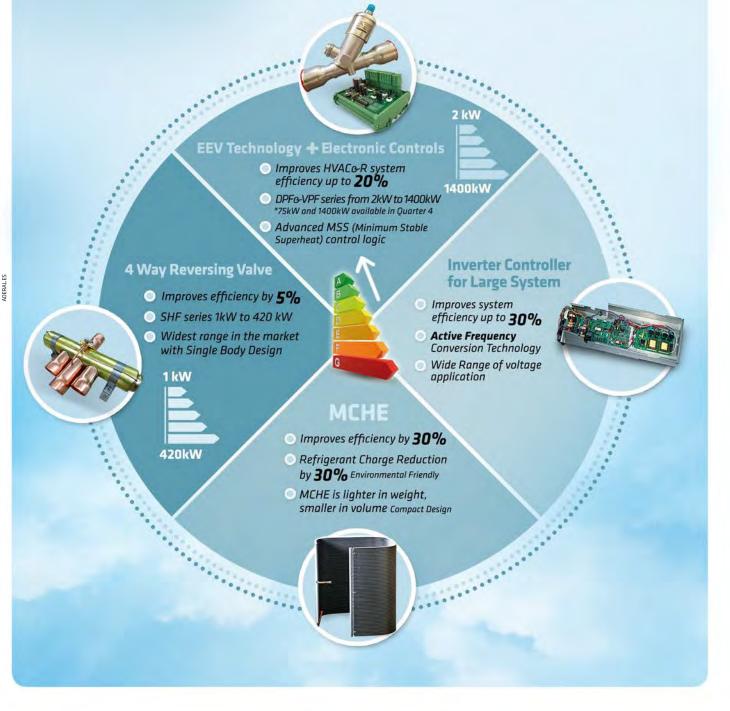






SANHUA YOUR ROAD MAP TO THE ECO-DESIGN DIRECTIVE*

KEEPS YOU ONE STEP AHEAD OF THE COMING **EFFICIENCY** AND **ENVIRONMENTAL** EUROPEAN **CHALLENGES**



ADVANCED Technology & Solutions





2 out of 3 AC units are equipped with a **SANHUA** reversing value

YEARLY SANHUA SUPPLIES OVER 50 MILLION FOUR WAY REVERSING VALVES TO THE COMMERCIAL AND RESIDENTIAL HVAC INDUSTRY WORLDWIDE



ADVANCED Technology & Solutions

✓ Improves efficiency by **5%**

SHF series 1kW to 420 kW

Widest range in the market with Single Body Design

1 k			
	5		
	-		
		•	
4.70	kW		





o series Electronic Expansion Valve

O series electronic expansion valve are mainly used in air conditioning systems variable refrigerant flow to realize automatic adjustment of refrigerant flow rate and make the air conditioning system work under the best working condition for the purpose of fast cooling, precise temperature control and power saving. These valves can also be used for other controls. These valves are reversible which can automatically control the flow of refrigerant in either heating or cooling mode.



FEATURES

- HIGH PRECISION: FULL OPEN PULSE 2000
- LONG LIFE
- LOW NOISE
- ENERGY SAVING

GENERAL SPECIFICATIONS

- Applicable for all common HCFC, HFC, HC, HFO refrigerants¹⁾ such as: R22, R134a, R404A, R407C, R410A, R507, R407A/F, R290, R1234ze, R1234yf, R32, R448A/R449A, R452A, R450A/R513A
- Capacity: 1USRT~13.3USRT (R22 Nominal Capacity)
- Applicable medium temperature: -30°C ~ +70°C (electrified rate below 50%)
- Applicable ambient temperature: -30°C ~ +60°C (electrified rate below 50%)
- Relative humidity: below 95% RH
- Installation mode: Coil upwards, central axis of valve rotor within ±15° vertical to horizontal surface

Note:

1) Cooling capacity besides R22 pls contact SANHUA local sales representative

ELECTRICAL PARAMETERS

- Rated voltage: DC12V (±10%), rectangular wave;
- Actuating mode: 4-phase 4-step permanent magnet stepping motor of speed reduction type;
- Excitation mode: 2-2 phase excitation, monopole actuation;
- Excitation rate: 100PPS~250PPS (opening excitation speed ≤ closing excitation speed, the ending excitation mode maintains more than 0.1S);
- Current of coil:80mA/phase(20°C)
- Resistance of coil:150±15Ω/phase(20°C)
- Insulation grade of coil: E

O SERIES *Electronic Expansion Valve*



TECHNICAL PARAMETERS

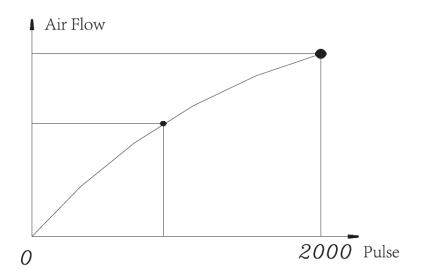
Madal	Port	R22 Non	ninal Capacity		Max. Operation Pressure Difference MPa			Reverse Pressure	e Open Va Differenc								
Model	mm	kW	US.R.T	R22	R407C	R410A	Leakage ml/min	R22	R407C	R410A							
DPF(0)1.3	1.3	5.28	1.5														
DPF(0)2.0	2.0	8.8	2.5				≤600										
DPF(0)2.4	2.4	10.56	3.0	2.26	2.26												
DPF(0)3.2	3.2	14.1	4.0														
DPF(0)3.2	3.2	17.6	5.0			2.48	3.43		3.0	3.3	4.2						
DPF(0)4.0	4.0	21.2	6.0				<1000										
DPF(0)5.2	5.2	28.1	8.0				≤1000										
DPF(0)6.4	6.4	35.2	10.0														
DPF(0)8.0	8.0	47.6	13.3														

Note:

1) Nominal working conditions: Condensing temperature: 38°C, vaporing temperature 5°C, Supercooling temperature 0°C, superheat temperature 0°C 2) When using other refrigerants, it is need to use a factor to adjust nominal capacity of R22.(R134A --0.75, R407C--1, R410A--1.2)

STANDARD FLOW CURVE

Standard Flow Curve

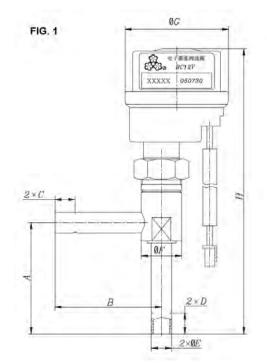


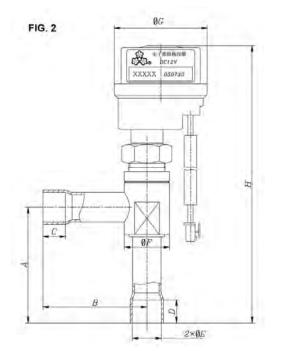
O SERIES *Electronic Expansion Valve*

SANHUA PRODUCT CATALOGUE



DIMENSIONS





Model				Dimensio	ons (mm)				Note
Model	A	В	С	D	E	F	G	н	Note
DPF(0)1.3	43	42.5	8	8	7.94	16	41.2	110	
DPF(0)2.0	43	42.5	8	8	7.94	16	41.2	110	Fig. 1
DPF(0)2.4	43	42.5	8	8	7.94	16	41.2	110	Fig.1
DPF(0)3.2	43	42.5	8	8	7.94	16	41.2	110	
DPF(0)3.2	50	46	10	10	12.8	20	41.2	119	
DPF(O)4.0	50	46	10	10	12.8	20	41.2	119	
DPF(0)5.2	50	46	10	10	12.8	20	41.2	119	Fig.2
DPF(0)6.4	50	46	10	10	12.8	20	41.2	119	
DPF(0)8.0	50	46	10	10	12.8	20	41.2	119	

Did you know?

Every second fridge is equipped with Sanhua solenoid valve



AIR CONDITIONING COMMERCIAL REFRIGERATION HEAT PUMP



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R SERIES Electronic Expansion Valve

R series electronic expansion valve are mainly used in air conditioning systems with variable refrigerant flow to realize automatic adjustment of refrigerant flow rate and make the air conditioning system work under the best working condition for the purpose of fast cooling, precise temperature control and power saving. These valves can also be used for other controls. These valves are reversible which can automatically control the flow of refrigerant in either heating or cooling mode.



FEATURES

- APPLICABLE FOR OIL-FREE COOLING SYSTEM
- SMALLER INSTALLATION SPACE: LOW HEIGHT, SMALL VOLUME AND LIGHT WEIGHT
- WIDER APPLICABILITY FOR ELIMINATING SYSTEM REFRIGERANT NOISE: WITH OPTIMIZED FLOW PATH DESIGN
- OUTER ENCAPSULATION COIL STRUCTURE: BETTER CORROSION RESISTANCE

GENERAL SPECIFICATIONS

- Applicable refrigerant: R744(CO2)
- Applicable medium temperature: -30°C ~ 80°C (electrified rate below 40%)
- Applicable ambient temperature: -30°C ~ 60°C (electrified rate below 40%)
- Relative humidity: below 95% RH
- Installation mode: Coil upwards, central axis of valve rotor within $\pm 15^\circ$ vertical to horizontal surface.
- Direction of Medium: one direction from horizontal tube to Vertical tube

ELECTRICAL PARAMETERS

- Rated voltage: DC12V (±10%), rectangular wave
- Actuating mode: 4-phase 8-step permanent magnet stepping motor of direct-operated type
- Excitation mode: 1-2 phase excitation, monopole actuation
- Excitation rate: 31,3PPS (the ending excitation mode maintains 0.1~1.0s)
- Current of coil:260mA/phase(20°C)
- Resistance of coil:46±3.7Ω/phase(20°C)
- Insulation grade of coil: E

R SERIES *Electronic Expansion Valve*

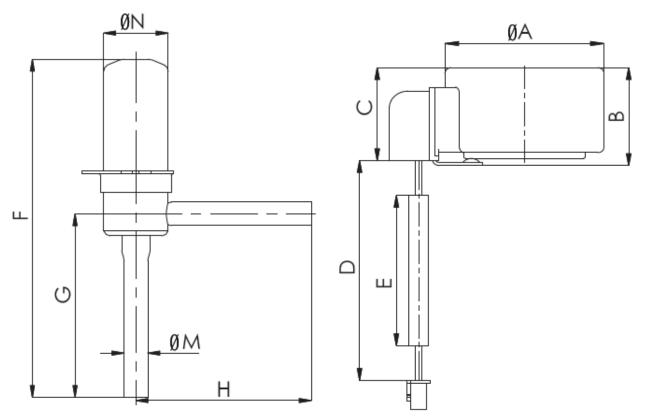
SANHUA PRODUCT CATALOGUE



TECHNICAL PARAMETERS

Model	Port		lominal acity	Full Open Pulse	Opening Pulse	Max. Operation Pressure Difference	Internal Leakage	Max. Working Pressure MPa	
	mm	kW	US.R.T	Puise	Puise	МРа	ml/min	Flessule MPa	
DPF(R04)1.5D	1.5	10,5	3	500	32 ± 20	10	≤600	14	

DIMENSIONS



Port mm	Code of the						ons (mm)				
	Coil Series						G	Н	М	N	
1.5	M10	38.5	26.4	25.6	700	600	93,5	50	47	6.35	17.3

SANHUA Micro-Channel Heat Exchangers MCHE



BENEFITS

No galvanic corrosion (100% aluminum) Refrigerant charge reduction – up to 70% Long life alloy for very aggressive environments Helps manufacturers to meet high SEER (Seasonal Efficiency Ratio) and HSPF (Heating Seasonal Performance Factor) requirements. MCHE is more than 30% higher HT efficiency Up to 30% lower airside dP MCHE is lighter in weight, smaller in volume: up to 50% 100% Aluminum, easy to cycle Minimum performances decrease with lifetime (100% brazed) Special tube bending structure for A-coil Special desing for good refrigerant distribution Special fin desing for good water drainage.



sanhua mche Evaporator

Over 100,000 coils on the market since 2011

The Sanhua MCHE Evaporator

- Performs in both heating, cooling and as a dehumidifier.
- Operates in both condensing and evaporating mode.

