



ZHONGLI HEATING & COOLING EQUIPMENT



Mexico Sale /

Romo Refrigeration

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1993

Founded in 1993

100+

100+ Employees



20,000

20,000 Square Meter Plants

500+

500+ Global Clients

Vision

Strive for a creative,innovative,excellent brand, work together for win-win situation

Mission

All for customer success, provide cost effective customized product offer

Honors

35 years professional production experience in refrigeration area

Focusing on OEM/ODM

5 Star Credit Rating

1 Million units running globally

UL, CCC, CE, CB global certified

Company Profile

No steps even thousands of miles, no small streams into a river, we focus on every detail of production and processing, to Ensure that customers are provided with cost-effective, highlyreliable and sophisticated equipment.

Engineering & Labs & Software



ENGINEERING TEAM



8 ENGINEERS

5+ YEARS EXPRIENCE
IN AVERAGE

DESIGN EXPERTISE IN:

- Coil calculation/design
- Units calculation/design
- Project calculation/matching

LABS-3 PERFORMANCE TESTING LABS

- Evaporator & Condenser Testing
- Condensing Units Testing
- Customized Products Testing



SOFTWARE

- Capacity design and calcaution
- Professional data sheet



We have sophisticated equipment, advanced technology, high-precision testing instruments, so as to greatly improve the processing accuracy, effectively ensure product quality, but also shorten the production cycle of products, and through technological innovation, constantly improve product quality, win the trust of customers.

Plant & Equipments



SHEET METAL WORKSHOP

Laser Cutting Machine x 2
Punching Machine x 10
Shearing Machine x 2
Flanging Machine x 5



COPPER FIN WORKSHOP

Copper Pipe Bending/
Cutting Machine x 5
Copper Pipe Expanding
Machine x 7
Aluminum Strip Blanking
Machine x 6



ASSEMBLY WORKSHOP

Assembling Evpaorator,
Condenser
& Condensing Units x 5
Leakage Detection Stand
(Water Tank) x 3

ZL Series Ceiling type Unit Coolers



MODEL: ZLH - 2.0 / 10

- Series Name
- 2.0: Nominal capacity(Kw)
- 10: Heat exchange area(m²)

Feature

- It is professional design with rich experience to work with freon:R404A/R507A/R134a/R448A/R449A/R454C/R452A/R455A.
- Adopting high-efficiency aluminum fins and copper tube with diameter φ9.52 and φ14.5mm.
- Dividing into 3 series ZLH, ZLM and ZLL depend on different fin space suit to different room temperature demand.

- ZLH for fresh storage with temperature at ≥0 °C.
- ZLM for refrigerate storage with temperature at ≥-18 °C.
- ZLL for freeze storage with temperature at ≥-25 °C.

Advantages

- Copper pipeline is optimized re-design for high heat exhcange efficiency.
- Two sides end plate and water drain plate design into open type: For convenience maintenances.
- Shell metal are made by high-quality steel sheet: high strength, excellent shock resistance. Also spray-treated to be more resistant to corrosion.
- Front shell with inner concave design looks very nice,overall shell with multi-folded design make high strength and less vibration.
- Adopting high quality axial fan motor:Top efficiency, large air flow and low noise.

Specification

ZLH for fresh storage with temperature at ≥0°C (fin space:4.5mm)

Model	Capacity		Heat exchange area	Tube Volume	Connection		Fan Motor				Elctric Defrost	
	Δt=10°C RT=0°C				Liquid	Gas	QTY	Diameter	Power	Air Flow	Coil	Drain pan
	W@50HZ	BTU@60HZ										
ZLH-2.0/10	2000	7370	10	1.77	φ12	φ16	1	φ350	1x190	1x2400	1x0.5	1x0.5
ZLH-3.0/15	3000	11055	15	3.04	φ12	φ16	2	φ350	2x190	2x2400	1x0.9	1x0.9
ZLH-5.0/25	5000	18425	25	4.46	φ12	φ16	3	φ350	3x190	3x2400	1x1.2	1x1.2
ZLH-8.0/40	8000	29480	40	5.95	φ16	φ25	2	φ400	2x227	2x3500	2x1.3	1x1.3
ZLH-11.2/55	11200	41272	55	7.93	φ16	φ25	2	φ400	2x227	2x3250	2x1.3	1x1.3
ZLH-16.2/80	16200	59696	80	11.74	φ19	φ38	2	φ500	2x448	2x6000	2x1.3	1x1.3
ZLH-21.3/105	21300	78490	105	14.67	φ19	φ38	2	φ500	2x448	2x6000	2x1.5	1x1.5
ZLH-25.0/125	25000	92124	125	19.1	φ19	φ38	3	φ500	3x448	3x6000	2x1.9	1x1.9
ZLH-32.6/160	32600	120130	160	22.98	φ19	φ38	3	φ500	3x448	3x6000	2x2.4	1x2.4
ZLH-37.6/185	37600	138554	185	26.68	φ25	φ50	4	φ500	4x448	4x6500	2x2.6	1x2.6

Model	Capacity		Heat exchange area	Tube Volume	Connection		Fan Motor				Elctric Defrost	
	Δt=10°C RT=0°C				Liquid	Gas	QTY	Diameter	Power	Air Flow	Coil	Drain pan
	W@50HZ	BTU@60HZ										
ZLH-42.7/210	42700	157348	210	30.37	φ25	φ50	4	φ500	4x448	4x6000	2x2.8	1x2.8
ZLH-52.9/260	52900	194934	260	37.35	φ25	φ50	4	φ550	4x670	4x7200	3x2.6	1x2.6
ZLH-66.0/330	66000	243207	330	46.59	φ25	φ50	4	φ550	4x670	4x6900	4x2.6	1x2.6
ZLH-82.0/410	82000	302167	410	56.7	φ25	φ50	4	φ600	4x820	4x9100	4x2.8	1x2.8
ZLH-94.0/470	89000	346386	470	69.54	φ28	φ50	4	φ630	4x937	4x11000	5x3.0	1x3.0
ZLH-116/580	101000	427455	580	85.57	φ28	φ50	4	φ630	4x937	4x11000	5x3.0	1x3.0

ZLM for refrigerate storage with temperature at ≥-18°C (fin space:6.0mm)

