

# Product Catalogue

TECUMSEH  
**PAC<sup>3</sup>**<sup>®</sup>



- Fully Factory Built, Ready to install unit
- Plug & Play
- Widest range of condensing unit available in the market
- Made in India

**Built for Today.  
Ready for Tomorrow.**

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# Introduction

## Simple Design Values in Mind

The Tecumseh Packaged Condensing Unit is designed with both reciprocating and scroll compressor technology with wide range offer. The new PAC<sup>3</sup> is best in sustainability, flexibility and serviceability.

## FEATURES & BENEFITS – CUSTOMERS DELIGHT

### • Compact & Aesthetic Design

- Smallest unit comparable to competitors' units available in the market
- Standardization on the footprint, differentiate by the height of the unit
- Aesthetic Outlook offer real opportunity for Tecumseh's customer

### • Reliable

- Standard unit equipped with quality components
- High Efficiency Condenser
- Painted Galvanized Casing avoid corrosion
- Every Finished Goods Properly tested during assembly and manufacturer line

### • Unmatchable Performance

- Improved Air Flow & Safety – Also, special focus on continuous improvement based on customer's feedback
- **Unmatchable Performance**
  - Benefits of using Axial fan motor
  - Easy to install
  - Replacement parts available in the market
  - Suitable for tropical climate

### • Easy to Install and Maintain

- **Plug & Play**
  - Direct accessibility to all electrical and refrigeration components
- **Easier Installation**
  - Ready to fix on floor or wall
  - Added handle for easy handling

### • Versatile and Practical

- Customer Delight - Customization possible based on customer needs.
- Components availability through a wide wholesaler network
- Unmatchable 24X7 Service & products to deliver the end user expectation
- Tecumseh experienced engineer to provide technical support
- Packaged with Tecumseh Unit Cooler – Perfect Complement

### • Refrigerants

- **Refrigerant** - R 404A, Y = R-134A, E= R22, C=R407C

# Nomenclature

PAC	4	5	46	Z	XG	FB
PAC = Packaged Condensing Units	Application 2 = Low Back Pressure 4 = High Back Pressure 9 = M/H Back Pressure	Capacity Number of digits of cooling capacity	Capacity First two digits in Rating Point Capacity @ 60Hz (46,000 Btu/h)	Refrigerant Z = R-404A, Y = R-134A E = R22 C = R-407C	Voltage Code XG, XN, GE, XC, GF..etc	Accessories S-Standard FB-Fully Built

1. Condensing unit name: "Packaged Condensing Units"
2. Application: 2 = Low temperature application, 4 = High temperature application, 9 = Medium/high temperature application
3. Number of digits of cooling capacity
4. First two digits in Rating Point Capacity @ 60 Hz (eg. 46,000 Btu/h)
5. Refrigerant: Z = R-404A, Y = R-134a, C = R-407C, E = R-22
6. Voltage Code XG, XN, etc
7. S = Standard Configuration, FB = Fully Built Configuration

## Condensing Unit

EN13215	LBP	HP/MHBP
Evaporating Temperature	-35°C	+5°C
Ambient Temperature	+32°C	+32°C
Return Gas	+20°C	+20°C
Sub-cooling	3K	3K