Applications

- Commercial cooling and heating.
- Residential air conditioning and heating.
- Commercial retail refrigeration.

CHILING ideas worldwide

SANHUA MCHE

Heat Pump Coil

The Sanhua MCHE Heat Pump Coil

• Designed to perform in both cooling and heating functions.

Applications

- Commercial heating and cooling applications (Rooftop and chiller units).
- Residential air conditioning units.
- Heating Heat pump units.

SANHUA MCHE Condenser

Over 1,3 million coils on the market since 2008

The Sanhua MCHE Condenser

• Developed with a superior design and performance in cooling mode.

Applications

- Commercial cooling application for chillers units .
- Residential air conditioning for outdoor units.
- Refrigeration application (transport and retail refrigeration).



Micro-Channel Heat Exchangers MCHE



COMMERCIAL AC

Key benefits

- Raise product efficiency or reduce footprint
- Save money on raw material, transport, storage
- Improve environmental performance and meet regulations
- Attract customers with lean, MCHE-based products

TRANSPORT REFRIGERATION

Key benefits

- Create high-capacity products for transport
- Attract customers with reduced fuel costs and more cargo space
- Improve environmental performance and meet regulations

PRECISION COOLING

- Key benefits
- Precise temperature control to safeguard sensitive equipment
- Compact, space-saving units
- Low energy consumption
- Meet environmental regulations

COLD ROOMS

Key benefits

- Hygiene very easy to clean
- Build compact space saving units
- Reliable temperature control
- Meet environmental regulations
- Low energy consumption

RESIDENTIAL AC and Heating Heat Pump

Key benefits

- Higher system efficiency
- Better environmental performance
- Lower noise levels

APPLICABILITY

Refrigerant: R410A, R134a, R22, R407C, R404A

Design pressure: 4.5MPa

Ambient air temperature: -30°C to 72°C (-22°F to 161.6°F)

Expected refrigerant temperature: -30°C to 121°C (-22°F to 250°F)

Storage temperature: -30°C to 121°C (-22°F to 250°F)

ASSEMBLY



FIN MACHINE



FURNACES



FIN PROCESS

HELIUM DETECTOR

SANHUA

Manufacturing

capabilities

ChíllínG ideas worldwide

FOR DETAILED INFORMATION PLEASE CONTACT: EMEA MCHE MANAGER Nicolas Gignoux nicolas@sanhuaeurope.com Phone: +33 478 083 457 Mobile: +33 620 586 838

Residential Inverter Controller

Residential inverter controller is applicable for controlling room air conditioners including heat pump air conditioning systems, which is the core component of inverter air conditioners.



FEATURES

• HIGH INTEGRATION DESIGN

IN ADDITION TO RESEARCHING AND DEVELOPING ELECTRIC CONTROL PRODUCTS, WE ALSO PROVIDE WHOLE SET OF ADVANCED COOLING CONTROL SOLUTIONS AND STRUCTURE DESIGN, INCLUDING CONTROL OF COMPRESSORS, ELECTRONIC EXPANSION VALVES, DEFROSTING, OUTSIDE TEMPERATURE, DISCHARGE TEMPERATURE, OVERHEAT PROTECTION AND ROTATING SPEED OF OUTDOOR BLOWERS APPLICABLE FOR SPLIT OR PACKAGED UNIT, EITHER COOLING OR BOTH COOLING AND HEATING WITH VARIOUS VOLTAGE

WE HAVE LABORATORIES FOR 10HP MUTILPLE INDOOR SYSTEM INLCUDING ENTHALPY DIFFERENCE LABORATORY, ENVIRONMENT & NOISE COMBINED LABORATORY, ENDURANCE LABORATORY, EMC LABORATORY, ELECTRIC ASSEMBLY LABORATORY, THERMAL SHOCK TESTER AND A LARGE BATCH OF HIGH PRECISION IMPORTED TESTING DEVICES TO ENSURE A GOOD DEVELOPING QUALITY

• HIGH QUALITY DESIGN

MASTERING CORE FREQUENCY CONVERSION TECHNOLOGIES TO REALIZE TORQUE COMPENSATION CONTROL AND FIELD WEAKENING, REDUCE COMPRESSOR VIBRATION, NOISE AND IMPROVE THE OPERATION FREQUENCY OF THE COMPRESSOR UTILIZING IMPORTED HIGH QUALITY ELEMENTS FOR IMPORTANT COMPONENTS (MITSUBISHI IPM, FAIRCHILD IPM, NEC CHIPS AND TOSHIBA CHIPS ETC.)

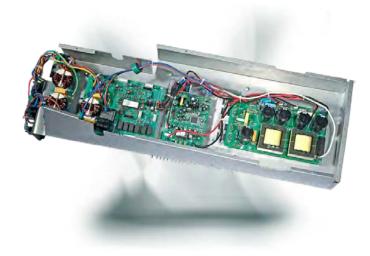
CONTROL TECHNIQUES WITH MULTIPLE SOLUTIONS TO MEEET VARIOUS NEEDS OF THE CUSTOMERS

TECHNICAL PARAMETERS

Project / Nominal Refrigerating Capacity	1HP	1.5HP	2HP	ЗНР
Voltage	220V±25%			
Frequency	50Hz/60Hz			
Frequency conversion range	Passive PFC 15-85	Hz/Active PFC 15-12	20Hz	
Power factor	Passive PFC:0.85~ Part PFC:0.95~0.9 Whole range PFC:0	8		
Construction	One-unit design/S	plit design		Split design
Allowed ambient temperature	-15ºC ~ +55ºC			-15°C ~ +55°C
Compressor actuating method	150° wide-angle a	ctuating/Sine wave	actuating	Sine wave actuating
Outdoor fan	DC motor/AC moto	or		
Throttle mode	Electronic expansion	on valve/capillary tu	bes	
Actuating compressor	GMCC, Panasonic,	Hitachi, Sanyo, MIT	SUBISHI etc.	
Certification	3C\CE\ETL\TUV(in	cluding EMC)		

Inverter Controller for Large System

Inverter controller for large System is mainly used to control whole electric control systems such in outdoor unit as commercial or multiple inverter air conditioners. They not only realize frequency conversion control over DC converter compressor, but also control all kinds of electric parts such as outdoor blowers, electronic expansion valves and solenoid valves, greatly improving the efficiency of the whole system.



FEATURES

- UTILIZING ACTIVE FREQUENCY CONVERSION TECHNOLOGY FOR THE WHOLE PROCESS WITH A POWER FACTOR ABOVE 98.5%, APPLICABLE FOR A WIDER RANGE OF VOLTAGE
- USING DC FREQUENCY CONVERSION 180° SINE WAVE ACTUATING TECHNOLOGY, INCREASING TORQUE COMPENSATION, MORE INTELLIGENT CONTROL
- AVAILABLE WITH CIRCUIT CONTROLLED BY ELECTRONIC EXPANSION VALVE TO BETTER BRING WHOLE EFFICIENCY OF THE SYSTEM INTO FULL PLAY
- DC FREQUENCY CONVERSION BLOWER CAN BE EQUIPPED TO IMPROVE THE SYSTEM EFFICIENCY
- PASSING EMC TESTS WITH THE WHOLE FREQUENCY MEETING NATIONAL AND RELEVANT EXPORT STANDARDS

GENERAL SPECIFICATIONS

- Applicable voltage: single phase AC 220V 230V \pm 20%, 3 phase AC380V 400V \pm 15%
- Nominal Refrigerating capacity: 3HP~12HP

- Frequency conversion range: 15~120Hz
- Temperature control accuracy: ±1°
- Compatible indoor units: wall mounted air conditioners, cabinet air conditioners, ceiling air conditioners and duct type air conditioners

Inverter Controller for HP Water Heater

Inverter Controller for HP Water Heater is used to realize overall control of the outdoor unit of heat pump and water heating system. Energy efficiency of whole water heating system can be greatly improved by actuating frequency conversion control over DC converter compressor and electrical parts such as outdoor blower, electronic expansion valve and solenoid valves. Normally, the efficiency can be up to 3.2 with incomparable energy saving advantages over other water heating methods.