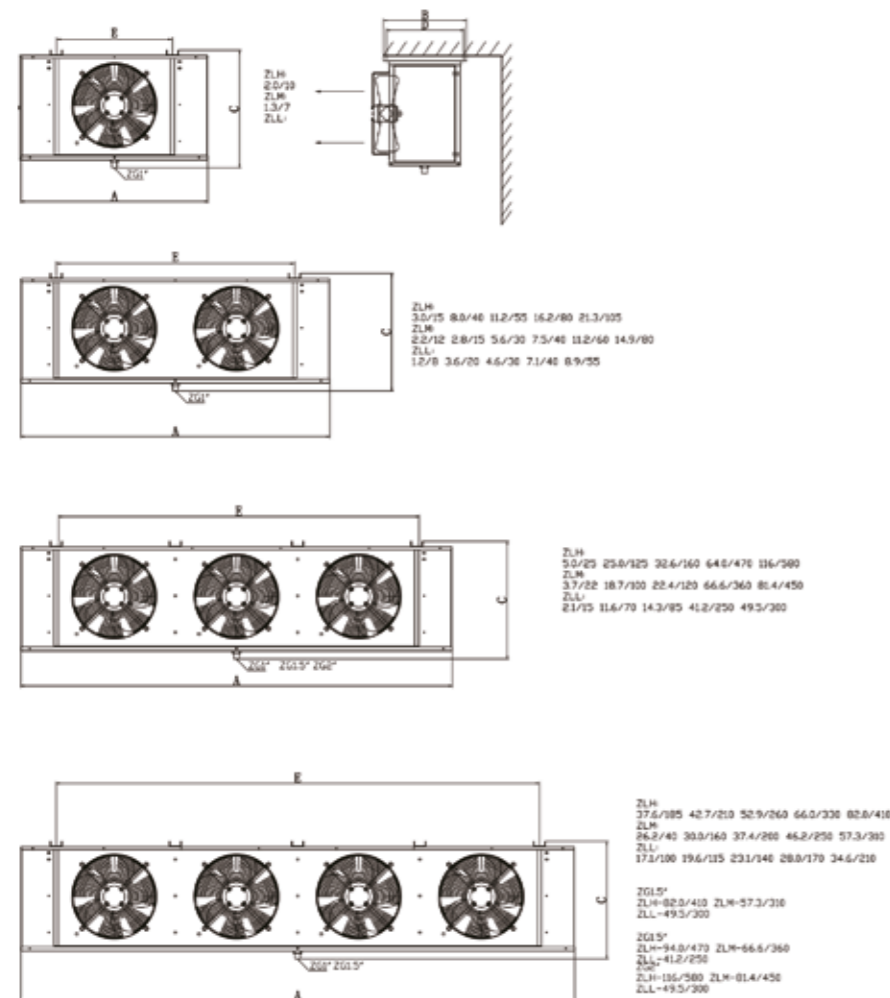
Model	Capacity		Heat exchange area	Tube Volume	Connection		Fan Motor				Elctric Defrost	
	Δt=10°C RT=-18°C				Liquid	Gas	QTY	Diameter	Power	Air Flow	Coil	Drain pan
	W@50HZ	BTU@60HZ										
ZLM-1.3/7	1300	4790	7	1.77	φ12	φ16	1	φ350	1x190	1x2400	2x0.5	1x0.5
ZLM-2.2/12	2200	8107	12	3.04	φ12	φ16	2	φ350	2x190	2x2400	2x0.9	1x0.9
ZLM-2.8/15	2800	10318	15	3.04	φ12	φ16	2	φ350	2x190	2x2400	2x0.9	1x0.9
ZLM-3.7/22	3700	13634	22	4.46	φ12	φ16	3	φ350	3x190	3x2400	2x1.2	1x1.2
ZLM-5.6/30	5600	20636	30	5.95	φ16	φ25	2	φ400	2x227	2x3500	2x1.5	1x1.5
ZLM-7.5/40	7500	27637	40	7.93	φ16	φ25	2	φ400	2x227	2x3250	2x1.5	1x1.5
ZLM-11.2/60	11200	41272	60	11.74	φ19	φ38	2	φ500	2x448	2x6000	5x1.3	1x1.3
ZLM-14.9/80	14900	54906	80	14.67	φ19	φ38	2	φ500	2x448	2x6000	5x1.5	1x1.5
ZLM-18.7/100	18700	68909	100	19.1	φ19	φ38	3	φ500	3x448	3x6000	5x1.9	1x1.9
ZLM-22.4/120	22400	82543	120	22.98	φ19	φ38	3	φ500	3x448	3x6000	5x2.4	1x2.4
ZLM-26.2/140	26200	96546	140	26.68	φ25	φ50	4	φ500	4x448	4x6500	5x2.6	1x2.6
ZLM-30.0/160	30000	110549	160	30.37	φ25	φ50	4	φ500	4x448	4x6000	5x2.8	1x2.8
ZLM-37.4/200	37400	137818	200	37.35	φ25	φ50	4	φ550	4x670	4x7200	6x2.6	1x2.6
ZLM-46.2/250	46200	170245	250	46.59	φ25	φ50	4	φ550	4x670	4x6900	8x2.6	1x2.6
ZLM-57.3/310	57300	211148	310	56.7	φ25	φ50	4	φ600	4x820	4x9100	8x2.8	1x2.8
ZLM-66.6/360	61000	245418	360	69.54	φ28	φ50	4	φ630	4x937	4x11000	8x3.0	1x3.0
ZLM-81.4/450	72000	299956	450	85.57	φ28	φ50	4	φ630	4x937	4x11000	11x3.0	1x3.0

ZLL for freeze storage with temperature at ≥-25°C (fin space:9.0mm)

Model	Capacity		Heat exchange area	Tube Volume	Connection		Fan Motor				Elctric Defrost	
	Δt=10°C RT=-25°C				Liquid	Gas	QTY	Diameter	Power	Air Flow	Coil	Drain pan
	W@50HZ	BTU@60HZ										
ZLL-1.2/8	1200	4422	8	3.04	φ12	φ16	2	φ350	2x190	2x2400	2x0.9	1x0.9
ZLL-2.1/15	2100	7738	15	4.46	φ12	φ16	3	φ350	3x190	3x2400	2x1.2	1x1.2
ZLL-3.6/20	3600	13266	20	5.95	φ16	φ25	2	φ400	2x240	2x3500	2x1.5	1x1.5
ZLL-4.6/30	4600	16951	30	7.93	φ16	φ25	2	φ400	2x240	2x3250	2x1.5	1x1.5
ZLL-7.1/40	7100	26163	40	11.74	φ19	φ38	2	φ500	2x448	2x6000	5x1.3	1x1.3
ZLL-8.9/55	8900	32796	55	14.67	φ19	φ38	2	φ500	2x448	2x6000	5x1.5	1x1.5
ZLL-11.6/70	11600	42746	70	19.1	φ19	φ38	3	φ500	3x448	3x6000	5x1.9	1x1.9
ZLL-14.3/85	14300	52695	85	22.98	φ19	φ38	3	φ500	3x448	3x6000	5x2.4	1x2.4
ZLL-17.1/100	17100	63013	100	26.68	φ25	φ50	4	φ500	4x448	4x6500	5x2.6	1x2.6
ZLL-19.6/115	19600	72225	115	30.37	φ25	φ50	4	φ500	4x448	4x6000	5x2.8	1x2.8
ZLL-23.1/140	23100	85123	140	37.35	φ25	φ50	4	φ550	4x670	4x7200	6x2.6	1x2.6
ZLL-28.0/170	28000	103179	170	46.59	φ25	φ50	4	φ550	4x670	4x6900	8x2.6	1x2.6
ZLL-34.6/210	34600	127500	210	56.7	φ25	φ50	4	φ600	4x820	4x9100	8x2.8	1x2.8
ZLL-41.2/250	38000	151820	250	69.54	φ28	φ50	4	φ630	4x937	4x11000	8x3.0	1x3.0
ZLL-49.5/300	42000	182406	300	85.57	φ28	φ50	4	φ630	4x937	4x11000	11x3.0	1x3.0

Remark: Capacity base on R404a, 50HZ, Condensing temperature 50°C, Superheat 0K.

