

CONDENSING UNIT'S GENERAL CATALOGUE



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1.0 TECUMSEH HISTORY, LEGACY AND FUTURE



2.0 ABOUT US



Headquarters
SELANGOR, MALAYSIA

DEMONSTRATED PERFORMANCE

Tecumseh Products Company is renowned for bringing an extra dimension of product innovation, customer reliance and product quality to the air conditioning and refrigeration industry. As a result of our innovative spirit and product performance, people rely on our products every day. We literally touch the lives of millions.

EARLY BEGINNINGS

We developed the first “hermetic” compressors for consumer refrigerators in 1937. As the name Tecumseh became synonymous with commercial refrigeration and central home air conditioning, we expanded our product line to include automotive air conditioning compressors in 1953. Our reputation for innovation for innovation was further enhanced in 1959 when we developed the first high-speed hermetically sealed compressor for commercial applications.

TECUMSEH INNOVATION

Today, we engineer a full line of hermetically sealed compressors for residential and specialty air conditioning, home refrigerators and freezers, and commercial refrigeration. But our expertise doesn't stop there; we also offer a complete line of indoor and outdoor condensing units, evaporator coils, heat pumps, complete refrigeration systems and authorized spare parts.

GLOBAL PRODUCTS

Our products can be quickly accessed from manufacturing facilities on four continents when needed on a worldwide basis. We can provide coordination among our global facilities and your plants locations anywhere, so product selection, specifications and delivery of products are assured.

UNWAVERING COMMITMENT

Tecumseh has responded to the challenges of the refrigeration and air-conditioning marketplace for our seven decades, leading the way with improved products and service in support of the industry we serve. A company wide dedication to quality control has already earned Tecumseh the highest quality rating from major refrigeration and air conditioning manufacturers and the people we employ are honoured to touch so many lives in so many countries every day.

3.0 GENERAL INFORMATION



CONDENSING UNIT

ENI3215	DOMESTIC APPLICATION	LBP	HP/MBHP
EVAPORATING TEMPERATURE	-25°C	35°C	5°C
AMBIENT TEMPERATURE	32°C	32°C	32°C
RETURN GAS TEMPERATURE	32°C	32°C	20°C
SUBCOOLING	3K	3K	3K

UNIT CONVERSION

*For the conversion of the refrigeration capacity from att at 50Hz to:

- Btu/hr at 50Hz, use multiplying factor 3.41
- Kcal/hr at 50Hz, use multiplying factor 0.86

Conversion factor for obtaining the capacity in HP

- in medium and high back pressure and all air conditioning.
(Evap Temp: +7.2, Cond. Temp. : 54.5)
- in low back pressure
(Evap Temp: -23.3, Cond Temp: 54.5)

HP = $\frac{\text{Performance at 60hz in Btu/hr}}{12,000}$

HP = $\frac{\text{Performance at 60hz in Btu/hr}}{4,000}$

VOLTAGE CODE

CODE	AA	CZ	ES	FZ	GS
PHASE	I	I	I	I	I
50Hz Rated (V)	-	208	-	220-240	220
Approved Range (V)	-	187-230	-	198-253	180-242
60Hz Rated (V)	115	230	220	-	220
Approved Range (V)	103-127	207-253	187-242	-	187-242

VOLTAGE CODE

CODE	KZ	TZ	XA	XC	XG	XN
PHASE	3	3	I	I	3	I
50Hz Rated (V)	220	400	100	220-240	380-420	200-220
Approved Range (V)	180-253	340-440	90-110	198-253	342-462	187-242
60Hz Rated (V)	220	440	115	-	460	208-230
Approved Range (V)	187-264	396-499	103-127	-	396-506	187-254

4.0 INTRODUCTION (STANDARD UNIT)

Our vast array of condensing units is endorsed by 90 years of commercial refrigeration expertise, from small indoor evaporative units to large indoor and outdoor units. Tecumseh's products are built to last and to withstand the test of time. Our everlasting commitment to quality and reliability has built a solid foundation for us today. From small indoor evaporative units to large indoor and outdoor units. Tecumseh has all the right solutions for the latest market demands in the commercial refrigeration market.

WHY TECUMSEH CONDENSING UNITS?



RELIABILITY

Tecumseh's products are made from the highest of quality to provide our customers a peace of mind.



AN EXTENSIVE ASSORTMENT OF PRODUCTS

Our wide range of products are made to cater the needs of the current market demands.



CUSTOMER SERVICE

Our utmost commitment to provide our customers the best technical and application support.



INNOVATION

Leading the market with our cutting edge technology and exemplary customer service.



NEW GENERATION
HIGH-EFFICIENCY COMPRESSOR
AE² STANDARD (50Hz & 60Hz)



NEW GENERATION
HIGH-EFFICIENCY COMPRESSOR
AJ² STANDARD (50Hz & 60Hz)

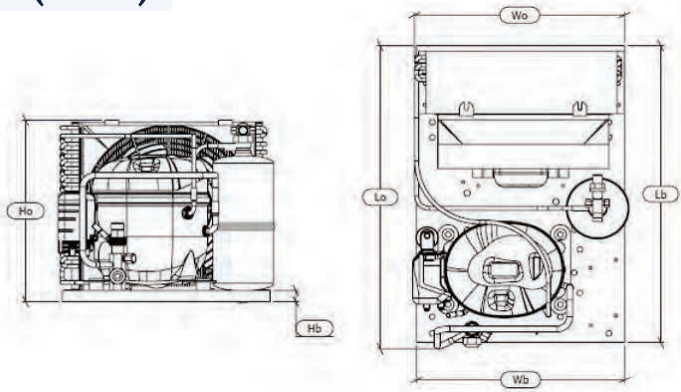


NEW GENERATION
HIGH-EFFICIENCY COMPRESSOR
FH² STANDARD (50Hz & 60Hz)



NEW GENERATION
HIGH-EFFICIENCY COMPRESSOR
AG STANDARD (50Hz & 60Hz)

4.1 AE² STANDARD (50Hz)



UNIT DIMENSION

Dimension I						Dimension II						Dimension III					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
Ho (mm)	Wo (mm)	Lo (mm)	Hb (mm)	Wb (mm)	Lb (mm)	Ho (mm)	Wo (mm)	Lo (mm)	Hb (mm)	Wb (mm)	Lb (mm)	Ho (mm)	Wo (mm)	Lo (mm)	Hb (mm)	Wb (mm)	Lb (mm)
237	300	350	8	289	350	298	330	485	18	330	485	338	425	480	18	425	480

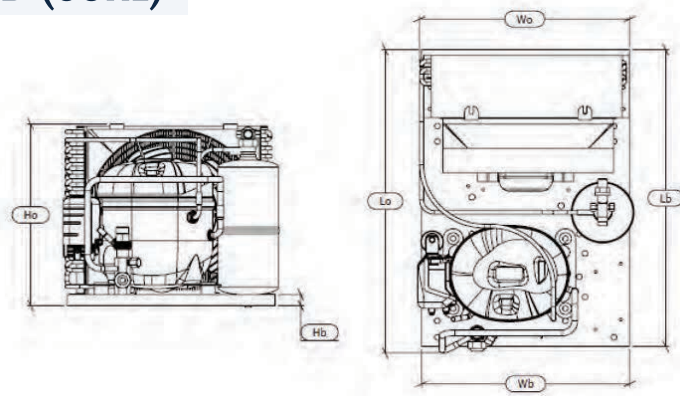
UNIT SPECIFICATION

Model		HP	Disp. (cm³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	AE2410ZBR-FZ	1/4	5.02	CSIR	92	132	178	229	285	1.6	2.7	0.75	9.50 (3/8")	6.35 (1/4")	I	18.8	59
	AE2415ZBR-FZ	3/8	7.33	CSIR	150	200	255	316	382	2.1	3.2	0.82	9.50 (3/8")	6.35 (1/4")	I	19.4	59
	AE2420ZBR-FZ	1/2	9.35	CSIR	192	259	335	420	513	2.5	4.6	0.89	9.50 (3/8")	6.35 (1/4")	I	20.7	59
	AE2425ZBR-FZ	5/8	12.01	CSIR	256	344	443	553	671	2.9	4.8	0.84	9.50 (3/8")	6.35 (1/4")	II	25.5	65
	AE2430ZBR-FZ	3/4	14.51	CSR	329	451	579	718	869	4.1	6.8	1.31	9.50 (3/8")	6.35 (1/4")	II	25.7	65
LBP-(R-290)	AE2410UB-FZ	1/4	5.48	CSIR	84	123	168	221	280	1.7	3.5	0.72	9.50 (3/8")	6.35 (1/4")	I	17.0	59
	AE2415UB-FZ	3/8	8.85	CSIR	132	191	257	329	407	2.1	3.1	0.85	9.50 (3/8")	6.35 (1/4")	I	17.0	59
	AE2420UB-FZ	1/2	10.96	CSIR	216	283	360	446	541	2.5	3.9	0.97	9.50 (3/8")	6.35 (1/4")	I	17.1	59

Model		HP	Disp. (cm³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	AE4425ZHR-FZ	1/5	4.24	CSIR	278	336	398	464	534	2.0	3.0	1.33	9.50 (3/8")	6.35 (1/4")	I	19.1	62
	AE4430ZHR-FZ	1/4	5.16	CSIR	359	437	521	610	703	2.3	3.1	1.50	9.50 (3/8")	6.35 (1/4")	I	19.3	60
	AE4440ZHR-FZ	1/3	6.69	CSIR	491	596	709	831	959	3.3	4.3	1.40	9.50 (3/8")	6.35 (1/4")	II	23.9	66
	AE4450ZHR-FZ	3/8	8.85	CSIR	624	746	874	1005	1139	4.0	5.7	1.39	9.50 (3/8")	6.35 (1/4")	II	24.9	70
	AE4460ZHR-FZ	1/2	10.33	CSIR	698	808	922	1038	1156	4.9	6.5	1.25	9.50 (3/8")	6.35 (1/4")	II	24.8	70
	AE4470ZHR-FZ	5/8	12.10	CSR	941	1118	1308	1510	1724	4.3	5.9	1.60	9.50 (3/8")	6.35 (1/4")	III	27.6	70
HBP-(R-290)	AE4425UH-FZ	1/5	5.02	CSIR	295	359	429	504	584	1.8	2.4	1.54	9.50 (3/8")	6.35 (1/4")	I	17.0	62
	AE4430UH-FZ	1/4	6.12	CSIR	363	447	540	642	749	2.1	2.8	1.70	9.50 (3/8")	6.35 (1/4")	I	17.2	60
	AE4440UH-FZ	1/3	8.02	CSIR	483	580	684	794	911	3.0	3.9	1.47	9.50 (3/8")	6.35 (1/4")	II	18.9	66
	AE4450UH-FZ	3/8	10.33	CSIR	628	744	868	1000	1141	3.6	5.0	1.48	9.50 (3/8")	6.35 (1/4")	II	19.2	70
	AE4460UH-FZ	1/2	12.01	CSIR	653	789	933	1084	1245	4.2	5.7	1.38	9.50 (3/8")	6.35 (1/4")	II	19.2	70
HBP-(R-134A)	AE4425YHR-FZ	1/5	6.69	CSIR	231	300	375	453	534	1.8	2.6	1.33	9.50 (3/8")	6.35 (1/4")	I	17.7	59
	AE4430YHR-FZ	1/4	8.02	CSIR	324	410	506	612	727	2.4	2.8	1.56	9.50 (3/8")	6.35 (1/4")	I	15.2	59
	AE4440YHR-FZ	1/3	10.33	CSIR	422	519	626	742	866	2.8	3.4	1.56	9.50 (3/8")	6.35 (1/4")	II	17.3	59
	AE4450YHR-FZ	3/8	13.24	CSIR	562	692	835	990	1155	3.7	5.2	1.61	9.50 (3/8")	6.35 (1/4")	II	25.0	69
	AE4456YHR-FZ	1/2	14.51	CSIR	622	767	926	1099	1284	4.2	8.6	1.59	9.50 (3/8")	6.35 (1/4")	II	25.8	69
	AE4460YHR-FZ	1/2	15.09	CSIR	642	794	960	1140	1332	3.6	5.3	1.69	9.50 (3/8")	6.35 (1/4")	II	25.4	70

