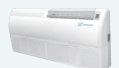
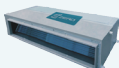
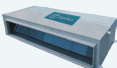
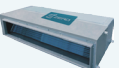
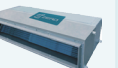
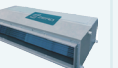


Side Discharge Light Commercial 50HZ R410a Normal EER INVERTER

Heat Pump, R410a Normal EER INVERTER

Capacity TYPE (Btu/h)	12000	18000	24000	36000	48000	60000	
SDCU							 Wireless (Standard)
Floor ceiling							
Cassette							
Duct							 Wired (Standard)
High ESP duct							

Heat Pump , Outdoor unit, R410a Normal EER INVERTER



ZSOV-18HFG



ZSOV-24HFG



ZSOV-36HFG



ZSOV-36HEG



ZSOV-48HFG

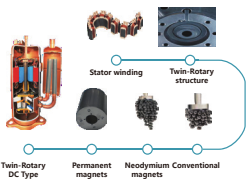


ZSOV-48HEG



ZSOV-60HEG

Features

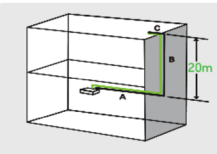


High efficiency twin rotary DC inverter compressor, system can operate in the best performance due to adjustable frequency.

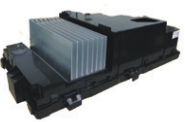


New integrated PCB has big contribution to AC fast reply and simple service. Fin type heat sink gives PCB a cool working condition(Single phase ODU).

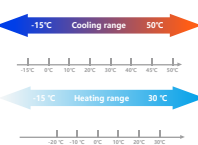
Multi-direction piping connection meets different requirement, convenient installation.



Long piping design, for 36K-60K Btuh, the MAX pipe length is 65m, and height difference is 30m.



New electric control box material change from metal to plastic, not only reduce the weight, but also avoid the short circuit cause by the PCB touch the metal box (Single phase ODU).



Wide outdoor operation range, the cooling operation temperature is down to -15 degree.

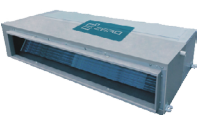
Heat Pump , Indoor Unit, R410a Inverter



ZEV-18~60HFG



ZCFV-18~60HFG

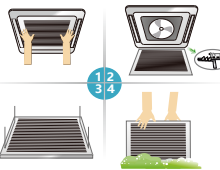


ZDV-18~60HFG

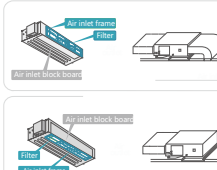


ZHDV-48~60CFG

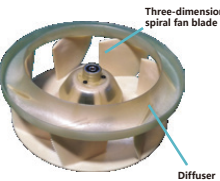
Features



Washable filter, convenient to install and maintain.



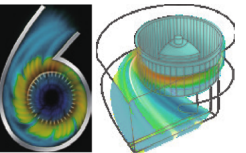
Air return method is optional by actual installation, from rear or from bottom.



Streamlined design and 3D spiral fan blade, reduces air resistance and operation noise



Auto-swing function, built-in two louver motor, vertical and horizontal air-flow adjustment.



Adopting aviation centrifugal fan blade with special air tunnel design, as well as fan motor anti-vibration measure, benefit to increase air flow and decrease the noise.



DC motor is standard, operating stably, lower energy consumption and high efficiency.