ZL Air Coolers Installation Dimension Chart (mm)



Model	Overall Size(mm)					Model	Overall Size(mm)				
	A	B	C	D	E		A	B	C	D	E
ZLM-1.3/7 ZLL-2.0/10	765	430	480	355	540	ZLM-22.4/120 ZLL-14.3/85	2790	590	660	505	2455
ZLM-2.2/12 ZLL-3.0/15	1165	430	480	355	940	ZLM-26.2/140 ZLL-17.1/100	3190	590	660	505	2855
ZLM-3.7/22 ZLL-2.1/15	1610	430	480	355	1385	ZLM-30/160 ZLL-19.6/115	3590	590	660	505	3255
ZLM-5.6/30 ZLL-3.6/20	1590	530	560	445	1255	ZLM-37.4/200 ZLL-23.1/140	3190	710	760	625	2855
ZLM-7.5/40 ZLL-3.6/30	1590	530	560	445	1255	ZLM-46.2/250 ZLL-28/170	3390	710	760	625	3055
ZLM-11.2/60 ZLL-7.1/40	1890	590	660	505	1555	ZLM-57.3/310 ZLL-34.6/210	3590	710	860	625	3255
ZLM-14.9/80 ZLL-8.9/55	1890	590	660	505	1555	ZLM-66.6/360 ZLL-41.2/250	3795	730	860	680	3451
ZLM-18.7/100 ZLL-11.6/70	2370	590	660	505	2035	ZLM-81.4/450 ZLL-49.5/300	3795	730	1060	680	3451

EVAPORATORS



DE Series Air Cooler



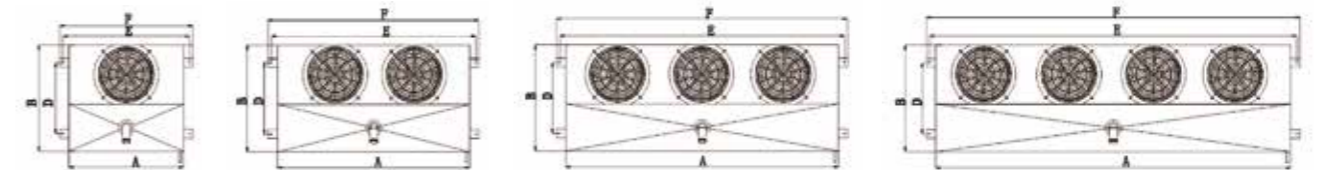
MODEL: DE - 0.45 / 2.5

Series Name
 0.45: Nominal capacity(kw)
 2.5: Heat exchange area(m²)

Characteristics

It suits to commercial refrigerator and freezer. Matching with different types of compressor units.
 Exquisite appearance and install convenient.

- Surface white painting aluminum sheet with high corrosion and vibration resistance.
- Adopting high-quality and famous brand flange motor with high safety standards and reliable installation.
- Reasonable air supply type make the cabinet cooling down rapidly and evenly.
- High quality stainless steel defrost heater evenly distributed in the coil, defrosting fast and well-proportioned.



Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
DE-0.45/2.5	435	390	150	265	505	525
DE-0.9/5.0	745	390	150	265	815	835
DE-1.35/7.5	1055	390	150	265	1125	1145
DE-1.8/10.0	1365	390	150	265	1435	1455

Model	Capacity		Heat exchange area m ²	Tube Volume dm ³	Connection		Fan Motor			Electric Defrost		
	$\Delta t=10^{\circ}\text{C}$ RT=-18 ^o C				Liquid	Gas	QTY	Diameter	Power	Air Flow	Coil	Drain pan
	W@50HZ	BTU@60HZ			mm	mm	pcs	mm	w	m ³ /h	w	w
DE-0.45/2.5	450	1657	2.5	2.6	φ12	φ16	1	200	40	400	500	/
DE-0.9/5.0	900	3315	5	4.52	φ12	φ16	2	200	2x40	2x400	1000	/
DE-1.35/7.5	1350	4972	7.5	6.43	φ12	φ16	3	200	3x40	3x400	1500	/
DE-1.8/10.0	1800	6629	10	8.33	φ12	φ16	4	200	4x40	4x400	2000	/

Remark: Capacity base on R404a, Condensing temperature 50°C, Superheat 0K.

FNF Condenser specification



Feature

- It is professional design with rich experience to work with freon: R404A/R507A/R134a/R448A/R449A/R454C/R452A/R455A.
- Adopting high-efficiency aluminum fins and copper tube with diameter $\phi 9.52\text{mm}$ ($\phi 7\text{mm}$ optional).
- Standard working condition:
Inlet air temperature: +35°C
Condensing temperature: +50°C (15KTD)
Fin space: 2.5mm
- Optional: Two sides with plate cover to protect copper tube, full-painting for two sides copper tube and fins.

Advantages

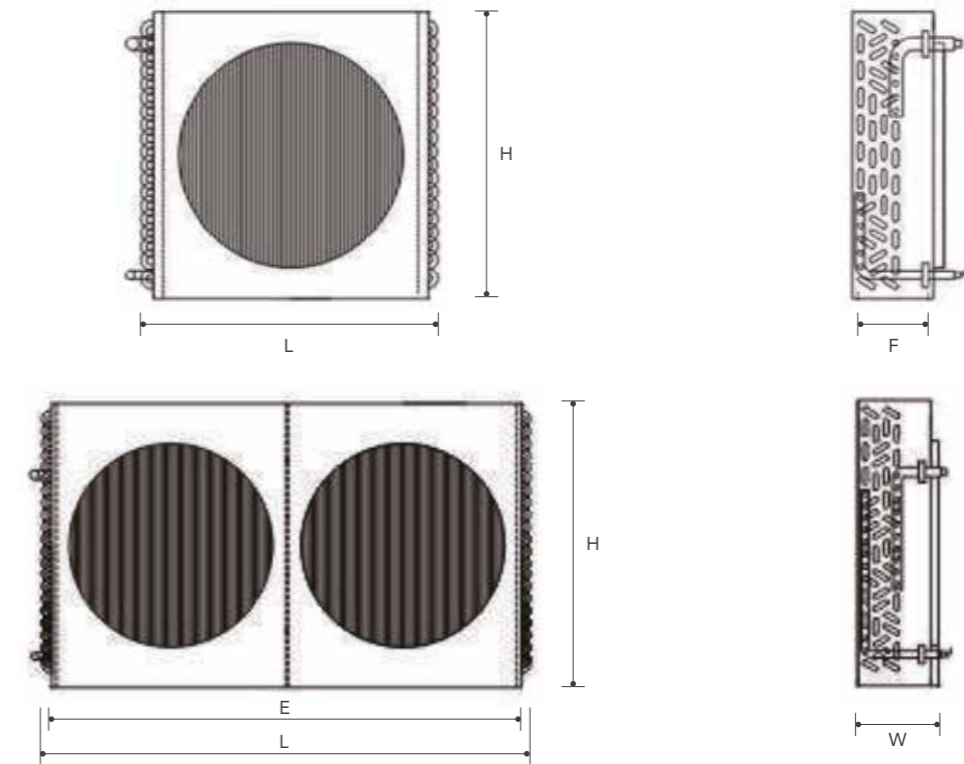
- Copper pipeline is optimized re-design for high heat exchange efficiency.
- U-bent welded by rich experience workers, less leakage and nice looking.
- Shell metal are made by high-quality steel sheet: high strength, excellent shock resistance. Also spray-treated to be more resistant to corrosion.
- Wave type fins to increase heat exchange area, Hydrophilic aluminum (blue fins) or Gold epoxy aluminum (gold fins) as optional.
- Adopting high quality axial fan motor: Top efficiency, large air flow and low noise.