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

4.2 AE² STANDARD (60Hz)



UNIT DIMENSION

Dimension I						Dimension II						Dimension III					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
237	300	350	8	289	350	298	330	485	18	330	485	338	425	480	18	425	480

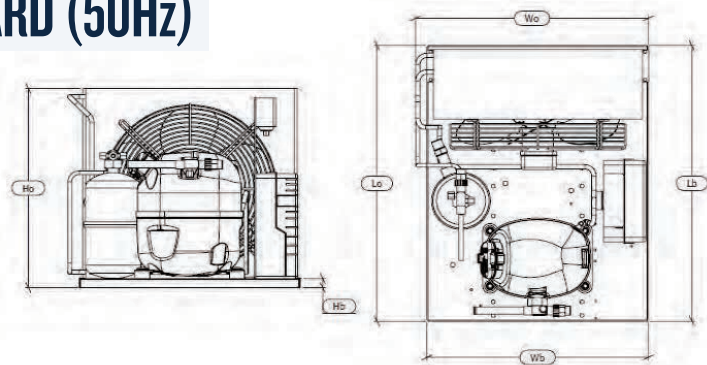
UNIT SPECIFICATION

Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	AE2415ZBR-GS	3/8	7.33	CSIR	172	227	289	357	430	2.2	22.4	0.87	9.50 (3/8")	6.35 (1/4")	I	19.5	59
	AE2410ZBR-XA	1/4	5.02	CSIR	116	158	205	259	319	3.8	26.0	0.74	9.50 (3/8")	6.35 (1/4")	I	18.2	59
	AE2415ZBR-XA	3/8	7.33	CSIR	160	217	281	351	425	4.7	31.0	0.78	9.50 (3/8")	6.35 (1/4")	I	19.4	60
	AE2420ZBR-XA	1/2	9.35	CSIR	222	302	392	490	594	5.6	36.0	0.91	9.50 (3/8")	6.35 (1/4")	I	20.6	60
	AE2425ZBR-XA	5/8	12.01	CSR	314	413	522	638	763	6.8	44.0	0.86	9.50 (3/8")	6.35 (1/4")	II	25.9	65

Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	AE4425ZHR-GS	1/5	4.24	CSIR	336	408	482	556	628	2.3	14.4	1.4	9.50 (3/8")	6.35 (1/4")	I	20.1	62
	AE4430ZHR-GS	1/4	5.16	CSIR	433	529	630	733	837	2.6	19.1	1.59	9.50 (3/8")	6.35 (1/4")	I	20.3	60
	AE4440ZHR-GS	1/3	6.69	CSIR	557	682	820	970	1131	3.8	22.0	1.47	9.50 (3/8")	6.35 (1/4")	II	24.7	66
	AE4450ZHR-GS	3/8	8.85	CSIR	756	893	1036	1183	1331	3.8	22.0	1.43	9.50 (3/8")	6.35 (1/4")	II	24.9	69
	AE4460ZHR-GS	1/2	10.33	CSR	821	957	1098	1242	1390	4.3	23.0	1.35	9.50 (3/8")	6.35 (1/4")	II	25.3	70
	AE4425ZHR-XA	1/5	4.24	CSIR	343	412	483	555	627	4.5	24.0	1.37	9.50 (3/8")	6.35 (1/4")	I	19.1	61
	AE4450ZHR-XA	3/8	8.85	CSIR	752	893	1043	1199	1358	9.5	45.0	1.38	9.50 (3/8")	6.35 (1/4")	II	24.9	69
	AE4460ZHR-XA	1/2	10.33	CSIR	832	965	1101	1241	1382	10.9	51.0	1.27	9.50 (3/8")	6.35 (1/4")	II	24.5	70
	AE4470ZHR-XA	5/8	12.10	CSR	1064	1248	1450	1670	1907	10.0	49.0	1.58	9.50 (3/8")	6.35 (1/4")	III	28.0	71
HBP - (R-134A)	AE4425YHR-GS	1/5	6.69	CSIR	290	366	449	537	628	2.1	12.3	1.43	9.50 (3/8")	6.35 (1/4")	I	17.6	59
	AE4430YHR-GS	1/4	8.02	CSIR	387	487	598	719	849	2.5	17.2	1.62	9.50 (3/8")	6.35 (1/4")	I	20.5	59
	AE4440YHR-GS	1/3	10.33	CSIR	518	640	769	903	1039	3.2	18.6	1.65	9.50 (3/8")	6.35 (1/4")	II	18.8	60
	AE4450YHR-GS	3/8	13.24	CSR	658	803	962	1134	1316	3.5	22.0	1.57	9.50 (3/8")	6.35 (1/4")	II	25.0	69
	AE4425YHR-XA	1/5	6.69	CSIR	306	384	469	559	655	4.2	25.0	1.44	9.50 (3/8")	6.35 (1/4")	I	17.6	60
	AE4430YHR-XA	1/4	8.02	CSIR	382	482	593	712	838	5.3	30.0	1.52	9.50 (3/8")	6.35 (1/4")	I	19.1	60
	AE4440YHR-XA	1/3	10.33	CSIR	491	604	729	867	1015	6.4	32.0	1.49	9.50 (3/8")	6.35 (1/4")	II	18.8	60
	AE4456YHR-XA	1/2	14.51	CSIR	732	902	1088	1289	1505	9.1	45.0	1.54	9.50 (3/8")	6.35 (1/4")	II	25.8	70

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

4.3 AJ² STANDARD (50Hz)



UNIT DIMENSION

Dimension I						Dimension II						Dimension III					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
300	343	510	20	330	485	340	430	490	20	425	480	445	512	607	20	474	610

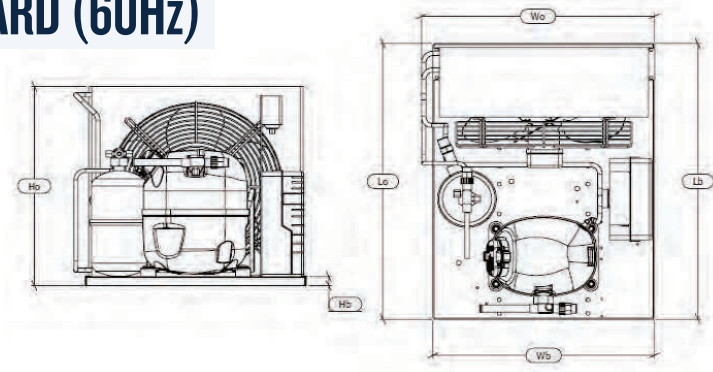
UNIT SPECIFICATION

Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	CAJ2428ZBR-FZ	2/3	15.20	CSIR	235	330	440	564	699	3.9	5.7	0.72	12.70 (1/2")	6.35 (1/4")	I	32.0	57
	TAJ2428ZBR-FZ	2/3	15.20	TRI	244	339	448	570	703	1.5	2.5	0.78	12.70 (1/2")	6.35 (1/4")	I	31.0	65
	CAJ2432ZBR-FZ	3/4	18.30	CSR	274	388	516	656	801	3.0	6.5	0.77	12.70 (1/2")	6.35 (1/4")	I	32.0	65
	CAJ2440ZBR-FZ	1	21.00	CSR	347	475	612	782	953	3.6	6.3	0.80	12.70 (1/2")	9.50 (3/8")	I	32.0	70
	CAJ2446ZBR-FZ	1	26.20	CSR	509	694	901	1127	1368	4.6	8.8	1.00	12.70 (1/2")	9.50 (3/8")	II	35.0	69
	TAJ2446ZBR-FZ	1	26.20	TRI	487	662	860	1079	1317	1.9	3.3	1.00	12.70 (1/2")	9.50 (3/8")	II	38.0	69
	CAJ2464ZBR-FZ	1 1/2	34.50	CSR	659	876	1120	1386	1667	6.3	10.6	0.94	15.90 (5/8")	9.50 (3/8")	II	37.0	68
	TAJ2464ZBR-TZ	1 1/2	34.50	TRI	650	867	1111	1378	1663	2.6	3.7	1.06	15.90 (5/8")	9.50 (3/8")	II	41.0	69

Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP - R-404A	CAJ9480ZMHR-FZ	2/3	15.20	CSR	1038	1250	1477	1717	1966	4.9	7.3	1.62	12.70 (1/2")	9.50 (3/8")	II	33.0	70
	TAJ9480ZMHR-TZ	2/3	15.20	TRI	1048	1261	1489	1729	1977	2.2	3.4	1.63	12.70 (1/2")	9.50 (3/8")	II	34.0	70
	CAJ9510ZMHR-FZ	1	18.30	CSR	1267	1516	1782	2061	2352	6.0	9.0	1.63	15.90 (5/8")	9.50 (3/8")	II	37.0	69
	TAJ9510ZMHR-TZ	1	18.30	TRI	1285	1531	1791	2062	2338	2.5	3.3	1.60	15.90 (5/8")	9.50 (3/8")	II	36.0	70
	CAJ9513ZMHR-FZ	1 1/8	24.20	CSR	1510	1815	2125	2432	2725	7.3	11.9	1.68	15.90 (5/8")	9.50 (3/8")	II	40.0	69
	TAJ9513ZMHR-TZ	1 1/8	24.20	TRI	1455	1747	2048	2349	2645	3.2	4.3	1.61	15.90 (5/8")	9.50 (3/8")	II	38.0	71
	CAJ4517ZHR-FZ	1 1/2	25.95	CSR	1814	2166	2542	2938	3352	7.9	13.3	1.74	15.90 (5/8")	9.50 (3/8")	III	48.0	76
	TAJ4517ZHR-TZ	1 1/2	25.95	TRI	1795	2166	2557	2964	3384	3.4	4.4	1.67	15.90 (5/8")	9.50 (3/8")	III	43.0	76
	CAJ4519ZHR-FZ	1 3/5	34.50	CSR	2303	2770	3255	3750	4247	10.6	15.9	1.62	15.90 (5/8")	9.50 (3/8")	III	48.0	76
	TAJ4519ZHR-TZ	1 3/5	34.50	TRI	2314	2752	3205	3667	4131	4.4	5.2	1.68	15.90 (5/8")	9.50 (3/8")	III	45.0	76
HBP-R-134A	CAJ4452YHR-FZ	2/5	15.20	CSR	493	628	775	931	1094	4.1	6.1	1.29	12.70 (1/2")	6.35 (1/4")	I	31.0	69
	CAJ4461YHR-FZ	1/2	18.30	CSIR	595	739	896	1062	1235	4.6	6.5	1.30	12.70 (1/2")	6.35 (1/4")	I	33.0	69
	TAJ4461YHR-TZ	1/2	18.30	TRI	617	765	927	1101	1283	1.7	2.6	1.48	12.70 (1/2")	6.35 (1/4")	I	30.0	67
	CAJ4476YHR-FZ	2/3	21.80	CSIR	753	965	1200	1457	1733	5.3	7.5	1.51	12.70 (1/2")	9.50 (3/8")	II	31.0	69
	CAJ4492YHR-FZ	3/4	25.95	CSIR	953	1211	1495	1804	2134	6.3	9.5	1.66	12.70 (1/2")	9.50 (3/8")	II	34.0	68
	TAJ4492YHR-TZ	3/4	25.95	TRI	917	1202	1509	1836	2179	2.1	3.2	1.94	12.70 (1/2")	9.50 (3/8")	II	33.0	67
	CAJ4511YHR-FZ	1	32.70	CSR	1218	1519	1843	2184	2536	5.7	9.2	1.78	15.90 (5/8")	9.50 (3/8")	II	35.0	68
	TAJ4511YHR-TZ	1	32.70	TRI	1198	1497	1817	2154	2504	2.8	3.7	1.75	15.90 (5/8")	9.50 (3/8")	II	43.0	68