FEATURES

- INTELLIGENT ANTI-FREEZE PROTECTION UNDER LOW TEMPERATURE, SUITABLE FOR OUTDOOR USE IN LOW TEMPERATURE
- UTILIZING ACTIVE FREQUENCY CONVERSION TECHNOLOGY FOR THE WHOLE PROCESS WITH A POWER FACTOR ABOVE 98.5%, APPLICABLE FOR A WIDER RANGE OF VOLTAGE
- USING DC FREQUENCY CONVERSION 180° SINE WAVE ACTUATING TECHNOLOGY, INCREASING TORQUE COMPENSATION AND MORE INTELLIGENT CONTROL
- MULTIPLE STAGE TIMING SWITCH TO MEET THE CUSTOMERS' REQUIREMENTS IN DIFFERENT TIME INTERVALS
- SUB-CONTROLLER CAN NOT ONLY CONTROL TEMPERATURE OF THE WATER TANK BUT ALSO REALIZE INQUIRY OF REAL-TIME TEMPERATURE AND FAULTS ETC.
- AVAILABLE WITH CIRCUIT CONTROLLED BY ELECTRONIC EXPANSION VALVE TO BETTER BRING THE EFFICIENCY OF THE SYSTEM INTO FULL PLAY
- DC FREQUENCY CONVERSION BLOWER CAN BE EQUIPPED TO IMPROVE THE SYSTEM EFFICIENCY
- PASSING EMC TESTS WITH THE WHOLE FREQUENCY MEETING NATIONAL AND RELEVANT EXPORT STANDARDS

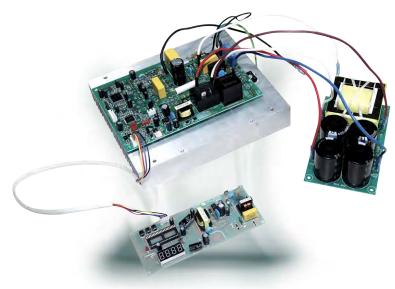
GENERAL SPECIFICATIONS

- Applicable voltage: single phase AC220V-230V±20%, 3 phase AC380V-400V±15%
- Frequency conversion range: 15~150Hz

- Water heating temperature: 0~+55°
- Water temperature control accuracy: ±0.5°
- Specifications of controllers: inverter 3HP, inverter 5HP; inverter 3HP+fixed frequency 3HP, inverter 5HP + fixed frequency 5HP

SANHUA PRODUCT CATALOGUE

Standard inverter compressor controller



FEATURES

- APPLICABLE FOR UNITS OF 1HP TO 5HP AND FOR MITSUBISHI, SANYO, TCC, GMCC, HITACHI, HIGHLY, PANASONIC, ETC.
- PCB ASSEMBLY WITHOUT C-BOX, OPTIONAL FOR HEATSINK PROVIDED OR HEATSINK OUTSOURCED BY CUSTOMERS THEMSELVES.
- OPTIONAL FOR EXTERNAL HIGH FREQUENCY REACTOR AND BIG ELECTROLYTIC CAPACITOR PROVIDED OR OUTSOURCED BY CUSTOMERS THEMSELVES.
- OPTIONAL DC12V FAN, WHICH CAN AUTOMATICALLY CONTROL TEMPERATURE ACCORDING TO TEMPERATURE OF HEATSINK.
- USE FAIRCHILD 20A, 30A IPM AND MITSUBISHI 50 AIPM
- USE ISOLATED OPTICAL COUPLING ASYNCHRONOUS COMMUNICATION
- HAVE A COMMUNICATING DEBUGGING BOARD.
- USE ISOLATED OPTICAL COUPLING ASYNCHRONOUS COMMUNICATION
- PHASE CURRENT PROTECTION, AC BUSBAR VOLTAGE PROTECTION, HEATSINK OVERHEAT PROTECTION, ETC.

TECHNICAL PARAMETERS

Storage Temperature	-30Cº ~ +85Cº
Humidity	30 ~ 95%RH
ambient temperature for operating	-20Cº ~ +60Cº
Power supply	AC187V ~ AC276V,50/60Hz;
PFC	0.97-0.998
Load electric power	max.5000W for inverter
Frequency	15 ~ 110Hz
Temperature control and measurement accuracy	±1C ^o
current measurement accuracy	0.1A
voltage measurement accuracy	2V

MDF FLANGE SERIES Solenoid Valve

MDF flange solenoid valve are used in the oil return line of compressors, applicable for various POE refrigeration oil and general refrigerants such as R22. But applicable maximum differential pressure is different in pure oil and in non-pure oil environments for the oil temperature and viscosity.



FEATURES

- APPLICABLE FOR STOP-AND-GO CONTROL OF OIL RETURN LINE IN REFRIGERATING COMPRESSORS
- DIRECT OPERATED, NORMALLY CLOSE VALVE WITH ZERO MIN. VALVE OPENING PRESSURE DIFFERENCE
- APPLICABLE FOR POE REFRIGERATION OIL AND VARIOUS FLUORIDE REFRIGERANTS
- MAXIMUM VALVE OPENING PRESSURE DIFFERENCE FOR GASSY OIL AND 90°C PURE OIL IS 2.2MPA
- UTILIZING NO CONNECTION TUBE STRUCTURE, BUT FLANGE CONNECTION IS COMPACT, LIGHT, EASY TO INS-TALL AND HAVE GOOD PERFORMANCE OF ANTI-VIBRATION
- THE VALVE BODY IS ALL WELDED FOR TIGHTNESS WITH LITTLE LEAKAGE RIS

GENERAL SPECIFICATIONS

- Applicable refrigerant: POE refrigeration oil, R22, R134a, R407C, R404A etc.
- Applicable medium temperature: 0°C ~90°C
- Applicable ambient temperature: -30C ~+55°C
- Maximum working pressure: 4.5MPa(655Psig)

TECHNICAL PARAMETERS Technical Parameters of Valve Body

			Operation P	ressure Difference	MPa
Model	Operation Type	Cv Value	Мах	Min	
			Gas and 90°C pure oil	0°C pure oil	Min
FDF2A905	Directoperated	0.14	2.2	0.8	0

Electrical Parameters of Coil

Series	Insulation Grade	Voltage Change	Frequency Hz	Wiring Type	IP Grade
Matching Coil MQ-A01220	F	AC220V	50	DIN junction box	IP65

Every 2nd home refrigerator in Europe is equipped with a SANHUA solenoid valve

YEARLY SANHUA SUPPLIES OVER 20 MILLION SOLENOID VALVES TO THE REFRIGERATION, HVAC AND HOME APPLIANCES INDUSTRIES WORLDWIDE



www.sanhuaclimate.com

ADVANCED Technology & Solutions







SANHUA PRODUCT CATALOGUE

FDF FLANGE SERIES

Solenoid Valve

FDF series Solenoid Valve are used in the new compressor system developed by Copeland, which uses a flange to connect the compressor. It is available in high ambient temperature and medium temperature with long service life.

FEATURES

- LOW TEMPERATURE RISE OF THE COIL, LOW ENERGY CONSUMPTION AND RELIABLE;
- LONG SERVICE LIFE, UP TO 35,000,000 TIMES;

GENERAL SPECIFICATIONS

- Applicable refrigerant: R22, R134a, R404A, R407A, R407C and R507 etc.;
- Applicable medium temperature: +10°C \sim +146°C (non-persistent);
- Applicable ambient temperature: -30°C ~+60°C;
- Relative humidity: below 95% RH

TECHNICAL PARAMETERS Technical Parameters Of Valve Body

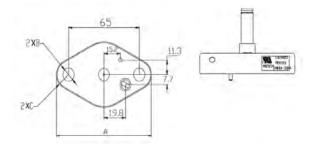
Model	Flow L/min (ΔP=0.345MPa)	Operation Pressu	re Difference MPa	Max. Working Pressure MPa
	······	Мах	Min	,
FDF2A903-01	42.5	2.8	0	2 5
FDF2A903-02	42.5	2.0	0	3.5

Electrical Parameters of Coil

Model	Insulation Grade	Rated Voltage V	Voltage Change	Frequency Hz
SHF-4-10FA5		AC220V~240V		
SHF-4-10FA2	F	AC120V	85%~110%	50/60
SHF-4-10FA4		AC24V		

DIMENSIONS

Model	А	В	С	
FDF2A903-01	(87)	10.30	R11.1	
FDF2A903-02	(90)	13.47	R12.7	





SANHUA YOUR ROAD MAP TO THE ECO-DESIGN DIRECTIVE*

Keeps you one step ahead of the coming efficiency and environmental European Challenges









Float Type SERIES

Check Valve

Float type check valve are used in air conditioning system in shunt connection with capillary tubes to control the forward and reverse flow of refrigerant and make refrigerant flow in a specified direction.



FEATURES

- GOOD SEALING PERFORMANCE, STABLE STRUCTURE: USING HIGH QUALITY ENGINEERING PLASTIC VALVE CORE
- SMALL FLOW RESISTANCE, BIG FLOW RATE

GENERAL SPECIFICATIONS

• Applicable refrigerant: R22, R407C, R410A etc.

С Ø

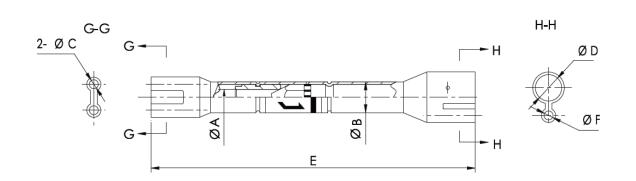
DIMENSIONS

• Applicable medium temperature: -30°C~+120°C

С Ø

• Maximum working pressure: 4.2MPa

ØB



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Float Type SERIES Check Valve

SANHUA PRODUCT CATALOGUE



DIMENSIONS

Model	Dimensions mm							
Model	А	В	С	D/F	E			
YCV3	3	9.52	3.18	3.18	100			
1005	5	5.52	6.35	6.35				
YCV5	5	12.7	9.52	9.52	110			
1005	J	12.7	12.7	12.7				
YCV8	8	19.05	12.7	12.7	150			
	0	19.05	15.88	15.88				
YCV11		22.2	15.88	15.88				
	11		19.05	19.05	160			
YCV14	14	14 28	19.05	19.05				
	14	14	14	14	20	22.2	22.2	
			2.7	6.0/3.1				
			2.9	6.5/2.7				
CV/CAV	4.8	9.52	3.1	6.5/2.9	100			
			3.3	8.1/2.7				
			3.5	8.1/3.3				



SANHUA PRODUCT CATALOGUE

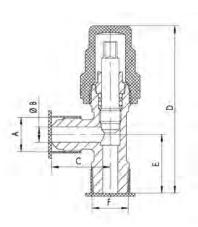
zjf series Receiver Valve

Receiver valve are used for tube connection or compressor and reservoirs of commercial air conditioner, freezing or deepfreezing equipment. Inner path of the valve can be closed or opened by operating the valve stem.

FEATURES

- COST EFFECTIVE: OPTIMAL DESIGN BASED ON PERFORMANCE
- GOOD APPEARANCE AND ENDURABLE: THE VALVE BODY TREATED WITH SHOT BLAST.
- WELL SEALING PERFORMANCE: WITH PARTICULAR SEALING STRUCTURE AND DESIGN

DIMENSIONS





GENERAL SPECIFICATIONS

- Applicable refrigerant: R22, R124a, R407C, R410A, R404A, R507, R1234ze
- Applicable medium temperature: -40°C ~ +120°C
- Maximum working pressure: 4.83 MPa
- Certification: UL

Model	A in		Fin			
Model	AIII	В	С	D	E	FIN
ZJF-A22	7/16-20UNF	4.8	23.5	74	23.5	NPT 1/4
ZJF-A23	7/16-20UNF	4.8	27	77	27	NPT 3/8
ZJF-A33	5/8-18UNF	7	27	77	27	NPT 3/8
ZJF-A32	5/8-18UNF	7	27	77	27	NPT 1/4
ZJF-A34	5/8-18UNF	7	32	114	37	NPT 1/2
ZJF-A44	3/4-16UNF	10	36	114	37	NPT 1/2
ZJF-A43	3/4-16UNF	10	36	114	37	NPT 3/8
ZJF-A54	7/8-14UNF	12.5	36	114	37	NPT 1/2
ZJF-A66	1 1/16-14UNS	16	42	122	43	NPT 3/4
ZJF-A76	1 1/4-12UNF	20	48	122	43	NPT 3/4

Every 4th car is equipped with a SANHUA expansion valve

YEARLY SANHUA SUPPLIES OVER 40 MILLION THERMOSTATIC AND ELECTRONIC EXPANSION VALVES TO THE HVAC & AUTOMOTIVE INDUSTRIES WORLDWIDE

DERAL.ES



ADVANCED Technology & Solutions

2 kW

1400kW

Improves HVACe-R system efficiency up to **20%** DPFe-VPF series from 2kW to 1400kW *75kW and 1400kW available in Quarter 4 Advanced MSS (Minimum Stable Superheat) control logic

ChíllínG ideas worldwide

SANHUA PRODUCT CATALOGUE

SMV SERIES Bar-Stock Service Valve

Bar-stock service valve can be used in split air conditioners to connect indoor unit and outdoor unit, which can close the inner passage of the valve by operating the valve stem; it can be used as service valve during maintenance for the purpose of vacuum pumping and refrigerant injection. It can also be used in other refrigerating systems.