Specification

Model	Capacity		Heat exchange area m ²	Copper tube Rows*Pcs	Fan Motor		Connection Pipe Diameter		Overall Dimension			Installing Dimension	
	KW@50HZ	BTU@60HZ			Air Flow m ³ /h	Diameter φmm	Inlet φmm	Outlet φmm	L mm	W mm	H mm	E mm	F mm
FNF-0.6/2.0	0.60	2211	2	2×8	530	200	10	10	320	100	230	280	70
FNF-0.9/3.4	0.90	3316	3.4	3×8	530	200	10	10	320	100	230	280	70
FNF-1.4/4.4	1.40	5159	4.4	3×10	730	250	10	10	370	120	280	330	70
FNF-1.9/5.7	1.87	6891	5.7	4×10	730	250	10	10	370	120	280	330	90
FNF-2.6/6.2	2.62	9655	6.2	3×12	1664	300	12	12	440	120	330	390	70
FNF-3.7/8.2	3.72	13708	8.2	4×12	1664	300	12	12	440	120	330	390	90
FNF-4.7/10	4.69	17282	10	3×16	2270	350	16	12	515	150	430	455	95
FNF-5.8/13.3	5.76	21225	13.3	4×16	2270	350	16	12	515	170	430	455	145
FNF-5.6/15	5.57	20525	15	4×18	2270	350	16	12	515	170	430	455	145

Model	Capacity		Heat exchange area m ²	Copper tube Rows*Pcs	Fan Motor		Connection Pipe Diameter		Overall Dimension			Installing Dimension	
	KW@50HZ	BTU@60HZ			Air Flow m ³ /h	Diameter φmm	Inlet φmm	Outlet φmm	L mm	W mm	H mm	E mm	F mm
FNF-7.4/18	7.35	27084	18.0	3×16	3328	2×300	16	12	840	180	430	780	145
FNF-8.4/18.5	8.43	31064	18.5	4×20	3541	400	19	16	565	180	530	505	145
FNF-9/21	9.02	33238	21.0	4×20	3541	400	19	16	615	180	530	555	145
FNF-10.3/24.5	10.30	37955	24.5	5×20	3541	400	19	16	590	200	530	530	145
FNF-13/25	12.70	46799	25.0	4×16	4540	2×350	19	16	900	180	430	840	145
FNF-14.2/30	14.16	52179	30	3×23	7082	2×400	22	16	1000	180	615	936	145
FNF-14.1/35	14.13	52068	35.0	5×18	4540	2×350	19	16	900	200	480	840	165
FNF-18/39	17.95	66145	39	4×22	7082	2×400	22	16	1000	180	580	940	125
FNF-21/49	20.89	76979	49.0	5×22	7082	2×400	22	16	1000	200	580	940	145
FNF-22/53	21.74	80111	53	5×24	7082	2×400	22	16	1000	200	630	940	150
FNF-24.2/63	24.21	89213	63.0	6×24	7082	2×400	22	16	1000	220	630	940	170
FNF-27.4/70	27.38	100894	70	4×32	9080	4×350	22	19	1230	200	830	1170	165
FNF-28.6/80	28.56	105242	80.0	4×36	9080	4×350	22	19	1230	200	930	1170	165
FNF-40/88	39.93	147140	88	5×40	14164	4×400	25	19	1000	220	1030	940	150
FNF-40.3/100	40.31	148541	100.0	4×44	14164	4×400	25	22	1230	200	1130	1170	165
FNF-49.5/105	49.47	182295	105	6×40	14164	4×400	25	22	1000	220	1030	940	170
FNF-44.3/130	44.31	163281	130.0	4×54	14164	4×400	25	22	1230	220	1380	1170	165
FNF-55.4/150	55.41	204184	150	5×52	17180	4×450	25	22	1230	250	1330	1170	215
FNF-78/180	78.04	287574	180.0	6×52	25680	4×500	28	25	1230	270	1330	1186	235
FNF-78.1/220	78.12	287869	220	6×48	21246	6×400	32	25	1720	255	1230	1656	220
FNF-93.1/260	93.12	343143	260.0	6×52	25680	6×450	32	25	1840	270	1330	1776	235
FNF-129/320	129.06	475581	320	6×52	38520	6×500	38	28	2200	270	1330	2136	235

Dimension Chart



FNV Series Condenser



Feature

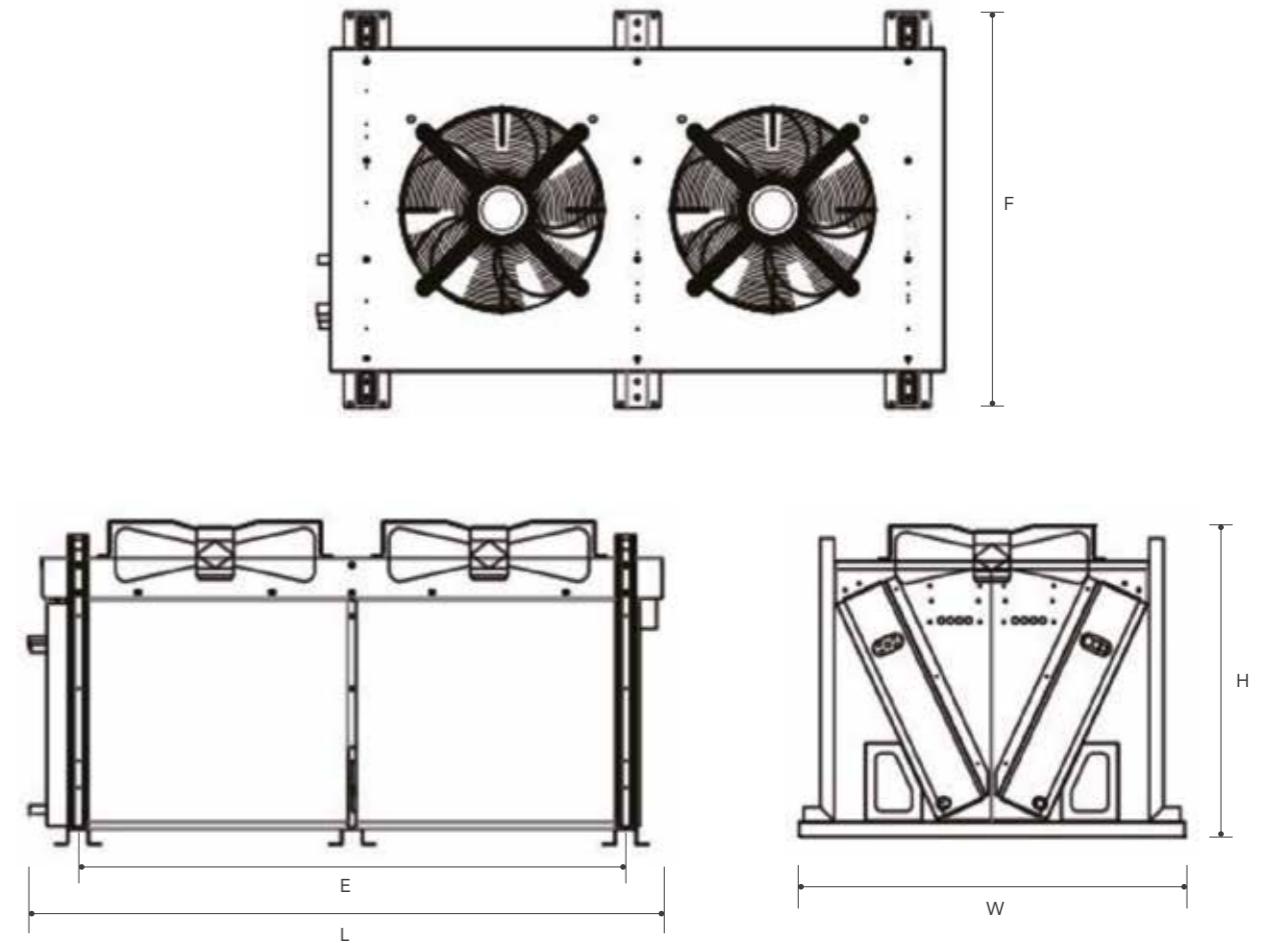
- Adopt high efficiency heat exchange coil with aluminum fins, clean and dry inside copper tube.
- Aluminum fin punching is an extension flap of "L" row, so heat exchange efficiency is very high after expansion.
- Overall shell make spraying treatment and corrosion resistance, Support with multf-flanging design have perfect vibration resistance.
- Axial fan motor can be chose by EBM or Chinese famous brand: High efficiency, low noise, large air volume.

