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BEST SUPPLIER AWARDS

B/S/H/







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



EEV TECHNOLOGY AND ELECTRONIC CONTROLS

IMPROVES HVAC&R SYSTEM EFFICIENCY UP TO 20%

DPF6VPF SERIES FROM 2KW TO 1400KW *75KW AND 1400KW AVAILABLE IN QUARTER 4

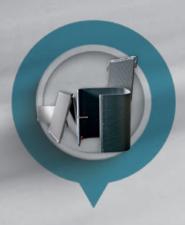
ADVANCED MSS (MINIMUM STABLE SUPERHEAT) CONTROL LOGIC

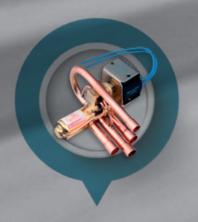


MICRO-CHANEL HEAT EXCHANGERS

IMPROVES EFFICIENCY BY 30%

REFRIGERANT CHARGE REDUCTION BY 30% ENVIRONMENTAL FRIENDLY
MCHE IS LIGHTER IN WEIGHT, SMALLER IN VOLUME COMPACT DESIGN





FOUR WAY REVERSING VALVE

IMPROVES EFFICIENCY BY 5% SHF SERIES 1KW TO 420 KW

WIDEST RANGE IN THE MARKET WITH SINGLE BODY DESIGN

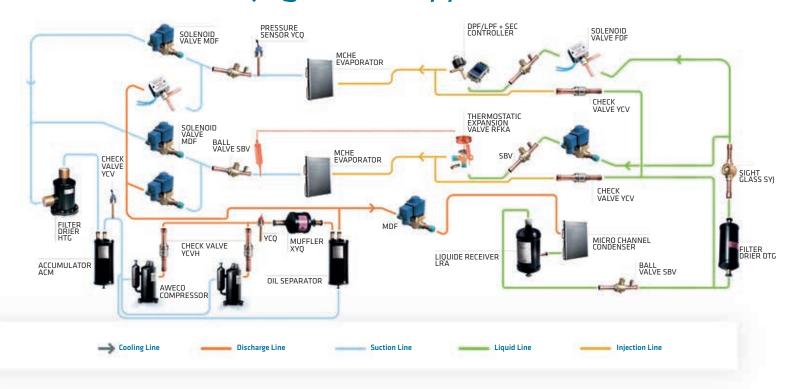


YOUR ROAD MAP TO THE ECO-DESIGN DIRECTIVE

THE SOLUTION IS HERE

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

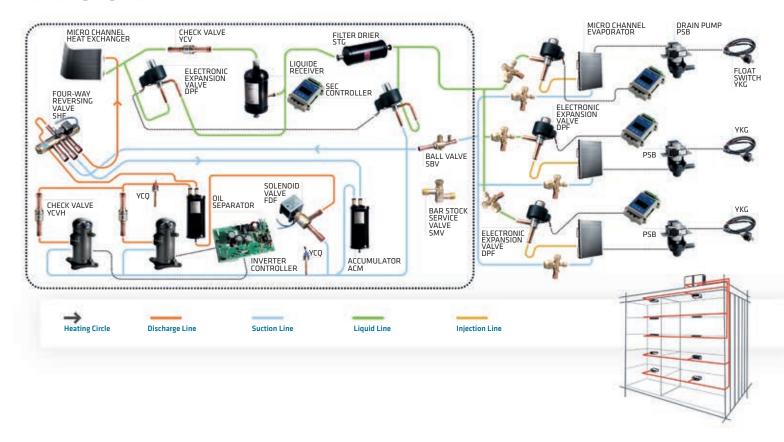
Commercial Refrigeration Application Solutions



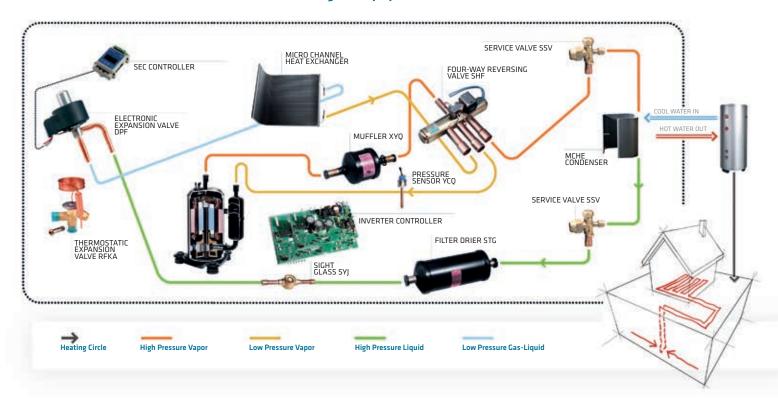


COMMERCIAL AIR CONDITIONING

VRF SYSTEM



Air to Water Heat Pump Application Solutions





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

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

Note:

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

ELECTRONIC EXPANSION VALVE



TECHNICAL PARAMETERS

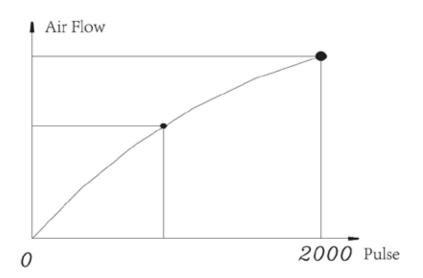
	Port	R22 Non	ninal Capacity			Internal				
Model	mm	kW	US.R.T	R22	R407C	R410A	Leakage ml/min	R22	R407C	R410A
DPF(O)1.3	1.3	5.28	1.5							
DPF(O)2.0	2.0	8.8	2.5				≤600			
DPF(0)2.4	2.4	10.56	3.0							
DPF(O)3.2	3.2	14.1	4.0							
DPF(O)3.2	3.2	17.6	5.0	2.26	2.48	3.43		3.0	3.3	4.2
DPF(O)4.0	4.0	21.2	6.0				<1000			
DPF(O)5.2	5.2	28.1	8.0				≤1000			
DPF(O)6.4	6.4	35.2	10.0							
DPF(O)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