Heat Pump , R410a Inverter Outdoor Unit(SDCU)								
Model			ZSOV-18HFG	ZSOV-24HFG	ZSOV-36HFG	ZSOV-36HEG	ZSOV-48HEG	ZSOV-60HEG
ODU BOM			821039000021	821039000020	821039000022	821039000023 821039000032	821039000030	821039000031
Outdoor power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50	380~415/3/50
Cooling	Capacity	KW	5.3 (2.0-5.6)	7 (3.5-8)	10.5 (6.6-12.8)	10.5 (6.6-12.8)	14.0(7.15-15.6)	16.0(7.8-17.5)
	Power input	W	550-2100	540-3100	600-4000	600-4000	4600	5150
	Current input	A	2.4-10	2.2-14	2.5-18	1.5-10	7.8	8.8
Heating	Capacity	KW	6 (3.0-6.5)	8 (4.5-8.5)	10.5 (7.3-13.2)	10.5 (7.3-13.2)	15.2(8.0-17.2)	17.6(8.5-19.5)
	Power input	W	550-2100	1440-3100	690-3900	690-3900	4050	4780
	Current input	A	2.4-10	5.2-14	3'-17	1.7-10	6.9	8.2
Compressor	Model		DA150S1C-20FZ	DA250S2C-30MT	TNB220FFEMC	TNB220FFEMC	MNB40FEQMC	MNB40FEQMC
	Type		DC/Twin-rotory	DC/Twin-rotory	Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary
	Frequency range	rps	12-120	20-220	10-110	10-110	10-120	10-120
	Capacity	W	4490	7690	6940	6940	12900	12900
	Capacity	W	1145	2120	2150	2150	3960	3960
	Current(RLA)	A	5.5	8.85	8.7	8.7	14.8	14.8
	Refrigerant oil	ml	500	820	520	520	1100	1100
Outdoor motor fan	Model		YDK-80-6P3-2	YDK-100-6 H3	YDK-100-6 H3	YDK-100-6 H3	YDK-80-6P3-1	YDK-80-6P3-1
	Power output	W	80	100	100	100	2*80	2*80
	Capacitor		4	6	6	6	4	4
	Speed	r/min	860/490	800/450	800/450	800/450	780/630	780/630
	Insulation class		B	B	B	B	B	B
Outdoor coil	Number of rows		2	2	2	2	2	2
	Tube pitch(a)xrow pitch(b)	mm	22×19.05	21×19.4	25×21.65	25×21.65	22×19.05	22×19.05
	Fin spacing	mm	1.5	1.6	1.6	1.6	1.6	1.6
	Fin type		Hydrophilic	Hydrophilic	hydrophilic aluminium	hydrophilic aluminium	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	Φ7.94	Φ7	Φ9.52	Φ9.52	Φ7.94	Φ7.94
			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Coil length x height x width	mm	754×660×38.1	1036×756×38.8	1000x750x43.3	1000x750x43.3	1280x790x38.1	1280x790x38.1
Number of circuits			4	5	4	4	6	6
Outdoor air flow(High speed)		m3/h	3000	3000	4500	4500	7200	7200
Outdoor noise level		dB(A)	57	58	58	58	58	58
Outdoor unit	Dimension(W*H*D)	mm	872×700×312	1030×788×432	968x432x744	968x432x744	950×1335×388	950×1335×388
	Packing(W*H*D)	mm	990×770×410	1120×900×485	1120×900×485	1120×900×485	964x1445x402	964x1445x402
	Net/Gross weight	kg	47/50	65/70	65/71	69/74	98.5/106.5	98.5/106.5
Refrigerant type/quantity		g	R410A/1800	R410A/2200	R410A/2800	R410A/2800	R410A/4100	R410A/4100
Throttle part			EXV	EXV	EXV	EXV	EXV	EXV
Design pressure		MPa	4.4/1.1	4.4/1.1	4.4/1.1	4.4/1.1	4.5/1.6	4.5/1.6
Max pressure		MPa	3.8	3.8	3.8	3.8	4.5	4.5
Connection wire	Power wiring	mm2	3×2.5	3×2.5	3×4.0	3×4.0	5×2.5	5×2.5
	Signal wiring	mm2	4×2.5	4×2.5	3×1.0	3×1.0	3×1.0	3×1.0
Refrigerant piping	Liquid side/Gas side	mm	φ6.35/φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88
	Max. pipe length	m	30	50	65	65	65	65
	Max. high drop	m	20	25	30	30	30	30
Ambient temp	cooling	° C	-5 ~ 50	-5 ~ 50	-5~50	-5~50	-5 ~ 50	-5 ~ 50
	heating	° C	-15 ~ 30	-15 ~ 30	-15~30	-15~30	-15 ~ 30	-15 ~ 30

Heat Pump , R410a Inverter Indoor Unit(Floor ceiling)							
Model			ZEV-18HFG	ZEV-24HFG	ZEV-36HFG	ZEV-48HFG	ZEV-60HFG
IDU BOM			821039700016	821039700017	821039700018	821039700009	821039700010
Indoor power supply		V/Ph/Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz
Cooling	Capacity	Btu/h	18000	24000	36000	48000	55000
		KW	5.3 (2.0-5.6)	7 (3.5-8)	10.5 (6.6-12.8)	14.0(7.15-15.6)	16.0(7.8-17.5)
	Power input	W	420-1840	600-3000	800~4000	1220-5580	1900-6100
	Current input	A	1.8~9.5	2.5-12	3.6-18	8.95	9.95
	EER	W/W	3.15	3.14	2.91	2.88	2.95
Heating	Capacity	Btu/h	20500	27500	36000	52000	60000
		KW	6 (3.0-6.5)	8 (4.5-8.5)	10.5 (7.3-13.2)	15.2(8.0-17.2)	17.6(8.5-19.5)
	Input	W	640-2040	1500-2800	800~4000	1200-5280	2000-6500
	Rated current	A	3.0-10	5.5-12	4.1-18	8.05	9.35
COP	W/W	3.11	3.13	3.29	3.53	3.46	
Max. power input		W	2500	3500	4000	6100	6800
Max. current input		A	12.1	14	18	11.4	12.8
Indoor fan motor	Model		YSK110-65LD-4P3H85	YSK110-75LD-4P2	YSK110-180LD-4P2	YSK110-59LD-4P17 +YSK110-59LD-4P17	
	Power output	W	30	75	150	85×2	
	Capacitor	μF	2.5	5	5	5	
	Speed	r/min	800/650/550	980/880/780	1310/1210/1110	1560/1430/1300	
	Insulation class		B	B	B	B	
Indoor coil	Number of rows		3	3	3	4	4
	Tube pitch(a)xrow pitch(b)	mm	21×13.37	21×13.37	25x21.65	22x19.1	22x19.1
	Fin spacing	mm	1.4	1.4	1.7	1.7	1.7
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic aluminium	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	Φ7	Φ7	Φ9.52	Φ7.94	Φ7.94
			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Coil length x height x width	mm	1000x252x40.11	1000x252x40.11	1000x252x65	1382x242x76.2	1382x242x76.2
Number of circuits		4	4	5	4	4	
Indoor air flow(High speed)		m3/h	830/670/570	1300/1150/1050	1300/1200/1100	2000	2000
Indoor noise level		dB(A)	35-42	48-52	51-56	45-52	46-52
Indoor unit	Dimension(W*H*D)	mm	1245×680×240	1245×680×240	1250x690x257	1670x680x240	1670x680x240
	Packing(W*H*D)	mm	1325×770×325	1325×770×325	1325x770x325	1750x765x330	1750x765x330
	Net/Gross weight	kg	34/40	35/41	36/42	49/55.5	49/55.5
Max pressure		MPa	3.8	3.8	4.5	4.5	4.5
Refrigerant type			R410A	R410A	R410A	R410A	R410A
Refrigerant piping Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	9.52/Φ15.88	Φ9.52/Φ15.88	
Drainage pipe		mm	DN25	DN25	φ25	DN25	DN25
Standard controller			Standard for remote controller(wired controller for option)				
Operation temp		° C	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32
Ambient temp	cooling	° C	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50
	heating	° C	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30
Application area		m2	20-35	28-50	40-70	56-93	64-106