Specification

Model	Capacity		Heat exchange area m ²	Copper tube Rows*Pcs	Fan Motor		Connection Pipe Diameter		Overall Dimension			Installing Dimension	
	KW@50HZ	BTU@60HZ			Air Flow m ³ /h	Diameter φmm	Inlet φmm	Outlet φmm	L mm	W mm	H mm	E mm	F mm
FNV-5002-123	47.74	175920	123	4×24	2×500	2×6500	2×22	2×25	1582	1000	775	1370	980
FNV-5003-219	76.51	281936	219	4×32	3×500	3×6500	2×19	2×28	2011	1030	971	1970	980
FNV-5503-256	95.47	351803	256	4×32	3×550	3×8400	2×19	2×28	2311	1030	971	2130	980
FNV-6002-188	77.93	287169	188	4×32	2×600	2×11000	2×22	2×28	1784	1030	1055	1580	980
FNV-6303-386	146.70	540584	386	5×36	3×630	3×12500	2×22	2×35	2484	1100	1146	2280	1050
FNV-6304-518	196.62	724537	518	5×36	4×630	4×12500	2×28	2×42	3254	1100	1146	3050	1050
FNV-6305-650	246.36	907827	650	5×36	5×630	5×12500	2×28	2×42	4024	1100	1146	3820	1050
FNV-8002-414	138.39	509962	414	5×42	2×800	2×16600	2×35	2×54	2270	1300	1280	2090	1250
FNV-8003-624	208.14	766988	624	5×42	3×800	3×16600	2×35	2×54	3320	1300	1280	3140	1250
FNV-8004-834	278.67	1026888	834	5×42	4×800	4×16600	2×54	2×76	4370	1300	1280	4190	1250
FNV-8005-1044	349.02	1286125	1044	5×42	5×800	5×16600	2×54	2×76	5420	1300	1280	5240	1250
FNV-8006-1254	419.03	1544109	1254	5×42	6×800	6×16600	2×54	2×76	6470	1300	1280	6290	1250

Model	Capacity		Heat exchange area m ²	Copper tube Rows*Pcs	Fan Motor		Connection Pipe Diameter		Overall Dimension			Installing Dimension	
	KW@50HZ	BTU@60HZ			Air Flow m ³ /h	Diameter φmm	Inlet φmm	Outlet φmm	L mm	W mm	H mm	E mm	F mm
FNW-6306-1000	331.64	1222080	1000	16×20	6×630	73205	2×35	2×54	3381	2200	1245	3120	2160
FNW-6306-1100	339.85	1252334	1100	16×20	6×630	73205	2×35	2×54	3681	2200	1245	3420	2160
FNW-6308-1300	439.42	1619245	1300	16×20	8×630	97606	2×35	2×54	4291	2200	1245	4030	2160
FNW-6308-1400	448.66	1653294	1400	16×20	8×630	97606	2×35	2×54	4611	2200	1245	4350	2160
FNW-8008-1500	656.12	2417776	1500	16×20	8×800	159724	2×35	2×54	4791	2200	1245	4530	2160
FNW-8008-1800	681.86	2512627	1800	16×20	8×800	159724	2×35	2×54	5491	2200	1245	5230	2160

Dimension Chart



CONDENSING UNITS

XR/XF Series

- 60Hz M/H temp
- 60Hz Low temp



Model	Compressor			Condenser				Gas Inlet	Liquid Outlet	Overall Dimension LxWxH	Power Supply Optional	
	HP	Capacity(W)		Fan Qty*Dia	Air Flow	Fan Power	Poles					Capacity
		W@60HZ	BTU@60HZ									
CEM6HP(XR110B)	6	13267	45310	2x400	2x3800	2x270	4	22.60	7/8"	1/2"	1280x720x670	
CEM7HP(XR125B)	7	15104	51582	2x400	2x3800	2x270	4	24.37	7/8"	1/2"	1280x720x770	
CEM8HP(XR135B)	8	16336	55791	4x350	4x2600	4x180	4	28.47	7/8"	1/2"	1280x720x870	
CEM9HP(XR162B)	9	19659	67139	4x400	4x3800	4x270	4	29.32	1-1/8"	5/8"	1280x720x970	230V/3PH/60HZ
CEM10HP(XR190B)	10	22861	78075	4x400	4x3800	4x270	4	29.32	1-1/8"	5/8"	1280x720x970	380V/3PH/60HZ
CEM12HP(XR215B)	12	26051	88969	4x400	4x3800	4x270	4	40.23	1-1/8"	5/8"	1280x720x1170	460V/3PH/60HZ
CEM13HP(XR230B)	13	27731	94705	4x400	4x3800	4x270	4	40.23	1-1/8"	5/8"	1280x720x1170	575V/3PH/60HZ
CEM15HP(XR260B)	15	31416	107291	4x400	4x3800	4x270	4	41.82	1-1/8"	5/8"	1280x720x1420	
CEM20HP(XR280B)	20	33470	114306	4x450	4x5100	4x330	4	54.54	1-1/8"	7/8"	1280x820x1370	

Capacity on the base of: E.T.-6.7°C/C.T.48.9°C/SuperHeat 25K/Subcooling 0K, R404A

Configuration

Condenser with axial fan motor, Liquid Receiver, Oil separator (8HP and above), Solenoid valve, Filter drier, LP/HP pressure controller, High and low oil gauge with plate, One extra suction filter drier, contactor, Phase protector (3 phase), Check valve, With HOSE connection.

Advantages

- Compressor fixed by special six-sided rivet nuts which is easy to change for maintenance.
- Adopting hose connection replace to traditional copper tube to reduce leakage rate.
- Adopting high quality scroll compressor with wide range evaporating temperature.
- Big capacity of condenser matched.
- Increase electrical elements into junction box for system protection.

Specification

► XR Series (60HZ M/H temp)