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

4.4 AJ² STANDARD (60Hz)



UNIT DIMENSION

Dimension I						Dimension II						Dimension III					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
300	343	510	18	330	485	340	430	490	18	425	480	445	512	607	20	474	610

UNIT SPECIFICATION

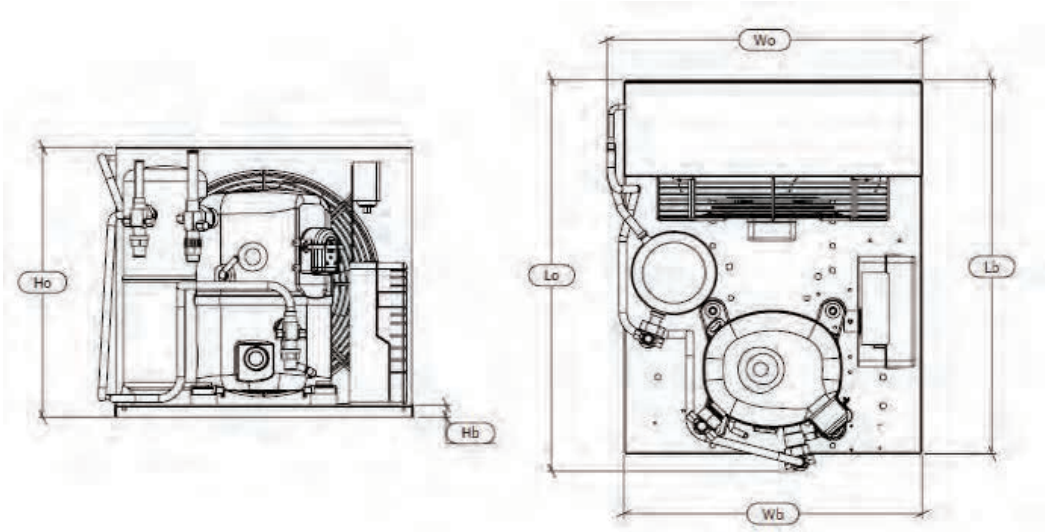
Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	CAJ2432ZBR-HZ	3/4	18,3	CSR	337	469	620	783	953	3,9	7,0	0,76	12,70 (1/2")	6,35 (1/4")	I	33,6	69
	CAJ2446ZBR-HZ	1	26,2	CSR	593	799	1032	1289	1568	5,7	12,4	0,95	12,70 (1/2")	9,50 (3/8")	II	36,0	69
	CAJ2464ZBR-HZ	11/2	34,5	CSR	707	955	1235	1545	1880	7,1	14,6	0,91	12,70 (1/2")	9,50 (3/8")	II	38,0	70

Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (Kg)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	CAJ9480ZMHR-HZ	2/3	15.2	CSR	1279	1519	1770	2026	2279	4.7	7.3	1.61	12.70 (1/2")	9.50 (3/8")	II	34.0	70
	CAJ9510ZMHR-HZ	1	18.3	CSR	1580	1867	2167	2463	2740	7.9	12.4	1.65	15.90 (5/8")	9.50 (3/8")	II	36.0	70
	CAJ9513ZMHR-HZ	1 1/8	24.2	CSR	1814	2179	2553	2928	3295	9.0	14.3	1.64	15.90 (5/8")	9.50 (3/8")	II	39.0	71
	CAJ9513ZMHR-XA	1 1/8	24.2	CSR	1780	2156	2542	2931	3316	17.3	23.5	1.56	15.90 (5/8")	9.50 (3/8")	II	39.0	65
	TAJ4517ZHR-KZ	1 1/2	26.0	TRI	2305	2716	3160	3619	4075	6.6	7.6	1.79	15.90 (5/8")	9.50 (3/8")	III	47.0	76
	CAJ4519ZHR-HZ	1 3/5	34.5	CSR	2980	3580	4190	4785	5340	12.3	17.0	1.75	15.90 (5/8")	9.50 (3/8")	III	49.0	77
HBP-(R-134A)	CAJ4461YHR-XA	1/2	18.3	CSIR	744	932	1136	1351	1574	10.5	14.7	1.41	12.70 (1/2")	6.35 (1/4")	I	32.0	69
	CAJ4492YHR-HZ	3/4	26.0	CSIR	1024	1375	1741	2114	2484	7.8	10.8	1.78	12.70 (1/2")	9.50 (3/8")	II	35.0	69

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K



4.5 FH² STANDARD (50Hz)



UNIT DIMENSION

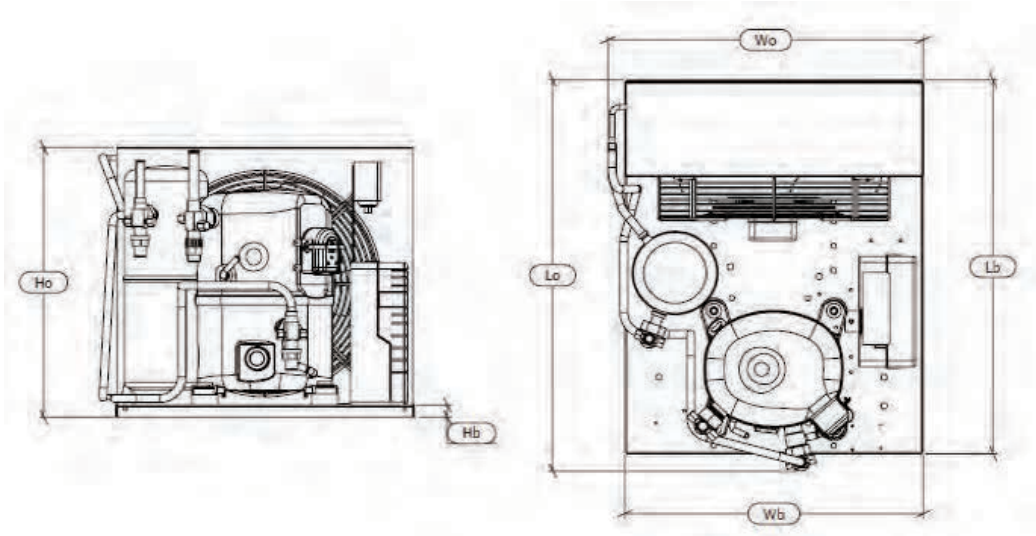
Dimension I						Dimension II					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
Ho (mm)	Wo (mm)	Lo (mm)	Hb (mm)	Wb (mm)	Lb (mm)	Ho (mm)	Wo (mm)	Lo (mm)	Hb (mm)	Wb (mm)	Lb (mm)
450	512	630	20	474	610	469	618	1002	43	590	894

UNIT SPECIFICATION

Model		HP	Disp. (cm³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	FH2480ZBR-XC	2	53.2	CSR	852	1233	1628	2086	2519	8.4	20.1	0.84	15.90 (5/8")	9.50 (3/8")	I	57	76
	FH2480ZBR-XG	2	53.2	TRI	824	1226	1641	2069	2509	3.2	5.2	1.10	15.90 (5/8")	9.50 (3/8")	I	53	74
	FH2511ZBR-XC	2 3/4	74.2	CSR	1086	1560	2086	2656	3260	12.2	24.7	0.90	15.90 (5/8")	9.50 (3/8")	I	58	78
	FH2511ZBR-XG	2 3/4	74.2	TRI	1083	1519	2019	2577	3184	4.1	5.4	1.03	15.90 (5/8")	9.50 (3/8")	I	54	79
Model		HP	Disp. (cm³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	FH4524ZHR-XC	2	43.3	CSR	2442	2986	3546	4114	4684	11.5	18.9	1.56	15.90 (5/8")	9.50 (3/8")	I	57	78
	FH4524ZHR-XG	2	43.3	TRI	2457	3009	3579	4155	4724	4.7	6.7	1.63	15.90 (5/8")	9.50 (3/8")	I	53	77
	FH4532ZHR-XC	2 3/5	50.6	CSR	3449	4334	5221	6117	7032	15.6	27.8	1.80	22.2 (7/8")	12.7 (1/2")	II	80	79
	FH4532ZHR-XG	2 3/5	50.6	TRI	3461	4226	5044	5912	6828	6.1	9.0	1.80	22.2 (7/8")	12.7 (1/2")	II	75	77
	FH4538ZHR-XC	3 2/7	63.0	CSR	4336	5316	6339	7384	8427	20.9	28.5	1.74	22.2 (7/8")	12.7 (1/2")	II	92	83
	FH4538ZHR-XG	3 2/7	63.0	TRI	4523	5477	6481	7524	8596	8.3	10.0	1.77	22.2 (7/8")	12.7 (1/2")	II	89	81
	FH4544ZHR-XG	3 3/5	68.0	TRI	4854	5928	7040	8208	9449	8.9	12.0	2.00	15.90 (5/8")	9.50 (3/8")	I	89	81
HBP-(R-134A)	FH4518NHR-XC	1 1/2	53.2	CSR	1823	2341	2915	3545	4230	8.5	12.0	1.71	15.90 (5/8")	9.50 (3/8")	I	51	76
	FH4518NHR-XG	1 1/2	53.2	TRI	1729	2214	2760	3367	4034	4.1	4.9	1.75	15.90 (5/8")	9.50 (3/8")	I	51	76
	FH4525NHR-XC	2	74.3	CSR	2206	2831	3507	4232	5005	11.4	16.1	1.75	15.90 (5/8")	9.50 (3/8")	I	56	78
	FH4525NHR-XG	2	74.3	TRI	2206	2831	3507	4232	5005	4.1	6.0	1.94	15.90 (5/8")	9.50 (3/8")	I	53	77

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

4.6 FH² STANDARD (60Hz)



UNIT DIMENSION

Dimension I						Dimension II					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
Ho (mm)	Wo (mm)	Lo (mm)	Hb (mm)	Wb (mm)	Lb (mm)	Ho (mm)	Wo (mm)	Lo (mm)	Hb (mm)	Wb (mm)	Lb (mm)
450	512	630	20	474	610	469	618	1002	43	590	894

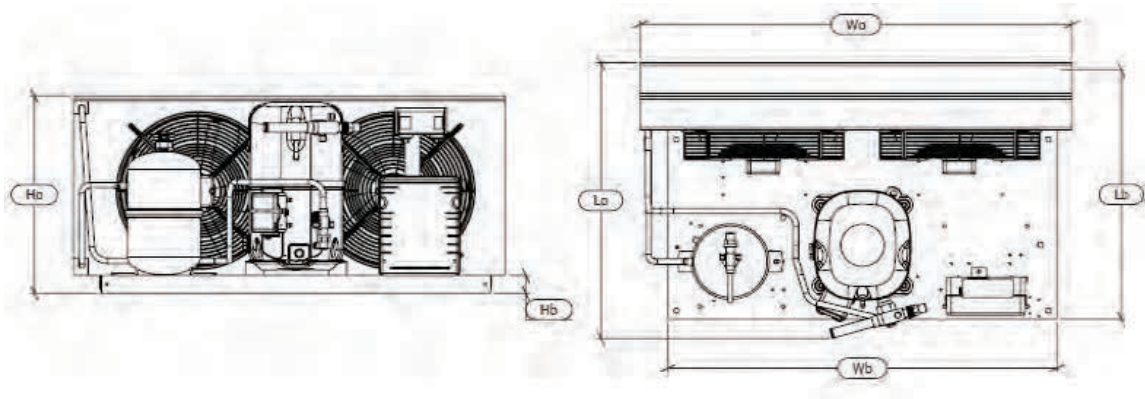
UNIT SPECIFICATION

	Model	HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	FH2480ZBR-XN	2	53.2	CSR	1003	1450	1913	2449	2952	10.8	25.2	0.82	15.90 (5/8")	9.50 (3/8")	I	57.0	76
	FH2480ZBR-KZ	2	53.2	TRI	1003	1450	1913	2449	2952	6.7	12.8	0.94	15.90 (5/8")	9.50 (3/8")	I	53.0	75
	FH2511ZBR-XN	2 3/4	74.2	CSR	1168	1788	2473	3152	3869	13.6	29.2	0.87	15.90 (5/8")	9.50 (3/8")	I	58.0	76
	FH2511ZBR-KZ	2 3/4	74.2	TRI	1168	1788	2473	3152	3869	7.5	14.6	0.92	15.90 (5/8")	9.50 (3/8")	I	54.0	78