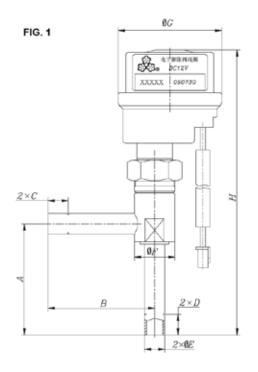
Standard Flow Curve

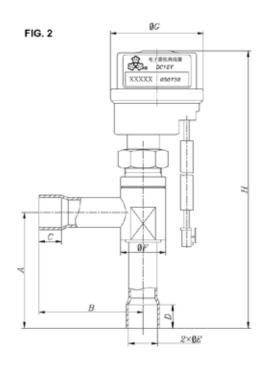


ELECTRONIC EXPANSION VALVE



DIMENSIONS





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

GREEN TECHNOLOGY FOR LOW CARBON FOOTPRINT

SANHUA

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 ±15° 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

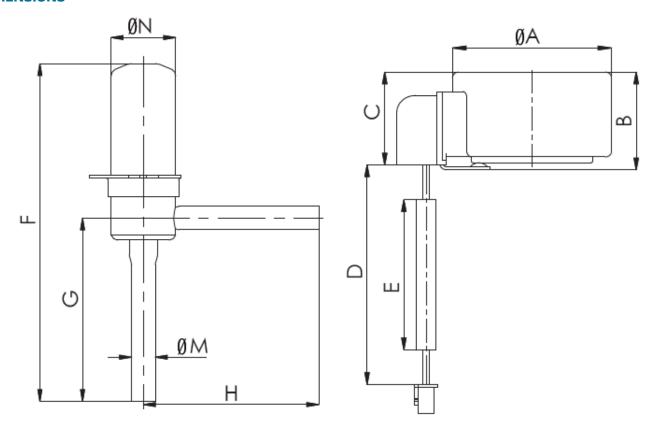
ELECTRONIC EXPANSION VALVE



TECHNICAL PARAMETERS

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

DIMENSIONS



Port mm	Code of the		Dimensions (mm)								
	Coil Series	A	В	С	D	E	F	G	Н	М	N
1.5	M10	38.5	26.4	25.6	700	600	93,5	50	47	6.35	17.3

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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.

Applications

mode.

SANHUA MCHE
Condenser

• Commercial cooling application for chillers units.

Over 1.3 million coils on the market since 2008

• Residential air conditioning for outdoor units.

The Sanhua MCHE Condenser

• Refrigeration application (transport and retail refrigeration).

· Developed with a superior design and performance in cooling

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.

Scan QR for more info



FOR DETAILED INFORMATION PLEASE CONTACT

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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)

Manufacturing capabilities

FIN

MACHINE

SHIPPING PALLET









ASSEMBLY





FIN PROCESS



HELIUM DETECTOR

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	2НР	ЗНР
Voltage	220V±25%			
Frequency	50Hz/60Hz			
Frequency conversion range	Passive PFC 15-8	35Hz/Active PFC 1	5-120Hz	
Power factor	Passive PFC:0.85 Part PFC:0.95~0 Whole range PFC	.98		
Construction	One-unit design/	Split design		Split design
Allowed ambient temperature	-15°C ~ +55°C			-15°C ~ +55°C
Compressor actuating method	150° wide-angle	actuating/Sine wa	ave actuating	Sine wave actuating
Outdoor fan	DC motor/AC mo	otor		
Throttle mode	Electronic expan	sion valve/capillar	y tubes	
Actuating compressor	GMCC, Panasoni	c, Hitachi, Sanyo,	MITSUBISHI etc.	
Certification	3C\CE\ETL\TUV(including 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

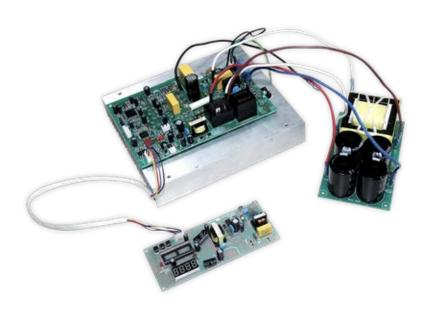
- INTELLIGENT ANTI-FREEZE PROTECTION UNDER LOW TEMPERATURE, SUITABLE FOR OUTDOOR USE IN LOW TEMPERATURE
- UTILIZING ACTIVE FREQUENCY CONVERSION TECHNOLOGY FOR THE WHOLE PROCESS WITH A POWER FACTOR ABOVE 98.5%, APPLICABLE FOR A WIDER RANGE OF VOLTAGE
- USING DC FREQUENCY CONVERSION 180° SINE WAVE ACTUATING 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

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	-30C° ~ +85C°
Humidity	30 ~ 95%RH
ambient temperature for operating	-20C° ~ +60C°
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 ⁰
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 INSTALL 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 F	MPa	
Model	Operation Type	Cv Value	Max		
			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

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 ~ +146°C (non-persistent);
- Applicable ambient temperature: -30°C ~+60°C;
- Relative humidity: below 95% RH

TECHNICAL PARAMETERS Technical Parameters Of Valve Body

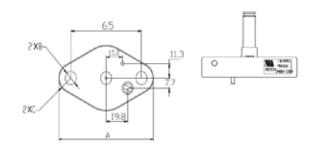
Model	Flow L/min (ΔP=0.345MPa)	Operation Pressu	re Difference MPa	Max. Working Pressure MPa
	1 1011 2, 11111 (21 010 101 11 11)	Max	Min	
FDF2A903-01	42.5	2.0	0	2.5
FDF2A903-02	42.5	2.8	U	3.5

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



HDF SERIES

SOLENOID VALVE

HDF series solenoid valves are piston type pilot operated solenoid valves, mainly used in refrigerant control of various devices such as refrigerating and freezing systems, air conditioners and heat pumps. The maximum admitted refrigerant temperature (equal to $\pm 140^{\circ}$ C) permits to install HDF valves in gas injection or hot gas bypass lines such as in the compressor discharge line.