Heat Pump , R410a Inverter Indoor Unit(Cassette)

Model			ZCRU-18HFG	ZCRU-24HFG	ZCRU-36HFG	ZCRU-48HFG	ZCRU-60HFG
IDU BOM			821040000044	821040000046	821040000052	821040000037	821040000038
Indoor power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240-1-50	220~240/1/50	220~240/1/50
Cooling	Capacity	KW	5.3 (2.0-5.6)	7 (3.5-8)	10.5 (6.6-12.8)	14.0(7.15-15.6)	16.0(7.8-17.5)
	Power input	W	420-1840	600-3000	800~4000	1220-5580	1900-6100
	Current input	A	1.8-9.5	2.5-12	3.3-18	8.6	9.6
	EER	W/W	3.15	3.14	2.91	2.93	3
Heating	Capacity	KW	6 (3.0-6.5)	8 (4.5-8.5)	10.5 (7.3-13.2)	15.2(8.0-17.2)	17.6(8.5-19.5)
	Input	W	640-2040	1500-2800	800~4000	1200-5280	2000-6500
	Rated current	A	3.0-10	5.5-12	3.8-17.9	7.7	9
	COP	W/W	3.11	3.11	3.29	3.59	3.53
Max. power input		W	2500	3500	4000	6100	6800
Max. current input		A	12.1	14.1	18	11.4	12.8
Indoor fan motor	Model		YDK-35Q-8P3	YDK-45Q-6P3	YDK-75T-6	YDK-75Q-6P3-1	YDK-75Q-6P3-1
	Power output	W	16	45	75	75	75
	Capacitor	μF	2.5	3	4	5	5
	Speed	r/min	480/430/380	850/790/600	760/680/580	850/750/650	850/750/650
	Insulation class		B	B	B	B	B
Indoor coil	Number of rows		2	2	2	3	3
	Tube pitch(a)xrow pitch(b)	mm	21×13.37	21×13.37	21x13.37	21×13.37	21×13.37
	Fin spacing	mm	1.45	1.45	1.45	1.6	1.6
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic aluminium	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	Φ7	Φ7	Φ7	Φ7	Φ7
			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Coil length x height x width	mm	2000×168×26.74	2000×168×26.74	2000x252x26.7	2000×252×40.11	2000×252×40.11
	Number of circuits		4	8	12	6	6
Indoor air flow(High speed)		m3/h	930/830/730	1300/1150/920	1600/1300/1100	1900/1650/1450	1900/1650/1450
Indoor noise level		dB(A)	38~43	44~52	45~52	45~52	45~52
Indoor unit	Dimension(W*H*D)	Body(mm)	840×230×840	840×230×840	840x285x840	840×285×840	840×285×840
		Panel(mm)	950×50×950	950×50×950	950x50x950	950×50×950	950×50×950
	Packing(W*H*D)	Body(mm)	920×265×920	920×265×920	920x310x920	920×310×920	920×310×920
		Panel(mm)	1030×105×1030	1030×105×1030	1030x105x1030	1030×105×1030	1030×105×1030
	Net/Gross weight	Body(Kg)	23/28	23/28	27/32	29.5/35	29.5/35
		Panel(Kg)	5.4/8.0	5.4/8.0	5.4/8	5.4/8.0	5.4/8.0
Max pressure		MPa	3.8	3.8	4.5	4.5	4.5
Refrigerant type			R410A	R410A	R410A	R410A	R410A
Refrigerant piping Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88
Drainage pipe		mm	DN25	DN25	DN25	DN25	DN25
Standard controller			Standard for remote controller(wired controller for option)				
Operation temp		° C	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32
Ambient temp	cooling	° C	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50
	heating	° C	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30
Application area		m2	20-35	28-50	40-70	56-93	64-106

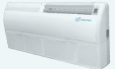
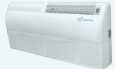
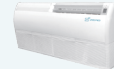
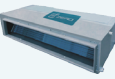
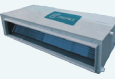
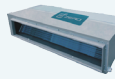
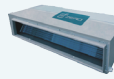
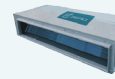
Heat Pump , R410a Inverter Indoor Unit(Duct)

