

Refrigeration and Air Conditioning Parts

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Conditioning Parts

Filter Drier, Oil Management



Valve Series



Solenoid Valve, Expansion Valve



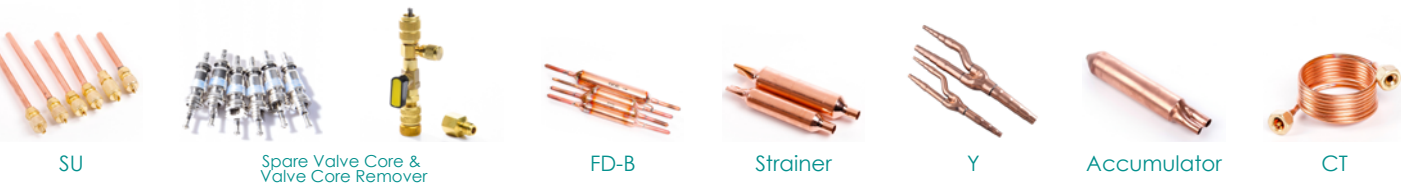
Sensor, Control and Connector



Copper Fitting, Brass Fitting



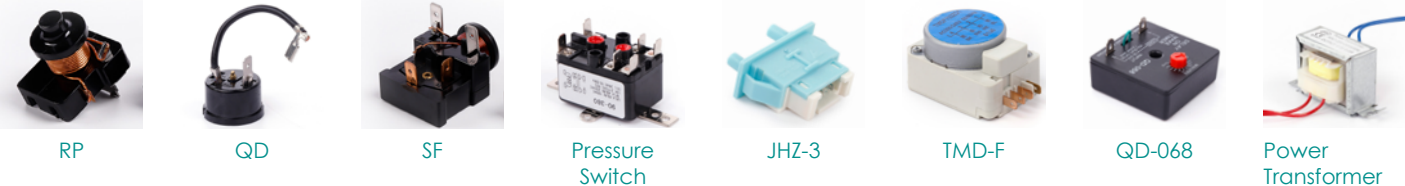
Access Valve, Copper Filter Drier, Strainer, Accumulator, Branch Pipe



Capacitor, Contactor



Relay, Overload Protector, Door Switch, Defrost Timer, Power Transformer



Thermostat



Thermostat Guard, Junction Box



Refrigeration
Chemicals

Copper Tube

ACR Compressor

Heat Exchanger,
Condensing Unit,
Condenser, Evaporator

Refrigeration and Air
Conditioning Parts

ACR Service and
Maintenance Products

Fan and Motor

Air Curtain,
Air Conditioner,
Cold Storage



Filter Drier



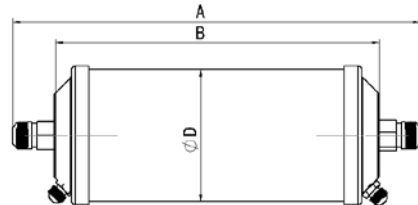
CFE Series
Liquid Line Burnout Filter Drier

CFE series liquid line burn-out filter driers are used to clean up refrigeration and AC systems after a compressor motor burn-out. The solid core is composed of 48% alumina, 47% molecular and 5% carbon, which effectively absorbs acids & moisture and filters the residue and clean the system. Thus it can protect the new compressor against premature failure. Access valves on both the inlet and outlet sides make it easy to measure pressure accurately.

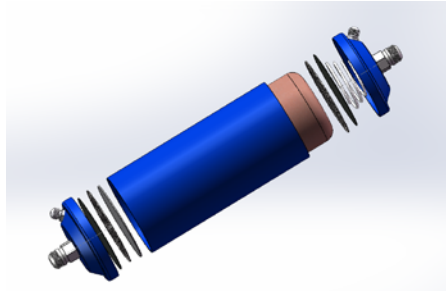
Feature

- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- Max. working pressure up to 4.7Mpa/680psig.
- Firm powder paint exterior coating for high-resistant from corrosion.
- Available with solder (pure copper) and flare connections.
- CE certified.

Dimensions



Construction



Specification

Model	Connection	Dimension			Flow Capacity (kW)		
		A mm	B mm	D mm	R-22	R-410C	R-407C
CFE-052	1/4 SAE Flare	121	76	63.5	5	3.3	3.3
CFE-052S	1/4 ODF Solder	112	76	63.5	5	3.3	3.3
CFE-053	3/8 SAE Flare	131	76	63.5	5.3	3.5	3.5
CFE-053S	3/8 ODF Solder	114	76	63.5	5.3	3.5	3.5
CFE-082	1/4 SAE Flare	141	96	63.5	6	3.5	4.2
CFE-082S	1/4 ODF Solder	132	96	63.5	6	3.5	4.2
CFE-083	3/8 SAE Flare	151	96	63.5	7.6	4.2	4.6
CFE-083S	3/8 ODF Solder	134	96	63.5	7.6	4.2	4.6
CFE-084	1/2 SAE Flare	156	96	63.5	9.8	5.5	8
CFE-084S	1/2 ODF Solder	136	96	63.5	9.8	5.5	8
CFE-085	5/8 SAE Flare	166	96	63.5	14.5	6.8	9.5
CFE-085S	5/8 ODF Solder	144	96	63.5	15	7.3	10
CFE-162	1/4 SAE Flare	163	118	76	10.2	5	7.5
CFE-162S	1/4 ODF Solder	154	118	76	10.2	5	7.5
CFE-163	3/8 SAE Flare	173	118	76	13	5	8
CFE-163S	3/8 ODF Solder	156	118	76	13	5	8
CFE-164	1/2 SAE Flare	178	118	76	15	6	8.5
CFE-164S	1/2 ODF Solder	158	118	76	15	6	8.5
CFE-165	5/8 SAE Flare	188	118	76	19.8	9.5	13
CFE-165S	5/8 ODF Solder	166	118	76	19.8	9.5	13
CFE-166	3/4 SAE Flare	198	118	76	21.4	10.3	10.8
CFE-166S	3/4 ODF Solder	170	118	76	22	12	15
CFE-167S	7/8 ODF Solder	175	118	76	24	13	17
CFE-303	3/8 SAE Flare	246	191	76	14.5	7	9
CFE-303S	3/8 ODF Solder	229	191	76	14.5	7	9
CFE-304	1/2 SAE Flare	251	191	76	16.8	9.8	14.2
CFE-304S	1/2 ODF Solder	231	191	76	17.4	10.6	14.6
CFE-305	5/8 SAE Flare	261	191	76	18	11.8	15
CFE-305S	5/8 ODF Solder	239	191	76	18.6	12.4	15.2
CFE-306	3/4 SAE Flare	271	191	76	22	14	19
CFE-306S	3/4 ODF Solder	243	191	76	22.6	14.6	19.6
CFE-307S	7/8 ODF Solder	248	191	76	26	16	22
CFE-309S	1-1/8 ODF Solder	249	191	76	30.8	20.2	26.5
CFE-413	3/8 SAE Flare	249	194	89	19	14	17
CFE-414	1/2 SAE Flare	254	194	89	24.6	14.5	22.4
CFE-414S	1/2 ODF Solder	234	194	89	25.2	14.8	23.2
CFE-415	5/8 SAE Flare	264	194	89	26	15.5	24
CFE-415S	5/8 ODF Solder	242	194	89	26.5	16	24.5
CFE-416	3/4 SAE Flare	274	194	89	29	17	24.8
CFE-416S	3/4 ODF Solder	246	194	89	29.6	17.6	25.1
CFE-417S	7/8 ODF Solder	251	194	89	30	18.4	25.5
CFE-419S	1-1/8 ODF Solder	252	194	89	32	21.2	27

CEK Series
Liquid Line Filter Drier

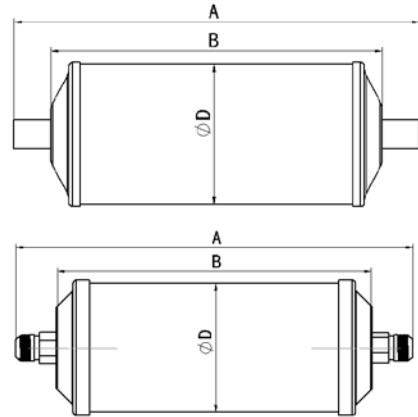
The CEK series liquid line filter driers have a solid core designed to meet the requirements of high-pressure refrigerants.

40 microns filter provides high retention with minimal pressure drop.

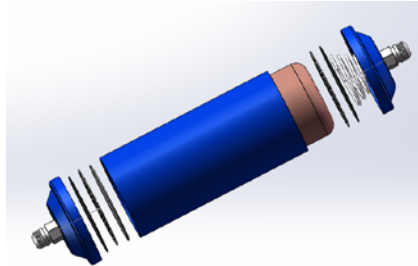
Feature

- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- Max. working pressure up to 4.7Mpa/680psig.
- Firm powder paint exterior coating for high-resistant from corrosion.
- Available with solder (pure copper) and flare connections.
- Regular solid core composed of 80% molecular sieves, 20% activated alumina for moisture and acid removal. (100% molecular sieve high drying capacity core available on request)
- CE certified.

Dimensions



Construction



Specification

Model	Connection	Dimension			Flow Capacity (KW)			
		A mm	B mm	D mm	R-134A	R-22 R-410A	R-404A R-507	R-502
CEK-032	1/4 SAE Flare	111	66	42	6.7	7.4	5.0	4.6
CEK-032S	1/4 ODF Solder	99	66	42	8.1	8.8	6.0	5.6
CEK-033	3/8 SAE Flare	121	66	42	9.5	10.2	7.0	6.7
CEK-033S	3/8 ODF Solder	104	66	42	10.5	11.6	7.7	7.4
CEK-052	1/4 SAE Flare	121	76	63.5	7.1	7.7	5.3	5.3
CEK-052S	1/4 ODF Solder	112	76	63.5	10.2	10.9	7.8	7.0
CEK-053	3/8 SAE Flare	131	76	63.5	12.9	14.1	9.5	9.1
CEK-053S	3/8 ODF Solder	114	76	63.5	15.8	17.2	11.6	11.2
CEK-082	1/4 SAE Flare	141	96	63.5	7.2	7.8	6.0	5.6
CEK-082S	1/4 ODF Solder	132	96	63.5	10.9	11.9	7.7	7.3
CEK-083	3/8 SAE Flare	151	96	63.5	14.7	16.2	10.5	10.5
CEK-083S	3/8 ODF Solder	134	96	63.5	15.1	16.8	10.8	10.8
CEK-084	1/2 SAE Flare	156	96	63.5	23.5	25.7	17.2	16.7
CEK-084S	1/2 ODF Solder	136	96	63.5	24.6	26.8	17.9	17.1
CEK-085	5/8 SAE Flare	166	96	63.5	34.6	36.8	24.2	23.4
CEK-085S	5/8 ODF Solder	144	96	63.5	38.5	40.4	25.7	24.8
CEK-162	1/4 SAE Flare	163	118	76	7.4	8.1	6.2	5.8
CEK-162S	1/4 ODF Solder	154	118	76	13.3	14.7	10.8	10.5
CEK-163	3/8 SAE Flare	173	118	76	15.4	16.8	11.4	10.9
CEK-163S	3/8 ODF Solder	156	118	76	17.6	18.7	12.8	12.4
CEK-164	1/2 SAE Flare	178	118	76	29.8	31.4	21.0	20.4
CEK-164S	1/2 ODF Solder	158	118	76	31.8	33.2	21.8	21.6
CEK-165	5/8 SAE Flare	188	118	76	41.5	44.8	30.3	29.2
CEK-165S	5/8 ODF Solder	166	118	76	46.3	50.4	33.4	32.4
CEK-166	3/4 SAE Flare	198	118	76	51.6	52.6	36.7	35.4
CEK-166S	3/4 ODF Solder	170	118	76	53.8	55.4	38.4	37.6
CEK-167S	7/8 ODF Solder	175	118	76	56.2	61.2	41.6	39.8
CEK-303	3/8 SAE Flare	246	191	76	16.5	17.8	12.1	11.8
CEK-303S	3/8 ODF Solder	229	191	76	26.8	29.2	17.6	16.8
CEK-304	1/2 SAE Flare	251	191	76	30.2	32.6	21.8	21.4
CEK-304S	1/2 ODF Solder	231	191	76	31.6	33.4	22.5	21.8
CEK-305	5/8 SAE Flare	261	191	76	48.6	52.8	35.2	34.2
CEK-305S	5/8 ODF Solder	239	191	76	51.2	55.2	37.1	36.2
CEK-306	3/4 SAE Flare	271	191	76	52.8	58.4	39.2	38.3
CEK-306S	3/4 ODF Solder	243	191	76	56.4	60.2	40.5	39.1
CEK-307S	7/8 ODF Solder	248	191	76	62.2	66.5	44.6	43.4
CEK-309S	1-1/8 ODF Solder	249	191	76	87.8	94.8	63.4	61.8
CEK-413	3/8 SAE Flare	249	194	89	16.8	18.2	12.7	12.3
CEK-414	1/2 SAE Flare	254	194	89	34.5	37.2	25.1	24.4
CEK-414S	1/2 ODF Solder	234	194	89	37.8	40.8	27.6	26.2
CEK-415	5/8 SAE Flare	264	194	89	55.2	59.2	39.8	38.6
CEK-415S	5/8 ODF Solder	242	194	89	59.2	63.0	42.3	40.8
CEK-406	3/4 SAE Flare	274	194	89	62.8	68.6	45.6	43.1
CEK-416S	3/4 ODF Solder	246	194	89	66.8	72.4	48.2	47.4
CEK-417S	7/8 ODF Solder	251	194	89	71.6	77.5	51.8	50.4
CEK-419S	1-1/8 ODF Solder	252	194	89	88.8	96.0	64.4	62.4



CF Series
Suction Line Filter Drier

The CF series suction line filter driers are used to protect the compressor from dirt and all solid contaminants. Dual access valves on both the inlet and outlet sides for easy pressure readings.

Feature

- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- Max. working pressure up to 3.5Mpa
- Filtration: 40 microns.
- Firm powder paint exterior coating for high-resistant from corrosion.
- Available with solder (pure copper) and flare connections.
- CE certified.

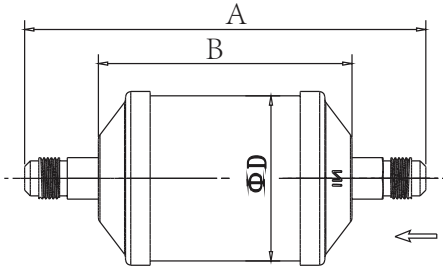
CG Series Oil Filter

The CG series oil filter can filtrate 99% of 3 micron grain but still have enough flow rate to maintain the low pressure drop.

Feature

- Compatible with all oils.
- Max. working pressure up to 4.7Mpa/680psig.
- Optional access valve for pressure drop monitoring.
- Firm powder paint exterior coating for high-resistant from corrosion.
- Available with solder (pure copper) and flare connections.
- CE Certified.

Dimensions



Specification

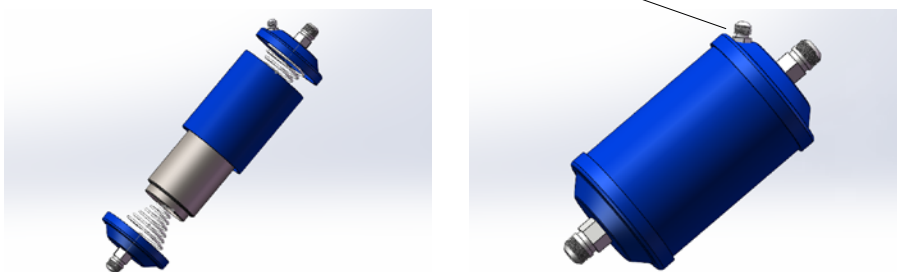
Model	Connection	Filter Area	Dimension (mm)	
	Inch	in ²	Body Length	Body Diameter
CF-283T	3/8	83	150	89
CF-284T	1/2	83	152	89
CF-285T	5/8	83	160	89
CF-286T	3/4	141	204	89
CF-287T	7/8	141	209	89
CF-289T	1-1/8	141	210	89
CF-2811T	1-3/8	219	269	89
CF-2813T	1-5/8	219	269	89



Specification

Model	Connection	Dimension (mm)			Flow Capacity (KW)			
	Inch	A	B	D	R-134a	R-22	R-22	R-502
CG-082	1/4 SAE Flare	141	96	63.5	21.8	23.7	15.7	15.4
CG-082S	1/4 ODF Solder	133	96	63.5	27.4	29.8	19.8	19.3
CG-083	3/8 SAE Flare	151	96	63.5	21.8	23.7	15.7	15.4
CG-083S	3/8 ODF Solder	134	96	63.5	27.4	29.8	19.8	19.3
CG-084	1/2 SAE Flare	156	96	63.5	21.8	23.7	15.7	15.4
CG-084S	1/2 ODF Solder	136	96	63.5	27.4	29.8	19.8	19.3
CG-085	5/8 SAE Flare	166	96	63.5	21.8	23.7	15.7	15.4
CG-085S	5/8 ODF Solder	144	96	63.5	27.4	29.8	19.8	19.3

Construction



CK Series
Bi-Flow Filter Drier

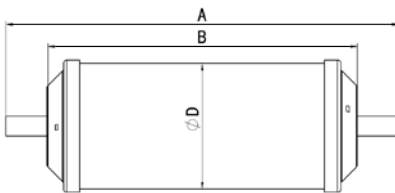
The bi-flow filter driers are for use in liquid lines on heat pump or reverse cycle. The device can save two external check valves and two normal filter driers reducing complex lines and cost.

ComforPlanet CK series bi-flow filter driers have built-in check valves which ensure refrigerant liquid always flows from the outer side of the filter core towards the center. Therefore all contaminants are retained irrespective of flow direction.