# Performance Data (Reciprocating Technology)

## Low Temperature Application

Model	Platform	HP	Ambient Temp. (°C)	Capacity (W) Evaporating Temperature (°C)					Amb. Temp. 32°C Evap. Temp. -25°C		Current (A)	
				- 40	- 35	- 30	- 25	- 20	Power Input (W)	COP (W/W)	RLA	LRA
PAC2446Z	MINI	1.2	32	518	712	936	1192	1483	867	1.37	1Φ=4.48	1Φ=30.0
			35	484	669	883	1127	1402				
			38	449	627	830	1061	1320				
			43	393	557	743	952	1185				
PAC2470Z	MINI	1.6	32	706	957	1251	1587	1962	1145	1.39	1Φ=7.9	1Φ=65.0
			35	656	898	1179	1499	1857				
			38	607	839	1107	1412	1752				
			43	526	740	987	1267	1578				
PAC2495Z	SMALL	2.5	32	906	1311	1763	2262	2807	1707	1.33	1Φ=8.95 3Φ=3.1	1Φ=65.0 3Φ=31.0
			35	822	1217	1655	2137	2660				
			38	737	1122	1546	2010	2512				
			43	592	961	1362	1795	2261				
PACS2512Z	SMALL	3.6	32	1163	1683	2276	2942	3680	2248	1.31	1Φ=13.2 3Φ=4.7	1Φ=83.0 3Φ=29.0
			35	1047	1554	2129	2773	3485				
			38	931	1424	1981	2603	3289				
			43	737	1207	1733	2318	2961				
PAC2516Z	MEDIUM	4.4	32	1477	2225	3100	4091	5179	2646	1.55	4.8	45.5
			35	1309	2022	2855	3798	4835				
			38	1143	1822	2613	3507	4493				
			43	875	1497	2217	3031	3931				
PAC2522Z	MEDIUM	5.5	32	2111	2991	4010	5160	6427	3298	1.56	5.7	56.0
			35	1914	2756	3745	4850	6067				
			38	1720	2541	3484	4543	5710				
			43	1402	2176	3056	4040	5126				
PAC2525Z	MEDIUM	6.1	32	2310	3276	4362	5557	6845	3731	1.49	6.3	56.0
			35	2095	3034	4084	5237	6478				
			38	1746	2637	3627	4708	5872				
			43	1541	2404	3356	4395	5511				

\* RLA: Rated Load Ampere MCC: Maximum Continuous Current LRA: Lock Rotor Ampere

# Performance Data (Reciprocating Technology)

## High Temperature Applicatic

Model	Platform	HP	Ambient Temp. (°C)	Capacity (W) Evaporating Temperature (°C)					Amb. Temp. 32°C Evap. Temp. -5°C		Current (A)	
				-15	-10	-5	0	5	Power Input (W)	COP (W/W)	RLA	LRA
PAC4466Y	MINI	0.6	32	859	1039	1241	1466	1716	592	2.10	1Φ=4.9	1Φ=19.5
			35	818	989	1181	1395	1631				
			38	776	939	1121	1322	1544				
			43	704	854	1019	1200	1399				
PAC4489Y	MINI	0.8	32	1146	1401	1684	1994	2328	784	2.15	1Φ=4.76	1Φ=26.0
			35	1086	1332	1603	1900	2220				
			38	1026	1262	1522	1806	2111				
			43	926	1146	1387	1649	1931				
PAC9472Z	MINI	0.9	32	1400	1694	2019	2376	2764	979	2.06	1Φ=7.57	1Φ=33.0
			35	1321	1602	1910	2248	2613				
			38	1242	1509	1801	2119	2462				
			43	1109	1353	1618	1903	2210				
PAC9486Z	MINI	1.1	32	1674	2072	2506	2972	3467	1086	2.31	1Φ=7.62	1Φ=36.5
			35	1561	1941	2352	2792	3259				
			38	1447	1809	2199	2614	3051				
			43	1257	1590	1944	2317	2706				
PAC4516Z	SMALL	1.4	32	1873	2292	2740	3217	3723	1343	2.04	1Φ=6.8 3Φ=2.52	1Φ=45.0 3Φ=20.0
			35	1765	2167	2594	3046	3525				
			38	1657	2042	2448	2875	3326				
			43	1476	1832	2203	2590	2995				
PAC4522Z	SMALL	2.0	32	2349	2829	3339	3881	4458	1747	1.91	1Φ=11.4 3Φ=3.2	1Φ=60.0 3Φ=20.0
			35	2225	2684	3169	3681	4227				
			38	2099	2537	2997	3481	3995				
			43	1886	2291	2709	3146	3610				
PAC4524Z	SMALL	2.3	32	2723	3405	4144	4932	5763	2036	2.04	1Φ=12.3 3Φ=3.8	1Φ=72.0 3Φ=26.0
			35	2540	3197	3904	4656	5447				
			38	2355	2985	3662	4378	5128				
			43	2038	2627	3251	3908	4594				
PAC4532Z	SMALL	2.7	32	3541	4333	5185	6094	7062	2495	2.08	1Φ=17.6 3Φ=4.12	1Φ=85.0 3Φ=30.0
			35	3325	4091	4909	5779	6701				
			38	3108	3848	4632	5461	6339				
			43	2744	3439	4168	4932	5735				