FEATURES

- VALVE BODY WITH A COMPACT DESIGN, EASY TO MANAGE AND INSTALL
- VALVE BODY WITH HERMETIC DESIGN TO ELIMINATE THE RISK OF EXTERNAL LEAKAGE
- SOLENOID VALVES PILOTED BY PISTON ACTUATION. WIDE MEDIUM TEMPERATURE RANGE ALLOWED
- GREAT VALVE OPENING PERFORMANCE, HIGH MAX. OPD
- COILS: LOW ENERGY CONSUMPTION, RELIABLE
- COILS ARE DOUBLE SEALED, WATER TIGHT AND SAFE
- COILS CAN BE SELECTED WITH DIN CONNECTOR

GENERAL SPECIFICATIONS

- Applicable for all common HCFC, HFC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507, R407A/F, R448A/R449A, R452A, R450A/R513A¹⁾
- Medium temperature TS min./max.: -40°C/+140°C
- Ambient temperature min./max.: -30°C /+55°C
- Relative humidity: 0 to 95% RH

- Installation position:
 - Liquid, suction and discharge line
 - Preferably coil upwards and flow direction corresponds to the arrow
- Certifications: Declaration according to LVD and PED (2014/68/EU)

Note: 1) Flammable refrigerants like R32, R290, R1234ze(E), R1234yf on request

TECHNICAL PARAMETERS OF VALVE BODY

Valve body	Normal	Actuation	Kv	МОР	Max. OP	Min. OPD		
(solder connections)	Position	Actuation	[m³/h]	[MPa]	AC coil	DC coil	[MPa]	
HDF 3		Pilot (piston operated)	0,3	4,5	3,8	2,8	0.007	
HDF 6			0,8	4,5	3,8	2,8	0.007	
HDF 10	NC		1,9	4,5	3,8	2,8	0.007	
HDF 15	NC		2,6	4,5	3,8	2,8	0.007	
HDF 20		, ,	4,0	4,5	3,8	2,8	0.007	
HDF 22				5,7	4,5	3,8	2,8	0.007

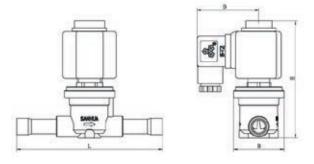
SOLENOID VALVE



DIMENSIONS

Model Valve body	Part Number ¹⁾	Solder Connection (ODF)		Kv [m³/h]	PED Category	Dimensions [mm]				
valve body	Number-/	[inch]	[inch]	[111-/11]	Group 2	L	В	D	Н	
HDF3H01	10129000302	1/4"	-	0,3	4.3	118	33	54	95	
HDF3H03	10129000502	-	6	0,3	4.3	118	33	54	95	
HDF3H02	10129000402	3/8"	-	0,3	4.3	118	33	54	95	
HDF3H05	10129000602	-	10	0,3	4.3	118	33	54	95	
HDF6H02	10129000102	3/8"	-	0,8	4.3	118	33	54	95	
HDF6H04	10129000802	-	10	0,8	4.3	118	33	54	95	
HDF6H03	10129000702	1/2"	-	0,8	4.3	127	33	54	95	
HDF6H07	10129000202	-	12	0,8	4.3	127	33	54	95	
HDF10H01	10129003402	1/2"	-	1,9	4.3	127	44	54	102	
HDF10H03	10129000902	-	12	1,9	4.3	127	44	54	102	
HDF10H02	10129001702	5/8"	16	1,9	4.3	166	44	54	102	
HDF15H01	10129003502	5/8"	16	2,6	4.3	175	48	54	105	
HDF15H02	10129001002	7/8"	22	2,6	4.3	175	48	54	105	
HDF20H01	10129001102	7/8"	22	4,0	4.3	181	57	54	114	
HDF20H02	10129001202	1 1/8"	-	4,0	4.3	214	57	54	114	
HDF20H03	10129001302	-	28	4,0	4.3	214	57	54	114	
HDF22H01	10129003602	7/8"	22	5,7	4.3	190	58	54	114	
HDF22H03	10129001502	1 1/8"	-	5,7	4.3	214	58	54	114	
HDF22H04	10129001602	-	28	5,7	4.3	214	58	54	114	
HDF22H02	10129001402	1 3/8"	35	5,7	I	281	58	54	114	

Note: 1) Extent of delivery: valve body without coil



Valve Body Solder Connection- with standard coils (DIN connector) - (MQ-A03)

SOLENOID VALVE



TECHNICAL PARAMETERS OF COIL

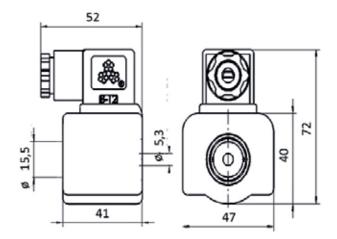
Standard coils with DIN connector (MQ-A03)

Model Coil ¹⁾	Part Number ²⁾	Rated Voltage [V]	Supply	Power [W]	Frequency [Hz]	Voltage Tolerance	Insulation Class	Protection Class (w/plug)	Wiring type
MQ-A03 024-001001	10820006102	24		8,5 (50Hz) 7,5 (60Hz)					
MQ-A03 11A-001001	10820006302	110 to 120		8,5 (50Hz) 7,5 (60Hz)	50/60	-15% to +10%	F	IP65	DIN Plug
MQ-A03 22G-001001	10820005702	220 to 240		8,5 (50Hz) 7,5 (60Hz)					

Note: Extent of delivery: coil body, fastening screw for the coil body, DIN plug for electrical connection incl. gaskets

DIMENSIONS OF THE COILS

Coils with DIN Plug (MQ-A03)



Coils with DIN Plug (MQ-A03 and MQ-D03 Series)



SANHUA

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.