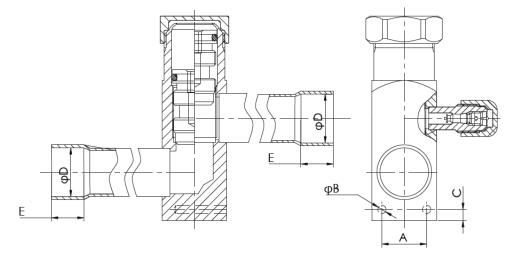
FEATURES

- COST-EFFECTIVE: UNIQUE METAL CAPTURE STRUCTURE, ENSURE HIGH QUALITY
- VARIOUS SQUARE SHAPES TO MEET SPECIAL INSTALLATION MODE AND FLOW REQUIREMENTS OF EQUIPMENT
- GOOD CONSISTENCY: SIMULTANEOUS WELDING OF MULTIPLE SPOTS BY TUNNEL FURNACE
- HIGH TESTING PRECISION: PRODUCTS ARE 100% H/HE INSPECTED

GENERAL SPECIFICATIONS

- Applicable refrigerant: R22, R134a, R407C, R410A etc.
- Applicable medium temperature: -30°C ~ +120°C
- Maximum working pressure: 4.2MPa, 4.83 MPa for special square body valve
- Certification: UL

TECHNICAL PARAMETERS



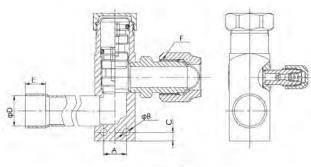
Solder Connection

SMV SERIES *Bar-Stock Service Valve*

SANHUA PRODUCT CATALOGUE



Turne	Model Copper			Thread Size				
Туре	Model	tube Size in	Α	В	С	D	E	F
	SMV-JA3Y	3/8	10.6±0.5	3.6±0.10	3,6	9,6	8±1.0	/
	SMV-JA4Y	1/2	17.7±0.5	3.6±0.10	3,6	12,8	9.7±1.0	/
	SMV-JA5Y	5/8	17.7±0.5	3.6±0.10	3,6	15,95	14.2±1.0	/
	SMV-JA6Y	3/4	17.7±0.5	3.6±0.10	3,6	19,13	15.7±1.0	/
	SMV-JA7Y	7/8	17.7±0.5	3.6±0.10	3,6	22,33	19±1.0	/
Colder Connection	SMV-JA8Y	1	17.7±0.5	3.6±0.10	3,6	25,4	15±1.0	/
Solder Connection	SMV-JA9Y	9/8	17.7±0.5	3.6±0.10	3,6	28,8	15±1.0	/
	SMV-8JA3Y	3/8	10.6±0.5	3.6±0.10	3,6	9,6	8±1.0	/
	SMV-15JA4Y	1/2	17.7±0.5	3.6±0.10	3,6	12,8	9.7±1.0	/
	SMV-15JA5Y	5/8	17.7±0.5	3.6±0.10	3,6	15,95	14.2±1.0	/
	SMV-15JA6Y	3/4	17.7±0.5	3.6±0.10	3,6	19,13	15.7±1.0	/
	SMV-17JA7Y	7/8	17.7±0.5	3.6±0.10	3,6	22,33	19±1.0	/



Solder/Flare Nut

Туре	Model Coppe			Thread Size				
	Model	tube Size in	Α	В	С	D	E	F
	SMV-JA3	3/8	10.6±0.5	3.6±0.10	3,6	9,6	8±1.0	5/8-18UNF
	SMV-JA4	1/2	17.7±0.5	3.6±0.10	3,6	12,8	9.7±1.0	3/4-16UNF
	SMV-JA5	5/8	17.7±0.5	3.6±0.10	3,6	15,95	14.2±1.0	7/8-14UNF
	SMV-JA6	3/4	17.7±0.5	3.6±0.10	3,6	19,13	15.7±1.0	1 1/16-14UNS
Solder / Flare Nut	SMV-JA7	7/8	17.7±0.5	3.6±0.10	3,6	22,33	19±1.0	1 1/16-14UNS
Soluer / Flare Nuc	SMV-8JA3	3/8	10.6±0.5	3.6±0.10	3,6	9,6	8±1.0	5/8-18UNF
	SMV-15JA4	1/2	17.7±0.5	3.6±0.10	3,6	12,8	9.7±1.0	3/4-16UNF
	SMV-15JA5	5/8	17.7±0.5	3.6±0.10	3,6	15,95	14.2±1.0	7/8-14UNF
	SMV-15JA6	3/4	17.7±0.5	3.6±0.10	3,6	19,13	15.7±1.0	1 1/16-14UNS
	SMV-17JA7	7/8	17.7±0.5	3.6±0.10	3,6	22,33	19±1.0	1 1/16-14UNS

SANHUA Electronic Controls



FEATURES OF STANDARD INVERTER DRIVER:

- Up to 30% high energy efficiency.
- Mutually optimized and qualified: More than 20 Years Experienced Japanese Experts in Compressor Inverter Driver.
- Famous Compressor Brand: Mitsubishi, Sanyo, Toshiba, Hitachi, Panasonic...
- Capacity from 1HP to 12HP, Single phase or Three phase Power.
- Wide compressor speed range from 10Hz to 120Hz.
- Excellent compressor noise and vibration reduce technology.
- Protects compressor with current and voltage monitoring.
- Active power factor correction (PF > 0.985).

- - Total core algorithms developed by Sanhua inside the CPU.
 - Multi board easy for combine, update, after sale service and good for qualified power management.
 - •Wide application: Industrial, Refrigeration, RAC, CAC, Heat pump water heater, HVAC, DC motors...





Inverter Controller for HP Water Heater



Residential Inverter Controller









Manufacturing *capabilities*

ANNUAL CAPACITY OF INVERTER CONTROLLER FOR 2012 IS 500,000 SETS, AND THE CAPACITY WILL BE EXPANDED TO 1 MILLION SETS IN 2013. ALL EQUIPMENT IS IMPORTED, FOR EXAMPLE DEK ENGLAND PRINTING MACHINE, JUKI JAPAN SMT MACHINE, HELLER AMERICA REFLOW SOLDERING MACHINE, OMRON JAPAN AUTO OPTICAL INSPECTOR, AND PANASONIC JAPAN AUTO PLUG-IN MACHINE.



Production Line & Product Warehouse





IQC, Raw Material Ware House & SMT Workshop Equipments

The former Foxconn management team brings scientific manufacturing process and strict quality control. Along with all the advanced equipment, we achieve a modern production process from raw material input to product output.

- IQC, Raw Material Ware
 House
 SMT Workshop
 Equipment:
- > Transistor Curve Tracer
 ,Precision LCR Meter etc. (IQC Equipment)
- > Electric Moisture-proof
 Cabinet, Vacuum Packaging
 Machine, Hygrothermograph,
 Check List (Raw material
 warehouse and Equipment)
- > Silk screen printing machine (DEK UK)
- > SMT machine (JUKI Japan)
- > Re-flow Welding Machine (HELLER USA)
- > Auto optics inspector (Omron Japan)
- > Auto plug-in machine (Panasonic Japan)



CHILING ideas worldwide

SANHUA PRODUCT CATALOGUE

DTG-MO2 SERIES

1.5 in³ filter drier

DTG-MO2 series 1.5in3 filter drier are mainly used for light commercial refrigeration applications, with unidirectional flow to absorb moisture and filter out the impurities.



FEATURES

- STAINLESS STEEL HOUSING WITH HIGH-STRENGTH
- HOUSING SURFACE ADOPTS ADSORPTION PRINCIPLE TO FORM A NANO-SOLID FILM TO ANTI-RUST, SURVIVES MORE THAN 1500 HOURS OF NEUTRAL SALT SPRAY TEST.
- SOLID FILER CORES, HIGHLY EFFICIENT IN MOISTURE ABSORPTION, FILTERING IMPURITY.
- COMPACT DESIGN, MEETING THE STRICT 150G SYSTEM LIMITS FOR FLAMMABLE REFRIGERANTS SUCH AS R290.

GENERAL SPECIFICATIONS

- Applicable refrigerants: HCFC, HFC, HC, HFO
- Medium temperature: -30°C~+120°C
- Ambient temperature: -30°C~ +55°C
- Max. Operation pressure PS max: 4.83MPa (48,3bar) – 700 PSI

- Installation position:
- -Flow direction corresponds to the arrow -Preferably installed in liquid line
- Certification: UL/CSA and PED declaration

DTG-M02 SERIES 1.5 in³ filter drier

SANHUA PRODUCT CATALOGUE



Model Designation Legend

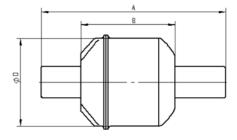
	Product Code	Filter Dri	er Series				
1	DTG	Indicates unidired	ctional filter drier				
2	Filter Core	Structure a	nd Material				
2	М	Solid core, 100%3Å desicca	ant, stainless steel housing				
3	Filter core volume	[inch ³]	[cm³]				
	02	1.5	25				
	Connection Size	Pos. 5 shows "0	": Solder [inch]				
4	02	1/	4				
1	03	3/8					
	04	1/2					
	Connection Size						
4	06	6					
1	10	10					
	12	1	2				
	Pipe Connection						
5	0	Solder with inc	with inch connections				
	1 *	Solder with metric connections					
6	Version Number	Descr	ption				
	901	Series r	number				

MODEL DESIGNATION EXAMPLE

	Position Number					According to Model Designation Legend
1	2	3	4	5	6	According to Model Designation Legend
DTG	М	02	02	0	901	Unidirectional filter drier
DTG	м	02	02	0	901	Solid filter core with 100% 3Å desiccant, stainless steel housing
DTG	М	02	02	0	901	1.5 inch ³ filter core volume
DTG	М	02	02	0	901	When Pos. 5 is "0": connection size 1/4" inch
DTG	М	02	02	0	901	Solder connection inch
DTG	М	02	02	0	901	Series number

GENERAL CHARACTERISTICS

DTG-M02 SERIES 1.5 in³ filter drier



Filter Mode			Solder connection						
	Model	Part number (Industrial pack) ¹⁾			ØD	В	А	Weight	PED Category
			[inch]	[mm]	[mm]	[mm]	[mm]	[9]	
DTGM022s	DTG-M02020-901		1/4		42	45	77	95	Art. 4.3
DTGM023s	DTG-M02030-901		3/8		42	45	77	95	Art. 4.3
DTGM024s	DTG-M02040-901		1/2		42	45	83	95	Art. 4.3

Note: 1) Please contact Sanhua representative regarding availability and exact item number. Products can be supplied in industrial boxes only.