	Model	HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	FH4524ZHR-XN	2	43.3	CSR	3132	3818	4520	5239	5974	15.2	23.8	1.90	15.90 (5/8")	9.50 (3/8")	I	57.0	78
	FH4524ZHR-KZ	2	43.3	TRI	3133	3818	4520	5239	5974	9.8	13.8	1.69	15.90 (5/8")	9.50 (3/8")	I	53.0	78
	FH4532ZHR-XN	2 3/5	50.6	CSR	4435	5437	6455	7488	8536	19.9	33.0	1.91	22.2 (7/8")	12.7 (1/2")	II	80.0	79
	FH4532ZHR-KZ	2 3/5	50.6	TRI	4435	5437	6455	7488	8536	12.6	16.8	1.71	22.2 (7/8")	12.7 (1/2")	II	75.0	77
	FH4538ZHR-KZ	3 1/3	63.0	TRI	5358	6470	7614	8792	10003	16.2	24.3	1.67	22.2 (7/8")	12.7 (1/2")	III	89.0	83
HBP - (R-134A)	FH4518NHR-XN	1 1/2	53.2	CSR	2212	2764	3444	4203	4965	12.1	17.8	1.81	15.90 (5/8")	9.50 (3/8")	I	51.0	75
	FH4518NHR-KZ	1 1/2	53.2	TRI	2217	2785	3436	4171	4990	7.0	10.8	1.83	15.90 (5/8")	9.50 (3/8")	I	51.0	77
	FH4525NHR-XN	2	74.3	CSR	2675	3443	4269	5152	6093	14.1	21.1	1.65	15.90 (5/8")	9.50 (3/8")	I	56.0	76
	FH4525NHR-KZ	2	74.3	TRI	2675	3443	4269	5152	6093	16.8,6	13.1	1.71	15.90 (5/8")	9.50 (3/8")	I	54.0	78

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

4.7 AG STANDARD (50Hz)



UNIT DIMENSION

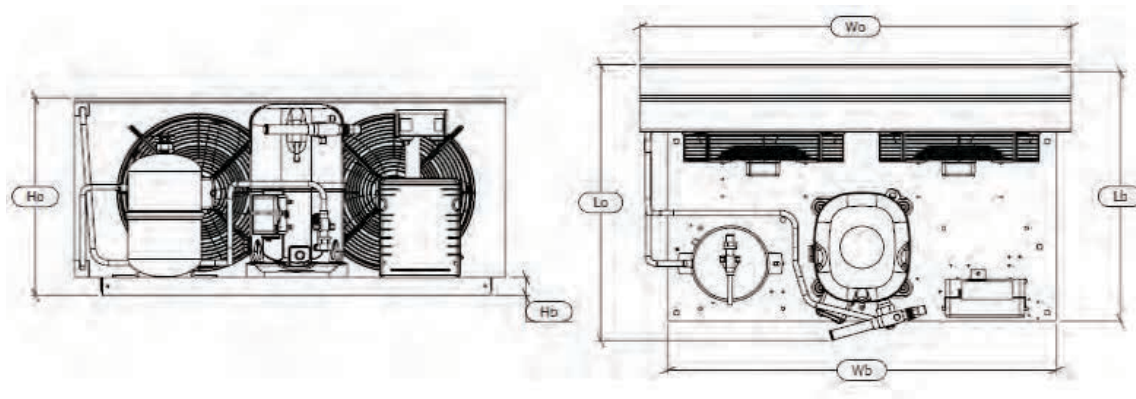
Dimension I						Dimension II					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
469	1002	619	43	894	590	565	1080	650	43	974	590

UNIT SPECIFICATION

Model		HP	Disp. (cm³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	TAG2513ZBR	3 1/4	100.7	TRI	1054	1702	2474	3364	4356	5.0	9.3	0.91	22.20 (7/8")	9.50 (3/8")	I	105.0	81
	TAG2516ZBR	4	112.5	TRI	1540	2238	3000	3823	4707	5.4	10.7	1.06	22.20 (7/8")	9.50 (3/8")	I	106.0	80
	TAG2522ZBR	5 1/2	134.8	TRI	2022	2843	3785	4838	5987	6.5	14.2	1.10	28.60 (1 1/8")	9.50 (3/8")	I	110.0	82
	TAG2525ZBR	6 1/4	145.0	TRI	2258	3199	4253	5401	6612	7.1	14.1	1.12	28.60 (1 1/8")	9.50 (3/8")	I	108.0	85
Model		HP	Disp. (cm³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	TAG4546ZHR	3 4/5	90.2	TRI	4944	6208	7582	9047	10579	8.1	13.2	1.88	22.2 (7/8")	15.90 (5/8")	II	116.0	85
	TAG4553ZHR	4 2/5	100.7	TRI	5416	6725	8128	9605	11134	8.9	14.5	1.80	22.2 (7/8")	15.90 (5/8")	II	115.0	85
	TAG4561ZHR	5	112.5	TRI	6218	7663	9205	10820	12482	10.1	15.1	1.85	28.6 (1 1/8")	15.90 (5/8")	II	122.0	85
	TAG4568ZHR	5 5/7	124.4	TRI	7466	9125	10911	12804	14783	11.3	16.3	2.00	28.62 (1 1/8")	15.90 (5/8")	II	129.0	84
	TAG4573ZHR	6	134.8	TRI	7952	9609	11377	13236	15163	12.5	20.0	1.91	28.6 (1 1/8")	15.90 (5/8")	II	127.0	84
	TAG4581ZHR	6 3/4	145.0	TRI	8675	10426	12207	13953	15580	13.8	22.0	1.84	28.6 (1 1/8")	15.90 (5/8")	II	129.0	86
HBP-(R-134A)	TAG4528YHR	2 1/3	90.2	TRI	2349	3170	4072	5052	6110	4.9	9.9	1.66	22.2 (7/8")	9.50 (3/8")	I	89.0	82
	TAG4534YHR	2 5/6	100.7	TRI	2941	3929	5091	6354	7681	5.5	11.2	2.04	22.2 (7/8")	9.50 (3/8")	I	107.0	79
	TAG4537YHR	3	112.5	TRI	3422	4483	5711	6925	8453	6.2	10.8	2.19	22.2 (7/8")	9.50 (3/8")	I	108.0	79
	TAG4543YHR	3 3/5	124.4	TRI	3588	4673	5998	7491	9071	6.4	10.8	2.05	22.2 (7/8")	9.50 (3/8")	I	116.0	80

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

4.8 AG STANDARD (60Hz)



UNIT DIMENSION

Dimension I						Dimension II					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
469	1002	619	43	894	590	565	1080	1002	43	974	590

UNIT SPECIFICATION

Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP- (R-404A)	TAG2516ZBR	4	112.5	TRI	1808	3378	3526	4484	5507	11.5	26.1	0.94	22.20 (7/8")	9.50 (3/8")	I	106.0	80
	TAG2522ZBR	5 1/2	134.8	TRI	2382	3523	4484	5590	6801	14.4	32.4	0.92	28.60 (1 1/8")	9.50 (3/8")	I	111.0	82

Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	TAG4546ZHR	3 4/5	90.2	TRI	5892	7349	9412	10495	12170	19.2	25.4	1.98	22.20 (7/8")	15.90 (5/8")	II	116.0	85
	TAG4553ZHR	4 2/5	100.7	TRI	6278	7814	9910	11065	12767	20.9	31.0	1.89	22.20 (7/8")	15.90 (5/8")	II	115.0	85
	TAG4561ZHR	5	112.5	TRI	7181	9001	10900	12873	14913	23.4	34.0	1.82	28.60 (1 1/8")	15.90 (5/8")	II	122.0	85
	TAG4568ZHR	5 2/3	124.4	TRI	8173	10445	12673	14852	16975	27.0	39.0	1.86	28.60 (1 1/8")	15.90 (5/8")	II	129.0	84
	TAG4573ZHR	6	134.8	TRI	8927	10897	12948	15072	17262	29.0	42.0	1.78	28.60 (1 1/8")	15.90 (5/8")	II	127.0	84
HBP-(R-134A)	TAG4534YHR	2 5/6	100.7	TRI	3372	4479	3372	6996	8404	11.5	27.0	1.72	22.20 (7/8")	9.50 (3/8")	I	108.0	79
	TAG4537YHR	3	112.5	TRI	3901	5123	6435	7837	9325	13.5	27.0	1.79	22.20 (7/8")	9.50 (3/8")	I	108.0	79
	TAG4543YHR	3 3/5	124.4	TRI	4189	5519	6978	8562	10269	14.5	27.0	1.79	22.20 (7/8")	9.50 (3/8")	I	116.0	80

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

5.0 INTRODUCTION (EASYPACK)



NEW GENERATION
SPECIAL CONDENSING UNIT

EASYPACK SINGLE FAN



NEW GENERATION
SPECIAL CONDENSING UNIT

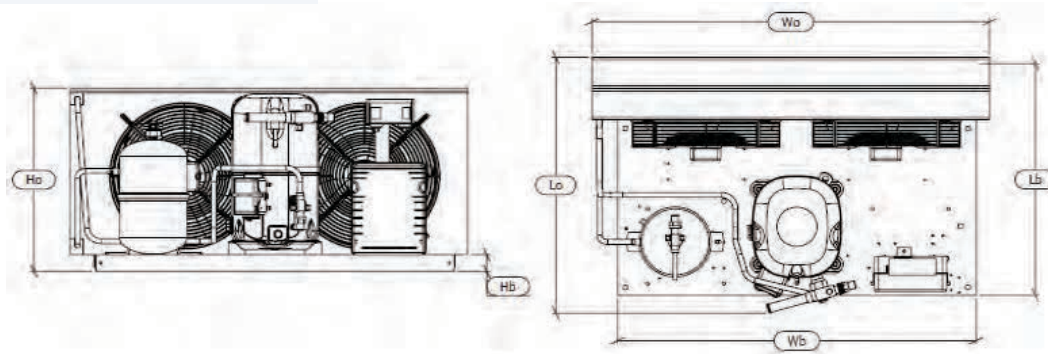
EASYPACK TWIN FAN

CONDENSING UNIT NOMENCLATURE

EP	L	2	4	80	Z
Family	Application	Application	-	-	Refrigerant
Easy Pack	-	-	-	-	-
EPS = Single Phase EP = Three Phase	H = High Back Pressure L = Low Back Pressure	H = High Back Pressure L = Low Back Pressure	Capacity Number of digits of cooling capacity	Capacity First two digits in Rating Point Capacity @ 60Hz (8,000 Btu/h)	Z = R404A E/F/T = R22



5.1 EASYPACK (50Hz)



UNIT DIMENSION

Dimension I						Dimension II						Dimension III					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
558	600	600	43	600	600	673	1072	690	43	974	590	558	1060	690	43	1060	690

