

TECUMSEH PRODUCTS INDIA LIMITED
(A wholly owned company of TPC, USA).



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**The face of the future in
compressor technology**

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This supersedes all the earlier catalogues.



MKT/AW/01/02/01



AW - SERIES

AW SERIES - THE ENERGY EFFICIENT COMPRESSORS

The AW Series of energy efficient compressors from Tecumseh, is undoubtedly most preferred range of compressors for air-conditioners. The AW Series is the choice of several leading international manufacturers of air conditioners. An overwhelming number of air-conditioner manufacturers use Tecumseh designed compressors. The computer designed motor in the AW Series, is tropicalised to function in the extreme conditions, and ruggedly built to perform efficiently in the adverse power conditions with a wide operating voltage range of 180-260V, giving the compressors long life and trouble-free performance. The compressors have been tested for 4,000 hours at 52°C successfully. Meets SASO standards.

Built to match international standards of quality and performance, the AW Series is highly energy efficient, ensuring low power consumption resulting in cost savings. No wonder, leading air conditioner manufacturers prefer these energy efficient, rugged and reliable compressors in Saudi Arabia, UAE, Pakistan, etc. and India.

The state-of-the-art Tecumseh AW Series is manufactured under stringent process controls in India by Tecumseh Products India Limited with Tecumseh's years of global expertise in design and manufacture of compressors, and over three decades of experience in understanding the market and customer requirements.

The quality is backed by manufacturing under ISO 9001 certified quality management system (by BVQI). The product is approved by UL & VDE.

Compressor Model	No. of Cylinders	Displacement per revolution		Nominal Speed	Cooling Capacity		Circuit	Frequency	Rated Voltage	Current	Power	Energy Efficiency Ratio		LRA	Voltage Range	Run Capacitor	Oil Quantity	Weight including Oil
		CC	Cu. In		Btu/hr	K.Cal/hr						Btu./whr	K. Cal./whr					
AW 1000	2	30.60	1.867	2900	13500	3400	PSC	50	230	6.20	1300	10.40	2.60	40	180-260	25	950	27.0
AW 1000 Q	2	32.70	1.996	2900	13000	3274	PSC	50	230	6.30	1400	9.30	2.33	40	180-260	25	950	27.0
AW 1000 QC	2	32.70	1.996	2900	13000	3274	PSC	50	230	6.30	1400	9.30	2.33	40	180-260	25	950	25.0
AW 1500	2	39.60	2.416	2900	19000	4788	PSC	50	230	8.20	1775	10.70	2.70	51	180-260	36	950	27.7
AW 1500 Q	2	43.26	2.640	2900	19000	4790	PSC	50	230	8.50	1875	10.13	2.56	51	180-260	36	950	27.7
AW 1750	2	43.26	2.640	2900	20700	5214	PSC	50	230	10.00	2050	10.10	2.54	51	180-260	36/40	950	27.7
AW 2000	2	50.60	3.088	2900	25200	6350	PTCSCR	50	230	11.70	2400	10.50	2.60	79	187-260	45	950	30.0

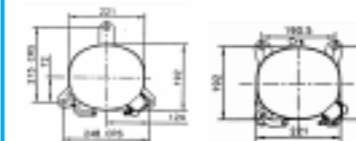
1. Evaporating Temperature Range	-3.9°C to +12.8°C +25 to +55°F	6. Evaporating Temperature	7.2°C, 45°F	12. Suction Pressure	5.34Kg/cm ² , 76Psig
2. Refrigerant	R-22	7. Condensing Temperature	55°C, 131°F	13. Discharge Pressure	21.09Kg/cm ² , 300Psig
3. Refrigerant Control	Capillary	8. Liquid Subcooling Temperature	46°C, 115°F	14. Design	Reciprocating
4. Compressor Cooling	12cmm, 425cfm	9. Return Gas Temperature	35°C, 95°F	15. Internal Pressure Relief Valve	Provided
5. General Application	RAC/SPLIT/WC	10. Ambient Temperature	35°C, 95°F	16. High Potential Test	1500 volts for 1 sec
		11. Phase	1	17. Over Load Protector	Internal

Notes :

- (1) The Compressors conform to IS : 10617-1983, Part - 1.
- (2) Values of cooling capacity, current and power input are nominal and subject to a variation of +5%
- (3) The voltage range refers to terminal voltage and is as per specified rated test conditions. The compressor can start and run (upto 46°C) if the terminal voltage is in the specified range.
- (4) Motor circuit PSC indicates Permanent Split Capacitor type.
- (5) Motor circuit PTCS- CR indicates Positive Temperature Co-efficient Start & Run type.
- (6) Specifications are subject to change without prior notice. Please contact nearest sales office/depot/dealer for further information.
- (7) The product specifications do not conform to any regulatory and other requirements than those mentioned.

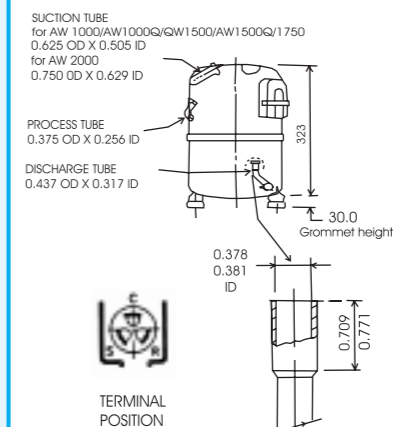
PHYSICAL DIMENSIONS

MOUNTING DIMENSIONS FOR AW SERIES

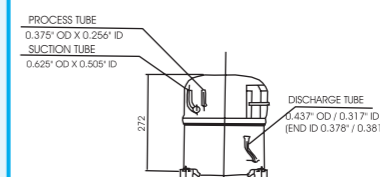


FOR 3-LEG MTG FOR 4-LEG MTG

PHYSICAL DIMENSIONS OF ALL MODELS EXCEPT AW 1000 QC



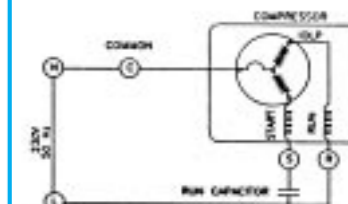
PHYSICAL DIMENSIONS OF AW 1000 QC



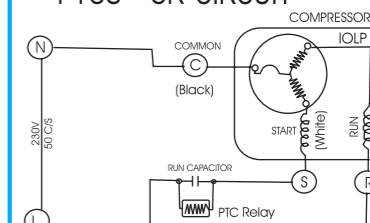
NOTE:
ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT TUBE DIMENSIONS WHICH ARE IN INCHES.

WIRING DIAGRAMS

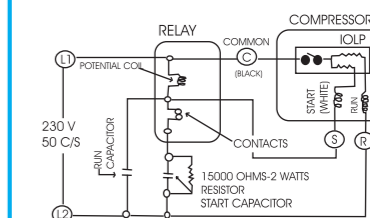
PSC CIRCUIT



PTCS - CR CIRCUIT



CSR CIRCUIT



The following accessories should be used in the unlikely event that a starting kit is necessary with AW 1000, AW 1000Q, AW 1000QC, AW 1500, AW 1500Q, AW 1750 & AW 2000 models.

ACCESSORIES DETAILS

Compressor Model	Start Relay	Start Capacitor (MFD)
AW 1000	1500 R	80/100
AW 1000Q	1500 R	80/100
AW 1000QC	1500 R	80/100
AW 1500	1500 R	80/100
AW 1500Q	1500 R	80/100
AW 1750	1500 R	80/100
AW 2000	2000 R	80/100
AW 2000	SPT CR015	-

The start capacitors should have rating of 275 V surge