SELECTION TABLE

	Capacity ¹⁾ [kW]					Moisture Absorption (gram H ₂ O)								
		R404A				D124		R40	04A	R40	7C ²⁾			
Model	Model R134a			R407C²⁾			R134a -		R507A		R410A		R22	
		R507A		R22		R410A	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
		K507A				23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C	23,9°C	51,7°C	
DTGM022s	4.67	3.28	5.13	4.72	4.82	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2	
DTGM023s	3.50	2.46	3.85	3.54	3.54	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2	
DTGM024s	2.33	1.64	2.56	2.36	2.36	3.2	2.8	3.5	2.9	2.7	2.5	3.0	2.2	

Note: 1) The above data is based on clean system at ideal conditions; with impurities, accumulated in the filter, the capacity may decrease 2) R407C capacity is based on dew point conditions

DTG-M02 SERIES *1.5 in³ filter drier*

SANHUA PRODUCT CATALOGUE



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) 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):

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

Every 4th car is equipped with a SANHUA expansion valve

YEARLY SANHUA SUPPLIES OVER 40 MILLION THERMOSTATIC AND ELECTRONIC EXPANSION VALVES TO THE HVAC & AUTOMOTIVE INDUSTRIES WORLDWIDE ADVANCED Technology & Solutions

 Improves HVACe-R system efficiency up to **20%** DPFe-VPF series from 2kW to 1400 kW *75kW and 1400kW available in Quarter 4
 Advanced MS5 (Minimum Stable Superheat) control logic



BDF/KMV SERIES

Bi-stable Solenoid Valve

BDF/KMV bi-stable solenoid valve are used in duel temperature/double control household refrigerators, deep freezers, wine cabinet, water dispenser and other similar small scale cooling systems to switch the flow path of refrigerants.



FEATURES

- MAINTAINING WORKING CONDITIONS WITH PULSE ACTUATION AND MAGNET LATCHING MODE
- GOOD INNER LEAKAGE PERFORMANCE
- LOW NOISE

GENERAL SPEC.

- Applicable refrigerant: R600a, R134a etc.
- Applicable medium temperature: -30°C ~ +65°C
- Ambient temperature: -20°C ~ +60°C
- Relative humidity: below 95% RH
- Maximum working pressure: 2.5MPa

TECHNICAL PARAMETERS

Model	Voltage V	Frequency Hz	Sealing Structure	Max. Opening Differential Pressure MPa	Air Flow L/h (∆ P=0.4MPa)	Inner Leakage ml/min (∆ P=0.4MPa)
BDF	AC110V~120V	50/60	Rubber	1.6	≥1000	≤10
KMV	AC220V~240V	50/60	Steel ball	1.6	≥1000	<83.3

DIMENSIONS

• Product structure and interface dimensions can be customized according to customers' requirements.











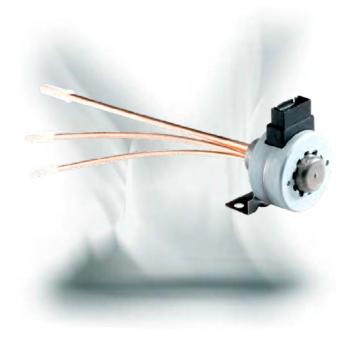


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DDF SERIES Step Valve

DDF series step valve are mainly used in duel temperature/ double control household refrigerators with variable temperature areas (with 0°C preservation area or -7°C temperature area) and similar refrigeration systems for controlling and switching the flow direction of refrigerant.



FEATURES

- OPTIMIZED DESIGN OF REFRIGERATION SYSTEM, LOWER POWER CONSUMPTION
- LOW OPERATION NOISE: UTILIZING ROTARY ACTUATION

GENERAL SPEC.

- Applicable refrigerant: R600a and R134a
- Applicable medium temperature: -20°C ~ +65°C
- Applicable ambient temperature: -20°C ~ +60°C
- Relative humidity: below 95%RH
- Noise: Distance 15cm, starting noise \leq 50dB (A), rotary noise \leq 40dB (A)

TECHNICAL PARAMETERS

		Те	chnical Parameters of Valve Body	
Model	Port mm	Air Flow L/h (∆ P=0.8MPa)	Inner Leakage mL/min (∆ P=0.8MPa)	Max. Working Pressure MPa
DDF	0.8	≥1500	150	2.5
			Electrical Parameters of Coil	
Resistance at 20°C Ω	Voltage Change		Rated Current When Unidirectional Winding is Powered mA	Max. Differential Pressure of Opening Valve MPa
46±3	DC12V	90%~110%	260	1.8

DIMENSIONS

• Product structure and interface dimensions can be customized according to the customer's requirements.

Every second A/C system in the world is equipped with Inverter Technology

SANHUA IS PROVIDING INVERTER CONTROLLER SOLUTIONS TO ITS CUSTOMERS HELPING THEM TO IMPROVE SYSTEM EFFICIENCY BY UP TO 30%



www.sanhuaclimate.com

Improves system efficiency up to **30%** Active Frequency Conversion Technology Wide Range of voltage application





SANHUA INTERNATIONAL info@sanhuaeurope.com

A SERIES Drain Pump

Drain pump are used in packaged air conditioners, indoor units of ceiling air conditioners to drain the condensing water generated by heat exchangers during cooling and dehumidification.



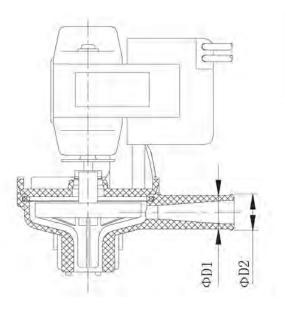
FEATURES

- LOW NOISE, LOW VIBRATION AND LIGHT WEIGHT
- SMALL SCALE WITH ENOUGH FLOW RATE, LONG LIFE
- COST-EFFECTIVE

GENERAL SPECIFICATIONS

- Applicable fluid temperature: $0^{\circ}\text{C} \sim +40^{\circ}\text{C}$ (but no fluid frozen)
- Applicable ambient temperature: -10°C ~ 45°C
- Relative humidity: below 95% RH
- Certification: UL, CQC and VDE

DIMENSIONS



Model	Dimensions mm							
Model	D	1	D2					
PSB-7A	13	16	14	17				
PSB-12A	13	16	14	17				

Note: 1) Type and length of leads, terminal insulation casing and support will be optional subject to the customers' needs.

2) In addition to the water outlet direction shown in the figure, there are another three optional outlet directions every 90° .

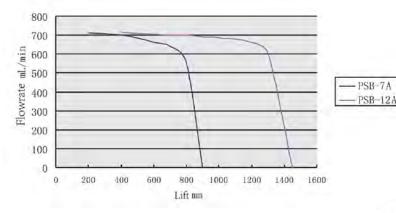
A SERIES Drain Pump

SANHUA PRODUCT CATALOGUE



TECHNICAL PARAMETERS

Model	Rated Lift mm	Rated Flow ml/ min	Rated Voltage V	Rated Current mA	Input Power W
PSB-7A	700	≥450	AC220V~240V	<108/96	<10.8/96
PSD-7A	700	≥320	AC115V	<108/96	<10.8/96
PSB-12A	1200	≥400	AC220V~240V	120/108	12/10.8

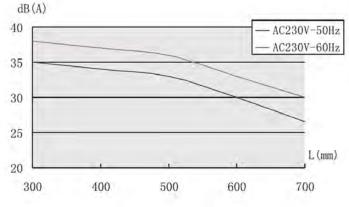


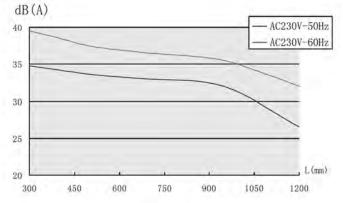
Lift and Flowrate Graph

• AC230V 50Hz/60Hz, at a water level of 10mm, testing draining noise in 1min under different lift (at the distance of 1m)

PSB-7A Model Lift - Noise Graph

• PSB-12A Model Lift - Noise Graph AC230V 50Hz/60Hz, at a water level of 10mm, testing draining noise in 1min under different lift (at the distance of 1m)





PSB-12A Model Lift - Noise Graph

• AC230V 50Hz/60Hz, at a water level of 10mm, testing draining noise in 1min under different lift (at the distance of 1m)

B SERIES **Drain Pump**

PSB 12B series drain pump are used in packaged air conditioners and indoor unit of ceiling air conditioners to drain the condensate generated by the heat exchanger during cooling and dehumidification.