Model			ZDV-18HFG	ZDV-24HFG	ZDV-36HFG	ZDV-48HFG	ZDV-60HFG
IDU BOM			821039100026	821039100027	821039300014	821039300004	821039300005
Indoor power supply		V/Ph/Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240-1-50	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz
Cooling	Capacity	KW	5.3 (2.0-5.6)	7 (3.5-8)	10.5 (6.6-12.8)	14.0(7.15-15.6)	16.0(7.8-17.5)
	Power input	W	420-1840	650-3050	800~4000	4930	5490
	Current input	A	1.8-7.8	2.8-13.3	3.3-18	9.4	10.4
	EER	W/W	3.03	3.14	2.81	2.84	2.91
Heating	Capacity	KW	6 (3.0-6.5)	8 (4.5-8.5)	10.5 (7.3-13.2)	15.2(8.0-17.2)	17.6(8.5-19.5)
	Input	W	640-2240	1550-2650	800~4000	1200-5280	5120
	Rated current	A	3.0-8.0	5.8-11.3	3.8-17.9	8.5	9.8 (1.6)
	COP	W/W	2.86	2.9	2.86	3.46	3.44
Max. power input		W	2500	3500	4000	6100	6800
Max. current input		A	12.1	14.1	18.0	11.4	12.8
Indoor fan motor	Model		YSK100-55F-4P3	YSK100-68F-4P3	YSK120-150F-4P3H105-1/J	YSK120-150F-4P3H105-2+YDK11075F-4P3H105L-2	YSK120-150F-4P3H105-2+YDK110-75F-4P3H105L-2
	Power output	W	60	65	145	150+75	150+75
	Capacitor	μF	3	3.5	5UF/450V	6+5	6+5
	Speed	r/min	1320/1040/840/720	1360/1260/1040/920	1100/1000/750/630	1320/1280/1200+1430/1370/1330	1320/1280/1200+1430/1370/1330
	Insulation class		B	B	B	B	B
Indoor coil	Number of rows		2*2	3*2	3	3	3
	Tube pitch(a)xrow pitch(b)	mm	21×12.7	21×12.7	22×19.05	22×19.05	22×19.05
	Fin spacing	mm	1.4	1.6	1.5	1.7	1.7
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic aluminium	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	Φ7	Φ7	Φ7.94	Φ7.94	Φ7.94
			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Coil length x height x width	mm	(715×146×27)*2	(915×147×38.1)*2	900x308x58	1136x308x83	1136x308x83
Number of circuits			4	6	3	6	6
Indoor air flow(High speed)		m3/h	900/700/600	1100/850/700	1500/1300/1100	2000	2000
Static Pressure		Pa	0-30	0-30	30 (50 is optional)	50	50
Indoor noise level	power level	dB(A)	40~50	40 ~ 52	45~48	55-65	55-65
	pressure level		28~38	29~40	33~46	40-52	40-52
Indoor unit	Dimension(W*H*D)	Body(mm)	1010x210x467	1214×210×467	1190×643×260	1425x643x260	1425x643x260
	Packing(W*H*D)	Body(mm)	1110x240x510	1310×240×510	1255x720x325	1490x720x325	1490x720x325
	Net/Gross weight	Body(Kg)	21/24	25/29	37/33	45/51	45/50
	Max pressure	MPa	3.8	3.8	4.5	4.5	4.5
Refrigerant type			R410A	R410A	R410A	R410A	R410A
Refrigerant piping Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88
Drainage pipe		mm	DN25	DN25	DN25	DN25	DN25
Standard controller			Standard for remote controller(wired controller for option)				
Operation temp		° C	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32
Ambient temp	cooling	° C	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50
	heating	° C	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30
Application area		m2	20-35	28-50	40-70	56-93	64-106
Stuffing Quantity(20'/40'/40'HQ)		set	115/250/320	115/250/320	75/165/168	48/100/111	48/100/111

Heat Pump , R410a ON/OFF Indoor Unit(High ESP Duct)					
Model			ZCRU-18HFG	ZCRU-24HFG	
IDU BOM			821039500001	821039500002	
Indoor power supply		V/Ph/Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	
Cooling	Capacity	KW	14.0(7.15-15.6)	16.0(7.8-17.5)	
	Power input	W	5090	5650	
	Current input	A	10.1	11.1	
	EER	W/W	2.75	2.83	
Heating	Capacity	KW	15.2(8.0-17.2)	17.6(8.5-19.5)	
	Input	W	4500	5280	
	Rated current	A	9.2	10.5	
	COP	W/W	3.34	3.33	
Max. power input		W	6100	6800	
Max. current input		A	11.4	12.8	
Indoor fan motor	Model		YSK139-300F-4P3H95	YSK139-300F-4P3H95	
	Power output	W	300	300	
	Capacitor	μF	15	15	
	Speed	r/min	1050/830/720	1050/830/720	
	Insulation class		B	B	
Indoor coil	Number of rows		3	3	
	Tube pitch(a)xrow pitch(b)	mm	22×19.05	22×19.05	
	Fin spacing	mm	1.6	1.6	
	Fin type		Hydrophilic	Hydrophilic	
	Tube outside dia. and type	mm	Φ7.94	Φ7.94	
			inner grooved	inner grooved	
	Coil length x height x width	mm	935x330x57.15	935x330x57.15	
Number of circuits			6	6	
Indoor air flow(High speed)		m3/h	2300	2300	
Static Pressure		Pa	120	120	
Indoor noise level	power level	dB(A)	56-66	56-66	
	pressure level		44-52	44-52	
Indoor unit	Dimension(W*H*D)	Body(mm)	1175x370x625	1175x370x625	
	Packing(W*H*D)	Body(mm)	1245x445x655	1245x445x655	
	Net/Gross weight	Body(Kg)	47/51	47/51	
Max pressure		MPa	4.5	4.5	
Refrigerant type			R410A	R410A	
Refrigerant piping Liquid side/Gas side		mm	Φ9.52/Φ15.88	Φ9.52/Φ15.88	
Drainage pipe		mm	DN25	DN25	
Standard controller			Standard for remote controller(wired controller for option)		
Operation temp		° C	16 ~ 32	16 ~ 32	
Ambient temp	cooling	° C	-5 ~ 50	-5 ~ 50	
	heating	° C	-15 ~ 30	-15 ~ 30	
Application area		m2	56-93	64-106	
Stuffing Quantity(20'/40'/40'HQ)		set	46/96/107	46/96/107	