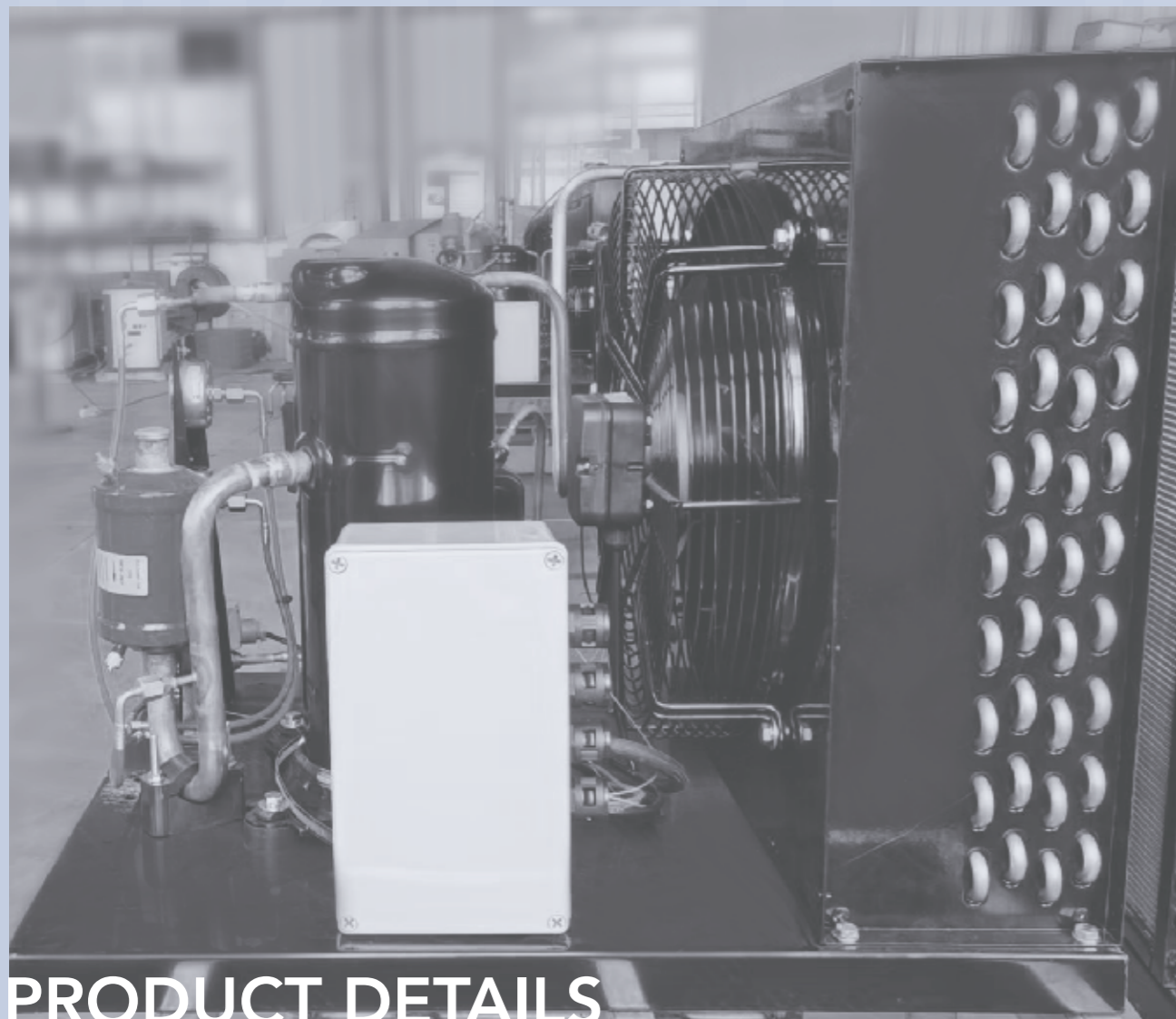
Model	Compressor			Condenser				Gas Inlet	Liquid Outlet	Overall Dimension LxWxH	Power Supply Optional	
	HP	Capacity(W)		Fan Qty*Dia	Air Flow	Fan Power	Poles					Capacity
		W@60HZ	BTU@60HZ									
CEM1.2HP(XR22B)	1.2	2851	9737	1x350	1x2600	1x180	4	5.85	7/8"	3/8"	700x620x470	
CEM1.4HP(XR28B)	1.4	3319	11334	1x350	1x2600	1x180	4	5.85	7/8"	3/8"	700x620x470	
CEM1.7HP(XR32B)	1.7	4033	13774	1x350	1x2600	1x180	4	6.17	7/8"	3/8"	700x620x520	
CEM2HP(XR38B)	2	4592	15681	1x350	1x2600	1x180	4	6.17	7/8"	3/8"	700x620x520	208-230V/1PH/60HZ
CEM2.5HP(XR45B)	2.5	5425	18528	1x400	1x3800	1x270	4	9.00	7/8"	1/2"	700x620x570	230V/3PH/60HZ
CEM3HP(XR52B)	3	6307	21541	1x400	1x3800	1x270	4	10.48	7/8"	1/2"	700x620x570	60HZ
CEM3.5HP(XR63B)	3.5	7636	26080	1x400	1x3800	1x270	4	13.75	7/8"	1/2"	850x650x640	
CEM4HP(XR72B)	4	8706	29732	2x350	2x2600	2x180	4	14.69	7/8"	1/2"	930x700x520	
CEM5HP(XR91B)	5	10935	37346	2x400	2x3800	2x270	4	20.39	7/8"	1/2"	1030x700x720	

► XF Series (60HZ Low temp)

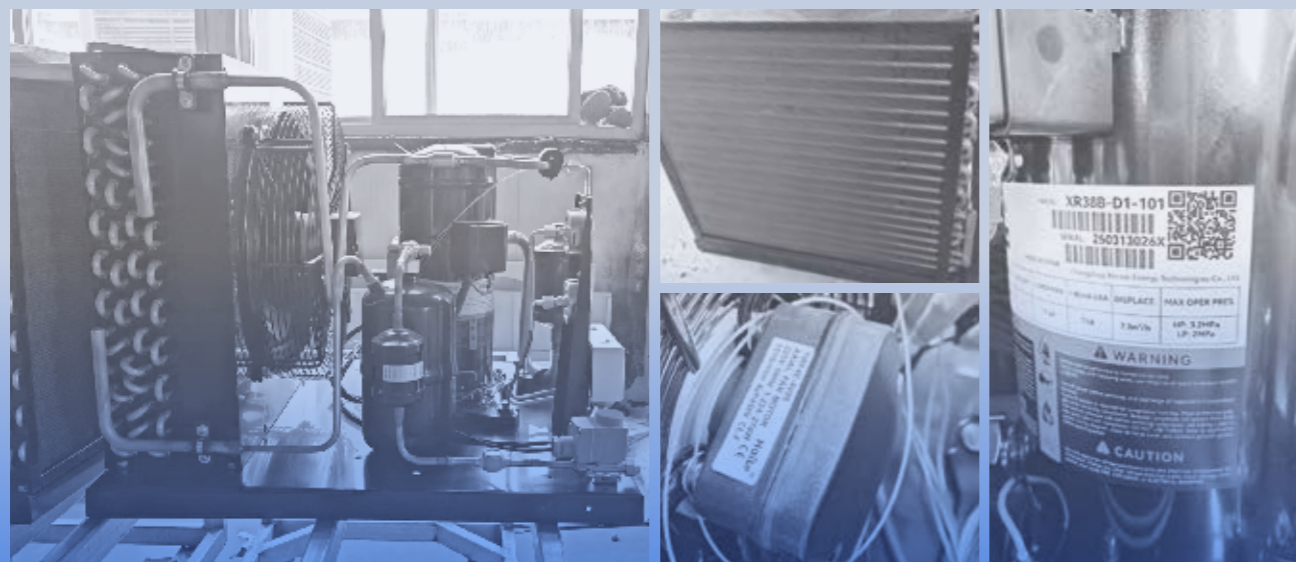
Model	Compressor			Condenser				Gas Inlet	Liquid Outlet	Overall Dimension LxWxH	Power Supply Optional	
	HP	Capacity(W)		Fan Qty*Dia	Air Flow	Fan Power	Poles					Capacity
		W@60HZ	BTU@60HZ									
CEL1.2HP(XFL09B)	1.2	1190	4063	1x350	1x2600	1x180	4	5.85	7/8"	3/8"	700x620x470	
CEL1.4HP(XFL10B)	1.4	1391	4750	1x350	1x2600	1x180	4	5.85	7/8"	3/8"	700x620x470	
CEL1.7HP(XFL12B)	1.7	1698	5799	1x350	1x2600	1x180	4	6.17	7/8"	3/8"	700x620x520	
CEL2.0HP(XFL15B)	2	1935	6607	1x350	1x2600	1x180	4	6.17	7/8"	3/8"	700x620x520	208-230V/1PH/60HZ
CEL2.5HP(XFL17B)	2.5	2293	7831	1x400	1x3800	1x270	4	9.00	7/8"	1/2"	700x620x570	230V/3PH/60HZ
CEL3.0HP(XFL20B)	3	2687	9176	1x400	1x3800	1x270	4	10.48	7/8"	1/2"	700x620x570	60HZ
CEL3.5HP(XFL25B)	3.5	3200	10930	1x400	1x3800	1x270	4	13.75	7/8"	1/2"	850x650x640	
CEL4.0HP(XFL28B)	4	3642	12439	2x350	2x2600	2x180	4	14.69	7/8"	1/2"	930x700x520	
CEL5.0HP(XFL35B)	5	4598	15702	2x400	2x3800	2x270	4	20.39	7/8"	1/2"	1030x700x720	
CEL6.0HP(XFL42B)	6	5493	18761	2x400	2x3800	2x270	4	22.60	7/8"	1/2"	1280x720x670	
CEL7.5HP(XFL51B)	7.5	6783	23166	2x400	2x3800	2x270	4	24.37	7/8"	1/2"	1280x720x770	
CEL9.0HP(XFL62B)	9	8121	27733	4x350	4x2600	4x180	4	28.47	7/8"	1/2"	1280x720x970	
CEL10HP(XFL72B)	10	9434	32220	4x400	4x3800	4x270	4	29.32	1-1/8"	5/8"	1280x720x970	230V/3PH/60HZ
CEL12HP(XFL80B)	12	10748	36706	4x400	4x3800	4x270	4	40.23	1-1/8"	5/8"	1280x720x1170	380V/3PH/60HZ
CEL13HP(XFL88B)	13	11524	39357	4x400	4x3800	4x270	4	40.23	1-1/8"	5/8"	1280x720x1170	460V/3PH/60HZ
CEL15HP(XFL100B)	15	13136	44863	4x400	4x3800	4x270	4	41.82	1-1/8"	5/8"	1280x720x1420	575V/3PH/60HZ
CEL17HP(XFL106B)	17	14689	50165	4x400	4x3800	4x270	4	50.33	1-1/8"	5/8"	1280x820x1370	
CEL20HP(XFL120B)	20	16253	55507	4x450	4x5100	4x330	4	54.54	1-1/8"	7/8"	1280x820x1370	