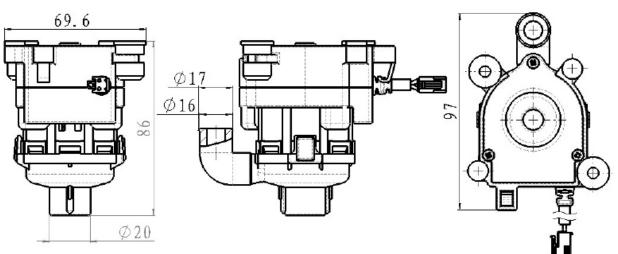
FEATURES

- LOW NOISE, LOW VIBRATION AND LIGHT WEIGHT
- SMALL VOLUME, BIG FLOW AND LONG SERVICE LIFE
- LOW ENERGY CONSUMPTION
- COST-EFFECTIVE

GENERAL SPECIFICATIONS

- Applicable fluid temperature: $0^{\circ}C \sim +50^{\circ}C$ (but no fluid frozen)
- Applicable ambient temperature: -10°C ~ 50 °C
- Relative humidity: below 95% RH





BSERIES Drain Pump

SANHUA PRODUCT CATALOGUE

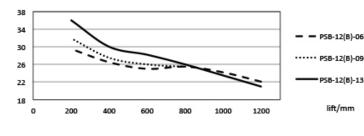


TECHNICAL PARAMETERS

Model	Nominal lift	Nominal flow	Rated voltage	Rated current	input power	
Model	mm	ml/min	V	mA	W	
PSB-12(B)-06	1200	≥400	DC13V	<323	<4.2	
PSB-12(B)-09	850	≥450	DC12V	<300	<3.6	
PSB-12(B)-13	1200	≥400	DC12V	<350	<4.2	

noise/dB(A)

Lift and Noise Graph



Lift and Noise Graph

• AC230V 50Hz/60Hz, at a water level of 10mm, testing draining noise in 1min under different lift (at the distance of 1m)

SANHUA

YOUR ROAD MAP TO THE ECO-DESIGN DIRECTIVE

KEEPS YOU ONE STEP AHEAD OF THE COMING EFFICIENCY AND ENVIRONMENTAL **EUROPEAN CHALLENGES**

*DIRECTIVE 2012/27/EU



- Improves HVACo-R system efficiency up to 20%
- DPFo-VPF series from 2kW to 1400kW
 *75kW and 1400kW available in Quarter 4
- Advanced MSS (Minimum Stable Superheat) control logic

4 Way Reversing Valve

- Improves efficiency by 5%
- SHF series 1kW to 420 kW Widest range in the market with Single Body Design

1 kW

420kW

Inverter Controller for Large System

Improves system efficiency up to **30%** Active Frequency Conversion Technology Wide Range of voltage application

MCHE

Improves efficiency by 30% Refrigerant Charge Reduction by 30% Enviro ental Friendl MCHE is lighter in weight, smaller in volume Compact Design

YKG (A) SERIES **Float Level Switch**

YKG (A) series level switches are applicable to many environments, usually connected to actuators such as drain pumps or electromagnetic valves to control the fluid level in the equipment for the purpose of level warning in the system.



FEATURES

- RELIABLE ACTION POINT, AND LONG LIFE
- COST EFFECTIVE

GENERAL SPECIFICATIONS

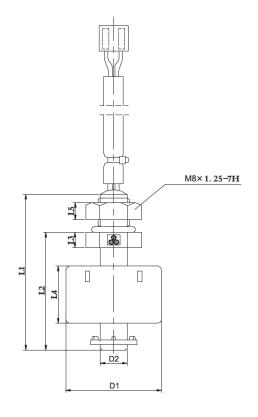
- Applicable fluid temperature: 0°C \sim +40°C (but no fluid frozen)
- Applicable ambient temperature: -10°C ~ +60°C
- Relative humidity: below 95% RH

Model	Max. Contact Power W	Max. Switching Voltage V	Max. Switching Current A	Action Life 10 thousand times	Contact Resistance between Reed Contacts mΩ
YKG(A)-10	10	DC 100/AC 100	DC 0.5/AC 0.5	100	≤300
YKG(A)-50	50	DC 300/AC 300	DC 0.7/AC 0.5	100	≤300



DIMENSIONS

YKG (A) SERIES Float Level Switch



Model	Dime	ension					
L1	41±0.5	44±0.5					
L2	31±0.5	34±0.5					
D1	φ25						
D2		φ7					
L3		15					
L4	4						
L5		4.5					

Notes:

1) Type and length of leads, terminal insulation casing will be optional subject to the customers' needs.

2) See above figure for external dimensions of nuts. Recommended to tighten the nut to 0.25 $\ensuremath{\mathsf{N.m}}\xspace;$

P SERIES Accumulator

Accumulator is installed between the suction port of the refrigerating system compressors and evaporator to separate gas and fluid, store fluid, return oil and filter.



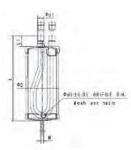
FEATURES

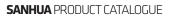
- INLET AND OUTLET ARE MADE OF COPPER TUBES
- AIR GUIDING PART DIRECT THE REFRIGERANT TOWARD THE WALL WHICH FROM A SLIPSTREAM TO MAKE THE REFRIGERANT EXPAND QUICKLY AND SLOW THE FLOW TO LET THE LIQUID DROP DOWN. THIS EFECTIVELY SEPARATES THE LIQUID AND GAS.
- THE U TUBE DESIGN GUARANTEE A MAX FLOW OF REFRIGERANT AND STOP LITTLE LUBRICATION OIL. THE INLET OF U TUBE IS BEHIND AIR GUIDING PART WHICH CAN PREVENT THE LIQUID FROM ENTERING COMPRESSOR. AT THE SAME TIME, IT CAN CHANGE THE DIRECTION OF REFRIGERANT TO COMPLETELY SEPARATE THE LIQUID AND GAS.
- THE BALANCING HOLE IN THE UPPER U TUBE CAN EFFECTIVELY ELIMINATE THE SIPHON CAUSED THE RESTART OF SYSTEM SO AS TO AVOID EXCESSIVE LIQUID ENTERING COMPRESSOR.
- THE OIL RETURN HOLE IS MATCHING THE SYSTEM CAPACITY TO OPTIMIZE THE FLOW OF LIQUID REFRIGERANT AND LUBRICATION OIL INTO COMPRESSOR
- CONNECTION TUBE, U TUBE AND VOLUME OF ACCUMULATOR IS DESIGNED BASED ON THE BASIC DEMAND OF HEAT PUMP SYSTEM ALLOWS A PROPER AND RELIABLE LIQUID REFRIGERANT AND LUBRICATION OIL BACK TO COMPRESSOR. THIS COMBINATION IS TO ACHIEVE AMINIMUM PRESSURE DROP AND LARGEST REFRIGERANT CAPACITY.
- POWER COATED SURFACE CAN SURVIVE 500 HOURS OF SALT SPRAY TEST.
- INCORPORATED FUSE OF 220°C

GENERAL SPECIFICATIONS

- Applicable refrigerant: CFC, HCFC, HFC and HFO
- Applicable medium temperature: -30°C ~+120°C (22°F~+240°F)
- Applicable ambient temperature: -35°C ~+55°C (22°F~+131°F)
- Maximum working pressure: 2.5MPa
- Certification: UL, CSA and PED

P SERIES Accummulator







						N	Screw Size		Volume
Model	D mm	Lmm	d1 mm	L1 mm	d2 mm	meshes/in	M	d2 mm	L
ACM-P21076-901	76	185,8	16,12	34,3	1,0	60	3/8-16UNC-2A	1,0	0,63
ACM-P22076-901	76	268,8	16,12	34,3	1,0	60	3/8-16UNC-2A	1,0	0,98
ACM-P23076-901	76	382,3	16,12	34,3	1,0	60	3/8-16UNC-2A	1,0	1,46
ACM-P21101-901	101,6	251	16,12	34,3	1,0	60	3/8-16UNC-2A	1,0	1,59
ACM-P22101-901	101,6	251	16,12	34,3	1,4	30	3/8-16UNC-2A	1,4	1,59
ACM-P23101-901	101,6	251	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	1,59
ACM-P24101-901	101,6	251	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	1,59
ACM-P25101-901	101,6	282,3	16,12	34,3	1,0	60	3/8-16UNC-2A	1,0	1,83
ACM-P26101-901	101,6	282,3	16,12	34,3	1,4	30	3/8-16UNC-2A	1,4	1,83
ACM-P27101-901	101,6	282,3	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	1,83
ACM-P28101-901	101,6	282,3	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	1,83
ACM-P29101-901	101,6	320	16,12	34,3	1,0	60	3/8-16UNC-2A	1,0	2,11
ACM-P30101-901	101,6	320	16,12	34,3	1,4	30	3/8-16UNC-2A	1,4	2,11
ACM-P31101-901	101,6	320	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	2,11
ACM-P32101-901	101,6	320	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	2,11
ACM-P33101-901	101,6	357,1	16,12	34,3	1,0	60	3/8-16UNC-2A	1,0	2,39
ACM-P34101-901	101,6	357,1	16,12	34,3	1,4	30	3/8-16UNC-2A	1,4	2,39
ACM-P35101-901	101,6	357,1	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	2,39
ACM-P36101-901	101,6	357,1	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	2,39
ACM-P37101-901	101,6	432,1	16,12	34,3	1,0	60	3/8-16UNC-2A	1,0	2,96
ACM-P38101-901	101,6	432,1	16,12	34,3	1,4	30	3/8-16UNC-2A	1,4	2,96
ACM-P39101-901	101,6	432,1	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	2,96
ACM-P40101-901	101,6	432,1	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	2,96
ACM-P21127-901	127	250,4	22,35	40,4	1,4	30	3/8-16UNC-2A	1,4	2,49
ACM-P22127-901	127	250,4	22,35	40,4	1,0	60	3/8-16UNC-2A	1,0	2,49
ACM-P23127-901	127	244,3	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	2,49
ACM-P24127-901	127	244,3	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	2,49
ACM-P25127-901	127	293,9	22,35	40,4	1,4	30	3/8-16UNC-2A	1,4	3,01
ACM-P26127-901	127	293,9	22,35	40,4	1,0	60	3/8-16UNC-2A	1,0	3,01
ACM-P27127-901	127	287,8	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	3,01
ACM-P28127-901	127	287,8	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	3,01
ACM-P29127-901	127	327,2	22,35	40,4	1,4	30	3/8-16UNC-2A	1,4	3,41
ACM-P30127-901	127	327,2	22,35	40,4	1,0	60	3/8-16UNC-2A	1,0	3,41
ACM-P31127-901	127	321,1	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	3,41
ACM-P32127-901	127	321,1	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	3,41
ACM-P33127-901	127	389,6	22,35	40,4	1,4	30	3/8-16UNC-2A	1,4	4,14
ACM-P34127-901	127	389,6	22,35	40,4	1,0	60	3/8-16UNC-2A	1,0	4,14
ACM-P35127-901	127	383,5	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	4,14
ACM-P36127-901	127	383,5	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	4,14
ACM-P37127-901	127	438,2	22,35	40,4	1,0	30	3/8-16UNC-2A	1,4	4,72
ACM-P38127-901	127	438,2	22,35	40,4	1,4	60	3/8-16UNC-2A	1,4	4,72
ACM-P39127-901	127	438,2	19,17	34,3	1,0	30	3/8-16UNC-2A	1,0	4,72
ACM-P39127-901	127			34,3		60	3/8-16UNC-2A		4,72
ACM-P40127-901 ACM-P21153-901	152,4	432,1 366,3	19,17 28,63	48,3	1,0	30	1/2-13UNC-2A	1,0 2,03	4,72
ACM-P21153-901 ACM-P22153-901	152,4				2,03	30	1/2-13UNC-2A		5
ACM-P22153-901 ACM-P23153-901		370,3	35,15	52,3	2,03	30		2,03	
	152,4	408,3	28,63	48,3	2,03		1/2-13UNC-2A	2,03	5,7
ACM-P24153-901	152,4	412,3	35,15	52,3	2,03	30 30	1/2-13UNC-2A	2,03	5,7
ACM-P25153-901	152,4	475,5	28,63	48,3	2,03		1/2-13UNC-2A	2,03	6,8
ACM-P26153-901	152,4	479,5	35,15	52,3	2,03	30	1/2-13UNC-2A	2,03	6,8
ACM-P27153-901	152,4	530,1	28,63	48,3	2,03	30	1/2-13UNC-2A	2,03	7,8
ACM-P28153-901	152,4	534,1	35,15	52,3	2,03	30	1/2-13UNC-2A	2,03	7,8

series Accumulator

S series accumulator is installed between the suction port of the refrigerating system compressors and evaporator to separate gas and fluid, store fluid, return oil and filter.