Side Discharge Light Commercial 50HZ R32 ERP INVERTER

Heat Pump, R32 EPR INVERTER

TYPE \ Capacity (Btu/h)	18000	24000	36000	48000	60000	
SDCU						 Wireless (Standard)
Floor ceiling						
Cassette						 Wired (Standard)
Duct						

Heat Pump , Outdoor unit, R 32 EPR INVERTER



ZSOVA-18HFG



ZSOVA-24HFG



ZSOVA-36HFG

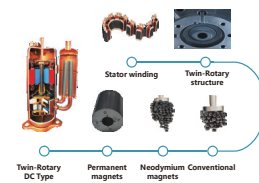


ZSOVA-48HFG

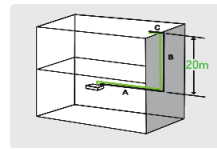


ZSOVA-60HEG

Features



High efficiency twin rotary DC inverter compressor, system can operate in the best performance due to adjustable frequency.



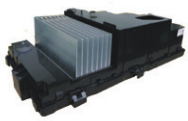
Long piping design, for 36K-60K Btuh, the MAX pipe length is 65m, and height difference is 30m.



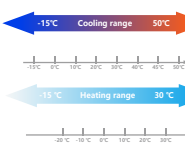
New integrated PCB has big contribution to AC fast reply and simple service. Fin type heat sink gives PCB a cool working condition(Single phase ODU).



Energy saving and excellent efficiency. Reaching European A++ and A+ class energy label, meets the EU's new energy efficiency requirement. Comply with ErP directive.



New electric control box material change from metal to plastic, not only reduce the weight, but also avoid the short circuitcause by the PCB touch the metal box (Single phase ODU).



Wide outdoor operation range, the cooling operation temperature is down to -15 degree.

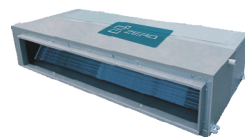
Heat Pump , Indoor Unit, R32 INBERTER



ZEVA-18~60HFG

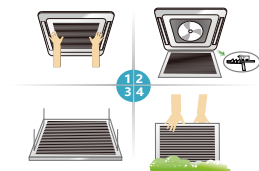


ZCFVA-12~60HFG



ZDVA-12~60HFG

Features



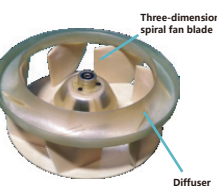
Washable filter, convenient to install and maintain.



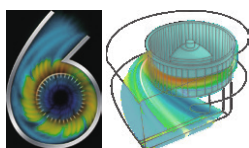
DC motor is standard, operating stably, lower energy consumption and high efficiency.



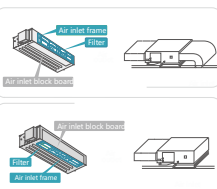
Auto-swing function, built-in two louver motor, vertical and horizontal air-flow adjustment.



Streamlined design and 3D spiral fan blade, reduces air resistance and operation noise



Adopting aviation centrifugal fan blade with special air tunnel design, as well as fan motor anti-vibration measure, benefit to increase air flow and decrease the noise.



Air return method is optional by actual installation, from rear or from bottom.

Heat Pump , R32 Inverter Outdoor unit(SDCU)