Capacity on the base of: E.T.-31.7°C/C.T.40.6°C/SuperHeat 50K/Subcooling 0K, R404A

XR52R-D1-101



PRODUCT DETAILS



CONDENSING UNITS



Bitzer Condensing units



Configuration

Condenser with axial fan motor, Liquid Receiver, Oil separator (8HP and above), Suction accumulator (Low temperature), Solenoid valve, Filter drier, LP/HP pressure controller, High and low oil gauge with plate, One extra suction filter drier, contactor, Phase protector (3 phase), Check valve, With HOSE connection.

Advantages

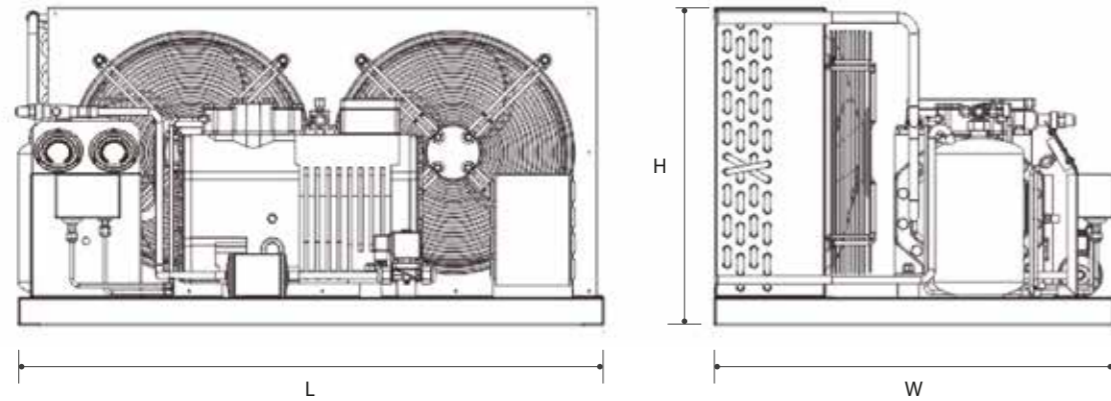
- Compressor fixed by special six-sided rivet nuts which is easy to change for maintenance.
- Adopting hose connection replace to traditional copper tube to reduce leakage rate.
- Adopting Bitzer semi-hermetic compressor with wide range evaporating temperature.
- Big capacity of condenser matched.
- Increase electrical elements into junction box for system protection.

Diagrams for Overall sizes

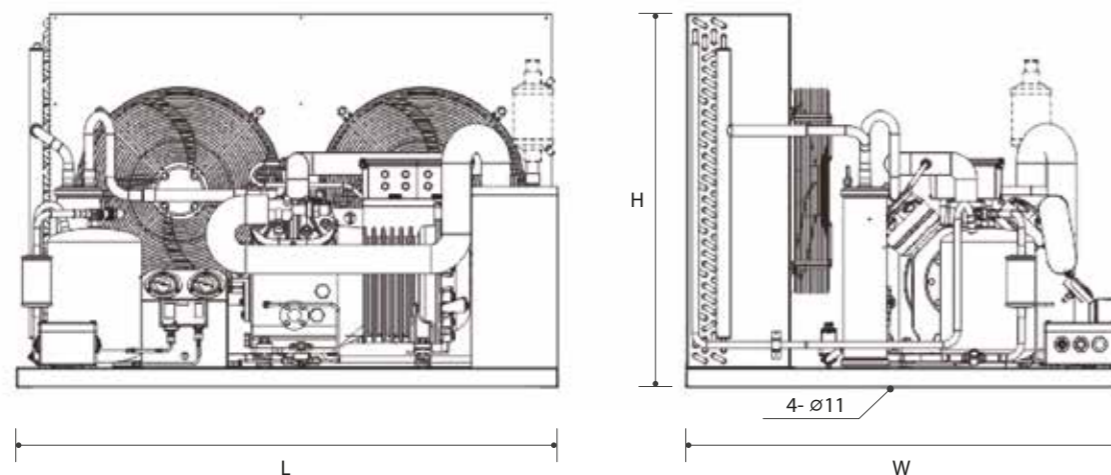
Bitzer V type



Bitzer single stage



Bitzer double stage



Bitzer 2-Stage Compressor Units Series

Model	Compressor			Condenser				Gas Inlet	Liquid Outlet	Overall Dimension LxWxH	Power supply optional	
	HP	Capacity		Fan Qty*Dia	AirFlow	Power of Fan	Poles					Capacity
		W@50HZ	BTU@60HZ									
CEO5.0HP-BL(S4T-5.2Y)	5	3560	14576	2×400	2×3900	2×190	4	13.7	1-1/8"	1/2"	1030×800×620	
CEO8.0HP-BL(S4N-8.2Y)	8	5090	20840	4×350	4×3110	4×145	4	21.0	1-1/8"	5/8"	1270×850×870	
CEO12HP-BL(S4G-12.2Y)	12	8230	33697	4×400	4×3900	4×190	4	28.9	1-3/8"	5/8"	1270×850×1170	380V/420V /3HP/50HZ
CEO16HP-BL(S6G-16.2Y)	16	12320	50443	4×400	4×3900	4×190	4	35.5	1-5/8"	7/8"	1270×850×1420	440V/480V/ 3HP/60HZ
CEO20HP-BL(S6H-20.2Y)	20	14280	58468	4×500	4×6900	4×380	4	51.3	1-5/8"	7/8"	1270×950×1370	
*CEV25HP-BL(S6G-25.2Y)	25	16390	67107	3×500	3×6900	3×380	4	65.7	1-5/8"	7/8"	2060×890×1970	
*CEV30HP-BL(S6G-30.2Y)	30	19590	80209	3×550	3×8500	3×650	4	76.8	1-5/8"	1-1/8"	2360×890×1970	