Feature

- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- Max. working pressure up to 4.7Mpa/680psig.
- Firm powder paint exterior coating for high-resistant from corrosion.
- Available with solder (pure copper) and flare connections.
- Regular solid core composed of 80% molecular sieves, 20% activated alumina for moisture and acid removal. (100% molecular sieve high drying capacity core on request).
- CE certified.

Dimensions



Construction



Specification

Model	Connection	Dimension			Flow Capacity (kW)		
	Inch	A mm	B mm	D mm	R-22	R-410A	R-407C
CK-082	1/4 SAE Flare	145	100	63.5	7	7	6.9
CK-082S	1/4 ODF Solder	137	100	63.5	7.8	7.8	7.4
CK-083	3/8 SAE Flare	155	100	63.5	15.8	15.8	15.4
CK-083S	3/8 ODF Solder	138	100	63.5	17.8	17.8	17.4
CK-084	1/2 SAE Flare	160	100	63.5	22.5	22.5	22.1
CK-084S	1/2 ODF Solder	140	100	63.5	23.6	23.6	23.2
CK-085	5/8 SAE Flare	170	100	63.5	27.4	27.4	26.6
CK-085S	5/8 ODF Solder	148	100	63.5	28.5	28.5	27.8
CK-162	1/4 SAE Flare	155	110	76	8.1	8.8	8.4
CK-162S	1/4 ODF Solder	147	110	76	10.9	12	11.6
CK-163	3/8 SAE Flare	165	110	76	16.2	16.2	15.8
CK-163S	3/8 ODF Solder	148	110	76	18.3	18.3	17.9
CK-164	1/2 SAE Flare	170	110	76	27.1	27.1	26.7
CK-164S	1/2 ODF Solder	150	110	76	28.5	28.5	27.8
CK-165	5/8 SAE Flare	180	110	76	29.2	29.2	28.5
CK-165S	5/8 ODF Solder	158	110	76	30.6	30.6	29.9
CK-166	3/4 SAE Flare	190	110	76	34.5	34.5	33.6
CK-166S	3/4 ODF Solder	162	110	76	36.6	36.6	35.9
CK-167S	7/8 ODF Solder	167	110	76	40.2	40.2	39.6
CK-303	3/8 SAE Flare	236	181	76	18.3	18.3	17.9
CK-303S	3/8 ODF Solder	219	181	76	20.4	20.4	20
CK-304	1/2 SAE Flare	241	181	76	26.8	26.8	26.4
CK-304S	1/2 ODF Solder	221	181	76	34.1	34.1	33.4
CK-305	5/8 SAE Flare	251	181	76	36.3	36.3	35.5
CK-305S	5/8 ODF Solder	229	181	76	50	50	48.9
CK-306	3/4 SAE Flare	261	181	76	43	43	40.2
CK-306S	3/4 ODF Solder	233	181	76	56.3	56.3	55.3
CK-307S	7/8 ODF Solder	238	181	76	58.8	58.8	57.7
CK-309S	1-1/8 ODF Solder	239	181	76	68.9	68.9	67.8



CA Series
Replaceable Core Shell

The CA series replaceable core shell is for use in both liquid and suction line of large commercial air conditioning and refrigeration systems.

The shell allows replacement of 48 series cores for the removal of moisture, acid and foreign contaminant.

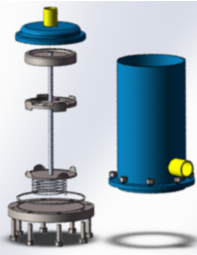
Specification

Model	Connection (inch)		Nominal Flow Capacity (kW) Pressure Drop 0.014Mpa					Dimensions (mm)				Q'TY of Core
	Copper	Iron	R22	R123A	R22	R404A/R507	R502	A	B	H	L	
CA-485	5/8	/	52.8	66.9	73.8	49.0	45.8	26	22	149	227	1
CA-487	7/8	/	97.6	123.2	132.8	88.6	84.8	27	25	150	228	1
CA-489	1-1/8	/	140.2	168.6	187.0	124.2	120.0	27	25	150	228	1
CA-4811	1-3/8	/	160.2	196.8	214.6	140.2	138.2	32	28	155	232	1
CA-4813	1-5/8	/	224.2	274.6	298.0	198.2	194.6	32	28	155	232	1
CA-4817	2-1/8	/	253.3	310.2	332.2	235.2	211.2	39	32	161	239	1
CA-4821G	/	2-5/8	274.6	335.4	348.6	260.5	232.3	54	50	152	245	1
CA-4824G	/	3	302.8	362.6	373.2	288.6	260.5	56	50	145	244	1
CA-4825G	/	3-1/8	345.2	386.3	394.4	302.2	278.0	56	50	144	243	1
CA-967	7/8	/	109.4	130.4	144.2	96.8	91.2	27	25	295	372	2
CA-969	1-1/8	/	165.4	205.6	221.8	148.6	138.6	27	25	295	372	2
CA-9611	1-3/8	/	207.6	252.4	278.0	183.0	178.4	32	28	300	377	2
CA-9613	1-5/8	/	225.3	276.4	299.2	197.6	192.5	32	28	300	377	2
CA-9617	2-1/8	/	257.0	330.8	337.6	288.5	267.4	39	32	306	384	2
CA-9621G	/	2-5/8	289.0	356.5	372.1	327.5	295.4	54	50	297	390	2
CA-9624G	/	3	323.2	380.4	383.2	360.5	320.4	56	50	290	389	2
CA-9625G	/	3-1/8	373.0	394.6	402.6	374.6	368.0	56	50	289	388	2
CA-1449	1-1/8	/	197.6	232.8	249.0	281.6	172.5	27	25	437	514	3
CA-14411	1-3/8	/	267.5	320.2	344.2	239.4	235.4	32	28	442	519	3
CA-14413	1-5/8	/	292.2	348.5	373.6	260.5	257.0	32	28	442	519	3
CA-14417	2-1/8	/	330.8	397.3	429.4	295.7	288.6	39	32	448	526	3
CA-14421G	/	2-5/8	369.6	394.2	408.3	380.2	345.0	54	50	439	532	3
CA-14424G	/	3	402.0	443.2	429.4	415.4	373.2	56	50	432	531	3
CA-14425G	/	3-1/8	436.3	454.1	464.5	447.5	380.2	56	50	431	530	3
CA-19211	1-3/8	/	285.4	336.8	366.0	253.2	248.6	32	28	592	669	4
CA-19213	1-5/8	/	306.2	369.2	397.6	274.5	267.4	32	28	592	669	4
CA-19217	2-1/8	/	341.4	408.8	438.2	308.6	296.4	39	32	298	676	4
CA-19221G	/	2-5/8	422.4	485.2	521.0	429.8	348.4	54	50	589	682	4
CA-19224G	/	3	456.2	507.8	534.6	510.4	406.4	56	50	582	681	4
CA-19225G	/	3-1/8	472.2	535.6	562.4	556.2	422.4	56	50	581	680	4

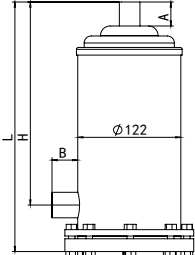
Feature

- Compatible with all CFC, HCFC and HFC refrigerants.
- Max. working pressure up to 3.5Mpa.
- Firm powder paint exterior coating for high-resistant from corrosion.
- Available with solder (pure copper) and flare connections.
- 100 mesh outlet screen.
- ODF solder fittings 5/8" to 3-1/8".
- Liquid pipe application can choose 48 type drying filter core.

Construction



Dimensions



CB Series
Replaceable Core Shell

The CB series replaceable core shell is for use in both liquid and suction line of large commercial air conditioning and refrigeration systems.

The shell allows replacement of 100 series cores for the removal of moisture, acid and foreign contaminant.

Specification

Model	Connection (inch)		Nominal Flow Capacity (kW) Pressure Drop 0.014Mpa					Dimensions (mm)				Q'TY of Core
	Copper	Iron	R22	R123A	R22	R404A/R507	R502	A	B	H	L	
CB-10013	1-5/8	/	190.0	191.0	280.0	240.0	156.0	32	28	183	304	1
CB-10017	2-1/8	/	205.0	206.0	294.0	260.0	172.0	39	32	183	308	1
CB-10017G	/	2-1/8	205.0	206.0	294.0	260.0	172.0	40	40	189	310	1
CB-10021G	/	2-5/8	221.0	225.0	302.0	287.0	191.0	54	50	201	322	1
CB-10024G	/	3	237.0	238.0	325.0	316.0	204.0	56	50	196	322	1
CB-10025G	/	3-1/8	242.0	249.0	342.0	339.0	230.0	56	50	195	321	1
CB-20013	1-5/8	/	251.0	260.0	360.0	374.0	256.0	32	28	343	464	2
CB-20017	2-1/8	/	265.0	273.0	382.0	390.0	280.0	39	32	348	468	2
CB-20017G	/	2-1/8	265.0	273.0	382.0	390.0	280.0	40	40	349	470	2
CB-20021G	/	2-5/8	282.0	297.0	408.0	308.0	312.0	54	50	361	482	2
CB-20024G	/	3	305.0	319.0	431.0	321.0	340.0	56	50	356	482	2
CB-20025G	/	3-1/8	331.0	327.0	453.0	336.0	367.0	56	50	355	481	2
CB-20028G	/	3-1/2	371.0	341.0	476.0	359.0	381.0	60	50	357	483	2
CB-20029G	/	3-5/8	398.0	364.0	498.0	378.0	305.0	60	50	356	482	2
CB-20034G	/	4-1/4	422.0	382.0	521.0	391.0	323.0	57	50	338	474	2
CB-30013	1-5/8	/	422.0	510.0	545.0	411.0	355.0	32	28	503	624	3
CB-30017	2-1/8	/	447.0	534.0	579.0	433.0	370.0	39	32	508	628	3
CB-30017G	/	2-1/8	447.0	534.0	579.0	433.0	370.0	40	40	509	630	3
CB-30021G	/	2-5/8	473.0	556.0	602.0	457.0	389.0	54	50	521	642	3
CB-30024G	/	3	482.0	572.0	617.0	462.0	396.0	56	50	516	642	3
CB-30025G	/	3-1/8	492.0	589.0	635.0	480.0	405.0	56	50	515	641	3
CB-30028G	/	3-1/2	501.0	600.0	654.0	486.0	407.0	60	50	517	643	3
CB-30029G	/	3-5/8	510.0	610.0	672.0	492.0	410.0	60	50	516	642	3
CB-30034G	/	4-1/4	523.0	632.0	694.0	511.0	427.0	57	50	498	634	3
CB-40013	1-5/8	/	515.0	632.0	681.0	493.0	421.0	32	28	663	784	4
CB-40017	2-1/8	/	545.0	654.0	703.0	528.0	457.0	39	32	668	788	4
CB-40017G	/	2-1/8	545.0	654.0	703.0	528.0	457.0	40	40	669	790	4
CB-40021G	/	2-5/8	573.0	694.0	729.0	549.0	478.0	54	50	681	802	4
CB-40024G	/	3	608.0	734.0	754.0	570.0	499.0	56	50	676	802	4
CB-40025G	/	3-1/8	631.0	754.0	776.0	691.0	520.0	56	50	675	801	4

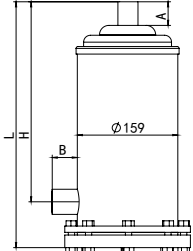
Feature

- Compatible with all CFC, HCFC and HFC refrigerants.
- Max. working pressure up to 3.5Mpa.
- Firm powder paint exterior coating for high-resistant from corrosion.
- Available with solder (pure copper) and flare connections.
- 100 mesh outlet screen.
- ODF solder fittings 5/8" to 3-1/8".
- CE certified.

Construction



Dimensions



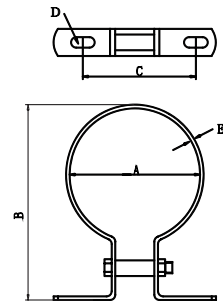
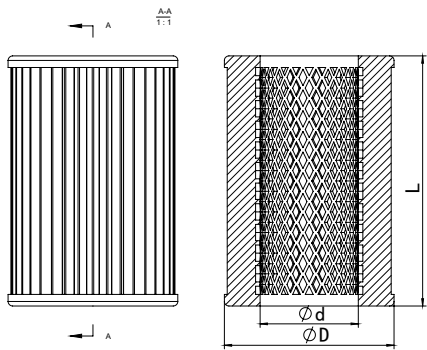
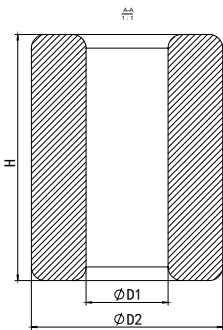


Filter Drier Core

Universal replacement for filter drier shell.

Feature

- For use in either liquid or suction line application.
- Compatible with all CFC, HCFC and HFC refrigerants and oils.



Solid core

Model	Connection	Dimension (mm)		
		D1	D2	H
D-48	Solid core with 80% molecular sieve and 20% activated alumina for moisture and acid adsorption.	45	94	140
XW-48	Burnout solid core with 48% alumina, 47% molecular and 5% carbon for clean up after burnout.	45	94	140
UK-48	100% solid molecular sieve solid core for high drying capacity	45	94	140
UK-100		52	123	165

Filter / Strainer core

Model	Connection	Dimension (mm)		
		d	D	L
F-48	100 mesh filter for suction line	54	92	140
X-48	Balayuse type filter core for use in filtering out solid contaminants in both liquid and suction line.	54	92	140
X-100		54	120	166

Mounting Bracket

Model	Dimension (inch)				
	A	B	C	D	E
FDB-114	4.99	6.50	3.75	0.41×0.81	0.12
FDB-152	6.00	7.45	4.00	0.41×0.81	0.12

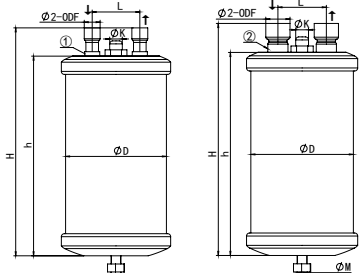
Oil Management



CW2/CW3 Series
Oil Separator

Remarks:

- ① Diameter less than 1-1/8", copper pipe and cover without iron sleeve connection.
- ② The diameter greater than or equal to 1-1/8", copper pipe and end cover increased iron sleeve connection.



Technical parameters

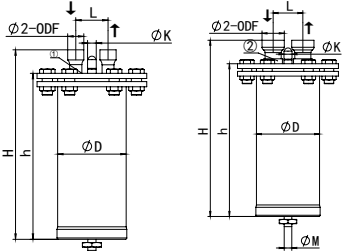
Model	In the refrigerating capacity of the evaporation temperature						ODF (in)	Oil Return SAE(in)	Dimensions (mm)					Precharge qty (mL)	Cubage (L)	Remarks
	R404A/R507		R134A		R22/R407C				φD	L	h	H	M			
	-40℃	+5℃	-40℃	+5℃	-40℃	+5℃										
CW2-55824	5.31	7.0	3.2	6.2	5.3	7.1	1/2	1/4	102	48	240	272	M10	400mL	1.73L	①
CW2-55855	14.2	19.3	11.4	15.8	15.8	19.5	5/8	1/4	102	48	300	335	M10	400mL	2.17L	①
CW2-55855A	14.2	19.3	11.4	15.8	15.8	19.5	5/8	1/4	102	48	325	360	M10	400mL	2.36L	①
CW2-55877	22.8	29.2	16.7	22.4	24.8	28.3	7/8	1/4	102	48	340	382	M10	400mL	2.47L	①
CW2-55877A	22.8	29.2	16.7	22.4	24.8	28.3	7/8	1/4	102	48	400	442	M10	400mL	2.91L	①
CW2-55889	30.0	37.6	22.4	29.9	31.8	37.2	1-1/8	1/4	102	48	370	412	M10	400mL	2.70L	②
CW2-55889A	30.0	37.6	22.4	29.9	31.8	37.2	1-1/8	1/4	102	48	430	472	M10	400mL	3.13L	②
CW2-559011	36.7	49	28.1	40.4	40.5	47.8	1-3/8	1/4	102	48	450	492	M10	400mL	3.28L	②
CW2-559011A	36.7	49	28.1	40.4	40.5	47.8	1-3/8	1/4	102	48	475	517	M10	400mL	3.47L	②
CW3-55824	5.31	7.0	3.2	6.2	5.3	7.1	1/2	3/8	102	48	240	272	M10	400mL	1.73L	①
CW3-55855	14.2	19.3	11.4	15.8	15.9	19.5	5/8	3/8	102	48	300	335	M10	400mL	2.17L	①
CW3-55855A	14.2	19.3	11.4	15.8	15.9	19.5	5/8	3/8	102	48	325	360	M10	400mL	2.36L	①
CW3-55877	22.8	29.2	16.7	22.4	24.8	28.3	7/8	3/8	102	48	340	382	M10	400mL	2.47L	①
CW3-55877A	22.8	29.2	16.7	22.4	24.8	28.3	7/8	3/8	102	48	400	442	M10	400mL	2.91L	①
CW3-55889	30.0	37.6	22.4	29.9	31.8	37.2	1-1/8	3/8	102	48	370	412	M10	400mL	2.70L	②
CW3-55889A	30.0	37.6	22.4	29.9	31.8	37.2	1-1/8	3/8	102	48	430	472	M10	400mL	3.13L	②
CW3-559011	36.7	49.0	28.1	40.4	40.5	47.8	1-3/8	3/8	102	48	450	492	M10	400mL	3.28L	②
CW3-559011A	36.7	49.0	28.1	40.4	40.5	47.8	1-3/8	3/8	102	48	475	517	M10	400mL	3.47L	②
CW3-569011	41.0	50.8	33.4	48.4	45.2	49.8	1-3/8	3/8	159	75	360	402	M12	800mL	6.20L	②
CW3-569211	41.0	50.8	33.4	48.4	45.2	49.8	1-3/8	3/8	159	75	430	472	M12	800mL	7.50L	②
CW3-569213	51.4	65.2	41.3	56.3	56.5	63.4	1-5/8	3/8	159	75	430	476	M12	800mL	7.50L	②
CW3-569417	88.5	108.6	63.3	89.0	91.4	105.5	2-1/8	3/8	159	75	430	482	M12	800mL	7.50L	②



CW20/CW30 Series
Detachable Oil Separator

Remarks:

- ① Diameter less than 1-1/8", copper pipe with no iron bushing flange connection.
- ② The diameter greater than or equal to 1-1/8", copper pipe and flange to increase iron sleeve connection.