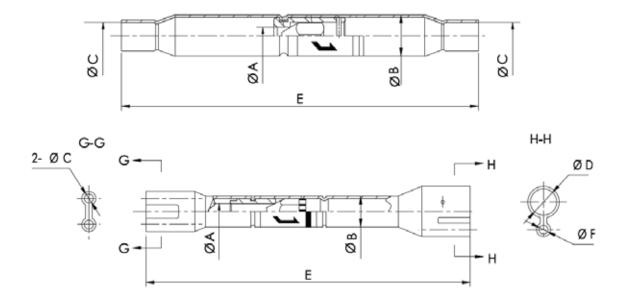
FEATURES

- 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.
- Applicable medium temperature: -30°C~+120°C
- Maximum working pressure: 4.2MPa

DIMENSIONS



CHECK VALVE



DIMENSIONS

Model		Dimensions mm								
Model	A	В	С	D/F	Е					
YCV3	3	9.52	3.18	3.18	100					
1003	3	9.32	6.35	6.35	100					
YCV5	5	12.7	9.52	9.52	110					
1005	5	12.7	12.7	12.7	110					
YCV8	8	19.05	12.7	12.7	150					
1000	0	19.03	15.88	15.88	130					
YCV11	11	22.2	15.88	15.88						
ICVII	11	22.2	19.05	19.05	160					
YCV14	14	20	19.05	19.05	100					
10014	14	28	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						

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

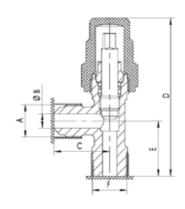
- COST EFFECTIVE: OPTIMAL DESIGN BASED ON PERFORMANCE
- GOOD APPEARANCE AND ENDURABLE: THE VALVE BODY TREATED WITH SHOT BLAST.
- WELL SEALING PERFORMANCE: WITH PARTICULAR SEALING STRUCTURE AND DESIGN

GENERAL SPECIFICATIONS

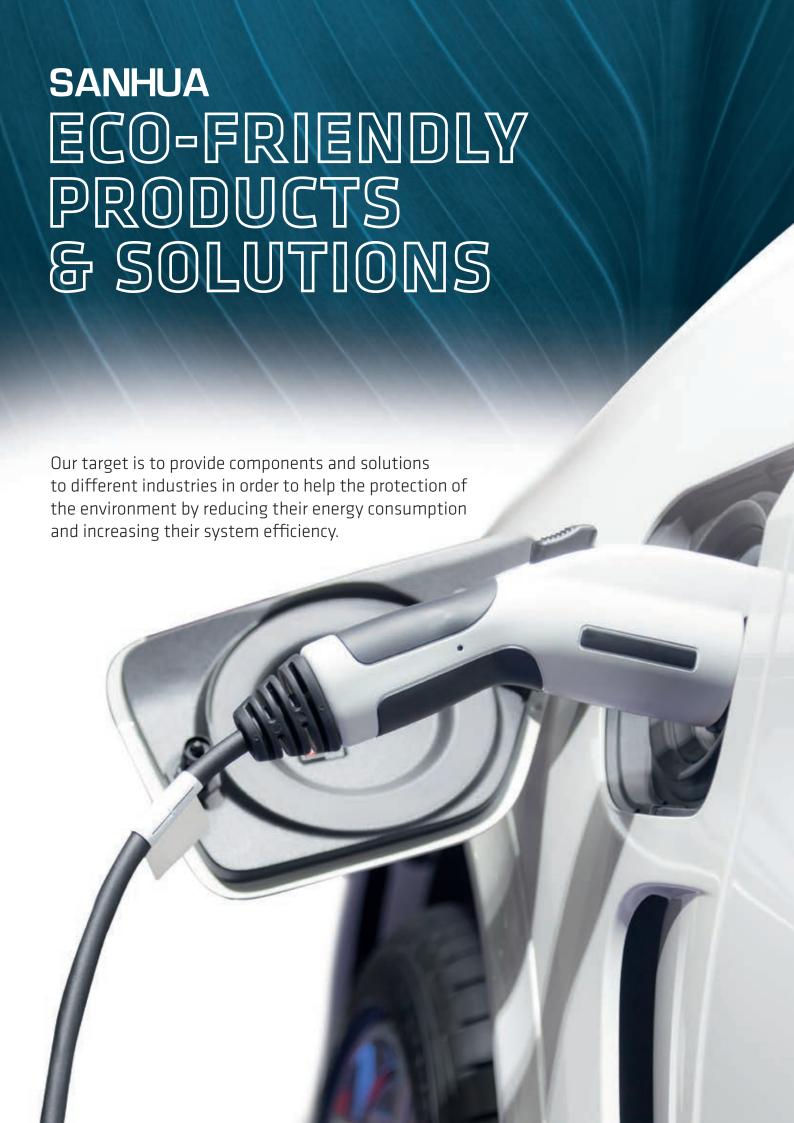
• Applicable refrigerant: R22, R124a, R407C, R410A, R404A, R507. R1234ze

- Applicable medium temperature: -40°C ~ +120°C
- Maximum working pressure: 4.83 MPa
- Certification: UL

DIMENSIONS



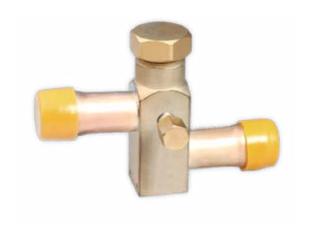
Model	A in		Fin			
Model	A III	В	С	D	E	F III
ZJF-A22	7/16-20UNF	4.8	23.5	74	23.5	NPT 1/4
ZJF-A23	7/16-20UNF	4.8	27	77	27	NPT 3/8
ZJF-A33	5/8-18UNF	7	27	77	27	NPT 3/8
ZJF-A32	5/8-18UNF	7	27	77	27	NPT 1/4
ZJF-A34	5/8-18UNF	7	32	114	37	NPT 1/2
ZJF-A44	3/4-16UNF	10	36	114	37	NPT 1/2
ZJF-A43	3/4-16UNF	10	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



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.



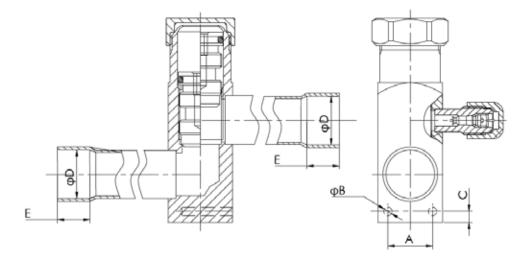
FEATURES

- 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

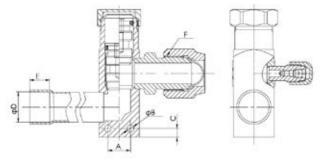


Solder Connection

BAR-STOCK SERVICE VALVE



Toma	Model	Copper		Thread Size				
Туре	Model	tube Size in	A	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	/
	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

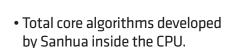
Type	Model	Copper		Thread Size				
Туре		tube Size in	A	В	С	D	E	F
	SMV-JA3	3/8	10.6±0.5	3.6±0.10	3,6	9,6	8±1.0	5/8-18UNF
	SMV-JA4	1/2	17.7±0.5	3.6±0.10	3,6	12,8	9.7±1.0	3/4-16UNF
	SMV-JA5	5/8	17.7±0.5	3.6±0.10	3,6	15,95	14.2±1.0	7/8-14UNF
	SMV-JA6	3/4	17.7±0.5	3.6±0.10	3,6	19,13	15.7±1.0	1 1/16-14UNS
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
Solder / Flare Nut	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).