Data sheet on the base of E.T -35°C/ C.T 50°C/Return air temperature 20°C/Freon R404A, * Means V type condenser with box

Bitzer NO.1 Motor Compressor Units Series(M/H Temperature)

Model	Compressor			Condenser				Gas Inlet	Liquid Outlet	Overall Dimension LxWxH	Power supply optional	
	HP	Capacity		Fan Qty*Dia	AirFlow	Power of Fan	Poles					Capacity
		W@50HZ	BTU@60HZ									
CEM2HP(2GES-2Y)	2	3890	15927	1×400	1×3900	1×190	4	5.8	5/8"	3/8"	700×680×570	
CEM3HP(2FES-3Y)	3	4760	19489	2×350	2×3110	2×145	4	7.5	5/8"	1/2"	920×700×470	
CEM3HP(2EES-3Y)	3	6180	25303	2×350	2×3110	2×145	4	7.5	7/8"	1/2"	920×700×470	220V/240V/ 380V/420V/ 3HP/50HZ
CEM3HP(2DES-3Y)	3	7420	30380	2×350	2×3110	2×145	4	7.5	7/8"	1/2"	920×700×470	
CEM4HP(2CES-4Y)	4	9180	37587	2×350	2×3110	2×145	4	10.5	7/8"	1/2"	920×700×620	
CEM5HP(4FES-5Y)	5	9940	40698	2×400	2×3900	2×190	4	13.7	7/8"	1/2"	1030×800×620	265V/290V/ 440V/480V/ 3HP/60HZ
CEM6HP(4EES-6Y)	6	12510	51221	2×400	2×3900	2×190	4	15.8	1-1/8"	1/2"	1260×750×670	
CEM7HP(4DES-7Y)	7	15220	62317	2×400	2×3900	2×190	4	18.4	1-1/8"	1/2"	1260×750×770	
CEM9HP(4CES-9Y)	9	18520	75828	4×350	4×3110	4×145	4	21.0	1-1/8"	5/8"	1270×850×870	
CEM10HP(4VES-10Y)	10	19180	78531	4×350	4×3110	4×145	4	23.7	1-1/8"	5/8"	1270×850×970	
CEM12HP(4TES-12Y)	12	23300	95400	4×400	4×3900	4×190	4	28.9	1-3/8"	5/8"	1270×850×1170	
CEM15HP(4PES-15Y)	15	26350	107887	4×400	4×3900	4×190	4	35.5	1-5/8"	7/8"	1270×850×1420	
CEM20HP(4NES-20Y)	20	31700	129792	4×500	4×6900	4×380	4	51.3	1-5/8"	7/8"	1270×950×1370	380V/420V/ 3HP/50HZ
*CEM25HP(4HE-25Y)	25	41900	171555	3×500	3×6900	3×380	4	65.7	2-1/8"	7/8"	2060×890×1970	
*CEM30HP(4GE-30Y)	30	48000	196531	3×550	3×8500	3×650	4	76.8	2-1/8"	7/8"	2360×890×1970	440V/480V/ 3HP/60HZ
*CEM35HP(4FE-35Y)	35	58000	237475	3×630	3×13000	3×860	4	87.9	2-1/8"	7/8"	2660×890×1970	
*CEM40HP(6GE-40Y)	40	69900	286199	3×630	3×13000	3×860	4	109.8	2-1/8"	7/8"	2660×1110×2100	
*CEM50HP(6FE-50Y)	50	85100	348433	3×710	3×15600	3×1100	4	148.5	2-1/8"	1-1/8"	2860×1110×2100	

Data sheet on the base of E.T -5°C/ C.T 50°C/Return air temperature 20°C/Freon R404A, * Means V type condenser with box

Bitzer NO.2 Motor Compressor Units Series(Low Temperature)

NOTES

Model	Compressor			Condenser				Gas Inlet Inch	Liquid Outlet Inch	Overall Dimension L×W×H mm	Power supply optional /	
	HP	Capacity		Fan Qty*Dia mm	AirFlow m³/h	Power of Fan w	Poles /					Capacity kw
		W@50HZ	BTU@60HZ									
CEL2HP(2FES-2Y)	2	1910	7820	1×400	1×3900	1×190	4	5.8	5/8"	3/8"	700×680×570	
CEL2HP(2EES-2Y)	2	2450	10031	1×400	1×3900	1×190	4	5.8	7/8"	3/8"	700×680×570	
CEL2HP(2DES-2Y)	2	2990	12242	1×400	1×3900	1×190	4	5.8	7/8"	3/8"	700×680×570	
CEL3HP(2CES-3Y)	3	3810	15600	2×350	2×3110	2×145	4	7.5	7/8"	3/8"	920×700×470 220V/240V/ 380V/420V/ 3HP/50HZ	
CEL3HP(4FES-3Y)	3	4120	16869	2×350	2×3110	2×145	4	7.5	7/8"	3/8"	920×700×470 265V/290V/ 440V/480V/ 3HP/60HZ	
CEL4HP(4EES-4Y)	4	5240	21455	2×350	2×3110	2×145	4	10.8	1-1/8"	1/2"	920×700×620	
CEL5HP(4DES-5Y)	5	6260	25631	2×400	2×3900	2×190	4	13.7	1-1/8"	1/2"	1030×800×620	
CEL6HP(4CES-6Y)	6	7480	30626	2×400	2×3900	2×190	4	15.8	1-1/8"	1/2"	1260×750×670	
CEL7HP(4VES-7Y)	7	7190	29439	2×400	2×3900	2×190	4	18.4	1-1/8"	1/2"	1260×750×770	
CEL9HP(4TES-9Y)	9	9030	36972	4×350	4×3110	4×145	4	21.0	1-3/8"	5/8"	1270×850×870	
CEL12HP(4PES-12Y)	12	9830	40248	4×400	4×3900	4×190	4	28.9	1-3/8"	5/8"	1270×850×1170	
CEL14HP(4NES-14Y)	14	12240	50115	4×400	4×3900	4×190	4	35.5	1-3/8"	5/8"	1270×850×1420	
CEL18HP(4HE-18Y)	18	17720	72553	4×450	4×5000	4×250	4	42.7	1-5/8"	7/8"	1270×950×1370 380V/420V/ 3HP/50HZ	
CEL23HP(4GE-23Y)	23	2100	85982	4×500	4×6900	4×380	4	51.3	2-1/8"	7/8"	1270×950×1370 440V/480V/ 3HP/60HZ	
*CEL28HP(4FE-28Y)	28	25350	103793	3×500	3×6900	3×380	4	65.7	2-1/8"	7/8"	2060×890×1970	
*CEL34HP(6GE-34Y)	34	31800	130202	3×550	3×8500	3×650	4	76.8	2-1/8"	1-1/8"	2360×890×1970	
*CEL44HP(6FE-44Y)	44	37750	154564	3×630	3×13000	3×860	4	109.8	2-1/8"	1-3/8"	2660×1110×2100	

Data sheet on the base of E.T -25°C/ C.T 50°C/Return air temperature 20°C/Freon R404A,* Means V type condenser with box