Technical parameters

Model	In the refrigerating capacity of the evaporation temperature						ODF (in)	Oil Return SAE(in)	Dimensions (mm)					Precharge qty (mL)	Cubage (L)	Remarks
	R404A/R507		R134A		R22/R407C				φD	L	h	H	M			
	-40℃	+5℃	-40℃	+5℃	-40℃	+5℃										
CW20-5301	5.31	7.0	3.2	6.2	5.3	7.1	1/2	1/4	102	50	243	275	M10	400mL	1.70L	①
CW20-5302	14.2	19.3	11.4	15.8	15.8	19.5	5/8	1/4	102	50	335	370	M10	400mL	2.38L	①
CW20-5303	22.8	29.2	16.7	22.4	24.8	28.3	7/8	1/4	102	50	415	455	M10	400mL	2.98L	①
CW20-5304	30.0	37.6	22.4	29.9	31.8	37.2	1-1/8	1/4	102	50	440	482	M10	400mL	3.16L	②
CW20-5305	36.7	49.0	28.1	40.4	40.5	47.8	1-3/8	1/4	102	50	478	520	M10	400mL	3.44L	②
CW30-5301	5.31	7.0	3.2	6.2	5.3	7.1	1/2	1/4	102	50	243	275	M10	400mL	1.70L	②
CW30-5302	14.2	19.3	11.4	15.8	15.9	19.5	5/8	3/8	102	50	335	370	M10	400mL	2.38L	①
CW30-5303	22.8	29.2	16.7	22.4	24.8	28.3	7/8	3/8	102	50	415	455	M10	400mL	2.98L	①
CW30-5304	30.0	37.6	22.4	29.9	31.8	37.2	1-1/8	3/8	102	50	440	482	M10	400mL	3.16L	①
CW30-5305	36.7	49.0	28.1	40.4	40.5	47.8	1-3/8	3/8	102	50	478	520	M10	400mL	3.44L	①
CW30-6303	41.0	50.8	33.4	48.4	45.2	49.8	1-3/8	3/8	159	75	362	404	M12	800mL	6.20L	②
CW30-6304	51.4	65.2	41.3	56.3	56.5	63.4	1-5/8	3/8	159	75	430	476	M12	800mL	7.20L	②
CW30-63	88.5	108.6	63.3	89.0	91.4	105.5	2-1/8	3/8	159	75	478	530	M12	800mL	8.30L	②



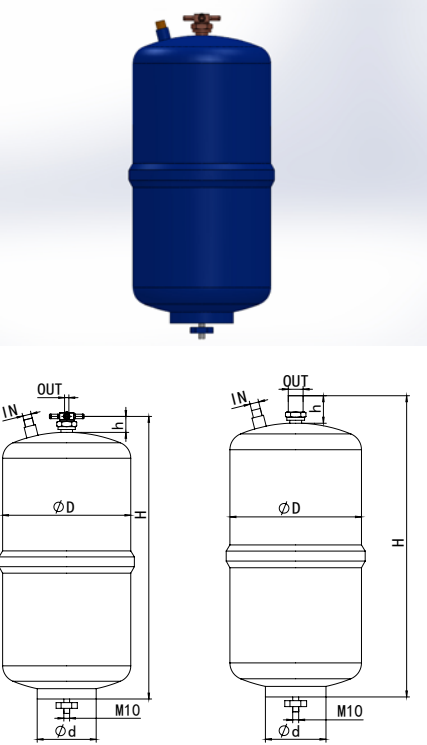
CC Series
Liquid Receiver

The CC series liquid receiver is designed for refrigerant storage during normal operation and system pump down.

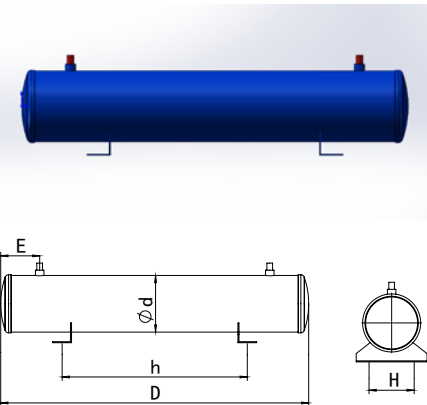
Feature

- Max. working pressure up to 35bar.
- Firm powder paint exterior coating for high-resistant from corrosion.
- Available with rotalock valves.
- PTFE gasket seal for valve.

Dimensions and constructions



Dimensions and constructions



Specification - Vertical

Model	Connection (inch)		Filter Area				Volume
	IN	OUT	D	h	H	d	
CC30-039110	3/8 ODF	3/8 ODF	91	33	223	63.5	1.0
CC30-149110	1/2 ODF	1/2 ODF	91	35	225	63.5	1.0
CC30-0312021	3/8 ODF	3/8 ODF	120	33	253	76	2.1
CC30-0412021	1/2 ODF	1/2 ODF	120	35	255	76	2.1
CC30-0415032	1/2 ODF	1/2 ODF	150	35	255	76	3.2
CC30-0515032	5/8 ODF	5/8 ODF	150	40	260	76	3.2
CC30-0515040	5/8 ODF	5/8 ODF	150	40	320	76	4.0
CC30-0518055	5/8 ODF	5/8 ODF	180	40	290	76	5.5
CC30-0718055	7/8 ODF	7/8 ODF	180	47	297	76	5.5
CC30-0518070	5/8 ODF	5/8 ODF	180	40	350	76	7.0
CC30-0718070	7/8 ODF	7/8 ODF	180	47	357	76	7.0
CC31-039110	3/8 ODF	3/8 ODF	91	40	230	63.5	1.0
CC31-0312021	3/8 ODF	3/8 ODF	120	40	260	76	2.1
CC31-0415032	1/2 ODF	1/2 ODF	150	40	260	76	3.2
CC31-4315032	1/2 ODF	3/8 ODF	150	40	260	76	3.2
CC31-0415040	1/2 ODF	1/2 ODF	150	40	320	76	4.0
CC31-4315040	1/2 ODF	3/8 ODF	150	40	320	76	4.0
CC31-0418055	1/2 ODF	1/2 ODF	180	40	290	76	5.5
CC31-0418062	1/2 ODF	1/2 ODF	180	40	318	76	6.2
CC31-0418070	1/2 ODF	1/2 ODF	180	40	350	76	7.0
CC31-5418070	5/8 ODF	1/2 ODF	180	40	350	76	7.0
CC31-0518070	5/8 ODF	5/8 ODF	220	40	350	76	7.0
CC31-0522010	5/8 ODF	5/8 ODF	220	40	350	89	10.0
CC31-0522012	5/8 ODF	5/8 ODF	220	40	400	89	12.0
CC31-6522012	3/4 ODF	5/8 ODF	220	40	400	89	12.0
CC31-6522014	3/4 ODF	5/8 ODF	220	40	450	89	14.0
CC31-0722014	7/8 ODF	7/8 ODF	220	45	455	89	14.0
CC31-0922014	1-1/8 ODF	1-1/8 ODF	220	53	463	89	14.0

Specification - Horizontal

Model	Connection (inch)		Filter Area				Volume	
	IN	OUT	D	h	H	d	E	L
CC381-0715912	7/8 ODF	7/8 ODF	670	450	120	159	110	12.0
CC381-0515914	5/8 ODF	5/8 ODF	800	520	120	159	110	14.3
CC381-0715914A	7/8 ODF	7/8 ODF	800	520	220	159	110	14.3
CC381-0715918A	7/8 ODF	7/8 ODF	1000	760	220	159	120	18.0
CC381-0521923A	5/8 ODF	5/8 ODF	700	460	220	219	140	23.1
CC381-0721923A	7/8 ODF	7/8 ODF	800	530	220	219	150	26.7
CC381-0721930A	7/8 ODF	7/8 ODF	900	550	220	219	150	30.0
CC381-0721933A	7/8 ODF	7/8 ODF	1000	650	220	219	150	33.4
CC381-0912933A	1-1/8 ODF	1-1/8 ODF	1000	650	220	219	150	33.4
CC381-0727340A	7/8 ODF	7/8 ODF	800	500	220	273	160	40.0
CC381-0927340A	1-1/8 ODF	1-1/8 ODF	800	500	220	273	160	40.0
CC381-0727345A	7/8 ODF	7/8 ODF	900	600	220	273	160	45.0
CC381-0927345A	1-1/8 ODF	1-1/8 ODF	900	600	220	273	160	45.0
CC381-1127345A	1-3/8 ODF	1-3/8 ODF	900	600	220	273	160	45.0
CC381-0927350A	1-1/8 ODF	1-1/8 ODF	1000	650	220	273	160	50.4
CC381-1127350A	1-3/8 ODF	1-3/8 ODF	1000	650	220	273	160	50.4
CC381-0927355A	1-1/8 ODF	1-1/8 ODF	1100	700	220	273	160	54.7
CC381-1127355A	1-3/8 ODF	1-3/8 ODF	1100	700	220	273	160	54.7
CC3815-0721920B	1-1/4-12UU	7/8 ODF	664	400	180	219	111	20.8
CC3810-0721930B	1-1/4-12UU	7/8 ODF	944	600	180	219	214	30.2
CC3810-0721940B	1-1/4-12UU	7/8 ODF	1214	740	180	219	349	39.3

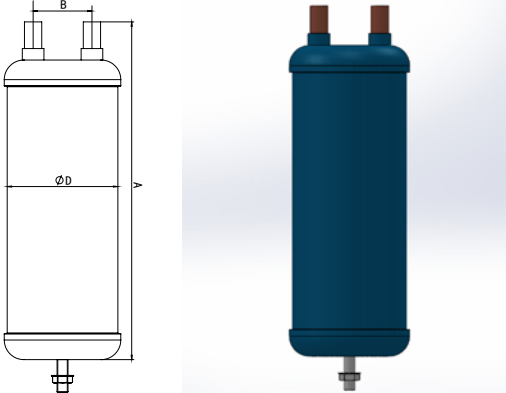
CQ Series
Suction Line Accumulator

The CQ series suction line accumulator is designed to protect compressor from returning of liquid refrigerant.

Feature

- Temperature of medium: -40 to + 120 °C.
- Max. working pressure up to 3.0Mpa.
- Firm powder paint exterior coating for high-resistant from corrosion.
- Solder (pure copper) connections.

Dimensions and constructions



Specification

Model	Connection	Dimension (mm)			Flow Capacity			Volume
	Inch	A	B	D	R-22	R-134A	R-404A	L
CW4000-0410215	1/2 ODF	233	52	102	7.0	4.3	4.6	1.5
CW4000-0510218	3/8 ODF	283	52	102	10.5	6.0	7.0	1.8
CW4000-0614035	3/4 ODF	288	80	140	14.1	8.1	9.2	3.5
CW4000-0714045	7/8 ODF	353	80	140	25.7	14.0	16.2	4.4
CW4000-0915972	1-1/8 ODF	438	85	159	41.5	25.3	26.7	7.2
CW4000-1115990	1-3/8 ODF	535	85	159	66.1	37.6	42.9	8.9
CW4000-1315910	1-5/8 ODF	592	85	159	101.3	59.8	64.0	9.9
CW4000-0612726	3/4 ODF	265	70	127	14.1	8.1	9.2	2.6
CW4000-0712726	7/8 ODF	270	70	127	25.7	14.0	16.2	2.6
CW4000-0612733	3/4 ODF	325	70	127	14.1	8.1	9.2	3.3
CW4000-0712735	7/8 ODF	340	70	127	25.7	14.0	16.2	3.5
CW4000-0712740	7/8 ODF	390	70	127	25.7	14.0	16.2	4.0
CW4000-0912740	1-1/8 ODF	395	70	127	41.5	25.3	26.7	4.0
CW4000-0912750	1-1/8 ODF	475	70	127	41.5	25.3	26.7	5.0
CW4000-1112750	1-3/8 ODF	477	70	127	66.1	37.6	42.9	5.0
CW4000-1115965	1-5/8 ODF	412	85	159	101.3	59.8	64.0	6.5
CW4000-1315995	1-5/8 ODF	572	85	159	101.3	59.8	64.0	9.5
CW4005-0410215	1/2 ODF	249	52	102	7.0	4.3	4.6	1.5
CW4005-0510218	5/8 ODF	299	52	102	10.5	6.0	7.0	1.8
CW4005-0614035	3/4 ODF	304	80	140	14.1	8.1	9.2	3.5
CW4005-0714045	7/8 ODF	369	80	140	25.7	14.0	16.2	4.4
CW4005-0915972	1-1/8 ODF	453	85	159	41.5	25.3	36.7	7.2
CW4005-1115990	1-3/8 ODF	550	85	159	66.1	37.6	42.9	8.9
CW4005-1215910	1-5/8 ODF	607	85	159	101.3	59.8	64.0	9.9

Oil Level Regulator



OLR

Electronic Oil Level Regulator

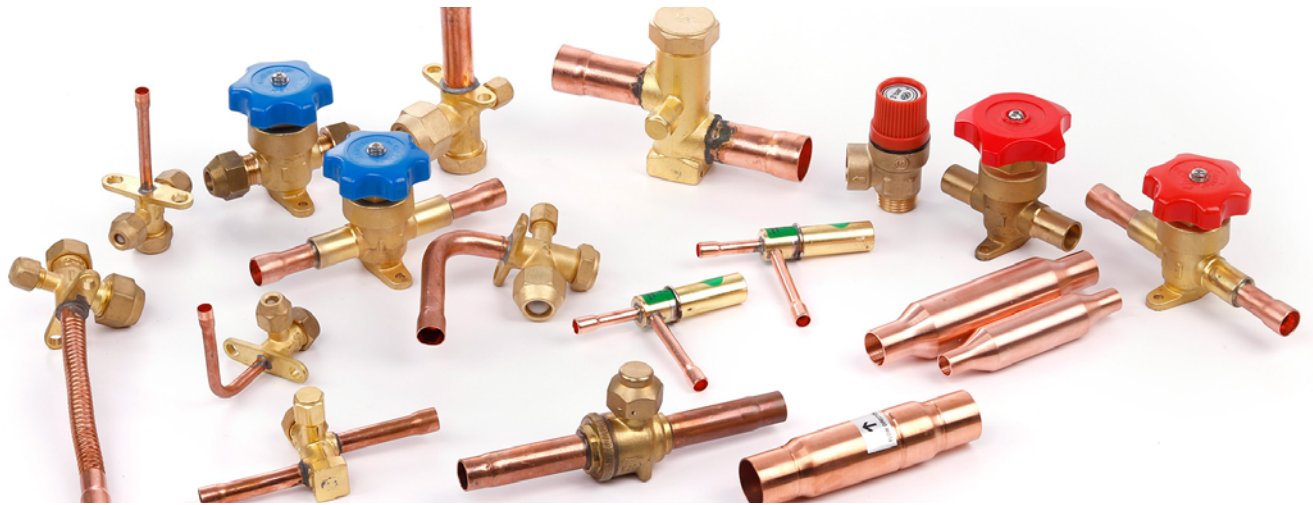
Electronic oil level regulator feedway designed for installation into oil distribution circuit of compressor stations to control and maintain level of oil in compressor's crankcase and to give alarm signal and disconnect compressor in case of accident or low level of oil in crankcase. Operation of electronic oil level control is based on electro-mechanics and uses hall-effect sensor as a sensitive element which allows to eliminate false alarms and to effectively control the level of oil in crank case of compressor.

FP-ERL4

Parameter	Value
Max. operating pressure	4.5 MPa
Test pressure	5.4 MPa
Power supply	230V, 50/60Hz, 0.04A
Range of filling	40%...60% from sight glass height
Protection class	Ip54
Time fill delay	10 sec
Alarm relay delay	120 sec
Alarm relay	max. 3A, 230V, 50/60Hz
Length of cables of power supply / alarm relay	3 m
Oil connection	Thread 7/16"-20UNF (1/4"SAE)
Valve coil electrical connection	DIN43650B
Power supply / alarm relay connection	DIN43650C

Electronic Oil Level Regulator with Adapters

Model	Manufacturer - Type of compressor
FP-ERL3+UA Flange adapter 3 holes ϕ 6,7 mm, D 47..6 mm 4 holes ϕ 6,7 mm, D 50.0 mm	Copeland: D2, D3, D4, D6, D9, 4CC, 6CC Bitzer: 4VC, 4C, 4TC, 4NC, 4J, 4H, 4G, 6J6F, 8GC, 8FC Dorin: all K, KP sizes (except FP-ERL-BB.100) Frascold: A, B, D, F, S, V, Z Bock: HA, HG, O except HG/HA12/22/34 Carrier: 06E Arctic Circle: G2, G4, G6
FP-ERL3+BB Screw adapter 1 1/8"-14NPTF, flange and 2 O-rings included	Bitzer: all series 2...C, 4FC, 4EC, 40C, 4CC Dorin: all H, K-100, 150, 180 CC/CS, 200CC, K230 CS K235CC, K240SB, K40CC, K50CS, K75CC/CS Bock: HG/HA12/22/34 Tecumseh: TAG Maneurop: MT, NTZ, SM, SZ Danfoss: MLZ
FP-ERL3+AA Screw adapter 3/4"-14NPTF, flange and 1 O-ring included	Copeland: ZB15...48, ZS21...45, ZF06...25 before 06/2014 ZB56, 75, 92, 11, ZF24...48, ZS56...11 before 05/2012 Bitzer: ZI, ZM Bristol: H29, H2, H7, H79
FP-ERL3+CD Rotalock adapter 1 3/4"-12UNF	Copeland: ZB220; ZH; ZF24...48; ZR90, 11, 12, 16, 19; ZR250...380; ZS56...11
FP-ERL3+CE Rotalock adapter 1 1/4"-12UNF	Copeland: - ZB15...48; ZF06...25; ZS21...45 after 06/2014 ZB50, 58, 66, 76, 95, 114; ZR94, 108, 125, 144, 160, 190



Valve Series

HV

Hand Valve

- Forged brass construction.
- Compatible with all refrigerants and oils.
- Available with solder and flare with nut connections.
- 100% leakage tested.
- CE certified.