FEATURES

- INLET AND OUTLET ARE MADE OF COPPER TUBES
- AIR GUIDING PART DIRECT THE REFRIGERANT TOWARD THE WALL WHICH FORM A SLIPSTREAM TO MAKE THE REFRIGERANT EXPAND QUICKLY AND SLOW THE FLOW TO LET THE LIQUID DROP DOWN. THIS EFFECTIVELY SEPARATES THE LIQUID AND GAS.
- THE U TUBE DESIGN GUARANTEE A MAX FLOW OF REFRIGERANT AND STOP LITTLE LUBRICATION OIL. THE INLET OF U TUBE IS BEHIND AIR GUIDING PART WHICH CAN PREVENT THE LIQUID FROM ENTERING COMPRESSOR. AT THE SAME TIME, IT CAN CHANGE THE DIRECTION OF REFRIGERANT TO COMPLETELY SEPARATE THE LIQUID AND GAS.
- THE BALANCING HOLE IN THE UPPER U TUBE CAN EFFECTIVELY ELIMINATE THE SIPHON CAUSED THE RESTART OF SYSTEM SO AS TO AVOID EXCESSIVE LIQUID ENTERING COMPRESSOR
- THE OIL RETURN HOLE IS MATCHING THE SYSTEM CAPACITY TO OPTIMIZE THE FLOW OF LIQUID REFRIGERANT AND LUBRICATION OIL INTO COMPRESSOR.
- CONNECTION TUBE, U TUBE AND VOLUME OF ACCUMULATOR IS DESIGNED BASED ON THE BASIC DEMAND OF HEAT PUMP SYSTEM INCLUDING SAFETY STORE CAPACITY (VS. TOTAL CAPACITY); PROTECTIVE FLOW CONTROL BACK TO COMPRESSOR ALLOWS A PROPER AND RELIABLE LIQUID REFRIGERANT AND LUBRICATION OIL BACK TO COMPRESSOR. THIS COMBINATION IS TO ACHIEVE A MINIMUM PRESSURE DROP AND LARGEST REFRIGERANT CAPACITY.
- POWDER COATED SURFACE CAN SURVIVE 500HOURS OF SALT SPRAY TEST
- ADVANCED STRUCTURE DESIGN AND PROCESS, COST-EFFECTIVE

GENERAL SPECIFICATIONS

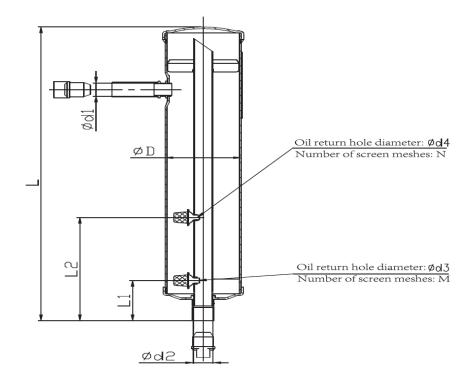
- Applicable refrigerant: CFC, HCFC, HFC and HFO
- Applicable medium temperature: -30°C~+120°C (-22°F~+240°F)
- Applicable ambient temperature: -35°C~+55°C (-22°F~+131°F)
- Maximum working pressure: 2.5MPa (362.5Psig)
- Certification: UL, CSA and PED

Note: 1) Please contact Sanhua representative for details regarding refrigerants.

S SERIES **Accumulator**

SANHUA PRODUCT CATALOGUE





Model	L mm	D mm	d1 mm	d2 mm	L1 mm	L2 mm	d3 mm	d4 mm	M meshes/in	N meshes/in
ACM-S00063-004	355.6	63.5	16	16	51	127	1.52	0.74	60	60
ACM-S00063-005	355.6	63.5	16	16	51	127	3.2	0.74	60	60
ACM-S00063-006	355.6	63.5	16	16	51	127	0.74	0.74	60	60
ACM-S00063-012	431.8	63.5	19.2	19.2	51	127	1.14	0.74	60	60
ACM-S00076-007	279.4	76	19.2	19.2	64.3	140.5	1.52	1.52	30	30
ACM-S00076-008	330.2	76	22.4	22.4	70.6	146.8	1.52	1.52	30	30
ACM-S00101-023	333.3	101.6	19.2	19.2	50.8	127	1.52	0.74	30	60
ACM-S00101-033	333.3	101.6	22.4	22.4	50.8	127	1.52	0.74	60	60
ACM-S00101-017	371.4	101.6	19.2	19.2	50.8	127	1.52	0.74	60	60
ACM-S00101-012	371.4	101.6	22.4	22.4	50.8	127	1.52	0.74	60	60
ACM-S00101-022	438	101.6	22.4	22.4	50.8	127	1.52	0.74	30	60
ACM-S00101-021	485.7	101.6	22.4	22.4	50.8	127	1.52	0.74	60	60
ACM-S00101-016	523.7	101.6	22.4	22.4	50.8	127	1.52	0.74	60	60
ACM-S00101-025	558.8	101.6	19.2	19.2	50.8	127	0.74	0.74	60	60
ACM-S00101-024	612.7	101.6	22.4	22.4	50.8	152.4	1.52	0.74	60	60

v series Liquid Receiver

Liquid receiver are usually installed on high pressure liquid line of refrigeration systems to store excessive refrigerant when the load of the system changes.

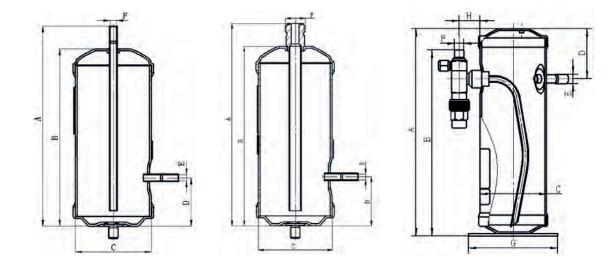


FEATURES

- THE INLET USE SOLDER CONNECTION AND 3 TYPES OUTLET ARE AVAILABLE: A SERIES WITH SOLDER CON-NECTION, B SERIES WITH FLARE CONNECTION, AND C SERIES WITH ANGLE VALVE STRUCTURE
- INTERNAL FLOW-OUT IS REALIZED BY SUCTION TUBE
- POWDER COATED SURFACE CAN SURVIVE 500 HOURS OF SALT SPRAY TEST

GENERAL SPECIFICATIONS

- Applicable refrigerant: HCFC, HFC and HFO
- Applicable medium temperature: -30°C+120°C-22°F~+248°F)
- Applicable ambient temperature: -30°C~+55°C-22°F~+131°F)
- Maximum working pressure: 3.5MPa(500psig)
- Certification: UL&CUL, PED



V SERIES Liquid Receiver

SANHUA PRODUCT CATALOGUE



Series	Model	Internal	Dimensions (mm)										
Series	Model	Volume (L)	Α	В	С	D	E (Inlet)	F (Outlet)	G	Н			
	LRA-A01063-901	0.4	171	143	Φ63.5	51	Φ6.5	Φ6.5	/	/			
A	LRA-A02076-901	0.75	210	186	Φ76	51	Φ6.5	Φ6.5	/	/			
В	LRA-B02076-901	0.75	210	186	Φ76	51	Φ6.5	3/4-16UNF-2A	/	/			
D	LRA-B05127-901	2.1	221	197	Φ127	63.5	Φ6.5	3/4-16UNF-2A	/	/			
C	LRA-C01089-901	1.5	254	224	Ф89	63.5	Φ9.7	Φ9.7	120	28			
С	LRA-C02127-901	3.3	257	240	Φ127	63.5	Φ9.7	Φ9.7	165	28			



KCY SERIES Suction line Accumulator (Compressor)

Applicable for household air conditioner compressor, the Accumulator is installed in front of the compressor to separate refrigerant and refrigeration oil and impurities not completely gasified by evaporators. It has functions of gas-liquid separation, liquid storage, oil return and noise reduction to ensure that the compressor would not be damaged by fluid impact.



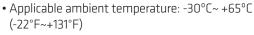
FEATURES

- CORROSION RESISTANCE: FINISHED WITH POWDER PAINTING SURVIVING 500 HOURS OF SALT SPRAY TEST
- LONG SERVICE LIFE: STEEL CASING, MORE ENDURABLE

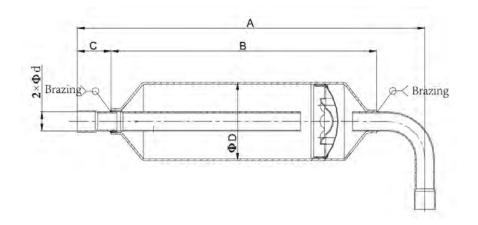
GENERAL SPECIFICATIONS

- Applicable refrigerant: CFC,HCFC, HFC etc.
- Applicable medium temperature: -30°C~+120°C (-22°F~+240°F)
- TECHNICAL PARAMETERS

Steel Receiver



- Maximum working pressure: 4.8MPa
- Certification: UL and CSA



KCY SERIES Suction line Accumulator (Compressor)



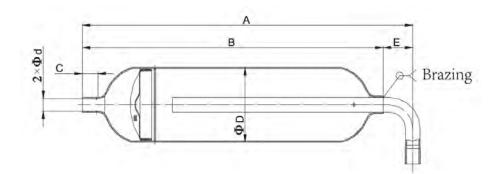
TECHNICAL PARAMETERS

Steel Receiver

Model	D mm	B mm	A mm	C mm	d in	Connection Type
KCY-FXX025	25,4	70~330	120~450	25~150	1/2, 1/4, 3/8	
KCY-FXX031	31,75	70~330	120~450	25~150	1/2, 1/4, 3/8	
KCY-FXX035	35	70~330	120~450	25~150	1/2, 1/4, 3/8	
KCY-FXX040	40	90~330	140~450	25~150	1/2, 1/4, 3/8	Solder Connection
KCY-FXX048	48	90~330	140~450	25~150	1/2, 1/4, 3/8	
KCY-FXX050	50,8	90~330	140~450	25~150	1/2, 1/4, 3/8	
KCY-FXX065	65	130~330	180~450	25~150	1/2, 1/4, 3/8	

DIMENSIONS

Copper Receiver



Model	D mm	B mm	A mm	C mm	E mm	d in	Connection Type
KCY-CXX025	25,4	70~330	120~450	5~15	25~150	1/2, 1/4, 3/8	
KCY-CXX030	30	70~330	120~450	5~15	25~150	1/2, 1/4, 3/8	
KCY-CXX031	31,75	70~330	120~450	5~15	25~150	1/2, 1/4, 3/8	
KCY-CXX035	35	90~330	140~450	5~15	25~150	1/2, 1/4, 3/8	Calder Connection
KCY-CXX041	41,3	90~330	140~450	5~15	25~150	1/2, 1/4, 3/8	Solder Connection
KCY-CXX048	48	90~330	140~450	5~15	25~150	1/2, 1/4, 3/8	
KCY-CXX050	50,8	130~330	180~450	5~15	25~150	1/2, 1/4, 3/8	
KCY-CXX057	57,2	130~330	180~450	5~15	25~150	1/2, 1/4, 3/8	

JYQ SERIES **Compensator**

The Compensator is applicable for commercial air conditioner, freezing or deep-freezing equipment or other refrigeration circuits in order to open and to shut off inner flow path by operating the valve stem. It can also be used as service valve for vacuum pumping and refrigerant injection etc.