Model			ZSOVA-18HFG	ZSOVA-24HFG	ZSOVA-36HFG	ZSOVA-48HFG	ZSOVA-60HFG
Outdoor power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50
Cooling	Capacity	KW	2.0-5.3-5.6	3.5-7.0-8.0	6.6-10.5-12.8	7.0-14.0-15.5	7.5-16.0-17.0
	Power input	W	340-1520-2020	540-2080-2940	600-3050-3800	650-5700	1300-5800-6200
	Current input	A	1.7-9.7	2.2-12.7	2.5-19.4	3-28	3.4-14.8-15.6
Heating	Capacity	KW	3.0-5.9-6.0	4.5-7.7-8.5	7.35-11.5-13.2	8.0-15.2-16.0	8.5-16.8-17.5
	Power input	W	420-1410-1860	560-1860-2540	690-3275-4000	1000-5500	1400-5360-6400
	Current input	A	2.1-8.8	2.5-10.7	3-20.4	4-26	3.6-15.0-16
Compressor	Model		SVB140	SVB200	KTF310	MVB40F	KTQ420D1UMU
	Type		DC/Twin-rotary	DC/Twin-rotary	DC/Twin-rotary	DC/Twin-rotary	DC/Twin-rotary
	Frequency range	rps	12-120	12-120	12-120	12-120	12-120
	Capacity	W	4360	6940	9435	13680	13700
	Capacity	W	1300	2150	2575	4340	3700
	Current(RLA)	A	4.4	8.7	5.05	14.6	7.02
	Refrigerant oil	ml	350	520	1000	1250	1400
Outdoor motor fan	Model		DR-310-72-8	DR-310-72-8	DR-310-120-8	DR-380-100-8	DR-380-100-8
	Power output	W	72	72	120	100	100
	Speed	r/min	800	800	800	780	870
Outdoor coil	Insulation class		E	E	E	E	B
	Number of rows		2	2	2	2	2
	Tube pitch(a)xrow pitch(b)	mm	22×19.05	25×21.65	21×13.4	25×21.65	25×21.65
	Fin spacing	mm	1.6	1.8	1.6	1.6	1.6
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	7.94	9.52	9.52	9.52	9.52
			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Coil length x height x width	mm	754×660×38.1	850×800×43.3	1035×750×43.3	995×1350×43.3	995×1350×43.3
	Number of circuits		5	4	4	7	7
Outdoor air flow(High speed)		m3/h	3000	3500	4200	6100	6100
Outdoor noise level	power level	dB(A)	63	67	68	70	70
	pressure level		52	54	55	58	58
Outdoor unit	Dimension(W*H*D)	mm	925×700×366	958×843×392	1030×788×432	1014×1430×450	1014×1430×450
	Packing(W*H*D)	mm	990×770×410	1025×960×430	1120×900×485	1095×1545×485	1095×1545×485
	Net/Gross weight	kg	42/45	52/62	68/74	109/123.6	112/126.6
Refrigerant type/quantity		g	R32/1300	R32/1700	R32/2150	R32/3800	R32/3800
Throttle part			EXV	EXV	EXV	EXV	EXV
Design pressure		MPa	4.5/1.6	4.5/1.6	4.5/1.6	4.5/1.6	4.5/1.6
Max pressure		MPa	4.5	4.5	4.5	4.5	4.5
Connection wire	Power wiring	mm2	3×2.5	3×2.5	3×4.0	3×4.0	5×2.5
	Signal wiring	mm2	4×2.5	4×2.5	4×2.5	4×2.5	4×2.5
Refrigerant piping	Liquid side/Gas side	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88
	Max. pipe length	m	15(30)	20(50)	65	65	65
	Max. high drop	m	8(20)	10(25)	30	30	30
Ambient temp	cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	heating	°C	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30

Heat Pump , R32 Inverter Indoor unit(Floor ceiling)

Model			ZEVA-18HFG	ZEVA-24HFG	ZEVA-36HFG	ZEVA-48HFG	ZEVA-60HFG	
Indoor power supply		V/Ph/Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240/1/50	220~240/1/50	
Cooling	Capacity	KW	2.0-5.3-5.6	3.5-7.0-8.0	6.6-10.5-12.8	7.0-14.0-15.5	7.5-16.0-17.0	
	Power input	W	420-1640-2100	600-2200-3000	740-3170-3900	1100-5000-5800	1400-5950-6300	
	Current input	A	2.1-10.1	2.5-13	2.8-13.6-20	3-24-28	3.5-15-15.8	
	EER	W/W	3.23	3.18	3.31	2.8	2.69	
	SEER	W/W	6.1	6.1	6.1	6.1	6.1	
	Energy efficiency class		A++	A++	A++	A++	A++	
	Year Consumption	kWh/annum	319	423	610	795	911	
Heating	Capacity	KW	2.5-5.9-6.0	4.5-7.7-8.5	7.35-11.5-13.2	8.0-15.2-16.0	8.5-16.8-17.5	
	Power input	W	500-1530-1940	1500-1980-2600	1100-3395-4000	1200-4970-6000	1500-5510-6500	
	Rated current	A	2.5-9.2	5.5-11	4.2-14.7-20.4	4-20.5-24	3.7-14-16.3	
	COP	W/W	3.86	3.89	3.39	3.06	2.90	
	SCOP	W/W	4.0	4.0	4.0	4.0	4.0	
	Energy efficiency class		A+	A+	A+	A+	A+	
	Year Consumption	kWh/annum	1765	2512	3080	3723	4046	
Max. power input		W	2400	3200	4800	6100	6600	
Max. current input		A	11.4	14	26	28.0	16.5	
Pdesignc		W	5300	7000	10500	14000	16000	
pdesignh(A)		W	4800	6000	7500	11000	12000	
Indoor fan motor	Model		DR-310-120LD-8	DR-310-120LD-8	DR-310-120LD-8	DR-310-75LD-8	DR-310-75LD-8	
	Power output	W	120	120	120	75*2	75*2	
	Capacitor	μF	-	-	-	-	-	
	Speed	r/min	1400	1400	1400	1225-1080-930	1225-1080-930	
Indoor coil	Insulation class		E	E	E	E	E	
	Number of rows		2	3	3	4	4	
	Tube pitch(a)xrow pitch(b)	mm	21×13.37	21×13.37	21×13.37	22×19.05	22×19.05	
	Fin spacing	mm	1.4	1.4	1.4	1.7	1.7	
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	
	Tube outside dia. and type	mm	Φ7	Φ7	Φ7	Φ8	Φ8	
			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	
	Coil length x height x width	mm	1000x252x26.74	1000x252x40.11	1000x252x40.11	1382x242x76.2	1382x242x76.2	
Number of circuits		2	4	4	8	8		
Indoor air flow(High speed)		m3/h	900/800/650	1150/1000/850	1800/1650/1500	2000/1700/1600	2000/1700/1600	
Indoor noise level	power level	dB(A)	46 ~ 58	53 ~ 60	56 ~ 65	58-66	58-66	
	pressure level		36/42/47	43/46/49	45/48/51	45-52	46-52	
Indoor unit	Dimension(W*H*D)	Body(mm)	1245×680×240	1245×680×240	1245×680×240	1670×680×245	1670×680×245	
	Packing(W*H*D)	Body(mm)	1325×770×325	1325×770×325	1325×770×325	1750×780×335	1750×780×335	
	Net/Gross weight		Body(Kg)	34/40	35/41	35/41	49/56	49/56
	Max pressure		MPa	4.5	4.5	4.5	4.5	4.5
Refrigerant type			R32	R32	R32	R32	R32	
Refrigerant piping Liquid side/Gas side			Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	
Drainage pipe		mm	DN25	DN25	DN25	DN25	DN25	
Operation temp		° C	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32	
Ambient temp	cooling	° C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	
	heating	° C	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30	
Application area		m2	20-35	28-50	40-70	56-93	64-106	