Model	Connection Size (Inch)	Connection Type
HV-1/4F	1/4"	Flare to flare, with brass nut
HV-3/8F	3/8"	Flare to flare, with brass nut
HV-1/2F	1/2"	Flare to flare, with brass nut
HV-5/8F	5/8"	Flare to flare, with brass nut
HV-3/4F	3/4"	Flare to flare, with brass nut
HV-1/4S	1/4"	Solder to solder
HV-3/8S	3/8"	Solder to solder
HV-1/2S	1/2"	Solder to solder
HV-5/8S	5/8"	Solder to solder
HV-3/4S	3/4"	Solder to solder

AC

Split Shut-off Valve

- Combined function of shut-off, charging and testing.
- 100% forged brass body.
- Compact foot mounted design allows fast installation.
- Access port is available.
- Compatible for all refrigerants.
- CE certified.



Model	Tube O.D.	Connection Thread	Remark
AC-1/4	1/4"	7/16"-20UNF	-
AC-3/8	3/8"	5/8"-18UNF	-
AC-1/2	1/2"	3/4"-16UNF	-
AC-5/8	5/8"	7/8"-14UNF	-
AC-3/4	3/4"	1-1/6"-14UNF	-
AC-1/4-2W	1/4"	7/16"-20UNF	Without access port
AC-3/8-2W	3/8"	5/8"-18UNF	Without access port
AC-1/2-2W	1/2"	3/4"-16UNF	Without access port
AC-5/8-2W	5/8"	7/8"-14UNF	Without access port
AC-3/4-2W	3/4"	1-1/16"-14UNF	Without access port



XHF

Pressure Regulating Valve

- Opening pressure: 1.5~3.6Mpa adjustable (factory default value 2.35±0.05Mpa).
- Pressure difference of opening and resetting: ≤0.2MPa.
- Leakage: ≤500ml/min.
- Valve diameter: ϕ 3mm.
- Temperature: -30°C~+120°C.
- Refrigerant: CFC, HCFC and HFC refrigerants and oils.



YSQ

Recirculating Injector

- No Moving Parts.
- All Steel Construction.
- Aids high efficiency heat transfer.
- Reduces refrigerant charge.
- Minimum maintenance.
- Interchangeable nozzles.
- Suitable for CFC, HCFC, HFC refrigerants.
- Max.working pressure: 27 bar.



DPV-3122/17

DPV-3142/13

DPV

Plunger Check Valve

- The valve can ensure of the correct flow direction only.
- Prevents back-condensation from warm to cold evaporator.
- Built-in damping piston that makes the valves suitable for installation in lines where pulsation can occur, e.g. in the discharge line from the compressor.
- Oversize connections provide flexibility in use.
- Easy disassembly and assembly design.

Standardized Valve

Type	ODF Connection	
	Inch	mm
DPV-3122/7	7/8	22.4
DPV-3122/9	1-1/8	28.8
DPV-3122/11	1-3/8	35.0
DPV-3122/13	1-5/8	42.0
DPV-3122/17	2-1/8	54.0

Valve with extend longer tube for ODF connection

Type	ODF Connection	
	Inch	mm
DPV-3142/7	7/8	22.4
DPV-3142/9	1-1/8	28.8
DPV-3142/11	1-3/8	35.0
DPV-3142/13	1-5/8	42.0
DPV-3142/17	2-1/8	54.0



DCV Magnetic Check Valve

- Magnet valve seat, tectorial diaphragm. Copper connection size 1/4" through 3-1/8".
- Near zero internal leak rate.
- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- Working temperature range: -40°C~+130°C.
- Minimum current resistance, large flow rate.
- Straight line shape, slim and light body, can be installed in any position.
- Mesh in the valve body, it's not just a check valve, but also a filter.

Type	Connector (in)	Safety working pressure (Kpa)	OD (mm)	Length (mm)
DCV-4	1/4	5500	22	102
DCV-6	3/8	5500	22	102
DCV-8	1/2	5200	29	127
DCV-10	5/8	5200	29	127
DCV-12	3/4	4100	41	178
DCV-14	7/8	4100	41	178
DCV-18	1-1/8	4100	54	213
DCV-22	1-3/8	4000	67	238
DCV-26	1-5/8	3000	80	267
DCV-34	2-1/8	3200	92	305
DCV-42	2-5/8	3000	105	330
DCV-50	3-1/8	3000	105	330



DSC/DSCH Straight Line Right Angle Check Valve

- The valve ensures only correct flow direction.
- Prevents back-condensation from warm to cold evaporator.
- Built-in damping piston that makes the valves suitable for installation in lines where pulsation can occur, e.g. in the discharge line from the compressor.
- DSCH is supplied with spring to $\Delta p=0.3$ bar.
- Used in refrigeration plant with compressors connected in parallel.
- Oversize connections provide flexibility in usgae.

Type	ODF Connection	Pressure drop across valve Δp_1 bar	Kv Value m³/h
DSC-6	1/4	0.04	0.56
DSCH-6	1/4	0.30	0.56
DSC-10	3/8	0.04	1.20
DSCH-10	3/8	0.30	1.20
DSC-12	1/2	0.04	2.05
DSCH-12	1/2	0.30	2.05
DSC-16	5/8	0.04	3.60
DSCH-16	5/8	0.30	3.60
DSC-19	3/4	0.04	5.50
DSCH-19	3/4	0.30	5.50
DSC-22	7/8	0.04	5.50
DSC-22L	7/8	0.04	8.50
DSCH-22L	7/8	0.30	8.50
DSC-28L	1-1/8	0.04	19.0
DSCH-28L	1-1/8	0.30	19.0
DSC-35L	1-3/8	0.04	29.0
DSCH-35L	1-3/8	0.30	29.0
DSC-42L	1-5/8	0.04	32.0
DSCH-42L	1-5/8	0.30	32.0

1) Δp =the minimum pressure at which the valve is completely open.

The DSCH with a stronger spring is used in the dischare line from compressors connected in parallel.

2) The kv value is the flow of water in m³/h at apressure drop across valve of 1 bar, p1000kg/m³



BCV/BCVS Copper Ball Check Valve

- Straight through type flow design, large flow rate
- Internal metal & metal mounting –stainless steel and brass
- Anticorrosive structure (stainless steel, brass, copper)
- Almost no leakage in the contrary direction
- Universal connection sizes, easy replacement
- Built-in spring is available

Type	Max working pressure (Mpa)	Pressure ensurance (Mpa)	Opening pressure (Mpa)	Leakage amount (Oz/Year)	Flow rate (cc/min)	2psi Pressure drop capacity (TR)		
						R-12	R-22	R-502
BCV-06 / BCVS-06	4.5	21.5	0.02	0.12	≥750	3.8	5.0	3.3
BCV-08 / BCVS-08	4.5	21.5	0.02	0.12	≥750	6.8	9.0	6.0
BCV-10 / BCVS-10	3.5	19.5	0.05	0.12	≥750	12.8	17.0	11.3
BCV-14 / BCVS-14	3.5	19.5	0.05	0.12	≥750	26.3	35.0	23.5
BCV-18 / BCVS-18	2.8	14.0	0.065	0.12	≥750	69.1	92.0	61.8



CV Check Valve

- Slim body and a teflon valve element incorporated.
- Integrated structure prevents of leakage.
- Reliable performance and long service life.
- Can be customized according to customer requirements.



BV Ball Valve

- No pressure drop in flow.
- Only turn 1/4 circle to make valve full open or full close.
- Turning stop for full open or full close.
- Two-direction flow is available.
- Argon arc welded structure.
- Explosion-proof valve stem design.
- Modified PTFE sealing.
- Inside liquid accumulation is avoided.
- Could be mounted on the control panel.
- Two types of BV Ball Valve are available: With and without the charging port.
- The part number which with "Z" has the charging port .

Type	Connection Size (in)	Allowed Max Leaking Capacity (g/year)	Max working pressure	1(kw) Rated power of liquid			Kv value (m³/h)
				R22	R134a	R502	
BV-04(Z)	1/4	2.8	4.5	11.0	10.1	7.3	0.8
BV-06(Z)	3/8	2.8	4.5	22.0	20.2	14.6	3.8
BV-08(Z)	1/2	2.8	4.5	105	96	70	5.6
BV-10(Z)	5/8	2.8	4.5	143	132	95	10.1
BV-12(Z)	3/4	2.8	4.5	241	221	160	20.42
BV-14(Z)	7/8	2.8	4.5	358	329	238	28.17
BV-18(Z)	1-1/8	2.8	4.5	633	582	421	51.95
BV-22(Z)	1-3/8	2.8	4.5	756	696	503	80.89
BV-26(Z)	1-5/8	2.8	4.5	1293	1190	860	196
BV-34(Z)	2-1/8	2.8	4.5	1348	1240	1156	248
BV-42(Z)	2-5/8	2.8	4.5	1470	1320	1235	252
BV-50(Z)	3-1/8	2.8	4.5	1532	1480	1345	279

1) Rated liquid and suction vapour capacity is based on evaporating temperature t_e=-10°C, liquid temperature ahead of valve t_l=+25°C, and pressure drop in valve $\Delta p=0.015$ Mpa

2) The Kv Value is the water flow in m³/h at a pressure drop across valve of 0.1Mpa, p=1000kg/m³



GV-6512/17

GV-6542/13

GV

Globe Valve

- Can be used for all fluorinated refrigerants.
- Valve plate of polyamide nylon to give complete shut-off with minimum torque.
- Valve handle with special designed, can be shut-off with-out using any tools.
- Extended copper connection makes installation easier.
- We don't need to open the valve during welding.



CAV

Capped Valve

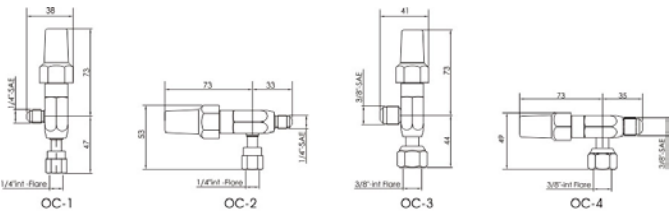
- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- Working temperature range: -40°C~+110°C.
- Forged brass body.
- Hermetic design.
- Max. working pressure: 4.2MPa.



REV

Receiver Valve

- Forged brass body.
- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- Working temperature range: -40°C~+149°C.
- Max. Working Pressure: 4.8Mpa.



OC

Cut-Off Valve For Oil Circuit

Cut-off valve of oil circuit can be assembled on the oil return adapter of oil separator, the oil inlet adapter of oil level regulator, the equalizing adapter of oil level regulator, the balancer adapter and oil filter. Every cut-off valve has the 360° rotary connection and can be assembled on the oil circuit conveniently.

Type	A	B	Installation method
OC-1	1/4" SAE 1/4"SAE male adapter	1/4" SAE 1/4"SAE male adapter	Vertical
OC-2	1/4" SAE 1/4"SAE male adapter	1/4" SAE 1/4"SAE male adapter	Horizontal
OC-3	3/8" SAE 3/8"SAE male adapter	3/8" SAE 3/8"SAE male adapter	Vertical
OC-4	3/8" SAE 3/8"SAE male adapter	3/8" SAE 3/8"SAE male adapter	Horizontal

Standardized Valve

Type	ODF Connection	
	Inch	mm
GV-6512/7	7/8	22.4
GV-6512/9	1-1/8	28.8
GV-6512/11	1-3/8	35.0
GV-6512/13	1-5/8	42.0
GV-6512/17	2-1/8	54.0

Valve with extend longer tube for ODF connection

Type	ODF Connection	
	Inch	mm
GV-6542/7	7/8	22.4
GV-6542/9	1-1/8	28.8
GV-6542/11	1-3/8	35.0
GV-6542/13	1-5/8	42.0
GV-6542/17	2-1/8	54.0

Type	Connetion (in)		Kv value (m³/h)
	ODF	SAE	
CAV-6410/2	-	1/4	0.40
CAV-6420/2	1/4	-	0.40
CAV-6410/3	-	3/8	1.00
CAV-6420/3	3/8	-	1.00
CAV-6410/4	-	1/2	1.45
CAV-6420/4	1/2	-	1.45
CAV-6410/5	-	5/8	1.70
CAV-6420/5	5/8	-	1.70
CAV-6410/6	-	3/4	3.50
CAV-6420/6	3/4	-	3.50
CAV-6420/7	7/8	-	3.50



RV

Rotalock Valve

- Max. working pressure: 48bar.
- Working temperature range: -40°C~150°C
- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- 100% leak testing.
- No asbestos gasket.

Welding Rotalock Valve

Type	Connetion Size			
	inch	mm	Thread	Hex
RV-V01	3/8"	φ 10	1"-14UNS	30
RV-V02	1-1/8"	φ 28	1-3/4"-12UN	50
RV-V03	1-3/8"	φ 35	1-3/4"-12UN	50
RV-V04	3/4"	φ 19	1-1/4"-12UNF	36
RV-V05	7/8"	φ 22	1-1/4"-12UNF	36
RV-V06	1/2"	φ 12	1"-14UNS	30
RV-V07	7/8"	φ 22	1-3/4"-12UN	50
RV-V08	7/8"	φ 22	1-1/4"-12UNF	36
RV-V09	5/8"	φ 16	1-1/4"-12UNF	36
RV-V10	1-5/8"	φ 42	2-1/4"-12UNF	65

Can move 360° during installation

Welding Model

Valve Body (Square)	Type	D connetion Size	
		inch	mm
□ 20	RV001	3/8"	10
	RV002	1/2"	12
	RV003	5/8"	16
□ 30	RV004	3/4"	19
	RV005	7/8"	22
	RV006	1-1/8"	28
□ 35	RV007	1-1/8"	28
	RV008	1-3/8"	35
	RV009	1-5/8"	42
□ 50	RV010	1-3/8"	35
	RV011	1-5/8"	42
	RV012	2-1/8"	54



CSV

Cast Iron Stop Valve

Model	ODS Connection		φ F
	inch	mm	
CSV01		28	54
CSV02	1-1/8"		54
CSV03	1-3/8"	35	54
CSV04		42	54
CSV05	1-5/8"		54
CSV06	2-1/8"	54	64
CSV07		65	64
CSV08	2-5/8"		64
CSV09		65	85
CSV10	2-5/8"	80	85
CSV11	3-1/8"		85
CSV12	3-5/8"	92	97

- Test Pressure: 4.5Mpa.
- Suitable temperature range: -30°C~+150°C.
- Suitable medium: R22, R507, R407C, R404A, R134a etc refrigerant oil.

Model	ODS Connection		φ F
	inch	mm	
CSV13	4-1/8"	102	111
CSV17	1-1/4"	32	140
CSV22	1-1/4"	32	140
CSV14	7/8"	22	32.2
CSV15		28	32.2
CSV16	1-1/8"		32.2
CSV18	1-3/8"	35	32.2
CSV19	7/8"	22	32.2
CSV20		28	32.2
CSV21	1-1/8"		32.2
CSV23	1-3/8"		32.2
CSV24	1-1/2"	38	32.2

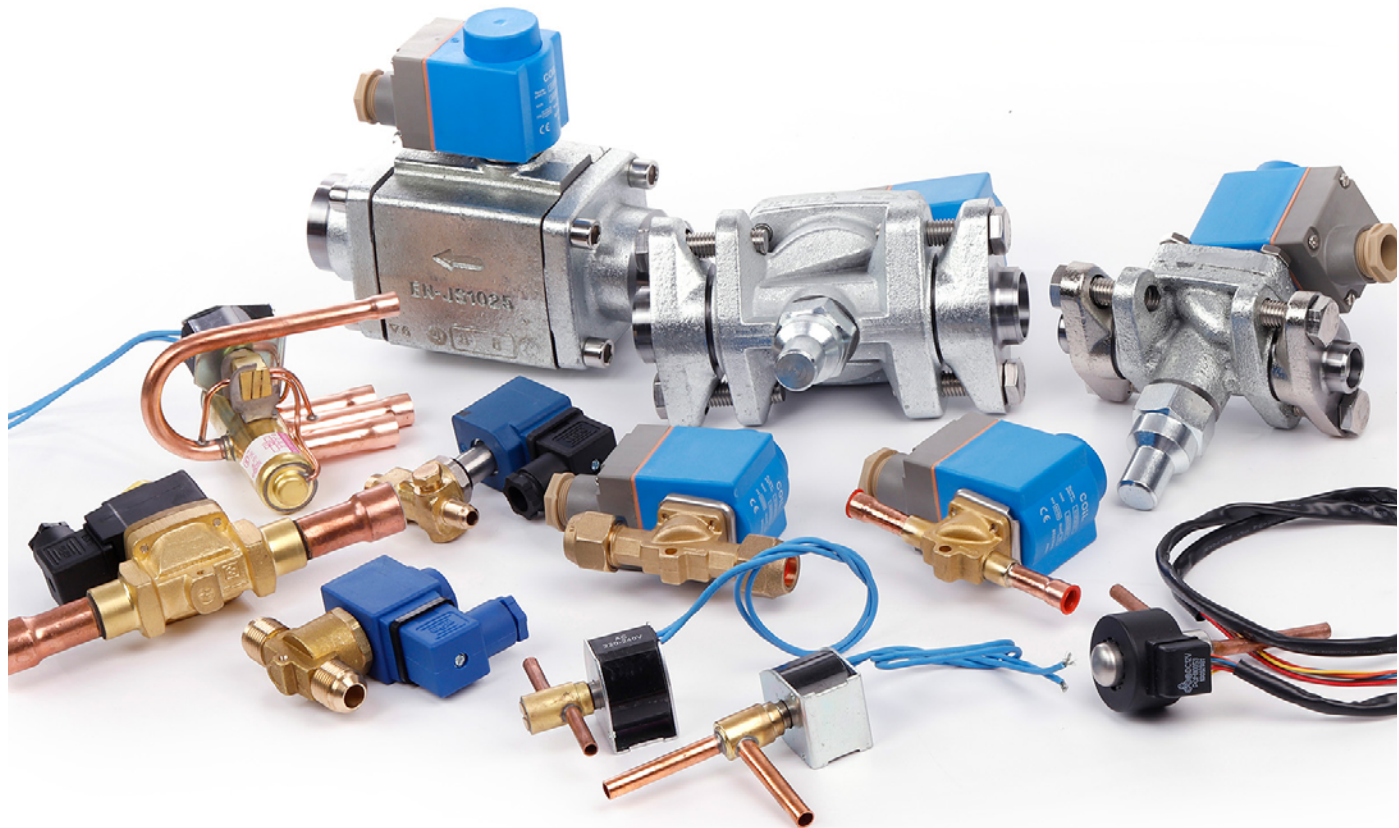


SMV

Bar-Stock Service Valve

- 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.