UNIT SPECIFICATION

Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	EPL2480Z-XC	2	53.2	CSR	773	1198	1629	2066	2509	8.3	20.1	0.93	15.90 (5/8")	9.50 (3/8")	I	73.0	74
	EPL2480Z-XG	2	53.2	TRI	805	1249	1701	2161	2629	2.8	4.3	1.03	15.90 (5/8")	9.50 (3/8")	I	73.0	74
	EPL2511Z-XC	2 3/4	74.2	CSR	1069	1572	2137	2763	3449	12.9	25.5	0.97	15.90 (5/8")	9.50 (3/8")	I	80.0	76
	EPL2511Z-XG	2 3/4	74.2	TRI	1069	1572	2137	2763	3449	4.0	5.9	1.06	15.90 (5/8")	9.50 (3/8")	I	80.0	76
	EPL2513Z	3 1/4	100.7	TRI	1010	1645	2398	3266	4237	5.0	9.3	0.88	22.20 (7/8")	9.50 (3/8")	II	91.4	82
	EPL2516Z	4	112.5	TRI	1492	2186	2960	3813	4743	5.4	10.7	1.03	22.20 (7/8")	9.50 (3/8")	II	110.0	81
	EPL2522Z	5 1/2	134.8	TRI	1895	2739	3723	4849	6112	6.9	14.7	1.05	28.60 (1 1/8")	9.50 (3/8")	II	118.0	81
	EPL2525Z	6 1/4	145.0	TRI	2053	2971	3993	5102	6270	7.4	14.7	1.04	28.60 (1 1/8")	9.50 (3/8")	II	108.0	86

Model		HP	Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP - (R-404A)	EPSH4517Z	1 1/2	26.0	CSR	1798	2171	1629	2997	3444	8.0	13.4	1.74	15.90 (5/8")	9.50 (3/8")	I	60.0	76
	EPH4517Z	1 1/2	26.0	TRI	1757	2158	2582	3028	3494	3.4	4.4	1.65	15.90 (5/8")	9.50 (3/8")	I	60.0	76
	EPSH4519Z	1 3/5	34.5	CSR	2382	2903	3457	4039	4644	10.7	16.0	1.79	15.90 (5/8")	9.50 (3/8")	I	60.0	76
	EPH4519Z	1 3/5	34.5	TRI	2149	2921	3459	4030	4630	4.6	5.4	1.79	15.90 (5/8")	9.50 (3/8")	I	60.0	76
	EPH4524Z-XC	2	43.3	CSR	2442	3053	3706	4397	5125	11.0	19.0	1.58	15.90 (5/8")	9.50 (3/8")	I	73.0	80
	EPH4524Z-XG	2	43.3	TRI	2442	3053	3706	4397	5125	4.2	6.9	1.64	15.90 (5/8")	9.50 (3/8")	I	73.0	80
	EPH4532Z-XC	2 3/5	50.6	CSR	3636	4486	5361	6262	7184	14.8	28.0	1.85	22.20 (7/8")	12.70 (1/2")	I	78.0	81
	EPH4532Z-XG	2 3/5	50.6	TRI	3636	4486	5361	6262	7184	5.4	9.0	1.91	22.20 (7/8")	12.70 (1/2")	I	78.0	80
	EPH4538Z-XC	3 2/7	63.0	CSR	4490	5433	6444	7518	8654	20.0	28.8	0.78	22.20 (7/8")	12.70 (1/2")	I	80.0	81
	EPH4538Z-XG	3 2/7	63.0	TRI	4490	5433	6444	7518	8654	7.0	10.4	0.75	22.20 (7/8")	12.70 (1/2")	I	80.0	81
	EPH4544Z-XG	3 3/5	68.0	TRI	4889	5943	7036	8153	9272	9.1	12.2	2.03	22.20 (7/8")	12.70 (1/2")	II	81.0	81
	EPH4546Z	3 4/5	90.2	TRI	4659	5972	7438	9056	10823	8.6	13.7	1.80	22.20 (7/8")	12.70 (1/2")	II	110.0	86
	EPH4553Z	4 2/5	100.7	TRI	5260	6703	8291	10019	11878	8.9	14.5	1.79	28.60 (1 1/8")	12.70 (1/2")	II	118.0	85
	EPH4561Z	5	112.5	TRI	6013	7508	9136	10895	12776	10.1	17.0	1.80	28.60 (1 1/8")	12.70 (1/2")	II	118.0	85
	EPH4568Z	5 5/7	124.4	TRI	7271	9026	10972	13118	15476	11.3	16.3	1.96	28.60 (1 1/8")	12.70 (1/2")	II	135.0	84
	EPH4573Z	6	134.8	TRI	7875	9692	11700	13905	16314	13.0	21.0	1.91	28.60 (1 1/8")	12.70 (1/2")	II	135.0	85
	EPH4581Z	6 3/4	145.0	TRI	8540`	10384	12329	14347	16414	15.2	23.0	1.76	28.60 (1 1/8")	12.70 (1/2")	III	135.0	86

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

6.0 INTRODUCTION SEMI-HERMETIC



FEATURES & BENEFITS

WIDE RANGE

- Compressors range from 4kW-122kW for High Temp & 2kW- 27kW for Low Temp application based on EN12900.
- Condensing Units range from 10kW-43kW for High Temp & 5kW-19kW for Low Temp application based on EN13215.

HIGH EFFICIENCY

- Energy consumption can be greatly improved by fitting a frequency converter (inverter) and/or capacity control system.

INTERCHANGEABILITY

- Monitoring and easy access to the mechanics of a refrigerants system.
- Comprehensive accessories are available to help our customers develop, installation , regulate capacity and even re-configure compressor.

ROBUSTNESS

- Tried and tested technology which is constantly being improved.
- Multi-refrigerant compressors R404A, R134a, R22, R407C, R507 (new installation).
- Optimized valve-plates.
- Centrifugal disk lubriction.
- Thermistors within the electric coils linked to an INT protection module.

CONDENSING UNIT NOMENCLATURE

SHT	4	5	91	Z	H	R	-	YZ
Condensing Unit Family	Application	Capacity Number of digits of cooling capacity	Capacity First two digits in rated BTU Capacity	Refrigerant	Suction Pressure	R for unit with receiver tank	-	Supply

Application Parameter

Evap Temp
2 = Low
4 = High

In this example (5) total digits.

Example:
91,000 Btu/hr (60Hz)

Primary Refrigerant

Z=R404A/
R507

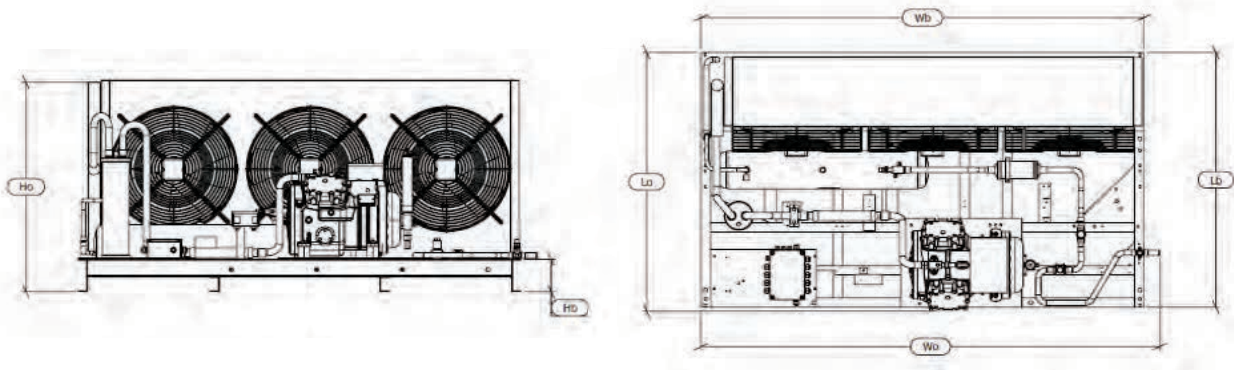
Pressure Code

H= High
B = Low

YZ = Electric Motor or direct start (DOL)

MZ = Electric Motor or part winding start (PWS)

6.1 SEMI-HERMETIC (50Hz)



UNIT DIMENSION

Dimension I						Dimension II						Dimension III						Dimension IV					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _O (mm)	W _O (mm)	L _O (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _O (mm)	W _O (mm)	L _O (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _O (mm)	W _O (mm)	L _O (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _O (mm)	W _O (mm)	L _O (mm)	H _b (mm)	W _b (mm)	L _b (mm)
673	1060	690	115	1060	890	936	1600	890	140	1600	890	905	1880	1100	140	1880	1100	1878	1543	1440	140	1540	1440

UNIT SPECIFICATION

Model		Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
				-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	SHT2534ZBR	28.0	DOL	3520	4750	6150	7690	9370	11.1	16.3	1.24	34.90 (1 3/8")	15.90 (5/8")	I	259.0	79
	SHT2542ZBR	32.7	DOL	4400	5740	7250	8920	10730	12.1	16.7	1.27	34.90 (1 3/8")	15.90 (5/8")	II	259.0	79
	SHT2552ZBR	35.9	DOL	5520	7210	9130	11290	13680	15.1	21.7	1.43	34.90 (1 3/8")	15.90 (5/8")	II	274.0	82
	SHT2568ZBR	51.5	PWS	7060	9250	11570	14030	16670	18.4	27.2	1.38	34.90 (1 3/8")	22.20 (7/8")	II	315.0	82
	SHT2575ZBR	56.0	PWS	8070	10750	13680	16920	20490	23.2	33.2	1.36	41.20 (1 5/8")	22.20 (7/8")	II	325.0	85
	SHT2610ZBR	83.8	PWS	10560	14160	18180	22650	27410	29.0	42.6	1.60	41.20 (1 5/8")	22.20 (7/8")	III	474.0	83
	SHT2614ZBR	102.9	PWS	12550	17170	22380	28180	34420	36.8	53.6	1.58	54.00 (2 1/8")	28.60 (1 1/8")	IV	510.0	84
	SHT2615ZBR	125.7	PWS	14670	19750	25460	31660	38260	38.9	55.7	1.58	54.00 (2 1/8")	28.60 (1 1/8")	IV	549.0	84

Model		Disp. (cm ³)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
				-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	SHT4576ZHR	21.2	DOL	9000	10780	12640	14550	16490	12.9	13.9	2.12	28.60 (1 1/8")	15.90 (5/8")	II	259.0	82
	SHT4591ZHR	24.7	DOL	10970	13180	15560	18100	20760	14.9	15.0	2.20	28.60 (1 1/8")	15.90 (5/8")	II	259.0	82
	SHT4610ZHR	28.0	DOL	12970	15500	18160	20920	23840	18.9	20.3	2.01	34.90 (1 3/8")	15.90 (5/8")	II	274.0	82
	SHT4612ZHR	32.7	DOL	14970	17760	20560	23380	26330	21.1	22.7	2.02	34.90 (1 3/8")	15.90 (5/8")	II	274.0	82
	SHT4615ZHR	41.3	PWS	17330	20770	24450	28250	32000	23.2	25.1	2.09	34.90 (1 3/8")	22.20 (7/8")	III	414.0	82
	SHT4620ZHR	51.5	PWS	22930	27070	31500	36230	41250	29.5	32.4	2.35	41.20 (1 5/8")	22.20 (7/8")	III	416.0	83
	SHT4622ZHR	56.0	PWS	25440	30060	34950	40280	45830	35.0	38.4	2.39	41.20 (1 5/8")	22.20 (7/8")	III	422.0	81
	SHT4627ZHR	70.8	PWS	28650	34040	39810	45780	52000	39.2	43.5	2.21	54.00 (2 1/8")	28.60 (1 1/8")	IV	504.0	82
	SHT4632ZHR	83.8	PWS	36680	43860	51670	59910	68830	44.0	49.2	2.43	54.00 (2 1/8")	28.60 (1 1/8")	IV	507.0	82