Heat Pump , R32 Inverter Indoor unit(Cassette)

Model			ZCFVA-18HFG	ZCFVA-24HFG	ZCFVA-36HFG	ZCFVA-48HFG	ZCFVA-60HFG
Indoor power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50
Cooling	Capacity	KW	2.0-5.3-5.6	3.5-7.0-8.0	6.6-10.5-12.8	7.0-14.0-15.5	7.5-16.0-17.0
	Power input	W	420-1580-2100	600-2140-3000	740-3150-3900	1100-4950-5800	1400-5900-6300
	Current input	A	2.1-10.1	2.5-13	2.8-13.6-20	3-24-28	3.5-15-15.8
	EER	W/W	3.35	3.27	3.33	2.83	2.71
	SEER	W/W	6.1	6.1	6.1	6.1	6.1
	Energy efficiency class		A++	A++	A++	A++	A++
	Year Consumption	kWh/annum	319	423	610	795	911
Heating	Capacity	KW	2.5-5.9-6.0	4.5-7.7-8.5	7.35-11.5-13.2	8.0-15.2-16.0	8.5-16.8-17.5
	Power input	W	500-1470-1940	1500-1920-2600	1100-3375-4000	1200-4920-6000	1500-5460-6500
	Rated current	A	2.5-9.2	5.5-11	4.2-14.7-20.4	4-20.5-24	3.7-14-16.3
	COP	W/W	4.01	4.01	3.41	3.09	3.08
	SCOP	W/W	4.0	4.0	4.0	4.0	4.0
	Energy efficiency class		A+	A+	A+	A+	A+
	Year Consumption	kWh/annum	1873	2512	3080	3723	4046
Max. power input		W	2400	3200	4800	5700	6600
Max. current input		A	11.4	14	26	28.0	16.5
Pdesignc		W	5300	7000	10500	14000	16000
pdesignh(A)		W	4800	6000	7500	11000	12000
Indoor fan motor	Model		DR-310-60Q-8	DR-310-60Q-8	DR-310-100Q-8	DR-310-100Q-8	DR-310-100Q-8
	Power output	W	60	60	100	100	100
	Capacitor	μF	-	-	-	-	-
	Speed	r/min	850/790/600	850/790/600	840/750/650	840/750/650	840/750/650
Indoor coil	Insulation class		E	E	E	E	E
	Number of rows		2	2	2	3	3
	Tube pitch(a)xrow pitch(b)	mm	21×13.37	21×13.37	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.45	1.45	1.45	1.6	1.6
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	Φ7	Φ7	Φ7	Φ7	Φ7
			inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Coil length x height x width	mm	2000×168×26.74	2000×168×26.74	2000×252×26.74	2000×252×40.01	2000×252×40.01
	Number of circuits		8	8	12	12	12
Indoor air flow(High speed)		m3/h	900/800/650	1100/1000/850	1800/1700/1550	2000/1800/1600	2000/1900/1700
Indoor noise level	power level	dB(A)	46~58	56 ~ 63	53 ~ 61	54-62	54-62
	pressure level		36/41/45	43/46/49	43/45/48	45~52	45~52
Indoor unit	Dimension(W*H*D)	Body(mm)	840×230×840	840×230×840	840×285×840	840×285×840	840×285×840
		Panel(mm)	950×50×950	950×50×950	950×50×950	950×50×950	950×50×950
	Packing(W*H*D)	Body(mm)	920×265×920	920×265×920	920×310×920	920×310×920	920×310×920
		Panel(mm)	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030
	Net/Gross weight	Body(Kg)	25/30	25/30	30.5/36	30.5/36	30.5/36
		Panel(Kg)	6.5/9.5	6.5/9.5	6.5/9.5	6.5/9.5	6.5/9.5
Max pressure		MPa	4.5	4.5	4.5	4.5	4.5
Refrigerant type			R32	R32	R32	R32	R32
Refrigerant piping Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88
Drainage pipe		mm	DN25	DN25	DN25	DN25	DN25
Operation temp		° C	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32
Ambient temp	cooling	° C	-15 ~ 50	-15 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50
	heating	° C	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30
Application area		m2	20-35	28-50	40-70	56-93	64-106