Model	Copper tube size in	Thread Size F
SMV-JA3Y	3/8	/
SMV-JA4Y	1/2	/
SMV-JA5Y	5/8	/
SMV-JA6Y	3/4	/
SMV-JA7Y	7/8	/
SMV-JA8Y	1	/
SMV-JA9Y	9/8	/
SMV-8JA3Y	3/8	/
SMV-15JA4Y	1/2	/
SMV-15JA5Y	5/8	/
SMV-15JA6Y	3/4	/
SMV-17JA7Y	7/8	/



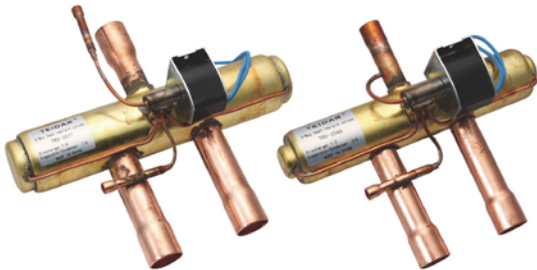
Solenoid Valve



DPF
Electronic Expansion Valve

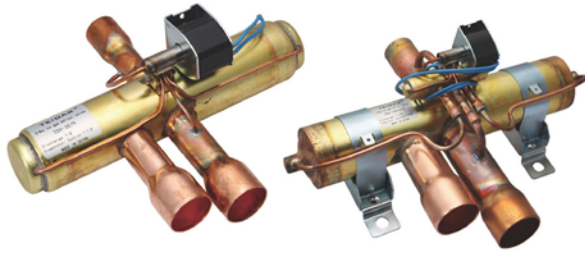
- Applicable for oil-free system (T series).
- Smaller installation space: low height, small volume, light weight optimized flow path design for noise reduction.
- Fast operation, energy saving.
- Applicable for reversible systems like heat pumps: bidirectional flow.

Model	Part Number ^①	Seat φ(mm)	Kv (m³/h)	Nominal Cooling Capacity ^② (kW)					MOP Max. Oper. Press. (MPa)	MOPD Direct (MPa)	MOPD Rev. (MPa)
				R22	R134a	R407C ^③	R404A R507A	R410A			
DPF(T01)1.3C-07	DPF-09001	1.3	0.05	4.7	3.6	4.8	3.3	5.5	4.5	3.5	≥2.1
DPF(T01)1.65C-05	DPF-09002	1.65	0.08	7.8	8.0	8.0	5.5	9.1	4.5	3.5	≥2.1
DPF(T01)1.8C-08	DPF-09003	1.8	0.1	9.4	7.2	9.7	6.6	11	4.5	3.5	≥2.1
DPF(T01)2.0C-03	DPF-09004	2	0.16	11.5	8.9	11.8	8.1	13.5	4.5	3.5	≥2.1
DPF(T01)2.2C-01	DPF-09005	2.2	0.2	15	11.6	15.5	10.5	17.6	4.5	3.5	≥2.1
DPF(T01)2.4C-01	DPF-09006	2.4	0.23	20.7	15.9	21.3	14.5	24.2	4.5	3.5	≥2.1
DPF(TS1)3.0C-01	DPF-09007	3	0.39	30.8	23.7	31.7	21.6	36	4.5	3.5	≥1.5
DPF(TS1)3.2C-01	DPF-09008	3.2	0.43	36.3	28	37.4	25.4	42.5	4.5	3.5	≥1.5
DPF(S03)4.0C-01	DPF-09009	4	0.5	42	32.3	42	29.4	50.4	4.5	3.5	≥0.7
DPF(S03)4.5C-01	DPF-09010	4.5	0.7	53	40.4	52.5	36.8	63	4.5	3.5	≥0.7
DPF(S03)5.5C-01	DPF-09011	5.5	0.9	70	53.9	70	49.0	84	4.5	3.5	≥0.7
DPF(S03)6.5C-02	DPF-09012	6.5	1.1	105	80.9	105	73.5	126	4.5	3.0	≥0.7



TRV
3-Way Heat Reclaim Valve

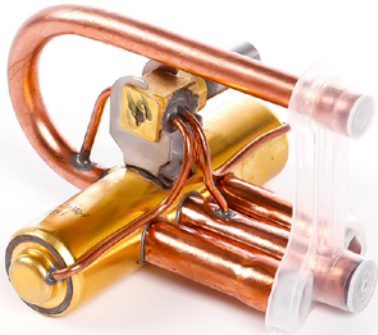
3-Way Heat Reclaim Valves have a pilot operated design that shifts the refrigerant flow to either the normal condenser or the reclaim condenser based on the heating requirements of the application.



TDV
3-Way Hot Gas Defrost Valve

3-Way hot gas defrost valves are used for gas defrost only. One or more compressors are used to provide refrigeration for multiple evaporators, both medium and low temperature. The 3-Way valves are used to control either the flow of gas off a discharge header to the various evaporators, or suction gas from the evaporators to the suction header. The direction of flow is dependent upon whether the pilot valve is energized or de-energized.

Type	Dimension (mm)	R22 capacity (US ton)	Capacity range (reference value) (kW)			Pipe Size (inch)	
			R22/R407C Min/Max	R410A Min/Max	R134A Min/Max	D pipe	EC/ES pipe
TRV/TDV-0423	8	1	1/4.9	1/5.5	1/3.9	5/16	3/8
TRV/TDV-0433	8	1	1/4.9	1/5.5	1/3.9	3/8	3/8
TRV/TDV-0944	11.1	2	2.6/9.8	2.6/11	2.6/7.7	1/2	1/2
TRV/TDV-2046	15.5	6	4/19	5/24	3/15	1/2	3/4
TRV/TDV-2055	15.5	6	4/19	5/24	3/15	5/8	5/8
TRV/TDV-3566	15.5	6	11/38	13/47	9/29	3/4	3/4
TRV/TDV-3577	20	10	11/38	13/47	9/29	7/8	7/8
TRV/TDV-3567	20	10	11/38	13/47	9/29	3/4	7/8
TRV/TDV-4879	25	13	23/47	27/59	19/36	7/8	1-1/8
TRV/TDV-4899	25	13	23/47	27/59	19/36	1-1/8	1-1/8
TRV/TDV-48911	25	13	23/47	27/59	19/36	1-1/8	1-3/8
TRV/TDV-70810	26	20	18/72	21/91	14/56	1	1-1/4
TRV/TDV-70911	26	20	18/72	21/91	14/56	1-1/8	1-3/8
TRV/TDV-1001012	35	30	26/109	31/137	22/58	1-1/4	1-1/2
TRV/TDV-1001013	35	30	26/109	31/137	22/58	1-1/4	1-5/8



FRV
4-way Reversing Valve

4-way reversing valve are suitable for refrigeration system or heat pump application, which require a reversal of the refrigeration cycle to provide cooling or heating as seasonal condition.

Voltage: 23VAC, 110VAC, 115VAC, 120VAC, 220VAC, 240VAC, 265VAC
Terminal: pin or pre-wired
Frequency: 50/60HZ
Power: 4-7W

Model	Nominal Capacity kW	Connection Inch		Operating Pressure Differential (Mpa)			Internal leakage ML/min
		Discharge	E.S.C.	Max.		Min.	
				R-22	R-407C	R-410A	
FRV-5	5	5/16 ODF	3/8 ODF	2.5	3.1	0.25	≤1000
FRV-9	9	3/8 ODF	1/2 ODF	2.5	3.1	0.34	≤2000
FRV-11	11	1/2 ODF	5/8 ODF	2.5	3.1	0.34	≤2000
FRV-20	20	1/2 ODF	3/4 ODF	2.5	3.1	0.34	≤4000
FRV-34	34	3/4 ODF	7/8 ODF	2.5	3.1	0.34	≤4000
FRV-45	45	7/8 ODF	1-1/8 ODF	2.5	3.1	0.34	≤6000



US
Unloading Solenoid Valve

- Only NC type solenoid valve is available.
- The max. design temperature is 110°C.
- 10W high power solenoid and max. operating pressure differential (MOPD) is 2.1Mpa.
- It is applicable to various compressors in freezer, cold store and air conditioning unit.
- The sealed solenoid has a long service life and it can be used even in an adverse circumstance.

Type	Connection		Pressure Differential to Open Valve P (Mpa)		Max. Operating Pressure PB (Mpa)	Voltage
	Inlet	Outlet	Min	Max. Operating Pressure Differential (MOPD)		
US-001	Flanged Connection		0.0	2.1	3.0	220V
US-002	Flanged Connection		0.0	2.1	3.0	110V



VR
Solenoid Valve

- Complete range of solenoid valves for refrigeration, freezing and air conditioning plant .
- Wide choice of coils for A.C.and D.C.
- Suitable for all fluorinated refrigerants .
- Extended ends for soldering make installation easy. it is not necessary to dismantle the valve when soldering in .
- Flange connections are available.
- Copper connection sizes are ranged from1/4" to 2-1/8".

Type	ODF Connection		Δ p(bar) The pressure difference when the solenoid valve can be activated, using standard loop			Media Temperature	Max. working pressure	Kv value
	Inch	mm	Least	The maximum working pressure difference, MOPD (liquid)				
				10W a.c	12W a.c			
VR3	1/4 3/8	6 10	0.0	21	25	-40~+105	3.5	0.27
VR6	3/8 1/2	10 12.8	0.05	21	25	-40~+105	3.5	0.8
VR10	1/2 5/8	12.8 16	0.05	21	25	-40~+105	3.5	1.9
VR15	5/8 7/8	16 22	0.05	21	25	-40~+105	3.5	2.6
VR20	7/8 1-1/8	22 28.8	0.05	21	25	-40~+105	3.2	5.0
VR22	1-3/8	35.0	0.05	21	25	-40~+105	3.2	6.0
VR25	1-1/8 1-3/8	28.8 35.0	0.20	21	25	-40~+105	3.2	10.0
VR32	1-3/8 1-5/8	35.0 42.0	0.20	21	25	-40~+105	3.2	16.0
VR40	1-5/8 2-1/8	42.0 54.0	0.20	21	25	-40~+105	3.2	25.0

- 1) The Kv value is the water flow in m³/h at a pressure drop across valve of 0.1Mpa, $\rho=1000\text{kg/m}^3$.
2) MOPD for media in gas form is approx 0.1 Mpa greater.

Coils Voltage For Normally Open/Closed Solenoid Valves AC220V、DC12V、DC24V



Normally Open Solenoid Valve
Copper connection size are ranged from 3/8"to 1-1/8".



Solenoid Valve For Ammonia or Fluorinated Refrigerants
Copper Connection Sizes Are Ranged From DN20-DN60



Normally Closed Solenoid Valve With Steel Flange

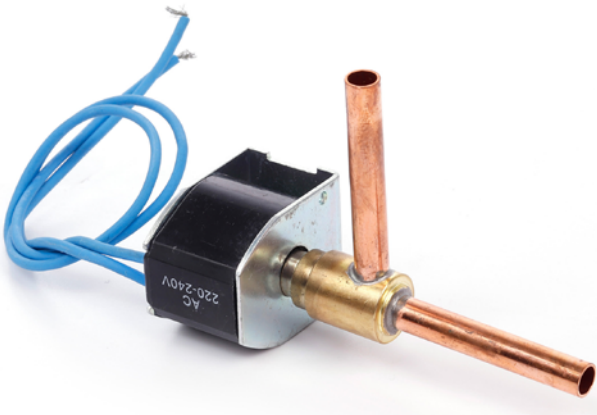


DS
Diaphragm Solenoid Valve

Diaphragm Solenoid Valve is an automatic control parts used in refrigeration system to control the refrigerant to pass or not pass, the valve is widely used in compressor group, central air-conditioning, cold equipment and bus air-conditioning system.

Type	Connection (in)		Porting	Kv value
	SAE	ODF	(mm)	(m³/h)
DS-1020/2	1/4	-	2.5	0.175
DS-1020/3	3/8	-	3.0	0.23
DS-1028/2	-	1/4	2.2	0.15
DS-1028/3	-	3/8	3.0	0.23
DS-1064/3	3/8	-	7.0	0.80
DS-1064/4	1/2	-	7.0	0.80
DS-1068/3	-	3/8	7.0	0.80
DS-1068/4	-	1/2	7.0	0.80
DS-1070/4	1/2	-	12.5	2.20
DS-1070/5	5/8	-	12.5	2.61
DS-1078/4	-	1/2	12.5	2.20
DS-1078/5	-	5/8	12.5	2.61
DS-1078/9	-	1-1/8	25.5	10.00
DS-1078/11	-	1-3/8	27.0	10.00
DS-1090/5	5/8	-	16.5	3.80
DS-1090/6	3/4	-	16.5	4.80
DS-1079/7	-	7/8	12.5	2.61
DS-1079/11	-	1-3/8	25.5	10.00
DS-1079/13	-	1-5/8	27.0	16.00
DS-1098/7	-	7/8	16.5	5.70
DS-1099/9	-	1-1/8	16.5	5.70
DS-1099/11	-	1-3/8	25.0	10.00

Note: The Kv Value is the water flow in m³/h at a pressure drop across valve of 0.1Mpa, $\rho=1000\text{kg/m}^3$



FDF
Normally Closed Solenoid Valve

- Coils: Compact design, low power consumption, reliable operation.
- Good performance of open, big for the max. working pressure difference.
- Service life $\geq 100,000$ times.

Product Series	Operation Way	Operation Type	Port (mm)	Kv (m³/h)	Internal Leak ($\Delta p=2.1\text{MPa}$) (ml/min)	Operation Pressure Difference		OD of connection tube (inch)
						Min	Max	
FDF 2A	Open when be in energized	Direct	$\phi 1.9$	0.08	≤ 300	3.4	0	1/4
FDF 2.5A	Open when be in energized	Servo operated	$\phi 2.5$	0.20	≤ 300	3.4	0.01	1/4
FDF 3A	Open when be in energized	Servo operated	$\phi 3.0$	0.26	≤ 500	3.4	0.01	1/4
FDF 4A	Open when be in energized	Servo operated	$\phi 4.0$	0.30	≤ 500	3.4	0.01	1/4
FDF 6A	Open when be in energized	Servo operated	$\phi 5.8$	0.56	≤ 500	3.4	0.01	5/16



Expansion Valve



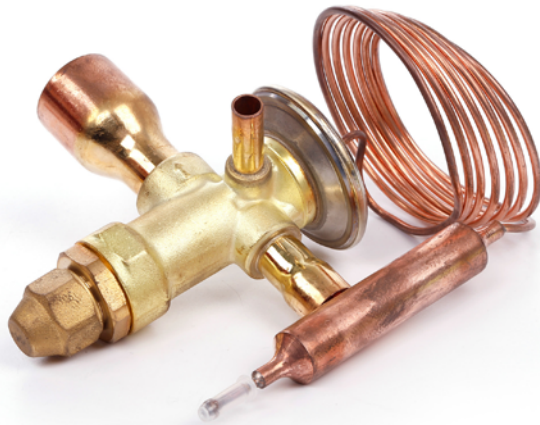
T2
Thermostatic Expansion Valve

T 2 and TE 2 thermostatic expansion valves have an interchangeable orifice assembly. The orifice assembly is suitable for all versions of valve body and refrigerants and in all evaporating temperature ranges. The charge in the thermostatic element depends on the refrigerant and evaporating temperature range. The valves are available with internal (T2) or external (TE2) pressure equalization.