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

7.0 INTRODUCTION (ACEPACK)



FEATURES & BENEFITS



- Save installation time with ready to install features



- Easy maintenance



- Complete install with filter drier, sight glass, oil separation and valve



- Suitable for ambient temperature up to 43°C



- Vertical airflow suitable for rooftop installation

APPLICATION



Fresh / Frozen Food Retail



Outlet / Supermarkets / Convenience Stores



Services Station Shops



Restaurants



Wine Cellars and etc

ACEPACK NOMENCLATURE

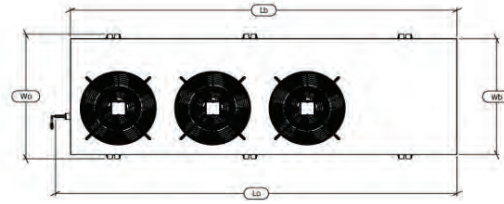
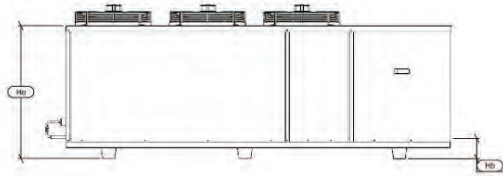
AP	2	4	32	Z	B	R	-	FZ	-	EVO
Family	Application	Capacity	Capacity	Refrigerant	Application			Voltage		
AP = Acepack (Hermetic)	2 = Low	Number of digits of cooling capacity	First two digits in Rating Point Capacity	Z = R-404A	B = Low	With Receiver	-	FZ = 220 - 240V 1 - 50Hz	-	With Electrical Panel
APS = Acepack (Semi-Hermetic)	4/9 = High		@ 60Hz (32000) Btu/h		H = High			TZ = 400V 3 - 50Hz / 440V 3-60Hz		

UNIT DIMENSION

Dimension I (Small)						Dimension II (Medium)						Dimension III (Medium 3 Fan)					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
758	486	1070	102	486	1070	772	628	1284	102	628	1284	772	628	1744	102	628	1744

Dimension IV (Large)						Dimension V (Extra Large)					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	H _b (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
1013	786	1663	102	786	1663	1540	1100	2455	102	1100	2455

7.1 ACEPACK (50Hz)



UNIT SPECIFICATION

Model		HP	Disp. (m³/h)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	ACE2432Z-FZ-EVO	3/4	18.3	CSR	285	420	583	851	998	2.9	4.7	0.83	12.70 (1/2")	6.10 (1/4")	I	71.0	63
	ACE2446Z-FZ-EVO	1	26.2	CSR	470	663	885	1252	1430	3.6	6.6	0.96	12.70 (1/2")	9.50 (3/8")	I	71.0	67
	ACE2464Z-FZ-EVO	1 1/2	34.5	CSR	851	1125	1448	1861	1972	5.2	10.3	0.80	15.90 (5/8")	9.50 (3/8")	I	73.0	67
	ACE2480Z-XC-EVO	2	54.3	CSR	755	1158	1613	2327	2697	8.3	19.8	0.83	15.90 (5/8")	9.50 (3/8")	I	90.0	69
	ACE2511Z-XG-EVO	2 3/4	68.0	TRI	1556	1892	2346	3178	3642	4.0	5.6	1.25	15.90 (5/8")	9.50 (3/8")	II	130.0	72
	ACE2516Z-TZ-EVO	4	112.5	TRI	1900	2418	3194	4494	5211	5.8	11.0	1.17	22.20 (7/8")	12.70 (1/2")	II	155.0	71
	ACE2522Z-TZ-EVO	5 1/2	134.8	TRI	2678	3267	4177	5710	6562	7.2	15.0	1.30	22.20 (7/8")	12.70 (1/2")	II	175.0	76
	ACE2525Z-TZ-EVO	6 1/4	145.0	TRI	2920	3561	4511	6110	6956	8.4	16.1	1.36	22.20 (7/8")	12.70 (1/2")	II	165.0	76

Model		HP	Disp. (m³/h)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	ACE9480Z-FZ-EVO	2/3	15.2	CSR	1162	1417	1696	1995	2309	4.4	6.9	1.88	12.70 (1/2")	9.50 (3/8")	I	68.0	62
	ACE9510Z-FZ-EVO	1	18.3	CSR	1406	1706	2031	2370	2747	5.5	7.4	1.89	15.90 (5/8")	9.50 (3/8")	I	70.0	63
	ACE9513Z-FZ-EVO	1 1/8	24.2	CSR	1589	1970	2412	2843	3278	6.7	10.4	1.83	15.90 (5/8")	9.50 (3/8")	I	70.0	64
	ACE4517Z-FZ-EVO	1 1/2	26.0	CSR	1896	2280	2735	3168	3591	7.4	11.0	1.86	15.90 (5/8")	9.50 (3/8")	I	71.0	65
	ACE4519Z-FZ-EVO	1 3/5	34.5	CSR	2392	2944	3541	4180	4923	10.5	16.0	1.73	15.90 (5/8")	9.50 (3/8")	I	71.0	68
	ACE4524Z-XC-EVO	2	43.3	CSR	2598	3269	3987	4827	5639	11.3	18.7	1.76	15.90 (5/8")	9.50 (3/8")	I	81.0	70
	ACE4532Z-XG-EVO	2 3/5	50.6	TRI	3647	4483	5454	6324	7298	5.9	8.8	1.91	15.90 (5/8")	9.50 (3/8")	II	105.0	69
	ACE4538Z-XG-EVO	3 2/7	63.0	TRI	5324	6244	7401	8516	9650	8.7	10.4	2.06	15.90 (5/8")	9.50 (3/8")	II	118.0	75
	ACE4553Z-TZ-EVO	4 2/5	100.7	TRI	5420	6719	8349	9915	11762	8.9	13.0	1.79	22.20 (7/8")	12.70 (1/2")	II	146.0	78
	ACE4561Z-TZ-EVO	5	112.5	TRI	6823	8220	10046	11860	13692	10.2	14.2	1.99	22.20 (7/8")	12.70 (1/2")	II	148.0	78
	ACE4573Z-TZ-EVO	6	134.8	TRI	8455	10194	11923	14131	15978	12.6	19.0	2.02	22.20 (7/8")	12.70 (1/2")	II	150.0	77
	ACE4518Z-TZ-EVO	6 3/4	145.0	TRI	8669	10636	12715	14883	17118	14.2	22.4	1.81	22.20 (7/8")	12.70 (1/2")	II	151.0	77

Model		HP	Disp. (m³/h)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
SEMI-HERMETIC - HBP - (R-404A)	ACES4526Z-TZ-EVO	2 1/5	6.91	DOL	2958	3631	4397	5320	6351	2.2	4.5	1.85	22.20 (7/8")	12.70 (1/2")	II	161.0	66
	ACES4536Z-TZ-EVO	3	9.88	DOL	4043	4876	5794	6834	7946	3.0	6.7	1.88	22.20 (7/8")	12.70 (1/2")	II	168.0	67
	ACES4550Z-TZ-EVO	4	13.15	DOL	5529	6682	7935	9433	11083	4.0	8.8	2.05	22.20 (7/8")	12.70 (1/2")	II	180.0	67
	ACES4556Z-TZ-EVO	5	17.93	DOL	7979	9478	11175	13190	15434	5.0	12.5	1.96	28.60 (1 1/8")	12.70 (1/2")	III	195.0	70
	ACES4591Z-TZ-EVO	7	24.69	DOL	9501	11515	13763	17255	21642	7.0	12.7	2.12	28.60 (1 1/8")	12.70 (1/2")	III	240.0	70
	ACES4610Z-TZ-EVO	8	28.02	DOL	12634	15240	18134	21274	24668	8.0	17.6	2.13	34.90 (1 3/8")	22.20 (7/8")	IV	290.0	72
	ACES4615Z-TZ-EVO	12	41.32	PWS	16949	20561	24561	29349	34669	12.0	22.4	2.27	34.90 (1 3/8")	22.20 (7/8")	IV	340.0	75
	ACES4620Z-TZ-EVO	15	51.50	PWS	23040	27353	32010	37058	42393	15.0	32.4	2.26	34.90 (1 3/8")	22.20 (7/8")	IV	386.0	77
	ACES4623Z-TZ-EVO	20	58.48	PWS	25854	31447	37682	45452	54159	22.0	35.3	2.20	41.20 (1 5/8")	22.20 (7/8")	V	605.0	78
	ACES4627Z-TZ-EVO	25	70.77	PWS	30370	36912	44234	54033	65282	25.0	43.5	2.18	54.00 (2 1/8")	28.60 (1 1/8")	V	615.0	78
	ACES4632Z-TZ-EVO	30	83.81	PWS	37218	45044	53754	64959	77611	30.0	49.2	2.21	54.00 (2 1/8")	28.60 (1 1/8")	V	650.0	81
	ACES4639Z-TZ-EVO	35	102.86	PWS	43152	51725	61246	74745	90442	35.0	61.0	2.02	54.00 (2 1/8")	28.60 (1 1/8")	V	670.0	82

8.0 INTRODUCTION (PAC³)



PAC³ FEATURES & BENEFITS

 COMPACT Designed and optimized for space constrained landscapes.	 WIDE OFFERING Capacity and application range extended to fit extensive demands.	 PRACTICAL Design suited for customer application demand.	 ECO-FRIENDLY Applicable with mid GWP compliance in accordance to the Montreal Protocol.
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PAC³ NOMENCLATURE

PAC	4	5	46	Z	3
Family	Application	Capacity	Capacity	Refrigerant	
PACS = Single Phase PAC = Three Phase	2 = Low Back Pressure 4 = High Back Pressure 9 = M/H Back Pressure	Number of digits of cooling capacity	First two digits in Rating Point Capacity @60Hz (46,000 Btu/h)	Z = R-404A, R-452A, R-448A, R-449A Y = R-134A, R-513A	Version

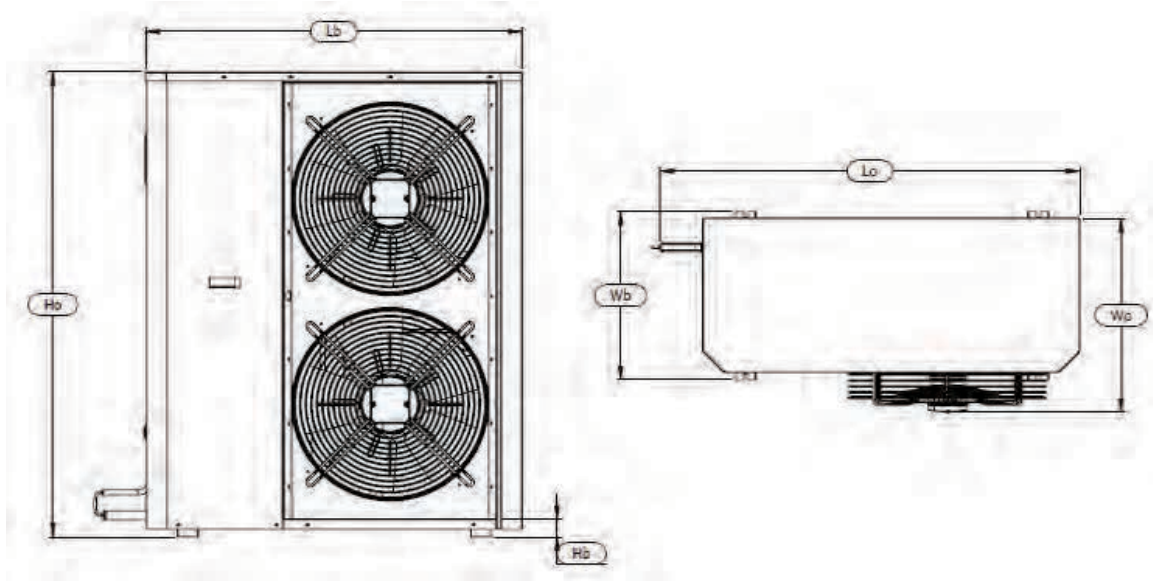
PAC³ IntelliCOOL FEATURES & BENEFITS

 THE LIMITLESS ZONE Tecumseh Intellicool system with PAC ³ platform is the best combination in design and technology - compact, practical, eco-friendly, energy management and intelligent control. Tecumseh PAC ³ with Intellicool is the smart way to deliver efficient and reliable cooling.	 HIGH ENERGY EFFICIENCY Tecumseh PAC ³ with Intellicool systems guarantees very high levels of energy efficiency with BLDC compressors and electronic expansion valves for oil and liquid injection. Serial communication with the showcase further contributes to energy efficiency by providing real-time information on the operating conditions of each evaporator.	 SYSTEM RELIABILITY Tecumseh PAC ³ with Intellicool systems manage BLDC compressors with the focus of reliability, adopting a series of software functions aimed at ensuring oil returns to the compressor. Serial communications with the showcase also allow action to be taken directly on the evaporators, thus managing oil returns more effectively.	 EXTENSIVE USABILITY Tecumseh PAC ³ with Intellicool systems is designed with the usability in mind. A wizard is included to assist unit configuration, and a fast commissioning procedure that automatically pre-configures the connection to the showcases and the related functions.	 OPTIMUM FOOD PRESERVATION With Tecumseh PAC ³ with Intellicool system, all the components are designed to work together, to obtain maximum performance in real operating conditions and in response to continuous changes in the system. These actions have the dual effect of reducing energy consumption and at the same time improving food preservation through fine temperature control.
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PAC³ IntelliCOOL NOMENCLATURE