- 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...



Controller for EEV



Inverter Controller for HP Water Heater



Inverter Controller for Large System



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.

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)

Scan QR for more info









DTG-M02 SERIES

1.5 IN³ FILTER DRIER

DTG-M02 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

1.5 IN³ FILTER DRIER



Model Designation Legend

	Product Code	Filter Drie	er Series				
1	DTG	Indicates unidirec	tional filter drier				
	Filter Core	Structure a	nd Material				
2	М	Solid core, 100%3Å desiccant, stainless steel housing					
3	Filter core volume	[inch³]	[cm³]				
3	02	1.5	25				
	Connection Size	Pos. 5 shows "0": Solder [inch]					
4	02	1/4					
7	03	3/8					
	04	1/2					
	Connection Size	Pos. 5 shows "1	": Solder [mm]				
4	06	6					
-	10	10					
	12	17	2				
	Pipe Connection	Туј	ре				
5	0	Solder with inc	h connections				
	1 *	Solder with me	tric connections				
6	Version Number	Descri	ption				
	901	Series r	umber				

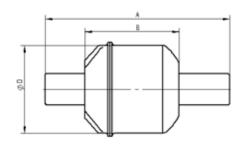
MODEL DESIGNATION EXAMPLE

		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

1.5 IN³ FILTER DRIER



GENERAL CHARACTERISTICS



Filter			Sol	der					
	Model	Part number (Industrial pack) ¹⁾	connection		ØD	В	A	Weight	PED Category
			[inch]	[mm]	[mm]	[mm]	[mm]	[9]	
DTGM022s	DTG-M02020-901	10230041401	1/4		42	45	77	95	Art. 4.3
DTGM023s	DTG-M02030-901	10230039601	3/8		42	45	77	95	Art. 4.3
DTGM024s	DTG-M02040-901	10230041501	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

	Capacity¹) [kW]						Moisture Absorption (gram H ₂ O)						
		R404A				D424-		R404A		R407C ²⁾		D22	
Model	R134a	K4U4A		R410A	R134a -		R507A		R410A		- R22		
		R507A	R290	R40/C	K410A	75°F	125°F	75°F	125°F	75°F	125°F	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
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

1.5 IN3 FILTER DRIER



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



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.





SELECT THE RIGHT PRODUCT



DDF/KMV 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.

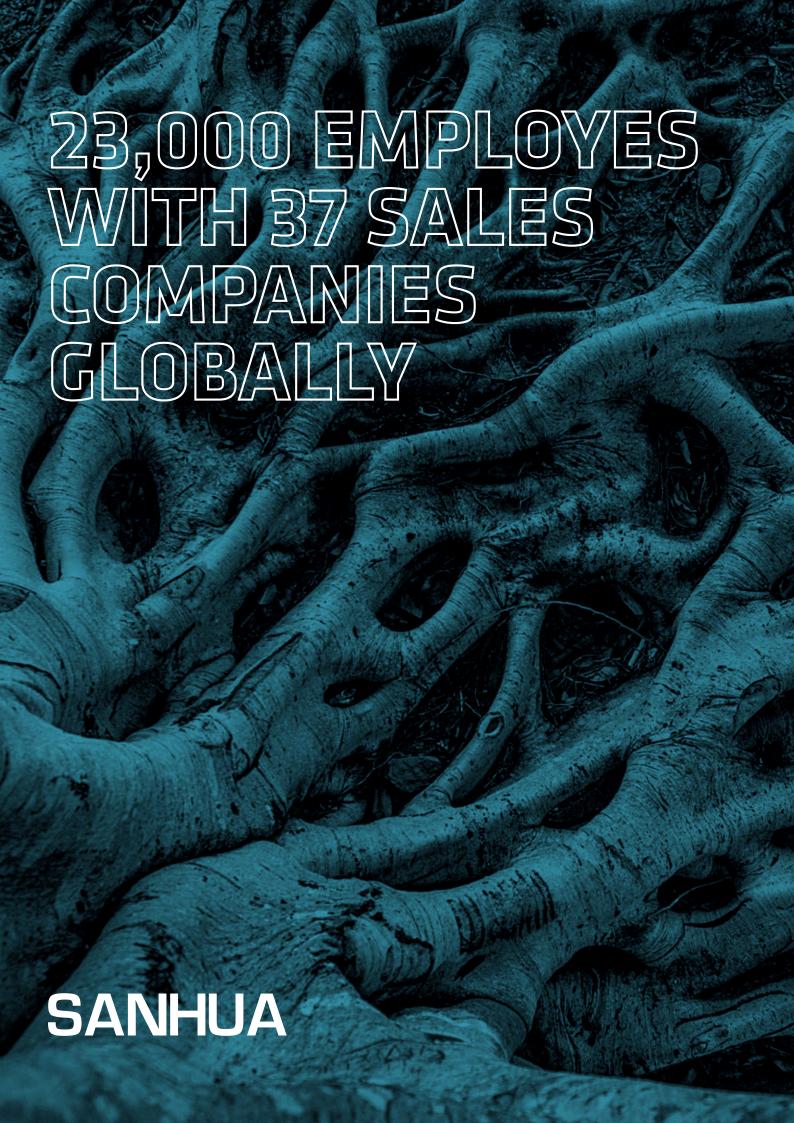
- Applicable refrigerant: R600a and R134a
- Applicable medium temperature: -20°C \sim +65°C
- Applicable ambient temperature: -20°C ~ +60°C
- Relative humidity: below 95%RH
- Noise: Distance 15cm, starting noise ≤ 50dB (A), rotary noise ≤ 40dB (A)

TECHNICAL PARAMETERS

	Technical 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	Rated Voltage V	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.