Refrigerant	Valve type	Pressure equalization	Capillary tube	Connection		Code no.					
						Range N -40 to +10°C		Range NM -40 to -5°C		Range NL -40 to -15°C	
				Inlet x outlet	mm xmm	Without MOP	With MOP	Without MOP	With MOP	Without MOP	With MOP
R22/R407C	TX 2	Int.	1.5	3/8x1/2	10x12	068Z3206	068Z3208	068Z3224	068Z3226	068Z3207	068Z3228
	TEX 2	Ext.	1.5	3/8x1/2	10x12	068Z3209	068Z3211	068Z3225	068Z3227	068Z3210	068Z3229
R407C	TZ 2	Int.	1.5	3/8x1/2	10x12	068Z3496	068Z3516				
	TEZ 2	Ext.	1.5	3/8x1/2	10x12	068Z3501	068Z3517				
R134A	TN 2	Int.	1.5	3/8x1/2	10x12	068Z3346	068Z3347	068Z3393	068Z3369		
	TEN 2	Ext.	1.5	3/8x1/2	10x12	068Z3348	068Z3349	068Z3392	068Z3370		
R404A/R507	TS 2	Int.	1.5	3/8x1/2	10x12	068Z3400	068Z3402	068Z3406	068Z3408	068Z3401	068Z3410
	TES 2	Ext.	1.5	3/8x1/2	10x12	068Z3403	068Z3405	068Z3407	068Z3409	068Z3404	068Z3411

Orifice assembly with filter Range N: -40 to +10°C

Orifice no.	Nominal capacity in tons (TR)				Nominal capacity in kW				Code no.
	R22	R407C	R134A	R404A R507	R22	R407C	R134A	R404A R507	
0X	0.25	0.27	0.19	0.18	0.90	0.96	0.68	0.65	068-2002
00	0.51	0.53	0.34	0.37	1.78	1.87	1.20	1.30	068-2003
01	0.99	1.04	0.59	0.75	3.48	3.67	2.08	2.64	068-2010
02	1.34	1.41	0.73	1.05	4.72	4.96	2.55	3.70	068-2015
03	2.27	2.40	1.22	1.79	8.01	8.45	4.30	6.29	068-2006
04	3.45	3.67	1.82	2.83	12.2	12.9	6.40	9.97	068-2007
05	4.76	4.86	2.40	3.71	16.8	17.1	8.43	13.1	068-2008
06	5.60	5.82	2.87	4.42	19.7	20.5	10.1	15.6	068-2009



RFGD
Thermostatic Expansion Valve

RFGD series thermostatic expansion valves are used to adjust mass flow of refrigerant into the evaporator while controlling the refrigerant's superheat at the outlet of the evaporator. They can be used for various refrigerants under all working conditions.

Model Name									Temperature Range		
Refrigerant	Valve Body	Capacity Size All Sizes	Pipe connections Metric / Imperial	Inlet		Outlet		Pressure		-40 to +10°C	-25 to +10°C
				mm	inch	mm	inch	mm	inch	No MOP	MOP: +15°C
RFGD10											
R404A/R507	RFGD 03E-	1-	M10/16	10	-	16	-	6	-	STD	O.R.
		2-	M12/22	12	-	22	-	6	-		
		3-	M16/22	16	-	22	-	6	-		
		4-	3/5	-	3/8	-	5/8	-	1/4		
		5-	4/7	-	1/2	-	7/8	-	1/4		
		6-	5/7	-	5/8	-	7/8	-	1/4		
R134A	RFGD 04E-	1-	M10/16	10	-	16	-	6	-	STD	O.R.
		2-	M12/22	12	-	22	-	6	-		
		3-	M16/22	16	-	22	-	6	-		
		4-	3/5	-	3/8	-	5/8	-	1/4		
		5-	4/7	-	1/2	-	7/8	-	1/4		
		6-	5/7	-	5/8	-	7/8	-	1/4		
R410A	RFGD 05E-	1-	M10/16	10	-	16	-	6	-	STD	O.R.
		2-	M12/22	12	-	22	-	6	-		
		3-	M16/22	16	-	22	-	6	-		
		4-	3/5	-	3/8	-	5/8	-	1/4		
		5-	4/7	-	1/2	-	7/8	-	1/4		
		6-	5/7	-	5/8	-	7/8	-	1/4		
RFGD20											
R404A/R507	RFGD 03E-	7-	M16/22	16	-	22	-	6	-	STD	STD
		7-	M16/28	16	-	28	-	6	-		
		8-	M16/28	16	-	28	-	6	-		
		8-	M22/28	22	-	28	-	6	-		
		9-	M22/28	22	-	28	-	6	-		
		9-	M22/35	22	-	35	-	6	-		
		7-	5/7	-	5/8	-	7/8	-	1/4		
		7-	5/9	-	5/8	-	1-1/8	-	1/4		
		8-	5/9	-	5/8	-	1-1/8	-	1/4		
		8-	7/9	-	7/8	-	1-1/8	-	1/4		
		9-	7/9	-	7/8	-	1-1/8	-	1/4		
		9-	7/11	-	7/8	-	1-3/8	-	1/4		
R134A	RFGD 04E-	7-	M16/22	16	-	22	-	6	-	STD	STD
		7-	M16/28	16	-	28	-	6	-		
		8-	M16/28	16	-	28	-	6	-		
		8-	M22/28	22	-	28	-	6	-		
		9-	M22/28	22	-	28	-	6	-		
		9-	M22/35	22	-	35	-	6	-		
		7-	5/7	-	5/8	-	7/8	-	1/4		
		7-	5/9	-	5/8	-	1-1/8	-	1/4		
		8-	5/9	-	5/8	-	1-1/8	-	1/4		
		8-	7/9	-	7/8	-	1-1/8	-	1/4		
		9-	7/9	-	7/8	-	1-1/8	-	1/4		
		9-	7/11	-	7/8	-	1-3/8	-	1/4		
R410A	RFGD 05E-	7-	M16/22	16	-	22	-	6	-	STD	STD
		7-	M16/28	16	-	28	-	6	-		
		8-	M16/28	16	-	28	-	6	-		
		8-	M22/28	22	-	28	-	6	-		
		9-	M22/28	22	-	28	-	6	-		
		9-	M22/35	22	-	35	-	6	-		
		7-	5/7	-	5/8	-	7/8	-	1/4		
		7-	5/9	-	5/8	-	1-1/8	-	1/4		
		8-	5/9	-	5/8	-	1-1/8	-	1/4		
		8-	7/9	-	7/8	-	1-1/8	-	1/4		
		9-	7/9	-	7/8	-	1-1/8	-	1/4		
		9-	7/11	-	7/8	-	1-3/8	-	1/4		

Sensor, Control and Connector



Sensor



Pressure Switch



Single Pressure Switch



Dual Pressure Switch



Oil Differential Pressure Switch

- High pressure SPST open on pressure rise
- Low pressure SPST open on pressure fall

Model	Application	Open(Psi)	Close(Psi)	Tolerance
LPS0520	Low pressure automatic reset	5	20	± 5 PSI
LPS1020		10	20	± 5 PSI
LPS2550		25	50	± 5 PSI
LPS2580		25	80	± 5 PSI
LPS4080		40	80	± 5 PSI
HPS200150	High pressure automatic reset	200	150	± 15 PSI
HPS250150		250	150	± 15 PSI
HPS300200		300	200	± 15 PSI
HPS350250		350	250	± 15 PSI
HPS400200		400	200	± 15 PSI
HPS400300	High pressure manual reset	400	300	± 15 PSI
HPS450250		450	250	± 15 PSI
MPS350	High pressure manual reset	350	-	± 15 PSI
MPS450		450	-	± 15 PSI

The Single Pressure switches are used to control the pressure of compressor in refrigerant system, also available in air or water fluid. This series have quite stable performance with internal microswitch structure. Standard mounting bracket are provided.

Electrical Function			
Rated Amps.(A)\Rated Voltage(V)	125VAC	250VAC	24VDC
Full Load	20A	10A	8A
Locked Roter	72A	72A	64A
Temperature	-10~120°C		

Dual pressure switches are usually used with fluorinated refrigerants to control the pressure of compressor in refrigerant system. It can also be used in air and water. It provide two pressure set points in one switch.

Electrical Function				
Rated Amps.(A)\Rated Voltage(V)	125VAC	250VAC	24VDC	250VAC
Full Load	20A	10A	8A	50A
Locked Roter	72A	72A	64A	4A
Temperature	-20~110°C	-20~110°C	-20~110°C	-20~110°C

Oil differential pressure switches are pressure differential switches which normally used in water or oil fluid to control the pressure differential of the outlet tube and inlet tube. Bellowing is one of the typical application: install the valve in the pipeline which near the water(oil) pump, when the pressure differential of the two sides of the system increasing or decreasing and exceed the setting value, the valve will open. Then the system pressure differential will reach to the normal circulate. Both two sides of LF5D series have a high sensitive components, the switch will act to control the system of the equipment such as motor driven valve while the pressure differential changes.

Electrical Function				
Rated Amps.(A)\Rated Voltage(V)	125VAC	250VAC	24VDC	
Full Load	20A	10A	8A	
Locked Roter	72A	72A	64A	
Temperature	-20~110°C	-20~110°C	-20~110°C	



SG
Sight Glass

Model	Connection Size (Inch)	Connection Type
SG-1/4F	1/4	Flare to flare
SG-3/8F	3/8	Flare to flare
SG-1/2F	1/2	Flare to flare
SG-5/8F	5/8	Flare to flare
SG-1/4F-N	1/4	Flare to flare, with brass nut
SG-3/8F-N	3/8	Flare to flare, with brass nut
SG-1/2F-N	1/2	Flare to flare, with brass nut
SG-5/8F-N	5/8	Flare to flare, with brass nut
SG-1/4S	1/4	Solder to solder, extended copper tube
SG-3/8S	3/8	Solder to solder, extended copper tube
SG-1/2S	1/2	Solder to solder, extended copper tube
SG-5/8S	5/8	Solder to solder, extended copper tube

- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- 100% leakage tested.
- Solid brass construction.
- Large viewing window and indicator for better visibility.
- Available with extended solder (pure copper) and are (with brass nuts) connections.
- CE certified.



CP
Restrictor

The restrictor is mainly used in air-conditioning or heat pump system, the function is one direction flow restricting and the other direction flow pass. It replaces of the capillary flow restriction.

- Application: < 20P Model
- Tube size: 3/8", 1/2"
- Piston specification: 025-130
- Replace of piston according to the refrigerating capacity
- Valve body and piston materials are including of brass、copper and PTFE
- Working pressure: 750 psi
- Working temperature: -40 ~ +121°C



VAT
Vibration Absorber Tube

Model	Connection Size	Max. Working Pressure	Burst Pressure
	Inch	psig	psig
VAT-3/8	3/8	500	2500
VAT-1/2	1/2	500	2500
VAT-5/8	5/8	500	2500
VAT-3/4	3/4	500	2500
VAT-7/8	7/8	500	2500
VAT-1-1/8	1-1/8	500	2500
VAT-1-3/8	1-3/8	500	2500
VAT-1-5/8	1-5/8	500	2500
VAT-2-1/8	2-1/8	390	1950
VAT-2-5/8	2-5/8	340	1700
VAT-3-1/8	3-1/8	300	1500
VAT-3-5/8	3-5/8	175	525
VAT-4-1/8	4-1/8	175	525

- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- 100% leakage tested.
- Solder copper connections.
- CE certified.



UB
Connection U Bend

- Number: WJ-04U, WJ-06U, WJ-08U, WJ-10U

CNS
Connection sets

Type	Connection(in)	φmm+0.10	International Code
CNS-2	1/4"	6.45	US5-44
CNS-3	3/8"	9.65	US5-66
CNS-4	1/2"	12.8	US5-88
CNS-5	5/8"	16.0	US5-1010
CNS-6	3/4"	19.2	US5-1212
CNS-7	7/8"	22.45	US5-1414



Copper Fitting

Copper Fittings are made of high-purity copper material and manufactured in accordance with standard ASME/ANSI B 16.22 and EN 1254-1.

Copper Fitting



Coupling C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	8mm
3/8"	10mm
1/2"	12mm
5/8"	14mm
3/4"	16mm
7/8"	18mm
1"	22mm
1-1/8"	25mm
1-1/4"	28mm
1-3/8"	35mm
1-1/2"	42mm
1-5/8"	54mm
1-3/4"	64mm
2"	67mm
2-1/8"	76mm
2-5/8"	80mm



Coupling Reducing C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"×3/16"	10×8mm
3/8"×1/4"	12×8mm
3/8"×5/16"	12×10mm
1/2"×1/4"	15×8mm
1/2"×5/16"	15×10mm
1/2"×3/8"	15×12mm
5/8"×1/4"	16×10mm
5/8"×3/8"	16×12mm
5/8"×1/2"	16×15mm
3/4"×3/8"	18×10mm
3/4"×1/4"	18×12mm
3/4"×1/2"	18×15mm
3/4"×5/8"	22×10mm
7/8"×1/4"	22×12mm
7/8"×3/8"	22×15mm
7/8"×1/2"	22×16mm
7/8"×5/8"	22×18mm
7/8"×3/4"	28×15mm



90° Elbow Short Radius C ×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	8mm
5/16"	10mm
3/8"	12mm
1/2"	16mm
5/8"	18mm
3/4"	22mm
7/8"	25mm
1"	28mm
1-1/8"	32mm
1-1/4"	35mm
1-3/8"	42mm
1-1/2"	54mm
1-5/8"	64mm
1-3/4"	67mm
2-1/8"	76mm
2-5/8"	80mm



90° Elbow Short Radius FTG×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	8mm
3/8"	10mm
1/2"	12mm
5/8"	16mm
3/4"	18mm
7/8"	22mm
1"	25mm
1-1/8"	28mm
1-3/8"	35mm
1-1/2"	42mm
1-5/8"	54mm
1-3/4"	64mm
2-1/8"	67mm
2-5/8"	76mm



90° Elbow Short Radius Reducing C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
5/8"×1/2"	15×12mm
7/8"×5/8"	22×15mm
1-1/8"×5/8"	28×15mm
1-1/8"×7/8"	28×22mm
1-3/8"×7/8"	35×22mm
1-3/8"×1-1/8"	35×28mm
1-5/8"×1-1/8"	42×28mm
1-5/8"×1-3/8"	42×35mm
2-1/8"×1-1/8"	54×35mm
2-1/8"×1-3/8"	54×42mm



90° Elbow Long Radius C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	8mm
5/16"	10mm
3/8"	12mm
1/2"	16mm
5/8"	18mm
3/4"	22mm
7/8"	25mm
1"	28mm
1-1/8"	32mm
1-1/4"	35mm
1-3/8"	42mm
1-1/2"	54mm
1-5/8"	64mm
1-3/4"	67mm
2-1/8"	76mm
2-5/8"	80mm



90° Elbow Long Radius FTG×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	8mm
3/8"	10mm
1/2"	12mm
5/8"	15mm
3/4"	16mm
7/8"	18mm
1"	22mm
1-1/8"	28mm
1-3/8"	35mm
1-5/8"	42mm
2"	54mm
2-1/8"	67mm
2-5/8"	76mm



45° Elbow C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	12mm
5/16"	15mm
3/8"	16mm
1/2"	18mm
5/8"	22mm
3/4"	28mm
7/8"	35mm
1"	42mm
1-1/8"	54mm
1-3/8"	67mm
1-1/2"	76mm
1-5/8"	80mm
1-3/4"	89mm
2-1/8"	108mm
2-5/8"	133mm
3-1/8"	159mm



45° Elbow FTG×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	15mm
3/8"	18mm
1/2"	22mm
5/8"	28mm
3/4"	35mm
7/8"	42mm
1"	54mm
1-1/8"	64mm
1-3/8"	67mm
1-5/8"	76mm
2-1/8"	80mm
2-5/8"	89mm
3-1/8"	108mm



Tee Equal C×C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	8mm
3/8"	10mm
1/2"	12mm
5/8"	14mm
3/4"	16mm
7/8"	18mm
1"	22mm
1-1/8"	25mm
1-1/4"	28mm
1-3/8"	35mm
1-1/2"	42mm
1-5/8"	54mm
1-3/4"	64mm
2"	67mm
2-1/8"	76mm
2-5/8"	80mm



Tee Reducing C×C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
5/16"×5/16"×1/4"	8×8×6mm
3/8"×3/8"×1/4"	15×15×8mm
3/8"×3/8"×5/16"	15×15×10mm
3/8"×3/8"×1/2"	15×15×12mm
3/8"×3/8"×5/8"	18×18×15mm
1/2"×3/8"×1/4"	22×22×15mm
1/2"×1/2"×3/16"	22×22×18mm
1/2"×1/2"×1/4"	28×28×15mm
1/2"×1/2"×3/8"	28×28×18mm
1/2"×1/2"×5/8"	28×28×22mm
5/8"×3/8"×1/2"	35×35×18mm
5/8"×1/2"×1/2"	35×35×22mm
5/8"×5/8"×1/4"	35×35×28mm
5/8"×5/8"×3/8"	42×42×15mm
5/8"×5/8"×1/2"	42×42×22mm
5/8"×5/8"×3/4"	42×42×28mm
5/8"×5/8"×7/8"	42×42×35mm
3/4"×5/8"×5/8"	54×54×22mm
3/4"×5/8"×3/4"	54×54×28mm
3/4"×3/4"×3/16"	54×54×35mm
3/4"×3/4"×1/4"	54×54×42mm
3/4"×3/4"×3/8"	67×67×28mm
3/4"×3/4"×1/2"	67×67×35mm
3/4"×3/4"×5/8"	67×67×42mm
3/4"×3/4"×7/8"	67×67×54mm



Cross C×C×C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
5/8"	15mm
3/4"	18mm
7/8"	22mm
1-1/8"	28mm
1-3/8"	35mm
1-5/8"	42mm
2-1/8"	54mm



Return Bend C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"×1"	8×24mm
3/8"×1-1/2"	10×30mm
3/8"×4-1/2"	12×36mm
1/2"×1-1/2"	14×45mm
1/2"×3"	15×45mm
5/8"×1-7/8"	16×48mm
5/8"×2"	18×54mm
5/8"×2-1/4"	22×66mm
3/4"×2-1/2"	28×84mm
7/8"×2-1/2"	35×140mm
1-3/8"×3"	42×168mm
1-3/8"×3-1/4"	54×216mm
1-3/8"×4"	64×154mm
1-5/8"×3-1/2"	70×210mm
1-5/8"×4-1/2"	76×183mm
1-1/2"×1-1/4"	80×240mm
1-1/2"×1-1/8"	89×213mm
2-1/8"×5-1/2"	108×259mm



Cap

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	8mm
3/8"	10mm
1/2"	12mm
5/8"	15mm
3/4"	18mm
7/8"	22mm
1-1/8"	28mm
1-3/8"	35mm
1-5/8"	42mm
2-1/8"	54mm
2-5/8"	67mm
3-1/8"	76mm
3-5/8"	89mm
4-1/8"	108mm



Adapter Male C×MPT

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	8mm
3/8"	10mm
1/2"	12mm
3/4"	18mm
7/8"	22mm
1-1/8"	28mm
1-3/8"	35mm
1-5/8"	42mm
2-1/8"	54mm
2-5/8"	67mm
3-1/8"	76mm
4-1/8"	108mm



Adapter Female C×FPT

Size	
ASME/ANSI B 16.22	EN 1254-1
1/4"	8mm
3/8"	10mm
1/2"	12mm
3/4"	18mm
7/8"	22mm
1-1/8"	28mm
1-3/8"	35mm
1-5/8"	42mm
2-1/8"	54mm
2-5/8"	67mm
3-1/8"	76mm
4-1/8"	108mm



P-Trap C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
1/2"	22mm
5/8"	28mm
3/4"	35mm
7/8"	42mm
1-1/8"	64mm
1-3/8"	67mm
1-5/8"	76mm
2-1/8"	80mm
2-5/8"	89mm



Cross-Over Coupling C×C

Size	
ASME/ANSI B 16.22	EN 1254-1
5/8"	22mm
7/8"	28mm
1-1/8"	35mm



Brass Fittings

Brass Fittings can be used in a quick and easy way during the connecting work, generally comply with SAE, ASME, ASA EN378-2 standard.