PAC	66	Z	-	3	L
Packaged condensing unit	Displacement in m ³ /h	Refrigerant, R-404A, R-452A, R-448A & R-449A	-	Version	Size, L = Large, XL = Extra Large

8.1 PAC³ (50Hz)



UNIT DIMENSION

Dimension I (Mini)						Dimension II (Small)						Dimension III (Medium)					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
532	416	913	40	416	913	633	416	913	40	416	913	792	416	913	40	416	913

Dimension IV (Large)						Dimension V (Extra Large)					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	H _b (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
1149	416	913	40	416	913	1271	416	913	40	416	913

UNIT SPECIFICATION

	Model	HP	Disp. (m ³ /h)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	PACS2446Z	1 1/5	26.2	CSR	518	712	936	1192	1483	4.3	8.5	1.37	15.90 (5/8")	9.50 (3/8")	I	57.0	58
	PAC2446Z	1 1/5	26.2	TRI	518	712	936	1192	1483	1.8	3.2	1.37	15.90 (5/8")	9.50 (3/8")	I	57.0	58
	PACS2464Z	1 3/5	34.5	CSR	706	957	1251	1587	1962	6.0	10.3	1.39	15.90 (5/8")	9.50 (3/8")	I	58.0	59
	PAC2464Z	1 3/5	34.5	TRI	706	957	1251	1587	1962	2.5	4.1	1.39	15.90 (5/8")	9.50 (3/8")	I	58.0	59
	PAC2480Z-XC	2	53.2	CSR	906	1311	1763	2262	2807	7.7	16.5	1.33	15.90 (5/8")	9.50 (3/8")	I	78.0	58
	PAC2480Z-XG	2	53.2	TRI	906	1311	1763	2262	2807	3.3	6.9	1.33	15.90 (5/8")	9.50 (3/8")	I	78.0	58
	PAC2511Z-XC	2 4/5	74.2	CSR	1163	1683	2276	2942	3680	13.2	26.0	1.31	15.90 (5/8")	9.50 (3/8")	II	78.0	58
	PAC2511Z-XG	2 4/5	74.2	TRI	1163	1683	2276	2942	3680	4.7	8.0	1.31	15.90 (5/8")	9.50 (3/8")	II	78.0	58
	PAC2513Z	3 2/7	100.7	TRI	1121	1726	2425	3209	4065	5.0	9.3	1.29	22.20 (7/8")	12.70 (1/2")	III	96.0	60
	PAC2516Z	4	112.5	TRI	1477	2225	3100	4091	5179	5.6	10.3	1.55	22.20 (7/8")	12.70 (1/2")	III	97.0	61
	PAC2522Z	5 1/2	134.8	TRI	2111	2991	4010	5160	6427	6.5	14.2	1.56	22.20 (7/8")	12.70 (1/2")	III	99.0	62
SCROLL LBP-R-404A	PAC2525Z	6 2/7	145	TRI	2310	3276	4362	5557	6845	7.1	14.1	1.49	22.20 (7/8")	12.70 (1/2")	III	99.0	65
	PAC2532Z	8	21.4	TRI	4297	5367	6665	8201	9978	9.7	18.0	1.94	22.20 (7/8")	12.70 (1/2")	IV	138.0	77
	PAC2536Z	9	25.3	TRI	5276	6589	8184	10069	12251	10.5	20.1	2.06	22.20 (7/8")	12.70 (1/2")	IV	138.0	77
	PAC2540Z	10	29.1	TRI	5935	7412	9206	11327	13781	11.0	22.7	2.09	28.60 (1 1/8")	15.90 (5/8")	V	141.0	77

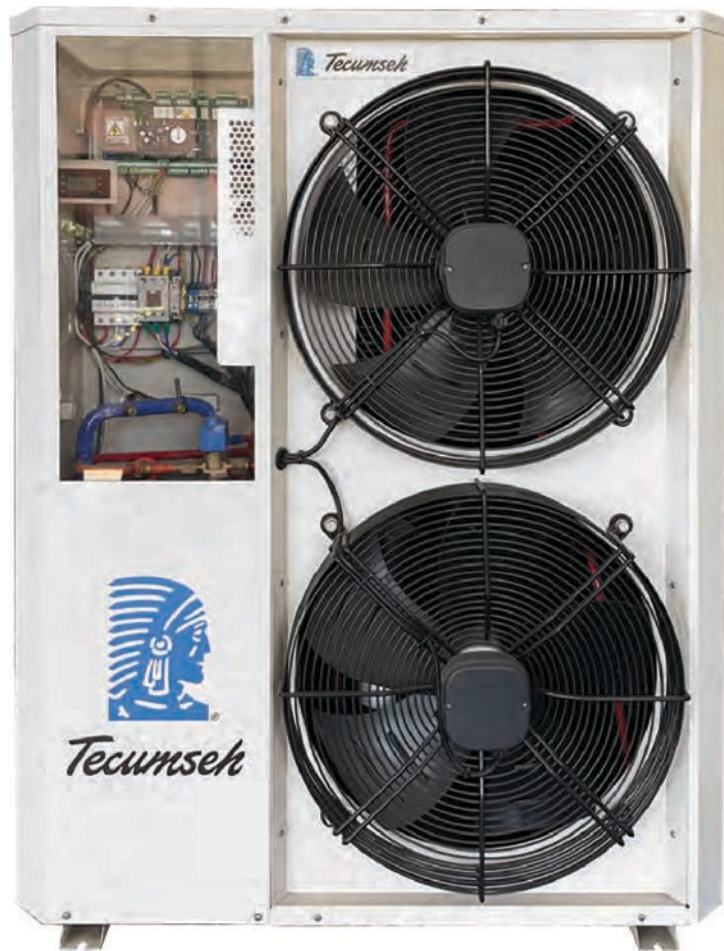
8.2 PAC³ (50Hz)



UNIT SPECIFICATION

Model		HP	Disp. (m³/h)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (kg)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	PAC4460Z	1/2	10.3	CSIR	859	1039	1241	1466	1716	4.9	6.5	2.10	15.90 (5/8")	9.50 (3/8")	I	49.0	59
	PACS9480Z	5/7	15.2	CSR	1146	1401	1684	1994	2328	4.6	7.0	2.15	15.90 (5/8")	9.50 (3/8")	I	57.0	61
	PAC9480Z	5/7	15.2	TRI	1146	1401	1684	1994	2328	2.1	3.7	2.15	15.90 (5/8")	9.50 (3/8")	I	57.0	61
	PACS9510Z	4/5	18.3	CSR	1400	1694	2019	2376	2764	5.7	8.7	2.06	15.90 (5/8")	9.50 (3/8")	I	58.0	61
	PAC9510Z	4/5	18.3	TRI	1400	1694	2019	2376	2764	2.4	4.1	2.06	15.90 (5/8")	9.50 (3/8")	I	58.0	59
	PACS9513Z	11/9	24.2	CSR	1674	2072	2506	2972	3467	7.0	11.6	2.31	15.90 (5/8")	9.50 (3/8")	I	58.0	61
	PAC9513Z	4/5	24.2	TRI	1674	2072	2506	2972	3467	3.1	4.7	2.31	15.90 (5/8")	9.50 (3/8")	I	58.0	60
	PACS4517Z	1 2/5	26.0	CSR	1873	2292	2740	3217	3723	8.1	13.5	2.04	15.90 (5/8")	9.50 (3/8")	II	63.0	57
	PAC4517Z	1 2/5	26.0	TRI	1873	2292	2740	3217	3723	3.8	4.7	2.04	15.90 (5/8")	9.50 (3/8")	II	63.0	57
	PACS4519Z	1 3/5	34.5	CSR	2349	2829	3339	3881	4458	10.5	16.0	1.91	15.90 (5/8")	9.50 (3/8")	II	63.0	58
	PAC4519Z	1 3/5	34.5	TRI	2349	2829	3339	3881	4458	4.8	6.5	1.91	15.90 (5/8")	9.50 (3/8")	II	63.0	58
	PAC4524Z-XC	2	43.3	CSR	2723	3405	4144	4932	5763	11.8	20.7	2.04	15.90 (5/8")	9.50 (3/8")	II	80.0	60
	PAC4524Z-XG	2	43.3	TRI	2723	3405	4144	4932	5763	5.4	8.8	2.04	15.90 (5/8")	9.50 (3/8")	II	80.0	60
	PAC4532Z-XC	2 3/5	50.6	CSR	3541	4333	5185	6094	7062	15.2	27.1	2.08	15.90 (5/8")	9.50 (3/8")	II	81.0	60
	PAC4532Z-XG	2 3/5	50.6	TRI	3541	4333	5185	6094	7062	6.4	9.3	2.08	15.90 (5/8")	9.50 (3/8")	II	81.0	60
	PAC4538Z-XC	3 2/7	63.0	CSR	4645	5627	6654	7715	8799	20.6	28.2	2.00	22.20 (7/8")	12.70 (1/2")	III	89.0	61
	PAC4538Z-XG	3 2/7	63.0	TRI	4645	5627	6654	7715	8799	8.7	10.4	2.00	22.20 (7/8")	12.70 (1/2")	III	89.0	61
	PAC4544Z-XG	3 3/5	68.0	TRI	4889	5943	7036	8153	9272	9.2	12.2	2.00	22.20 (7/8")	12.70 (1/2")	III	90.0	75
	PAC4546Z	3 4/5	90.2	TRI	4900	6158	7527	8991	10530	9.6	15.6	2.15	22.20 (7/8")	12.70 (1/2")	III	96.0	64
	PAC4553Z	4 2/5	100.7	TRI	5771	7206	8769	10442	12206	10.5	16.3	2.22	22.20 (7/8")	12.70 (1/2")	III	98.0	64
PAC4561Z	5 1/9	112.5	TRI	6327	7773	9325	10968	12688	11.8	17.6	2.10	22.20 (7/8")	12.70 (1/2")	IV	125.0	65	
PAC4568Z	5 5/7	124.4	TRI	7646	9352	11206	13197	15316	12.9	20.1	2.28	22.20 (7/8")	12.70 (1/2")	IV	126.0	65	
PAC4573Z	6	134.8	TRI	8167	9912	11788	13776	15857	14.0	21.3	2.13	22.20 (7/8")	12.70 (1/2")	IV	127.0	65	
PAC4581Z	6 4/5	145.0	TRI	9192	11208	13351	15589	17888	15.3	23.1	2.14	22.20 (7/8")	12.70 (1/2")	IV	127.0	65	
SCROLL HBP - R-404A	PACS4536Z	3	8.1	CSR	4378	5173	6027	6935	7887	12.7	19.0	2.53	22.20 (7/8")	12.70 (1/2")	III	82.0	61
	PAC4536Z	3	8.1	TRI	4378	5173	6027	6935	7887	5.1	6.9	2.53	22.20 (7/8")	12.70 (1/2")	III	82.0	61
	PAC4548Z	4	11.8	TRI	6500	7692	9006	10440	11995	7.0	10.3	2.51	22.20 (7/8")	12.70 (1/2")	III	83.0	64
	PAC4560Z	5	14.5	TRI	7914	9351	10923	12623	14448	8.0	12.2	2.62	22.20 (7/8")	12.70 (1/2")	IV	110.0	64
	PAC4572Z	6	17.1	TRI	9153	10786	12552	14438	16433	9.4	14.3	2.34	22.20 (7/8")	12.70 (1/2")	IV	112.0	64
	PAC4584Z	7	18.8	TRI	10035	11962	14079	16364	18791	10.0	17.1	2.32	28.60 (1 1/8")	12.70 (1/2")	IV	119.0	65
	PAC4596Z	8	21.4	TRI	10973	13177	15564	18104	20759	12.1	18.4	2.32	28.60 (1 1/8")	12.70 (1/2")	V	140.0	65
	PAC4611Z	9	25.3	TRI	12970	15504	18156	20921	23835	13.6	21.0	2.20	28.60 (1 1/8")	12.70 (1/2")	V	140.0	67
	PAC4612Z	10	29.1	TRI	14964	17755	20558	23382	26328	15.5	23.6	2.07	28.60 (1 1/8")	12.70 (1/2")	V	141.0	67