# Performance Data (Reciprocating Technology)

## High Temperature Application

Model	Platform	HP	Ambient Temp. (°C)	Capacity (W) Evaporating Temperature (°C)					Amb. Temp. 32°C Evap. Temp. -5°C		Current (A)	
				-15	- 10	- 5	0	5	Power Input (W)	COP (W/W)	RLA	LRA
PAC4538Z	MEDIUM	3.3	32	4645	5627	6654	7715	8799	3324	2.00	1Φ=20.2 3Φ=6.1	1Φ=126 3Φ=45
			35	4390	5337	6321	7332	8365				
			38	4132	5044	5985	6949	7930				
			43	3698	4553	5424	6308	7207				
PAC4544Z	MEDIUM	3.8	32	4900	6158	7527	8991	10530	3501	2.15	6.7	42.0
			35	4541	5745	7052	8445	9910				
			38	4187	5337	6581	7905	9295				
			43	3609	4670	5809	7017	8284				
PAC4553Z	MEDIUM	4.4	32	5771	7206	8769	10442	12206	3950	2.22	7.9	46.0
			35	5389	6767	8261	9857	11538				
			38	5007	6329	7757	9277	10876				
			43	4372	5606	6924	8321	9785				
PAC4561Z	LARGE	5.1	32	6327	7773	9325	10968	12688	4447	2.10	9.2	50.0
			35	5915	7307	8794	10363	12007				
			38	5502	6841	8264	9763	11332				
			43	4809	6065	7386	8770	10219				
PAC4568Z	LARGE	5.4	32	7646	9352	11206	13197	15316	4922	2.28	10.3	56.0
			35	7197	8846	10631	12542	14575				
			38	6747	8340	10055	11887	13834				
			43	5997	7495	9094	10795	12602				
PAC4573Z	LARGE	5.8	32	8167	9912	11788	13776	15857	5532	2.13	11.6	56.0
			35	7688	9359	11148	13037	15012				
			38	7206	8803	10503	12295	14165				
			43	6397	7869	9424	11053	12752				
PAC4581Z	LARGE	6.3	32	9192	11208	13351	15589	17888	6240	2.14	12.7	83.0
			35	8681	10621	12670	14804	16993				
			38	8167	10030	11987	14018	16099				
			43	7305	9042	10848	12712	14619				

\* RLA: Rated Load Ampere MCC: Maximum Continuous Current LRA: Lock Rotor Ampere

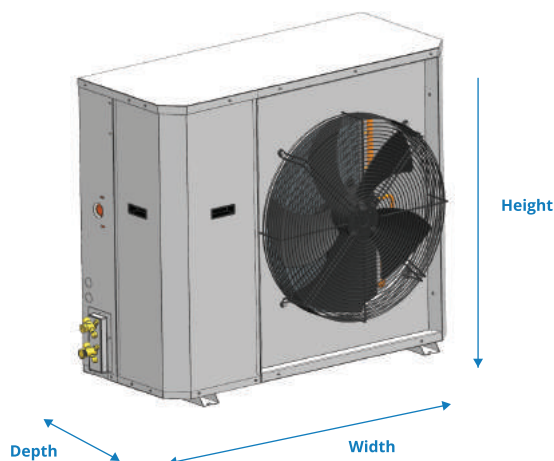
# Performance Data (Scroll Technology)