Brass Fittings



Short Nut

Item No.	Size
SN-1/4	1/4" F. SAE × ϕ 1/4" O.D.
SN-5/16	5/16" F. SAE × ϕ 5/16" O.D.
SN-3/8	3/8" F. SAE × ϕ 3/8" O.D.
SN-1/2	1/2" F. SAE × ϕ 1/2" O.D.
SN-5/8	5/8" F. SAE × ϕ 5/8" O.D.
SN-3/4	3/4" F. SAE × ϕ 3/4" O.D.



Cap Nut

Item No.	Size
CN-1/4	1/4" F. SAE × ϕ 1/4" O.D.
CN-5/16	5/16" F. SAE × ϕ 5/16" O.D.
CN-3/8	3/8" F. SAE × ϕ 3/8" O.D.
CN-1/2	1/2" F. SAE × ϕ 1/2" O.D.
CN-5/8	5/8" F. SAE × ϕ 5/8" O.D.
CN-3/4	3/4" F. SAE × ϕ 3/4" O.D.



Forged Nut

Item No.	Size
FN-1/4	1/4" F. SAE × ϕ 1/4" O.D.
FN-3/8	3/8" F. SAE × ϕ 3/8" O.D.
FN-1/2	1/2" F. SAE × ϕ 1/2" O.D.
FN-5/8	5/8" F. SAE × ϕ 5/8" O.D.
FN-3/4	3/4" F. SAE × ϕ 3/4" O.D.



Union

Item No.	Size
U-1/4	1/4" M. SAE × 1/4" M. SAE
U-5/16	5/16" M. SAE × 5/16" M. SAE
U-3/8	3/8" M. SAE × 3/8" M. SAE
U-1/2	1/2" M. SAE × 1/2" M. SAE
U-5/8	5/8" M. SAE × 5/8" M. SAE
U-3/4	3/4" M. SAE × 3/4" M. SAE



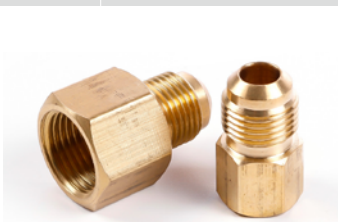
Reducing Union

Item No.	Size
RU-3/8-1/4	3/8" M. SAE × 1/4" M. SAE
RU-1/2-1/4	1/2" M. SAE × 1/4" M. SAE
RU-1/2-3/8	1/2" M. SAE × 3/8" M. SAE
RU-5/8-3/8	5/8" M. SAE × 3/8" M. SAE
RU-5/8-1/2	5/8" M. SAE × 1/2" M. SAE
RU-3/4-1/2	3/4" M. SAE × 1/2" M. SAE
RU-3/4-5/8	3/4" M. SAE × 5/8" M. SAE



Union Tee

Item No.	Size
UT-1/4	1/4" M. SAE
UT-3/8	3/8" M. SAE
UT-1/2	1/2" M. SAE
UT-5/8	5/8" M. SAE
UT-3/4	3/4" M. SAE



Adapter

Item No.	Size
AD-1/4-1/8	1/4" M. SAE × 1/8" M. SAE
AD-1/4-1/4	1/4" M. SAE × 1/4" M. SAE
AD-1/4-3/8	1/4" M. SAE × 3/8" M. SAE
AD-3/8-1/8	3/8" M. SAE × 1/8" M. SAE
AD-3/8-1/4	3/8" M. SAE × 1/4" M. SAE
AD-3/8-1/2	3/8" M. SAE × 1/2" M. SAE
AD-1/2-1/4	1/2" M. SAE × 1/4" M. SAE
AD-1/2-3/8	1/2" M. SAE × 3/8" M. SAE



Liquid Distributor

Item No.	Inlet Tube Diameter	Distributors Diameter
LD-3	9.52	3.9x3
LD-4	9.52	2.7x4
LD-5	15.88	6.35x5
LD-6	9.52	3x6
LD-7	15.88	4.8x7
LD-8	9.52	2.9x8
LD-9	15.88	6.35x9
LD-10	15.88	6.35x10
LD-12	15.88	6.35x12

Access Valve



SU

Access Valve

Model	Extended Copper Tube Size	Remark
SU-1/8	1/8" ODF Solder	All access valves come with 1/4" SAE male flare, equipped with valve core & brass caps (with core remover).
SU-3/16	3/16" ODF Solder	
SU-1/4	1/4" ODF Solder	
SU-5/16	5/16" ODF Solder	
SU-3/8	3/8" ODF Solder	



Spare Valve Core

- Material:
- Valve body / cap: solid brass
 - Extended copper tube: Cu-DHP
 - Compatible with all refrigerants



Valve Core Remover



The copper filter driers are designed to absorb moisture and acid, and to filter out impurities. Normally be installed as component and replaced as repair part for both domestic and commercial refrigerators, freezers.

Copper Filter Drier, Strainer, Accumulator



FD-A
Copper Filter Drier

- Material:
- Body shell: Cu-DHP
 - Molecular sieves: 100% XH-9
 - Screen: 200 mesh
- Wall Thickness:
- 5 – 20g: 0.40mm
 - > 20g: 0.50mm

Specification-Standard

Model	Molecular Sieves	Body diameter	Overall length	Screen Depth
	+5%, -0%	±0.10mm	±2mm	±2mm
FD-A05	5g	16	80	24
FD-A07	7g	16	90	24
FD-A10A	10g	16	115	24
FD-A10B	10g	19	100	26
FD-A12	12g	19	105	26
FD-A13	13g	19	110	26
FD-A15	15g	19	115	26
FD-A18	18g	19	128	26
FD-A20A	20g	19	141	26
FD-A20B	20g	24	120	28
FD-A25	25g	24	125	28
FD-A30	30g	24	140	28
FD-A35	35g	24	155	28
FD-A40	40g	24	170	28
FD-A50	50g	29	160	30



FD-B
Copper Filter Drier

- Material:
- Body shell: Cu-DHP
 - Molecular sieves: 100% XH-9
 - Screen: 200 mesh
- Wall Thickness:
- 5 – 20g: 0.40mm
 - > 20g: 0.50mm



FD-C
Copper Filter Drier

- Material:
- Body shell: Cu-DHP
 - Molecular sieves: 100% XH-9
 - Screen: 200 mesh
- Wall Thickness:
- 5 – 20g: 0.40mm
 - > 20g: 0.50mm



Specification-Welded Extension Capillary

Model	Molecular Sieves	Body diameter	Overall length	Screen Depth
	+5%, -0%	±0.10mm	±2mm	±2mm
FD-B05	5g	16	80	24
FD-B07	7g	16	90	24
FD-B10A	10g	16	115	24
FD-B10B	10g	19	100	26
FD-B12	12g	19	105	26
FD-B13	13g	19	110	26
FD-B15	15g	19	115	26
FD-B18	18g	19	128	26
FD-B20A	20g	19	141	26
FD-B20B	20g	24	120	28
FD-B25	25g	24	125	28
FD-B30	30g	24	140	28
FD-B35	35g	24	155	28
FD-B40	40g	24	170	28
FD-B50	50g	29	160	30

Specification-Welded Extension Capillary 2 inlets (with access valve) + 1 outlet

Model	Molecular Sieves	Body diameter	Overall length	Screen Depth
	+5%, -0%	±0.10mm	±2mm	±2mm
FD-C05	5g	16	80	24
FD-C07	7g	16	90	24
FD-C10A	10g	16	115	24
FD-C10B	10g	19	100	26
FD-C12	12g	19	105	26
FD-C13	13g	19	110	26
FD-C15	15g	19	115	26
FD-C18	18g	19	128	26
FD-C20A	20g	19	141	26
FD-C20B	20g	24	120	28
FD-C25	25g	24	125	28
FD-C30	30g	24	140	28
FD-C35	35g	24	155	28
FD-C40	40g	24	170	28
FD-C50	50g	29	160	30

Strainer

The copper strainers are specially designed with oversized screen for protecting, filtering air conditioning or dehumidifying system from dirt and contaminant.

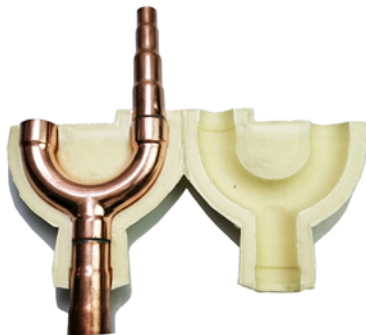
- | | | |
|----------------------|-----------------------|--|
| Material: | Wall Thickness: | Inlet / Outlet: |
| • Body shell: Cu-DHP | • > 0.45mm on request | • On request, available with 1, 2, 3 and 4 outlets |
| • Screen: 200 mesh | | |

Accumulator

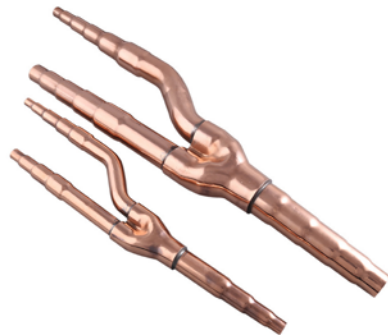
The copper accumulators are widely used for liquid storage, liquid/gas separation, impurity filtering, noise reduction and refrigerant cushion.

- | | |
|----------------------|--------------|
| Material: | Dimension: |
| • Body shell: Cu-DHP | • On request |

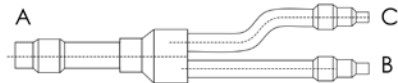
Branch Pipe



U Series
Universal VRF Branch Pipe



Y Series
Universal VRF Branch Pipe



U Series Universal VRF Refnet Joint

Model	U1			U2			U3			U4		
	Gas	Liquid	Reducers	Gas	Liquid	Reducers	Gas	Liquid	Reducers	Gas	Liquid	Reducers
A	12.7/15.9/19.1	9.6/12.7	5pcs	19.1/22.2	9.52/12.7/15.88	5pcs	22.2/28.6	12.7/15.9	10pcs	41.2	15.9/19.1/22.2	6pcs
B	12.7/15.9/19.1	6.4/9.6	5pcs	15.88/19.1/22.2	6.35/9.52/12.7	5pcs	19.1/22.2/28.6	9.52/12.7/15.9	10pcs	28.6/34.9/41.3	15.88/19.1/22.2	6pcs
C	9.6/12.7/15.9	6.4/9.6	5pcs	12.7/15.88/19.1	12.7/15.88/19.1	5pcs	15.9/19.1/22.2	9.52/12.7/15.9	10pcs	22.2/28.6/35	12.7/15.88/19.1	6pcs

Y Series Universal VRF Refnet Joint

Model	Y1		Y2		Y3	
	Gas	Liquid	Gas	Liquid	Gas	Liquid
A	12.7/15.88/19.05/22.23	9.52/12.7/15.88	22.23/25.4/28.58/31.75	9.52/12.7/15.88/19.05	34.93/38.1/41.28/44.45/53.98	15.88/19.05/22.23/25.4
B	9.52/12.7/15.88/19.05/22.23	6.35/9.52/12.7/15.88	19.05/22.23/25.4/28.58/31.75	9.52/12.7/15.88/19.05	25.4/28.58/34.93/38.1/41.28	9.52/12.7/15.88/19.05/22.23
C	12.7/15.88/19.05	6.35/9.52/12.7/15.88	9.52/12.7/15.88/19.05/25.4/31.75	6.35/9.52/12.7/15.88/19.05	19.05/22.23/25.4/28.58/34.93/41.28	12.7/15.88/19.05



CT
Capillary Tube

The capillary tubes are equipped with brass nuts. Widely used to connect pressure-switches, gauges and other control devices in refrigeration systems.

- Capillary:
- Diameter outside: 1/8" (3.0 mm)
 - Thickness: 0.5 mm

- Connection:
- 2 brass nuts 1/4" SAE

Model	Inner Dia.	Outer Dia.	Min. Bend Radius	Working Pressure		Working Temperature	
	mm	mm	mm	MPa	psi	min. °C	max. °C
CT-01	2.6	5.8	15	19.6	2843	-40	+130
CT-02	5.0	10.0	20	9.8	1421	-40	+130
CT-03	8.2	13.5	30	9.8	1421	-40	+130
CT-04	11.2	16.2	40	9.8	1421	-40	+130
CT-05	14.3	20.0	50	9.8	1421	-40	+130
CT-06	17.3	24.0	50	9.8	1421	-40	+130

Capacitor



Capacitor

For motor run, starting applications TUV, UL, CE approved Build in reliable explosion-proof device, metalized polypropylene film, high capacity of self-healing.



CBB65R-1

For motor run applications

- Aluminum round cylinder
- Operating temperature: -40 °C to + 70°C
- Rated frequency: 50/60Hz

Specification - CBB65R-1

Capacitance μF	Dimension-Diameter × Height (mm)	
	370VAC - 400VAC	440VAC - 450VAC
7.5	45 × 55	45 × 55
10	45 × 55	45 × 55
15	45 × 65	45 × 65
20	45 × 65	45 × 65
25	45 × 85	45 × 85
30	45 × 85	45 × 90
35	45 × 105	45 × 105
40	45 × 105	50 × 105
45	45 × 105	50 × 105
50	50 × 105	55 × 105
55	50 × 105	55 × 105
60	55 × 105	55 × 105
65	55 × 105	55 × 120
70	55 × 105	55 × 120
80	60 × 105	55 × 130



CBB65O-1

For motor run applications

- Aluminum oval cylinder
- Operating temperature: -40 °C to + 70°C
- Rated frequency: 50/60Hz

Specification - CBB65O-1

Capacitance μF	Dimension - Width × Thickness × Height (mm)	
	370VAC - 400VAC	440VAC - 450VAC
4	31.5 × 51 × 55	31.5 × 51 × 55
5	31.5 × 51 × 55	31.5 × 51 × 55
7.5	31.5 × 51 × 55	31.5 × 51 × 65
10	31.5 × 51 × 65	31.5 × 51 × 65
12.5	31.5 × 51 × 65	31.5 × 51 × 85
15	31.5 × 51 × 85	31.5 × 51 × 85
20	45 × 71 × 65	45 × 71 × 65
25	45 × 71 × 65	45 × 71 × 85
30	45 × 71 × 85	45 × 71 × 85
35	45 × 71 × 85	45 × 71 × 85
40	45 × 71 × 85	45 × 71 × 105
45	45 × 71 × 105	45 × 71 × 105
50	45 × 71 × 105	45 × 71 × 105
55	45 × 71 × 105	45 × 71 × 115
60	45 × 71 × 115	45 × 71 × 115
65	45 × 71 × 120	45 × 71 × 130
70	45 × 71 × 120	45 × 71 × 130



CBB65R-2

For motor run applications

- Aluminum round cylinder
- Operating temperature: -40 °C to + 70°C
- Rated frequency: 50/60Hz



CBB65O-2

For motor run applications

- Aluminum oval cylinder
- Operating temperature: -40 °C to + 70°C
- Rated frequency: 50/60Hz



CBB60

For motor run applications

- Flame retardant plastic (bakelite on request) case
- Operating temperature: -40 °C to + 70°C
- Rated frequency: 50/60Hz
- Pin or wire outlet

Specification - CBB65R-2

Capacitance μF	Dimension-Diameter × Height (mm)	
	370VAC - 400VAC	440VAC - 450VAC
20+5	50 × 65	50 × 85
25+5	50 × 85	50 × 85
30+5	50 × 85	50 × 90
35+5	50 × 85	50 × 105
40+5	50 × 90	50 × 105
45+5	50 × 105	55 × 105
50+5	50 × 105	55 × 105
50+7.5	50 × 105	55 × 105
55+5	55 × 105	55 × 105
55+7.5	55 × 105	60 × 105
55+10	55 × 105	60 × 105
60+5	55 × 105	60 × 105
60+7.5	55 × 105	60 × 105
80+5	60 × 105	60 × 120
80+7.5	60 × 105	60 × 120
80+10	60 × 105	60 × 120

Specification - CBB65O-2

Capacitance μF	Dimension - Width × Thickness × Height (mm)	
	370VAC - 400VAC	440VAC - 450VAC
10+5	45 × 71 × 55	45 × 71 × 65
20+5	45 × 71 × 65	45 × 71 × 85
25+5	45 × 71 × 85	45 × 71 × 85
25+10	45 × 71 × 85	45 × 71 × 90
30+5	45 × 71 × 85	45 × 71 × 105
35+5	45 × 71 × 105	45 × 71 × 105
35+7.5	45 × 71 × 105	45 × 71 × 105
40+5	45 × 71 × 105	45 × 71 × 105
45+5	45 × 71 × 105	45 × 71 × 130
55+5	45 × 71 × 115	45 × 71 × 130