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

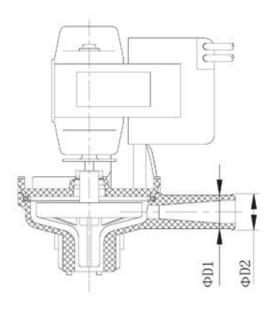
• Applicable fluid temperature: 0°C ~ +40°C (but no fluid frozen)

• Applicable ambient temperature: -10°C ~ 45°C

• Relative humidity: below 95% RH

• Certification: UL, CQC and VDE

DIMENSIONS



Model		Dimensi	ons 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.

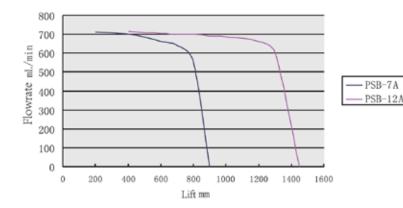
2) In addition to the water outlet direction shown in the figure, there are another three optional outlet directions every 90°.

DRAIN PUMP



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
P3D-7A	700	≥320	AC115V	<108/96	<10.8/96
PSB-12A	1200	≥400	AC220V~240V	120/108	12/10.8

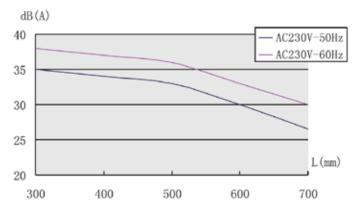


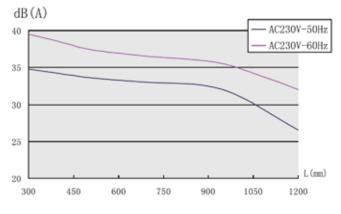
Lift and Flowrate Graph

• 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.



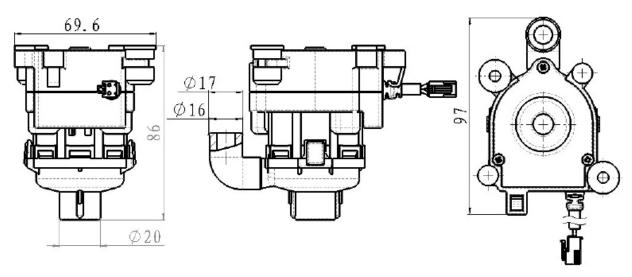
FEATURES

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

DIMENSIONS

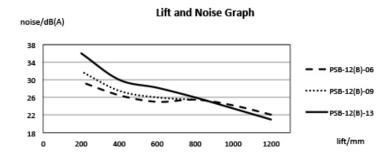


DRAIN PUMP



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



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)

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

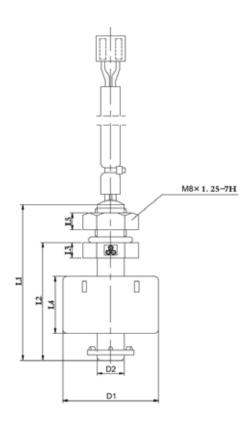
TECHNICAL PARAMETERS

Model	Max. Contact Power W	Max. Switching Voltage V	Max. Switching Current A	Action Life 10 thousand times	Contact Resistance between Reed Contacts $m\Omega$	
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	

FLOAT LEVEL SWITCH



DIMENSIONS



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	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 N.m;

PSFRIFS

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

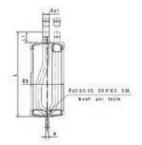
- INLET AND OUTLET ARE MADE OF COPPER TUBES
- AIR GUIDING PART DIRECT THE REFRIGERANT TOWARD THE WALL WHICH FROM A SLIPSTREAM TO MAKE THE REFRIGERANT EXPAND QUICKLY AND SLOW THE FLOW TO LET THE LIQUID DROP DOWN. THIS EFECTIVELY SEPARATES THE LIQUID AND GAS.
- THE U TUBE DESIGN GUARANTEE A MAX FLOW OF 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

ACCUMMULATOR

TECHNICAL PARAMETERS





Model	D mm	L mm	d1 mm	L1 mm	d2 mm	N meshes/in	Screw Size M	d2 mm	Volume 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-P39101-901 ACM-P40101-901		432,1	19,17			30	3/8-16UNC-2A		
	101,6 127	250,4		34,3 40,4	1,4	30		1,4 1,4	2,96
ACM P22127-901	127	250,4	22,35		1,4	60	3/8-16UNC-2A		2,49
ACM P22127-901		· ·	22,35	40,4	1,0		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	1,4	30	3/8-16UNC-2A	1,4	4,72
ACM-P38127-901	127	438,2	22,35	40,4	1,0	60	3/8-16UNC-2A	1,0	4,72
ACM-P39127-901	127	432,1	19,17	34,3	1,4	30	3/8-16UNC-2A	1,4	4,72
ACM-P40127-901	127	432,1	19,17	34,3	1,0	60	3/8-16UNC-2A	1,0	4,72
ACM-P21153-901	152,4	366,3	28,63	48,3	2,03	30	1/2-13UNC-2A	2,03	5
ACM-P22153-901	152,4	370,3	35,15	52,3	2,03	30	1/2-13UNC-2A	2,03	5
ACM-P23153-901	152,4	408,3	28,63	48,3	2,03	30	1/2-13UNC-2A	2,03	5,7
ACM-P24153-901	152,4	412,3	35,15	52,3	2,03	30	1/2-13UNC-2A	2,03	5,7
ACM-P25153-901	152,4	475,5	28,63	48,3	2,03	30	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