## High Temperature Application

Model	Platform	HP	Ambient Temp. (°C)	Capacity (W) Evaporating Temperature (°C)					Amb. Temp. 32°C Evap. Temp. -5°C		Current (A)	
				-15	- 10	- 5	0	5	Power Input (W)	COP (W/W)	RLA	LRA
PAC4536Z	MEDIUM	3.0	32	4378	5173	6027	6935	7887	2384	2.53	1Φ=11.8 3Φ=5.1	1Φ=76.0 3Φ=45.0
			35	4187	4946	5759	6622	7526				
			38	3986	4709	5481	6298	7154				
			43	3629	4291	4993	5734	6510				
PAC4548Z	MEDIUM	4.0	32	6500	7692	9006	10440	11995	3584	2.51	7.0	60.0
			35	6219	7354	8605	9971	11452				
			38	5930	7008	8195	9493	10903				
			43	5432	6414	7497	8682	9975				
PAC4560Z	LARGE	5.0	32	7914	9351	10923	12623	14448	4172	2.62	8.0	60.0
			35	7582	8957	10459	12085	13831				
			38	7230	8540	9971	11520	13186				
			43	6599	7797	9104	10520	12048				
PAC4572Z	LARGE	6.0	32	9153	10786	12552	14438	16433	5353	2.34	9.4	65.0
			35	8755	10320	12017	13832	15758				
			38	8330	9825	11448	13189	15043				
			43	7561	8930	10423	12036	-				
PAC4584Z	LARGE	7.0	32	10035	11962	14079	16364	18791	6060	2.32	10.0	85.0
			35	9634	11477	13494	15666	17972				
			38	9240	11005	12933	15008	17213				
			43	8598	10249	12051	13999	16089				
PAC4596Z	EXTRA LARGE	8.0	32	10973	13177	15584	18104	20759	6696	2.32	12.1	117.0
			35	10433	12529	14799	17217	19748				
			38	9892	11881	14035	16331	18739				
			43	8988	10799	12760	14856	-				
PAC4611Z	EXTRA LARGE	9.0	32	12970	15504	18156	20921	23835	8251	2.20	13.6	117.0
			35	12360	14776	17301	19934	22719				
			38	11749	14046	16444	18947	21604				
			43	10723	12823	15010	17299	19748				
PAC4612Z	EXTRA LARGE	10.0	32	14964	17755	20558	23382	26328	9933	2.07	15.5	121.0
			35	14269	16932	19604	22302	25142				
			38	13574	16108	18648	21222	23959				
			43	12411	14732	17056	19428	22000				

\* RLA: Rated Load Ampere MCC: Maximum Continuous Current LRA: Lock Rotor Ampere

# Specification



Model	HP	Platform	Fan		Diameter of Connection (mm)		Dimension (mm)			Weight (kg) Standard	Weight (kg) Fully Built
			Size	Input	Suction	Liquid	Width	Depth	Height		
PAC2446Z	1.2	MINI	1 x 350mm	129W	15.9 (5/8")	9.5 (3/8")	913	416	532	44	49
PACS2470Z	1.8		1 x 350mm	129W	15.9 (5/8")	9.5 (3/8")				54	60
PACS2495Z	2.5	SMALL	1 x 450mm	250W	15.9 (5/8")	9.5 (3/8")			638	64	70
PAC2512Z	3.8		1 x 450mm	250W	15.9 (5/8")	9.5 (3/8")				64	70
PAC2516Z	4.4	MEDIUM	1 x 500mm	380W	22.2 (7/8")	12.7 (1/2")			792	94	101
PAC2522Z	5.5		1 x 500mm	380W	22.2 (7/8")	12.7 (1/2")				94	101
PAC2525Z	6.1		1 x 500mm	380W	22.2 (7/8")	12.7 (1/2")				94	101

Model	HP	Platform	Fan		Diameter of Connection (mm)		Dimension (mm)			Weight (kg) Standard	Weight (kg) Fully Built
			Size	Input	Suction	Liquid	Width	Depth	Height		
PAC4536Z	3.0	MEDIUM	1 x 500mm	380W	15.9 (5/8")	9.5 (3/8")	913	416	792	75	82
PAC4548Z	4.0		1 x 500mm	380W	15.9 (5/8")	9.5 (3/8")				75	82
PAC4560Z	5.0	LARGE	2 x 450mm	2 x 250W	22.2 (7/8")	12.7 (1/2")			1217	106	118
PAC4572Z	6.0		2 x 450mm	2 x 250W	22.2 (7/8")	12.7 (1/2")				106	118
PAC4584Z	7.0		2 x 450mm	2 x 250W	22.2 (7/8")	12.7 (1/2")				106	118
PAC4596Z	8.0	EXTRA LARGE	2 x 500mm	2 x 380W	28.6 (1-1/8")	12.7 (1/2")				131	141
PAC4611Z	9.0		2 x 500mm	2 x 380W	28.6 (1-1/8")	12.7 (1/2")				131	141
PAC4612Z	10.0		2 x 500mm	2 x 380W	28.6 (1-1/8")	12.7 (1/2")				131	141