Heat Pump , R32 Inverter Indoor unit(Duct)

Model			ZDVA-18HFG	ZDVA-24HFG	ZDVA-36HFG	ZDVA-48HFG	ZDVA-60HFG
Indoor power supply		V/Ph/Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240V/1Ph/50Hz	220~240/1/50	220~240/1/50
Cooling	Capacity	KW	2.0-5.3-5.6	3.5-7.0-8.0	6.6-10.5-12.8	7.0-14.0-15.5	7.5-16.0-17.0
	Power input	W	420-1590-2100	650-2150-3050	830-3275-3900	1100-5090-5800	1400-6040-6300
	Current input	A	2.1-10.1	2.8-13.3	3.1-13.6-20	3-24-28	3.5-15-15.8
	EER	W/W	3.33	3.26	3.21	2.75	2.65
	SEER	W/W	6.1	6.1	6.1	6.1	6.1
	Energy efficiency class		A++	A++	A++	A++	A++
	Year Consumption	kWh/annum	319	423	610	795	911
Heating	Capacity	KW	2.5-5.9-6.0	4.5-7.7-8.5	7.35-11.5-13.2	8.0-15.2-16.0	8.5-16.8-17.5
	Input	W	500-1475-1940	1550-1925-2650	1200-3500-4000	1200-5060-6000	1500-5600-6500
	Rated current	A	2.5-9.2	5.8-11.3	4.5-14.7-20.4	4-20.5-24	3.7-14-16.3
	COP	W/W	4.0	3.3	3.3	3.0	3.0
	SCOP	W/W	4.0	4.0	4.0	4.0	4.0
	Energy efficiency class		A+	A+	A+	A+	A+
	Year Consumption	kWh/annum	1765	2205	3080	3723	4046
Max. power input		W	2400	3250	4800	6100	6600
Max. current input		A	11.4	14.5	26	29.0	16.5
Pdesignc		W	5300	7000	10500	14000	16000
pdesignh(A)		W	4800	6000	7500	11500	12000
Indoor fan motor	Model		DR-310-68F-8	DR-310-68F-8	DR-310-150F-8 +DR-310-75F-8	DR-310-240F-8	DR-310-240F-8
	Power output	W	68	68	150+75	240	240
	Capacitor	μF	-	-	-	-	-
	Speed	r/min	1275/1080/880/720	1275/1080/880/720	1350/1240/1140/1040 +1350/1270/1200/1130	1200/1150/1050	1200/1150/1050
	Insulation class		E	E	E	E	E
Indoor coil	Number of rows		3*2	3*2	3	4	4
	Tube pitch(a)xrow pitch(b)	mm	21×12.7	21×12.7	22×19.05	22×19.05	22×19.05
	Fin spacing	mm	1.4	1.4	1.7	1.5	1.5
	Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside dia. and type	mm	Φ7 inner grooved	Φ7 inner grooved	Φ7.94 inner grooved	Φ7.94 inner grooved	Φ7.94 inner grooved
	Coil length x height x width	mm	920×200×46	920×200×46	1136×264×57.15	1030×396×76.2	1030×396×76.2
	Number of circuits		6	6	6	8	8
Filter			Optional	Optional	Standard	Optional	Optional
Indoor air flow(High speed)		m3/h	800/630/530	800/630/530	1800/1500/1200	2500/2300/1980	2500/2300/1980
Indoor noise level	Static Pressure	Pa	0-30	0-30	30-50	30-50	30-50
	Rated Range	Pa	30	30	50	0-160*	0-160*
	power level pressure level	dB(A)	46~58	56 ~ 63	55 ~ 63	56-64	56-64
Indoor unit	Dimension(W*H*D)	Body(mm)	1214×210×467	1214×210×467	1425×260×643	1279×307×830	1279×307×830
	Packing(W*H*D)	Body(mm)	1310×240×510	1310×240×510	1490×325×720	1395×380×920	1395×380×920
	Net/Gross weight	Body(Kg)	22.5/25.5	25/28	46/50	49/56	49/56
	Dimension for Plenum Air Outlet	mm×mm	905×150	905×150	1156×197	973×207	973×207
	Dimension for Plenum Air Inlet	mm×mm	1011×200	1011×200	1156×207	1077×273	1077×273
	Max pressure	MPa	4.5	4.5	4.5	4.5	4.5
Refrigerant type			R32	R32	R32	R32	R32
Refrigerant piping Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88	Φ9.52/Φ15.88
Drainage pipe		mm	DN25	DN25	DN25	DN25	DN25
Operation temp		° C	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32	16 ~ 32
Ambient temp	cooling	° C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	heating	° C	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30
Application area		m2	20-35	28-50	40-70	56-93	64-106