S 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

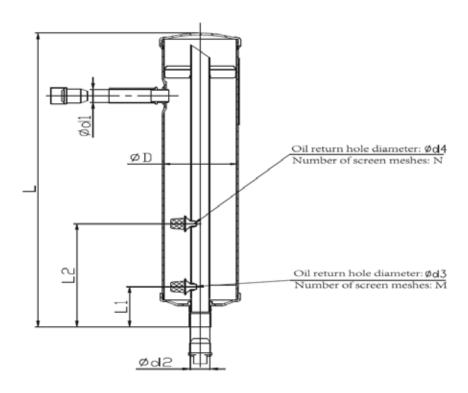
- Applicable refrigerant: CFC, HCFC, HFC and HFO
- Applicable medium temperature: -30°C~+120°C (-22°F~+240°F)
- Applicable ambient temperature: -35°C~+55°C (-22°F~+131°F)
- Maximum working pressure: 2.5MPa (362.5Psig)
- Certification: UL, CSA and PED

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

ACCUMMULATOR



TECHNICAL PARAMETERS



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

LRA SERIES

LIQUID RECEIVER

Liquid receiver is usually installed in liquid line of refrigeration or AC systems to store excessive refrigerant when the load of the system changes



FEATURES

- THREE DIFFERENT SERIES AND SIXTEEN MODELS OF VERTICAL MODELS ARE AVAILABLE.
- THE INLET TUBE IS SOLDER CONNECTION AND 3 TYPES OF OUTLET CONNECTIONS ARE AVAILABLE: A SERIES WITH SOLDER CONNECTION, B SERIES WITH FLARE CONNECTION, AND C SERIES WITH ANGLE VALVE STRUCTURE.
- THE FIXING OF A AND B SERIES IS CENTRAL THREADED BOLT BELOW, WHILE C SERIES IS FASTENING BRACKET BELOW.
- INTERNAL FLOW-OUT IS REALIZED BY SUCTION TUBE FROM THE BOTTOM OF THE RECEIVER.
- POWDER COATED SURFACE CAN SURVIVE 500 HOURS OF SALT SPRAY TEST.

GENERAL SPECIFICATIONS

• Applicable refrigerant: HCFC, HFC and HFO

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

• Applicable ambient temperature: -35 °C to +55 °C

• Maximum allowable pressure: 35bar

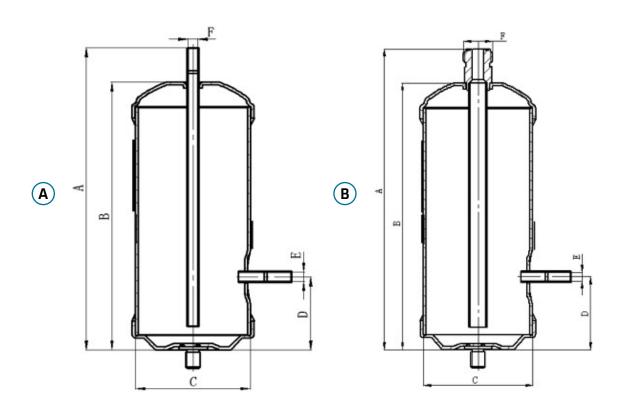
• Certification: UL and PED declaration*

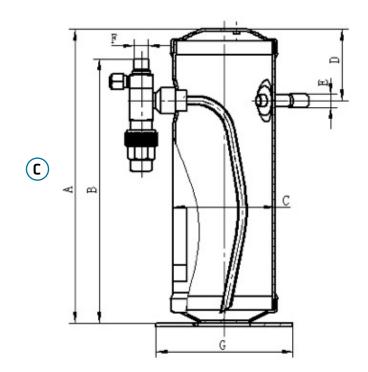
- *: PED declaration is available for the models in Art.4.3 or category grading I for FG I & FG II (Tab.2).
 - For the other higher categorised models, the corresponding PED certifications are still pending and can be only provided on request.

LIQUID RECEIVER



TECHNICAL PARAMETERS





LIQUID RECEIVER



			Internal			Din	nensio	ns [mm]		
Series	Model	U11 Code	Volume (L)	Α	В	С	D	E (Inlet)	F (Outlet)	G
Α	LRA-A01063-901	10210015701	0.4	171	143	Ф63.5	51	Φ6.5±0.1	Ø6.5±0.1	/
"	LRA-A02076-901	10210015801	0.75	210	186	Ф76	51	Φ6.5±0.1	Ø6.5±0.1	/
	LRA-B01076-901	10210015601	0.6	171±4	147±3	Ф76	51	Φ6.5±0.1	3/4-16UNF-2A	/
	LRA-B02076-901	10210019601	0.75	210±4	186±3	Ф76	51	Φ6.5±0.1	3/4-16UNF-2A	/
	LRA-B03076-901	10210020601	0.9	252±4	228±3	Ф76	51	Φ 6.5±0.1	3/4-16UNF-2A	/
В	LRA-B04076-901	10210020701	1.2	323±4	299±3	Ф76	51	Φ6.5±0.1	3/4-16UNF-2A	/
Б	LRA-B05127-901 ¹	10210015501	2.1	221±5	197±4	Ф127	63.5	Φ6.5±0.1	3/4-16UNF-2A	/
	LRA-B06127-901 ¹	10210015301	3.5	329±5	305±4	Ф127	63.5	Φ9.7±0.1	3/4-16UNF-2A	/
	LRA-B07153-901 ¹	10210019701	5	328.5±5	304.8±4	Ф152.4	63.5	Φ9.7±0.1	1-14UNS-2A	/
	LRA-B08153-901 ¹²	10210016001	6	403.5±5	379.5±4	Ф152.4	63.5	Φ9.7±0.1	1-14UNS-2A	/
	LRA-C01089-901 ¹	10210016101	1.5	254	224	Ф89	63.5	Φ9.7±0.1	Ф9.7±0.1	120
	LRA-C02127-901 ¹	10210016301	2.5	257	240	Ф127	63.5	Φ9.7±0.1	Ф9.7±0.1	165.1
С	LRA-C03153-901 ¹	10210018201	5.2	307.8	270.8	Ф152.4	63.5	Φ9.7±0.1	Ф9.7±0.1	165.1
	LRA-C04153-901 ¹²	10210015401	6.8	409.4	372	Ф152.4	63.5	Φ9.7±0.1	Ф9.7±0.1	165.1
	LRA-C05153-901 ¹ ²	10210016201	7.7	460	423.2	Ф152.4	63.5	Φ12.85±0.1	Φ12.85±0.1	165.1
	LRA-C06153-901 ¹²	10210018101	9.9	587.2	550.2	Ф152.4	63.5	Φ12.85±0.1	Φ12.85±0.1	165.1

Tab.1: Models and dimensions of the liquid receiver LRA-A/B/C series

Note: 1: the model is on request regarding classification as category II or III for refrigerant group I with hazardous substance or mixture according to PED (Tab.2).