Model	HP	Platform	Fan		Diameter of Connection (mm)		Dimension (mm)			Weight (kg) Standard	Weight (kg) Fully Built
			Size	Input	Suction	Liquid	Width	Depth	Height		
PAC4466Y	0.6	MINI	1 x 350mm	129W	15.9 (5/8")	9.5 (3/8")	913	416	532	44	49
PAC4489Y	0.8									44	49
PAC9472Z	0.9									44	49
PAC9486Z	1.1									44	49
PAC4516Z	1.4	SMALL	1 x 450mm	250W	15.9 (5/8")	9.5 (3/8")			633	61	67
PAC4522Z	2.0									63	69
PAC4524Z	2.3									63	69
PAC4532Z	2.7									63	69
PAC4538Z	3.3	MEDIUM	1 x 500mm	380W	15.9 (5/8")	9.5 (3/8")			792	76	82
PAC4544Z	3.8									76	82
PAC4553Z	4.4									94	101
PAC4561Z	5.1	LARGE	2 x 450mm	2 x 250W	22.2 (7/8")	12.7 (1/2")			1217	115	125
PAC4568Z	5.4									115	125
PAC4573Z	5.8									115	125
PAC4581Z	6.3									115	125

### Standard Accessories



Fan Motor



Filter Drier

High Low  
Pressure Switch3 Way Service  
Valve

### Fully Built Accessories



Fan Motor



Filter Drier

High Low  
Pressure Switch3 Way Service  
Valve



Solenoid Valve



Sight Glass



Liquid Receiver

Note : All LBP ( Low Temp) Fully Built Units are Fitted with Adjustable HP/LP Switch Only

### Optional Accessories



HP/LP Switch



Oil Separator



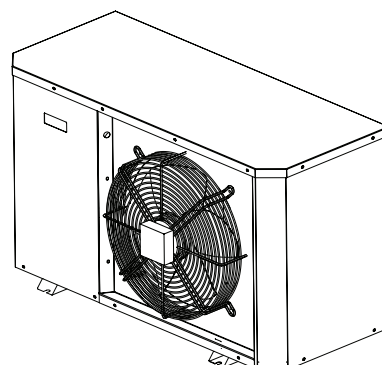
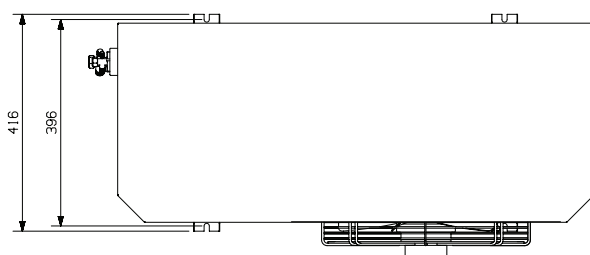
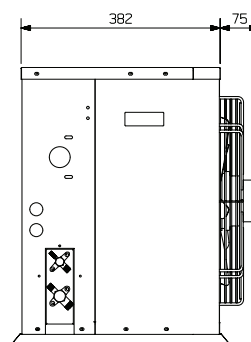
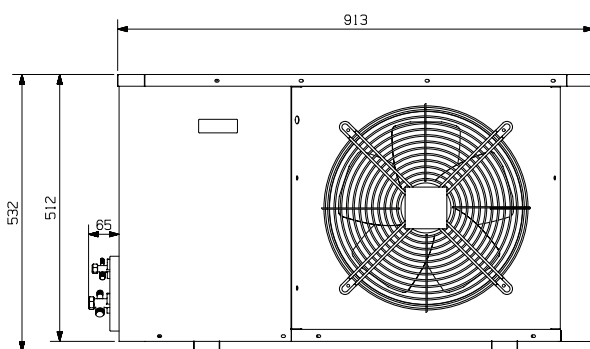
Electricals