Specification - CBB60

Capacitance μF	Dimension-Diameter × Height (mm)	
	370VAC - 400VAC	440VAC - 450VAC
3	25 × 60	25 × 60
6	25 × 60	30 × 60
8	30 × 60	34 × 52
10	30 × 60	34 × 52
12	30 × 60	34 × 62
15	34 × 52	35 × 71
16	34 × 52	35 × 71
18	34 × 52	40 × 71
20	34 × 52	40 × 71
25	34 × 62	45 × 71
30	40 × 71	45 × 71
35	40 × 71	45 × 92
40	40 × 71	50 × 92
50	42 × 70	50 × 102
60	45 × 71	50 × 120
65	45 × 71	50 × 120
70	50 × 85	55 × 120
75	50 × 85	55 × 120
80	50 × 92	55 × 120
100	50 × 102	
120	50 × 120	



CBB61

For motor run applications

- Flame retardant plastic (bakelite on request) case
- Operating temperature: -40 °C to + 70°C
- Rated frequency: 50/60Hz
- Pin or wire outlet



SPP

For motor starting applications

Specification - CBB61

Capacitance μF	Dimension - Width × Thickness × Height (mm)	
	370VAC - 400VAC	450VAC
1	32 × 14 × 25	32 × 14 × 25
1.2	32 × 14 × 25	32 × 14 × 25
1.5	38 × 14 × 26	38 × 14 × 26
2	38 × 14 × 26	38 × 14 × 26
2.5	38 × 18 × 30	38 × 18 × 30
3	38 × 18 × 30	38 × 18 × 30
3.5	38 × 18 × 30	38 × 18 × 30
4	48 × 18 × 34	48 × 18 × 34
5	48 × 18 × 34	48 × 18 × 34
6	48 × 18 × 34	48 × 18 × 34
8	47 × 36 × 38	47 × 36 × 38
10	47 × 36 × 38	47 × 36 × 38
20	62.5 × 28 × 45	62.5 × 28 × 45

- SPP series A/C start electrolytic capacitor with PTC thermistor.
- Completely pre-wired
- Rated frequency: 50/60Hz

SPP series Start Capacitors

Model	Recommended Horsepower	Operating Voltage	Capacitance
		VAC	μF
SPP4	1/8 - 1	90-130	88-106
SPP5	1/3 - 2	90-227	43-52
SPP6	1/2 - 3	90-227	88-106
SPP7	1 - 4	90-227	130-156

Specification - CD60

Capacitance μF	Dimension-Diameter × Height (mm)		
	110VAC	220VAC	330VAC
88-106	36 × 70	36 × 85	46 × 85
108-130	36 × 70	36 × 85	46 × 85
124-149	36 × 70	46 × 85	46 × 85
130-156	36 × 70	46 × 85	46 × 85
145-174	36 × 70	46 × 85	46 × 85
161-193	36 × 70	46 × 85	46 × 85
189-227	36 × 70	46 × 85	46 × 111
216-259	36 × 70	46 × 85	46 × 111
233-280	36 × 70	46 × 85	46 × 111
243-292	36 × 70	46 × 85	46 × 111
270-324	36 × 70	46 × 85	46 × 111
324-389	36 × 70	46 × 111	46 × 111
340-408	36 × 70	46 × 111	46 × 111
378-454	36 × 85	46 × 111	46 × 111
400-480	36 × 85	46 × 111	
430-516	36 × 85	46 × 111	

CD60

For motor starting applications

- Flame retardant plastic (bakelite on request) case
- Operating temperature: -40 °C to + 65°C
- Rated frequency: 50/60Hz

Aluminum Electrolytic Capacitor



470μF × 10v

Specification	
Colour	Green and Gold
Reverse Capacitance	470μf
Rated Working Voltage	10v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	6mmx12mm
Dissipation Factor	0.2



470μF × 16v

Specification	
Colour	Green and Gold
Reverse Capacitance	470μf
Rated Working Voltage	16v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	8mmx12mm
Dissipation Factor	0.16



470μF × 25v

Specification	
Colour	Green and Gold
Reverse Capacitance	470μf
Rated Working Voltage	25v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	8mmx12mm
Dissipation Factor	0.14



1000μF × 6.3v

Specification	
Colour	Green and Gold
Reverse Capacitance	1000μf
Rated Working Voltage	6.3v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	8mmx12mm
Dissipation Factor	0.24



1000μF × 10v

Specification	
Colour	Green and Gold
Reverse Capacitance	1000μf
Rated Working Voltage	10v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	8mmx12mm
Dissipation Factor	0.2



1000μF × 16v

Specification	
Colour	Green and Gold
Reverse Capacitance	1000μf
Rated Working Voltage	16v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	10mmx17mm
Dissipation Factor	0.16



1000μF × 25v

Specification	
Colour	Green and Gold
Reverse Capacitance	1000μf
Rated Working Voltage	25v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	10mmx20mm
Dissipation Factor	0.14



2200μF × 6.3v

Specification	
Colour	Green and Gold
Reverse Capacitance	2200μf
Rated Working Voltage	6.3v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	10mmx20mm
Dissipation Factor	0.24



2200μF × 10v

Specification	
Colour	Green and Gold
Reverse Capacitance	2200μf
Rated Working Voltage	10v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	10mmx17mm
Dissipation Factor	0.2



2200μF × 16v

Specification	
Colour	Green and Gold
Reverse Capacitance	2200μf
Rated Working Voltage	16v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	10mmx20mm
Dissipation Factor	0.16



2200μF × 25v

Specification	
Colour	Green and Gold
Reverse Capacitance	2200μf
Rated Working Voltage	25v
Operating Temperature Range	-40 °C ~ +105 °C
Durability (105 °C)	2000h
Rating Amperes	250mA
Size	13mmx21mm
Dissipation Factor	0.14

Contactor



Definite purpose contactors with TUV, UL, CE and RoHS approvals.

Initial dielectric strength

- Between contactors & coils: 2200 VAC
- Between poles: 2200 VAC
- Between open contacts: 2200 VAC

Insulation system

- 130°C class B

Temperature range

- -40°C to +65°C (-40°F to +150°F)

Electrical Rating for 1 & 2 Pole (20-40 FLA)

Full Load Amps	Resistive Amps @ 600 VAC	Locked Rotor Amps @ 240/277 VAC	Locked Rotor Amps @ 480 VAC	Locked Rotor Amps @ 600 VAC	Max. Horsepower		
					Voltage	Single Phase	Three Phase
1 Pole Contactor (20-40 FLA) & 2 Pole Contactor (20-40 FLA)							
20	30	120	100	80	120 240	1 2	-
25	35	150	125	100	120 240	1 2	-
30	40	150	125	100	120 240	1 2	-
40	50	240	200	160	120 240	1 2	-

Electrical Rating for 3 & 4 Pole (20-40 FLA)

Full Load Amps	Resistive Amps @ 600 VAC	Locked Rotor Amps @ 240/277 VAC	Locked Rotor Amps @ 480 VAC	Locked Rotor Amps @ 600 VAC	Max. Horsepower		
					Voltage	Single Phase	Three Phase
3 Pole Contactor (20-40 FLA)							
20	30	120	100	80	120	1.5	-
					240/277	3	7.5
					480/600	-	7.5
25	35	150	125	100	120	2	-
					240/277	5	10
					480	-	15
					600	-	20
30	40	180	150	120	120	2	-
					240/277	5	10
					480	-	15
					600	-	20
40	50	240	200	160	120	3	-
					240/277	7.5	10
					480	-	15
					600	-	20
4 Pole Contactor (20-40 FLA)							
30	40	180	150	120	120	2	-
					240/277	5	10
					480/600	-	15
40	50	240	200	160	120	3	-
					240/277	7.5	10
					480/600	-	20

Electrical Rating for 3 Pole (50-90 FLA)

Full Load Amps	Resistive Amps @ 600 VAC	Locked Rotor Amps @ 240/277 VAC	Locked Rotor Amps @ 480 VAC	Locked Rotor Amps @ 600 VAC	Max. Horsepower		
					Voltage	Single Phase	Three Phase
3 Pole Contactor (50-90 FLA)							
50	65	300	250	200	120	3	-
					240/277	10	15
					480/600	-	25
60	75	360	300	240	120	5	-
					240/277	10	25
					480/600	-	30
75	93	450	375	300	120	-	-
					240/277	15	25
					480/600	-	40
90	120	540	450	360	120	-	-
					240/277	20	30
					480/600	-	50



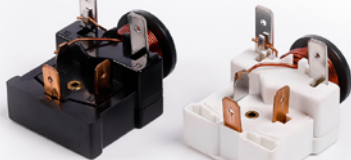
Relay, Overload Protector



RP

Starting Relay

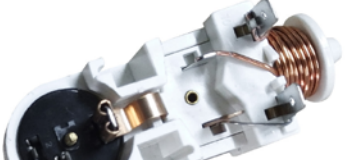
For 1/8HP, 1/6HP, 1/5HP, 1/4HP, 1/3HP, 1/2HP compressor



SF

Starting Relay

For 1/8HP, 1/6HP, 1/5HP, 1/4HP, 1/3HP, 1/2HP compressor



SG

Starting Relay

For 1/8HP, 1/6HP, 1/5HP, 1/4HP, 1/3HP, 1/2HP compressor



SH

Starting Relay

For 1/8HP, 1/6HP, 1/5HP, 1/4HP, 1/3HP, 1/2HP compressor



PTC

Starting Relay



QD

PTC

Overload Protector

For 1/8HP, 1/6HP, 1/5HP, 1/4HP, 1/3HP, 1/2HP compressor

Voltage	Item No	Refrigerator QD/PTC protector current	Voltage	Item No	Refrigerator QD/PTC protector current
220V	1/2HP	12.0A	110V	1/2HP	22.0A
	1/3HP	10.0A		1/3HP	18.0A
	1/4HP	8.0A		1/4HP	15.0A
	1/5HP	7.0A		1/5HP	12.0A
	1/6HP	6.0A		1/6HP	10.0A
	1/8HP	5.0A		1/8HP	8.0A

Refrigeration and Air
Conditioning Parts



PR
2-Pole Switching Relay

Model	Coil Voltage
PR340	24V
PR341	110/240V
PR342	208/240V

Contact Rating

Voltage	120V	208/240V
Full Load Amps	12	6
Resistive Amps (277 VZC)	15	15
Inrush Amps	60	35
Horsepower	1/2	1/2



FR
Fan Relay

Model	Description	Amps RES	FLA/LRA @ 125V	FLA/LRA @ 250V	Coil Voltage VAC
FR-360	SPST-NO	18	12/60	8/48	24
FR-362	SPST-NO	18	12/60	8/48	120
FR-364	SPST-NO	18	12/60	8/48	240
FR-366	SPST-NO	18	12/60	8/48	277
FR-370	SPDT	18	12/60	8/48	24
FR-372	SPDT	18	12/60	8/48	120
FR-374	SPDT	18	12/60	8/48	240
FR-376	SPDT	18	12/60	8/48	277
FR-380	SPST-NO+NC	18	12/60	8/48	24
FR-382	SPST-NO+NC	18	12/60	8/48	120
FR-384	SPST-NO+NC	18	12/60	8/48	240

Refrigerator Door Switch



JHZ-1
0.5A 250VAC 2PINS



JHZ-2
0.5A 250VAC 3PINS



JHZ-3
0.5A 250VAC 4PINS



JHZ-5
0.5A 250VAC 3PINS



JHZ-6
0.5A 250VAC 2PINS



JHZ-7
0.5A 250VAC 2PINS

Defrost Timer



TMD-E
Defrost Timer



TMD-F
Defrost Timer



TMD-J
Defrost Timer



TMD-C
Defrost Timer



TMD-D
Defrost Timer



QD-068
Defrost Timer

Power Transformer



INPUT: 120V/208V/240V
OUTPUT: 24V/40W
Could be customized

Thermostat

KSD301B
Frost Removal Thermostat



- Defrost Temperature Control with UL, TUV
- Electrical Ratings: AC125V 5A 15A; AC250V 5A 10A 25A
- Working Temperature Range: -30°C~80°C (-22°F~176°F)
- Diff Temp: Min 5°C Standard 15~25°C
- Tolerance: Min±3°C Standard±5°C

KSD301B2
Frost Removal Thermostat
with Blister Package



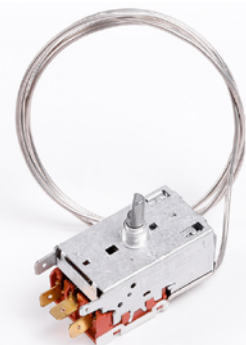
- Defrost Temperature Control with UL, TUV
- Electrical Ratings: AC125V 15A 5A; AC250V 10A 5A 16A
- Working Temperature Range: -30°C~80°C (-22°F~176°F)
- Diff Temp: Min 5°C Standard 15~25°C
- Tolerance: Min±2°C Standard±5°C

F2000 / A2000
Thermostat



- Control Temperature Range
- Rated at 16A / 250V 50/60Hz

Model	Cold		Warm		Capillary Length
	Off	Difference	Off	Difference	
F2000	-35 C	≤4.5 C	+35 C	≤4.5 C	1750mm
A2000	-35 C	≤4.5 C	+35 C	≤4.5 C	120mm



Thermostat

The cycling thermostats with SPST close – on – rise switch are widely used in refrigerators, freezers, air conditioning units, etc.

- Application range between -40 °C to +10 °C.
- Compact design.
- Adjustable or Fixed operating range.
- Fixed differential.
- Standard mounting or with bracket.
- Capillary length available from 300 to 3000 mm.

Model	Temperature Value °C		Capillary Length mm
	Cold	Warm	
K50-P1110	-14.5	+2	1200
K50-P1174	-14.5	+3.5	2000
K50-P1118	+2	+12.5	1200
K50-P1125	-9.5	+9.5	1200
K50-P1126	-18	-9.5	1200
K50-P1127	+5	+12.5	1200
K50-H1104	-22.5	+2	1200
K50-H1105	-18	+3.5	1200
K50-H1106	-32	-12	2000
K50-H1107	-3	+12.5	2000
K60-L2024	-19	-1	1600
K60-L2025	-31	-5	1500
K54-H1404	-34	-12	2000
K59-H1303	-21	+4.5	2000
K59-H2805	-28	+5	1500
077B7001	-25	+2	1300
077B7005	-32.5	-7.5	2300
077B7008	-8.5	+11.5	2000
077B7002	-21	0	1300
077B7003	-27.5	+3.5	1600
077B7004	-11	+3.5	1500
077B7006	-34.5	-10	2300
077B7007	-35.5	-10	2300

Refrigeration
Chemicals

Copper Tube

ACR Compressor

Heat Exchanger,
Condensing Unit,
Condenser, Evaporator

Refrigeration and Air
Conditioning Parts

ACR Service and
Maintenance Products

Fan and Motor

Air Curtain,
Air Conditioner,
Cold Storage

Room Thermostat for Central Air Conditioner



SLN-1

- ON-OFF switch
- 3-speed switch
- Temperature deviation: $\leq 1^{\circ}\text{C}$ at 25°C
- Work voltage: 220V~240V/AC, 2A, 50/60Hz
- Ambient temperature: $-20^{\circ}\text{C}\sim 55^{\circ}\text{C}$
- Electric valve is controlled by thermostat



SLN-2

- ON-OFF switch
- 3-speed switch
- Temperature adjustment range: $5^{\circ}\text{C}\sim 30^{\circ}\text{C}$
- Temperature deviation: $\leq 1^{\circ}\text{C}$ at 25°C
- Work voltage: 220V~240V/AC, 2A, 50/60Hz
- Ambient temperature: $-20^{\circ}\text{C}\sim 55^{\circ}\text{C}$
- Electric valve is controlled by thermostat



SLN-3

- Application: control of central air conditioner or heating appliance for room temperature
- Temperature control range: $10^{\circ}\text{C}\sim 30^{\circ}\text{C}$
- Work voltage: 220V/50Hz
- Max load: 10A
- Sensor type: gas filled siphon
- Without on/off switch, with LED power indicator

Digital Room Thermostat



STN701

- Single Stage Non-programmable
- 1 Heat, 1 Cool
- White/Blue/Green backlight
- Electric or Gas configurable
- Separate B & O terminals
- Separate heating and cooling swing (cycle rate) adjustments
- Room temperature calibration adjustment
- 5 minute compressor delay protection (selectable on or off)
- Battery or 24V power



STN715

- Multi Stage 7 Day, 5/1/1 or Non-Programmable
- 2 Heat, 2 Cool
- White/Blue/Green backlight
- Easy menu driven programming
- Intuitive wake, leave, return, sleep programming icons
- Electric or Gas configurable
- Separate B & O terminals
- Separate heating and cooling swing (cycle rate) adjustments including 2nd stage adjustments
- Filter change indicator (selectable on or off)
- Room temperature calibration adjustment
- 5 minute compressor delay protection(selectable on or off)
- Battery or 24V power



QD-HVAC21

- Comprehensive screen design, integrated touch panel.
- Color available: Golden, Silver, White.
- The screen is PMMA 3D mirror design.
- Silver metal coating process.
- 100V--260V wide operating voltage.
- Cold and hot water valves are individually controlled.



QD-HVAC10

- Programmable Thermostat
- 5+2 programmable
- 6.8 sq. inch backlight LCD
- Battery power or 24V Hardwire



QD-HVAC11

- Programmable Thermostat
- 5+2 programmable
- Adjust filter usage counter
- Battery power or 24V Hardwire



Thermostat Guard



BTG-EK

Size: 129×122×72mm



BTG-RK

Size: 195×120×85mm



BTG-K

Size: 167×150×85mm



BTG-UK2

Size: 255×158×97mm

Junction Box



JHJB01

Size: 96×68×43mm

JHJB02

Size: 60×80×38mm



JHMB03

Size: 97×60×44mm