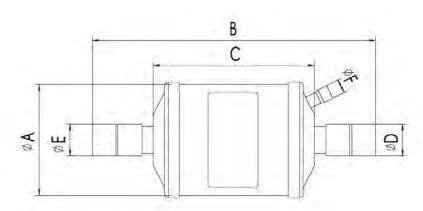
FEATURES

- SOLID COPPER SOLDER CONNECTION
- MINIMIZE PRESSURE DROP
- GUARANTEE THE MAXIMUM WORKING PRESSURE
- POWDER COATED SURFACE CAN SURVIVE 500 HOURS OF SALT SPRAY TEST
- EXCELLENT ANTI-SHOCK AND VIBRATION PERFORMANCE: USING STEEL CASING

GENERAL SPECIFICATIONS

- Applicable refrigerant: HFC, HCFC , HC and HFO
- Applicable medium temperature: -30°C~ +120°C (-22°F~+240°F)
- Applicable ambient temperature: -30°C~ +55°C (-22°F~+131°F)
- Maximum working pressure: 4.83MPa
- Certification: UL, CSA Declaración PED

DIMENSIONS TECHNICAL PARAMETERS



Note: 1) Please contact Sanhua representative for details regarding refrigerants.

JYQ SERIES Compensator



	Dimensions						
Model	A mm	B mm	C mm	D in	E in	F in	Connection Type
JYQ-A23060-901	89	182,6	84,6	6/8	6/8	3/8	
JYQ-A36060-901	89	226,5	128,5	6/8	6/8	3/8	
JYQ-A45060-901	89	258	160	6/8	6/8	3/8	
JYQ-A55060-901	89	280,4	182,7	6/8	6/8	3/8	
JYQ-A66060-901	89	306,3	208,3	6/8	6/8	3/8	
JYQ-A78060-901	89	358,4	260,4	6/8	6/8	3/8	
JYQ-A89060-901	89	402,8	304,8	6/8	6/8	3/8	
JYQ-B13060-901	89	463,8	365,8	6/8	6/8	3/8	Solder Connection
JYQ-A23070-901	89	182,6	84,6	7/8	7/8	3/8	Solder Connection
JYQ-A36070-901	89	226,5	128,5	7/8	7/8	3/8	
JYQ-A45070-901	89	258	160	7/8	7/8	3/8	
JYQ-A55070-901	89	280,4	182,7	7/8	7/8	3/8	
JYQ-A66070-901	89	306,3	208,3	7/8	7/8	3/8	
JYQ-A78070-901	89	358,4	260,4	7/8	7/8	3/8	
JYQ-A89070-901	89	402,8	304,8	7/8	7/8	3/8	
JYQ-B13070-901	89	463,8	365,8	7/8	7/8	3/8	



TXY/XYQ SERIES Muffler

Muffler are used in refrigerating systems such as household air conditioners or commercial air conditioners. Muffler are installed in discharge line or other pipes with vibration and noise to eliminate and alleviate noises.



• Applicable ambient temperature: -30°C~ +55°C

• Maximum working pressure: 4.8MPa

• Certification: UL, CSA and PED declaration

FEATURES

- CORROSION RESISTANT: FINISHED WITH EPOXY POWDER PAINTING
- EXCELLENT ANTI-SHOCK AND ANTI-VIBRATION PERFORMANCE WITH STEEL OR COPPER CASING

GENERAL SPECIFICATIONS

- Applicable refrigerant: HCFC,HFC and HC
- Applicable medium temperature: -30°C~+120°C (-22°F~+240°F)"

TECHNICAL PARAMETERS

B A Q Q Q

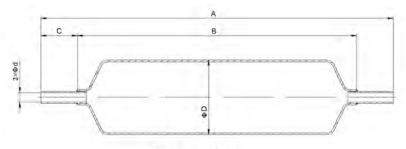
(-22°F~+131°F)"

Regular Steel Muffler

Dimensions						
Model	D mm	A mm	B mm	d in	d in	Connecction Type
TXY-A12040-002	65	76.2	154.4	1/2	1/2	
TXY-A29040-001	76	115.6	163.8	1/2	1/2	Solder Connections
TXY-A49040-001	76	190.5	238.7	1/2	1/2	Solder Connections
TXY-A30040-003	76	123.9	231.9	1/2	1/2	

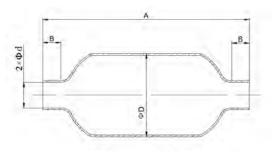
Note: 1) Please contact Sanhua representative for details regarding refrigerants.





Spun Steel Muffler

Model	D mm	A mm	B mm	C mm	d in	Connecction Type
XYQ-FXX025	25,4	70~330	120~450	25~150	1/2, 1/4, 3/8	
XYQ-FXX031	31,75	70~330	120~450	25~150	1/2, 1/4, 3/8	
XYQ-FXX035	35	70~330	120~450	25~150	1/2, 1/4, 3/8	
XYQ-FXX040	40	70~330	120~450	25~150	1/2, 1/4, 3/8	Solder Connections
XYQ-FXX048	48	90~330	120~450	25~150	1/2, 1/4, 3/8	
XYQ-FXX050	50,8	90~330	120~450	25~150	1/2, 1/4, 3/8	
XYQ-FXX065	65	130~330	120~450	25~150	1/2, 1/4, 3/8	



Spun Copper Muffler

Model	D mm	B mm	A mm	d in	Connecction Type
XYQ-CXX025	25,4	5~15	70~330	1/2, 1/4, 3/8	
XYQ-CXX030	30	5~15	70~330	1/2, 1/4, 3/8	
XYQ-CXX031	31,75	5~15	70~330	1/2, 1/4, 3/8	
XYQ-CXX035	35	5~15	70~330	1/2, 1/4, 3/8	Solder Connections
XYQ-CXX041	41,3	5~15	90~330	1/2, 1/4, 3/8	
XYQ-CXX048	48	5~15	90~330	1/2, 1/4, 3/8	
XYQ-CXX050	50,8	5~15	90~330	1/2, 1/4, 3/8	

Y SERIES Pressure Vessel

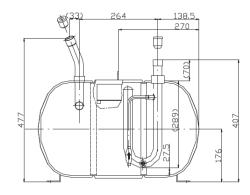
FEATURES

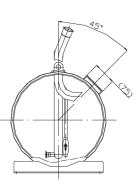
- THE DESIGN, MANUFACTURING AND INSPECTION IS BASED ON NB/T 47012 AND TSG R0004 STANDARD
- THE WELDING IS GOVERNED BY JB/T 4709
- THE INSPECTION OF WELDING LINE IS GOVERNED BY GRADE II IN JB/T 4730.2 WITH X-RAY.
- THE PRESSURE TEST IS FOLLOWING NB/T 47012

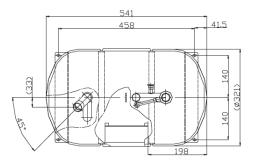


GENERAL SPECIFICATIONS

- Type of the vessel: D2
- Maximum operating pressure: 10 MPa
- Material of the main pressure parts: Carbon Steel and stainless steel
- Applicable refrigerant: as per customer
- Diameter range of body: Φ 150 ~ Φ 700 mm
- Maximum length of the product: 4000 mm











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Note: Conditions could change without previous notice due to components updating or typing mistakes. Sanhua declines any responsibility for a wrong product choice based on this table. Please make sure all your requirements are covered in our suggestion.

GZJ SERIES **Assembly**

GZJ series piping assembly is applicable for heat pump air conditioning systems such as room air conditioners to provide flow path for refrigerant.

FEATURES

- ALL HAVE BEEN TESTED AGAINST AIR TIGHTNESS TO ENSURE NO LEAKAGE UPON DELIVERY
- COMPLETE PERFORMANCE TEST ON VALVES SUCH AS 4-WAY VALVES AND ELECTRONIC EXPANSION VALVES TO ENSURE THE PRODUCT PERFORMANCE UPON DELIVERY



GENERAL SPECIFICATIONS

TECHNICAL PARAMETERS

- Applicable refrigerant: HFC, HCFC and CFC etc.
- Applicable medium temperature: -30°C~+120°C
- Maximum working pressure: R22, R407C: 3MPa R410A: 4.15MPa

Item	Refrigerant	Standard
	R22	≤5mg
Content of undissolved impurites	R407C	≤5mg
	R410A	≤5mg
	R22	≤20mg
Content of mineral oil	R407C	≤15mg
	R410A	≤15mg
	R22	/
Content of chloride ion	R407C	< EDDM
	R410A	≤5PPM

DIMENSIONS

Due to the particularity of pipe components, the installation position, product structure and connection size required by different customers differs, even those required by different model of products of one customer differs. Therefore, product structure and interface size are varied subject to the specific customer and product model.

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Model: MDF-A03-6H 007

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MDF-08024

Pilot (Elaphragm)

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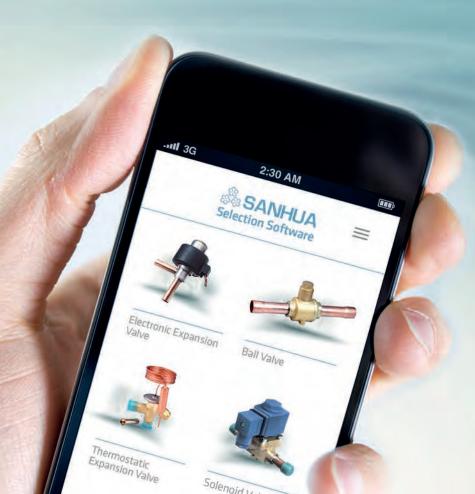
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MDE-08024

0.28

Priot (Diaphragm)

This app offers you suggestions for the **selection of refrigeration** and air-conditioning components based on the user's requirements or on standard operating conditions in common refrigeration and A/C system.



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