Suction Accumulator

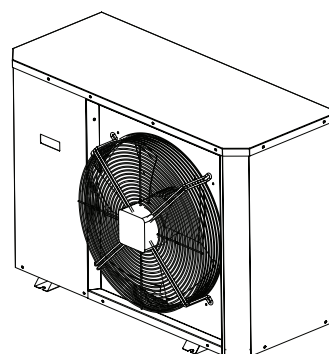
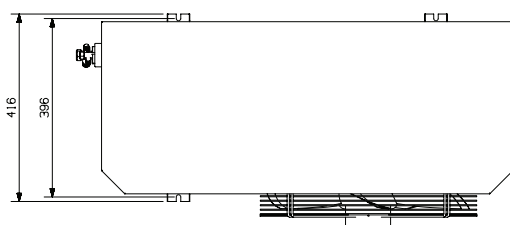
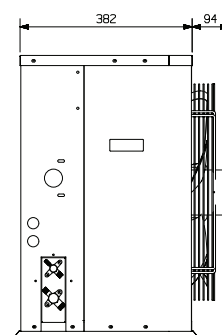
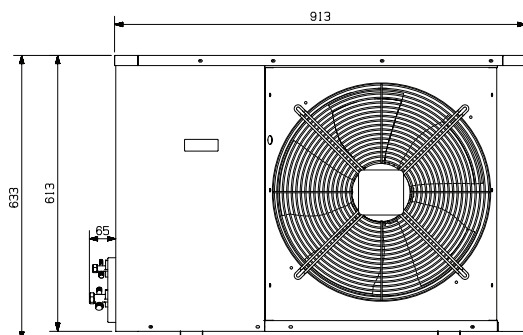
# *Drawing*

## PAC<sup>3</sup> Mini

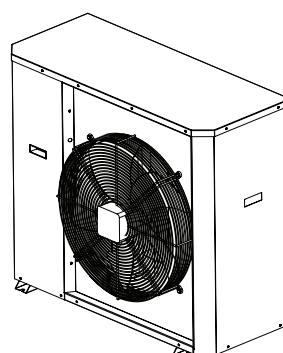
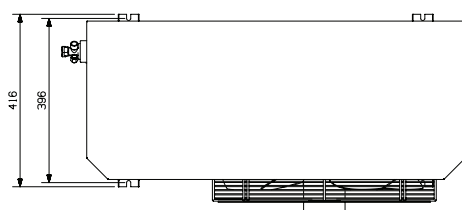
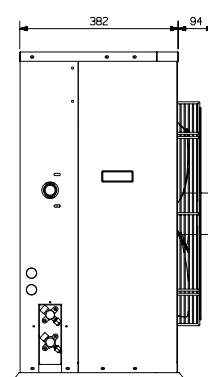
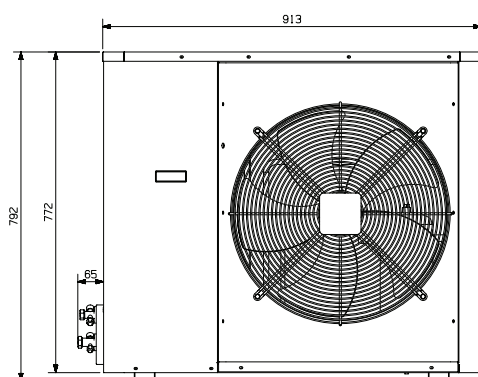