8.2 PAC³ IntelliCOOL STANDARD(50Hz)



UNIT DIMENSION

Dimension I						Dimension II					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
1149	416	913	40	416	913	1271	416	913	40	416	913

UNIT SPECIFICATION

Model		Disp. (m ³ /h.)	Motor Type	Cooling Capacity (Watt)				Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
				-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	PAC66Z-3L @ 20rps	66	BLDC	2807	3410	4422	4713	6.7	7.0	2.00	22.20 (7/8")	12.7 (1/2")	I	129.0	67
	PAC66Z-3L @ 60rps	66	BLDC	9076	10889	13977	14750	13.3	14.0	2.07	22.20 (7/8")	12.7 (1/2")	I	129.0	67
	PAC66Z-3L @ 100rps	66	BLDC	14660	17532	20593	23870	15.7	16.2	1.96	22.20 (7/8")	12.7 (1/2")	I	129.0	67

Model		Disp. (m ³ /h)	Motor Type	Cooling Capacity (Watt)				Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
				-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	PAC66Z-3XL @ 20rps	66	BLDC	2947	3580	4643	4949	6.7	7.0	2.00	22.20 (7/8")	12.7 (1/2")	II	140.0	67
	PAC66Z-3XL @ 60rps	66	BLDC	9530	11433	14676	15488	13.3	14.0	2.07	22.20 (7/8")	12.7 (1/2")	II	140.0	67
	PAC66Z-3XL @ 100rps	66	BLDC	15393	18409	21623	25064	15.7	16.2	1.96	22.20 (7/8")	12.7 (1/2")	II	140.0	67
	PAC66Z-3XL @ 120rps	66	BLDC	18352	21930	25215	29888	16.2	17.1	1.94	22.20 (7/8")	12.7 (1/2")	II	140.0	67

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K

9.0 INTRODUCTION (WATER-COOLED)



FEATURES & BENEFITS

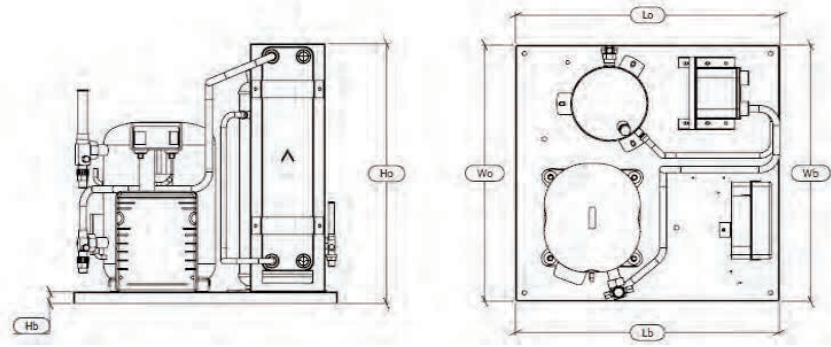
OPTIMUM PERFORMANCE	PROMPT DELIVERY	QUIET OPERATION	CONSISTENT PRODUCT QUALITY	FACTORY LEAK TESTED	STRONG AFTER SALE SERVICES
High efficiency, low operating pressure are primary advantage of the Water Cooled design. Great for applications where lower condensing unit.	Short lead time, quick assembly.	Fan noise is virtually eliminated when compared to a traditional air cooled condensing unit.	Tecumseh's 'tried and true' line up of dependable AJ, FH ² and AG reciprocating compressors offer reliability and long life.	Ensure that there is no leakage in the field.	Back up by Tecumseh's experienced sales and technical support team.

CONDENSING UNIT NOMENCLATURE

CAJ	4	5	19	Z	H	R	YZ
Family	Application	Capacity	Capacity	Refrigerant	Suction Pressure	Liquid Refrigerant Receiver	Indicates Water-Cooled Condensing Unit
C = Single Phase	2 = Low Back Pressure	Number of digits of cooling capacity	First two digits in Rating Point Capacity @ 60Hz (19,000 Btu/h)	E = R-404A, R-507	H = High	No letter = with valve or brazed	
T = Three Phase	4 = High Back Pressure			T/F = R-22 Y = R-134A	B = Low M = Medium	R = with receiver	

FH	4	5	24	Z	H	R	-HE	-XC
Family	Application	Capacity	Capacity	Refrigerant	Suction Pressure	Liquid Refrigerant Receiver	Indicates Water-Cooled Condensing Unit	Voltage
	2 = Low Back Pressure	Number of digits of cooling capacity	First two digits in Rating Point Capacity @ 60Hz (24,000 Btu/h)	Z = R-404A	H = High	No Letter= with valve or brazed		XC = 200-240V 1-50Hz
	4 = High Back Pressure				B = Low	R = with receiver		XG = 380-420V/ 3-50Hz 460V 3-Hz

9.1 WATER-COOLED (50Hz)



UNIT DIMENSION

Dimension I						Dimension II					
Overall Dimension			Baseplate Dimension			Overall Dimension			Baseplate Dimension		
H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)	H _o (mm)	W _o (mm)	L _o (mm)	H _b (mm)	W _b (mm)	L _b (mm)
604	489	425	28	489	425	604	600	600	28	600	600

UNIT SPECIFICATION

Model		HP	Disp. (m³/h)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-40°C	-35°C	-30°C	-25°C	-20°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
LBP-(R-404A)	FH2480ZBR-HE-XC	2	54.3	CSR	922	1293	1700	2140	2609	8.0	16.8	1.28	15.90 (5/8")	9.50 (3/8")	II	40.0	72
	FH2480ZBR-HE-XG	2	54.3	TRI	922	1293	1700	2140	2609	3.6	7.1	1.28	15.90 (5/8")	9.50 (3/8")	II	40.0	72
	FH2511ZBR-HE-XC	2 4/5	68.0	CSR	1163	1629	2148	2712	3317	12.3	24.8	1.31	15.90 (5/8")	9.50 (3/8")	II	67.0	75
	FH2511ZBR-HE-XG	2 4/5	68.0	TRI	1163	1629	2148	2712	3317	4.5	8.0	1.31	15.90 (5/8")	9.50 (3/8")	II	67.0	74
	TAG2513ZBR-HE	3 2/7	100.7	TRI	1237	1840	2556	3373	4281	5.0	9.3	1.25	22.20 (7/8")	12.70 (1/2")	II	73.0	78
	TAG2516ZBR-HE	4	112.5	TRI	1399	2108	2921	3831	4824	5.8	11.0	1.28	22.20 (7/8")	12.70 (1/2")	II	73.0	77
	TAG2522ZBR-HE	5 1/2	134.8	TRI	2206	3029	3975	5037	6203	7.3	13.7	1.37	22.20 (7/8")	12.70 (1/2")	II	73.0	79
	TAG2525ZBR-HE	6 2/7	145.0	TRI	2406	3343	4398	5557	6809	7.5	14.5	1.36	22.20 (7/8")	12.70 (1/2")	II	73.0	84

Model		HP	Disp. (m ³ /h)	Motor Type	Cooling Capacity (Watt)					Current (A)		COP (W/W)	Diameter of Connection		Dimension	Weight (KG)	Sound Level (dba)
					-15°C	-10°C	-5°C	0°C	5°C	I Nom (Amps)	I Max (Amps)		Suction (mm/inch)	Liquid (mm/inch)			
HBP-(R-404A)	CAJ4517ZHR-HE	1 2/5	26.0	CSR	1799	2173	2567	2978	3406	8.1	13.5	1.98	15.90 (5/8")	9.50 (3/8")	I	34.0	64
	TAJ4517ZHR-HE	1 2/5	26.0	TRI	1799	2173	2567	2978	3406	3.8	5.2	1.98	15.90 (5/8")	9.50 (3/8")	I	34.0	62
	CAJ4519ZHR-HE	1 3/5	34.5	CSR	2331	2779	3248	3734	4233	10.7	16.0	1.90	15.90 (5/8")	9.50 (3/8")	I	34.0	68
	TAJ4519ZHR-HE	1 3/5	34.5	TRI	2331	2779	3248	3734	4233	4.8	7.0	1.90	15.90 (5/8")	9.50 (3/8")	I	34.0	68
	FH4524ZHR-HE-XC	2	43.3	CSR	2716	3377	4078	4802	5529	11.5	18.9	2.16	15.90 (5/8")	9.50 (3/8")	II	46.0	73
	FH4524ZHR-HE-XG	2	43.3	TRI	2716	3377	4078	4802	5529	5.1	8.5	2.16	15.90 (5/8")	9.50 (3/8")	II	46.0	71
	FH4532ZHR-HE-XC	2 3/5	50.6	CSR	3502	4285	5103	5946	6802	14.9	23.2	2.14	15.90 (5/8")	9.50 (3/8")	II	52.0	74
	FH4532ZHR-HE-XG	2 3/5	50.6	TRI	3502	4285	5103	5946	6802	6.1	9.8	2.14	15.90 (5/8")	9.50 (3/8")	II	52.0	73
	FH4538ZHR-HE-XC	3 2/7	63.0	CSR	4624	5597	6617	7671	8748	20.6	28.2	2.12	15.90 (5/8")	9.50 (3/8")	II	60.0	75
	FH4538ZHR-HE-XG	3 2/7	63.0	TRI	4624	5597	6617	7671	8748	8.7	10.4	2.12	15.90 (5/8")	9.50 (3/8")	II	60.0	76
	FH4544ZHR-HE-XC	3 3/5	78.2	TRI	4889	5943	7036	8153	9272	9.1	12.2	2.03	22.20 (7/8")	12.70 (1/2")	II	65.0	76
	TAG4546ZHR-HE	3 4/5	90.2	TRI	4904	6174	7545	8997	10512	8.2	12.6	2.30	22.20 (7/8")	12.70 (1/2")	II	80.0	83
	TAG4553ZHR-HE	4 2/5	100.7	TRI	5474	6829	8272	9782	11346	9.0	14.6	2.17	22.20 (7/8")	12.70 (1/2")	II	80.0	82
	TAG4561ZHR-HE	5	112.5	TRI	6642	8221	9971	11703	13548	10.5	15.5	2.35	22.20 (7/8")	12.70 (1/2")	II	84.0	83
	TAG4568ZHR-HE	5 5/7	124.4	TRI	7594	9286	11099	13005	14977	11.7	16.7	2.33	22.20 (7/8")	12.70 (1/2")	II	87.0	81
	TAG4573ZHR-HE	6	134.8	TRI	8215	10013	11896	13840	15838	12.9	20.5	2.20	22.20 (7/8")	12.70 (1/2")	II	87.0	81
	TAG4581ZHR-HE	6 4/5	145.0	TRI	8996	10892	12880	14928	16997	14.2	22.3	2.13	22.20 (7/8")	12.70 (1/2")	II	90.0	84

EN 13215 : Return gas temp. +20 °C, Subcooling 3 °K



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