²: the model is on request regarding classification as category II for refrigerant group II without hazardous substance or mixture according to PED (Tab.2).

LIQUID RECEIVER



	Net Volume PS			PED Ca	itegory
Product model	[1]	[bar]	PS*V	FG II	FG I
LRA-A01063-901	0,4	35	14	Art.4.3	Art.4.3
LRA-A02076-901	0,75	35	26,25	Art.4.3	Art.4.3
LRA-B01076-901	0,6	35	21	Art.4.3	Art.4.3
LRA-B02076-901	0,75	35	26,25	Art.4.3	Art.4.3
LRA-B03076-901	0,9	35	31,5	Art.4.3	Art.4.3
LRA-B04076-901	1,2	35	42	Art.4.3	1
LRA-B05127-901	2,1	35	73,5	I	II
LRA-B06127-901	3,5	35	122,5	I	II
LRA-B07153-901	5	35	175	I	II
LRA-B08153-901	6	35	210	II	III
LRA-C01089-901	1,5	35	52,5	I	II
LRA-C02127-901	2,5	35	87,5	I	II
LRA-C03153-901	5,2	35	182	I	II
LRA-C04153-901	6,8	35	238	II	III
LRA-C05153-901	7,7	35	269,5	II	III
LRA-C06153-901	9,9	35	346,5	II	III

Tab.2: Category grading of the liquid receiver LRA-A/B/C series

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

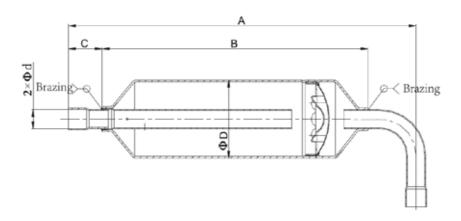
- CORROSION RESISTANCE: FINISHED WITH POWDER PAINTING SURVIVING 500 HOURS OF SALT SPRAY TEST
- LONG SERVICE LIFE: STEEL CASING, MORE ENDURABLE

GENERAL SPECIFICATIONS

- Applicable refrigerant: CFC,HCFC, HFC etc.
- Applicable medium temperature: -30°C~+120°C (-22°F~+240°F)
- Applicable ambient temperature: -30°C~ +65°C (-22°F~+131°F)
- Maximum working pressure: 4.8MPa
- Certification: UL and CSA

TECHNICAL PARAMETERS

Steel Receiver



SUCTION LINE ACCUMULATOR (COMPRESSOR)



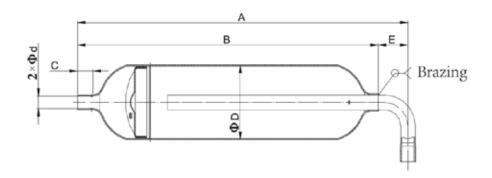
TECHNICAL PARAMETERS

Steel Receiver

			Dimension	s		
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



			Dimen	sions			
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	Solder 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.



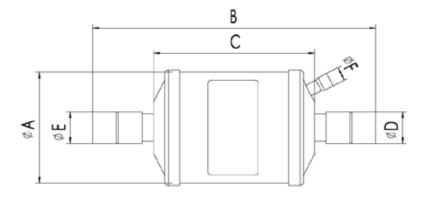
FEATURES

- 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.



COMPENSATOR



TECHNICAL PARAMETERS

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	Coldon 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/XYO 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.



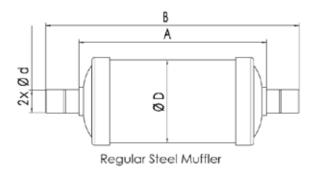
FEATURES

- 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)"
- Applicable ambient temperature: -30°C~ +55°C (-22°F~+131°F)"
- Maximum working pressure: 4.8MPa
- Certification: UL, CSA and PED declaration

TECHNICAL PARAMETERS

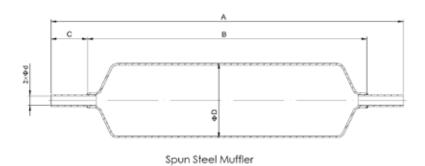


Model	D mm	A mm	B mm	d in	d in	Connecction Type
TXY-A12040-002	65	76.2	154.4	1/2	1/2	
TXY-A29040-001	76	115.6	163.8	1/2	1/2	Calday Cannactions
TXY-A49040-001	76	190.5	238.7	1/2	1/2	Solder Connections
TXY-A30040-003	76	123.9	231.9	1/2	1/2	

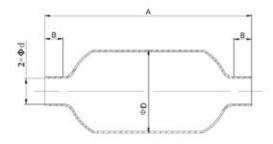
Note: 1) Please contact Sanhua representative for details regarding refrigerants.

MUFFLER





		Di	imensions			
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	

YSERIES

PRESSURE VESSEL

FEATURES

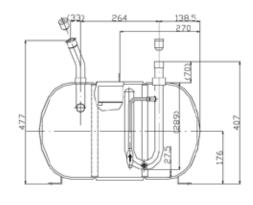
- THE DESIGN, MANUFACTURING AND INSPECTION IS BASED ON NB/T 47012 AND TSG R0004 STANDARD
- THE WELDING IS GOVERNED BY JB/T 4709
- THE INSPECTION OF WELDING LINE IS GOVERNED BY GRADE II IN JB/T 4730.2 WITH X-RAY.
- THE PRESSURE TEST IS FOLLOWING NB/T 47012

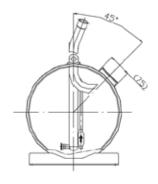


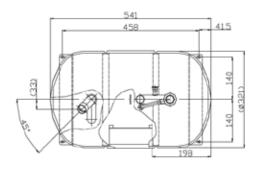
GENERAL SPECIFICATIONS

- 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

TECHNICAL PARAMETERS









SANHUA

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

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

TECHNICAL PARAMETERS

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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