# Drawing

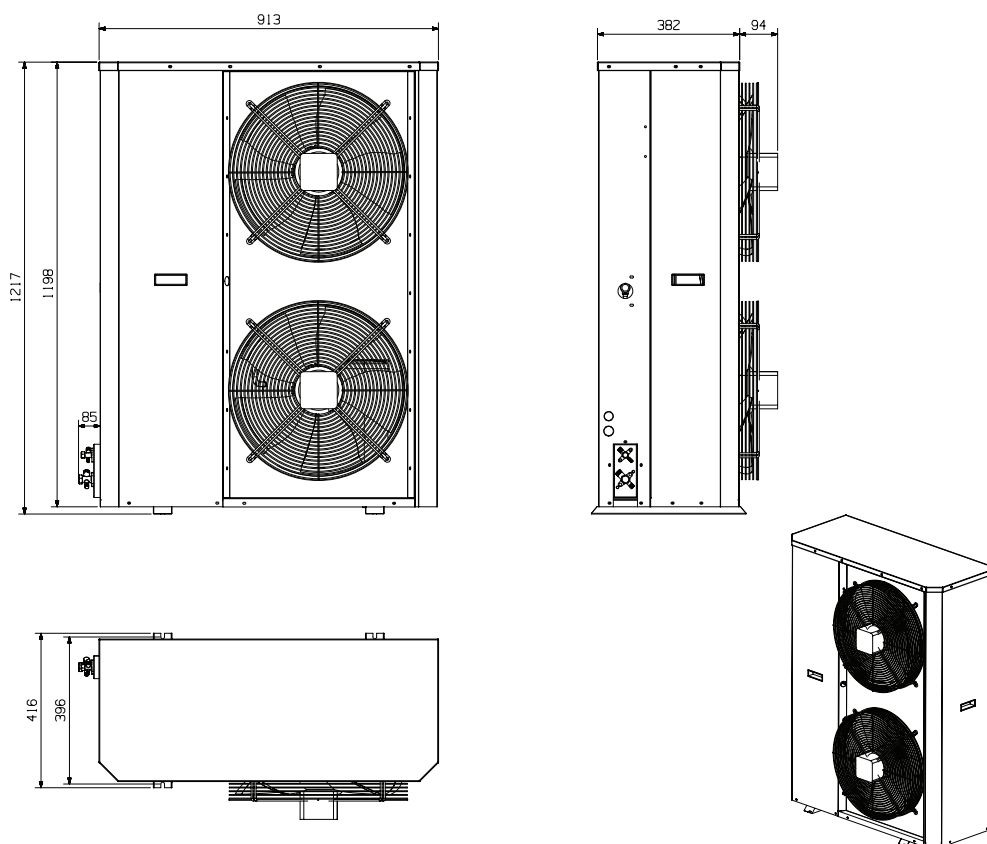
## PAC<sup>3</sup> Small



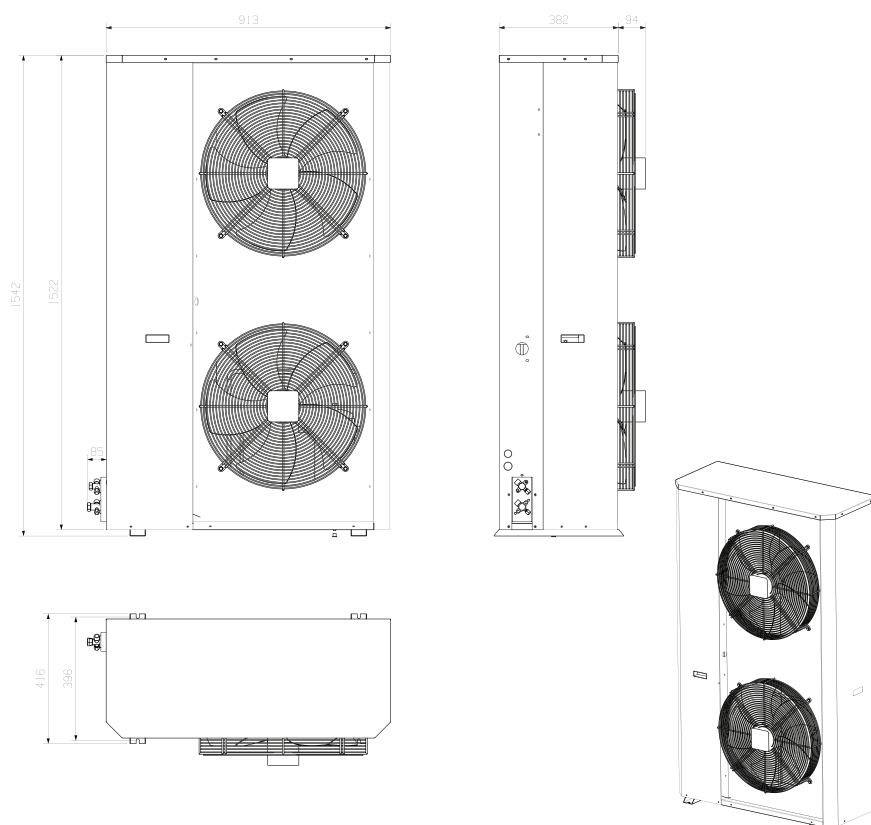
## PAC<sup>3</sup> Medium



## PAC<sup>3</sup> Large



## PAC<sup>3</sup> Extra Large



# Packaging

Unit Packaging	Dimension (mm)		
	Length	Width	Height
Mini	1067	562	810
Small			995
Medium			
Large			1564
Extra Large			



[illegible]



***Tecumseh***

*Cooling for a better tomorrow*

REGISTERED  
OFFICE

**Tecumseh Products India Private Limited,**  
Survey No.667/P and 784/P, Kistapur Village,  
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COMPRESSORS  
PLANT

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