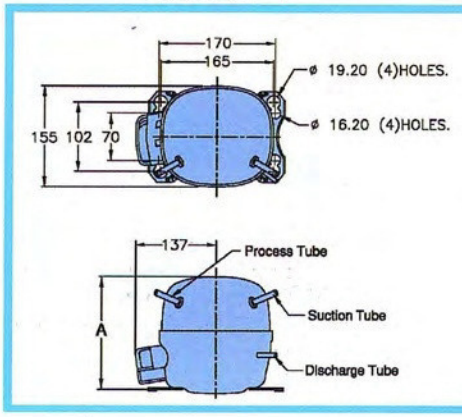
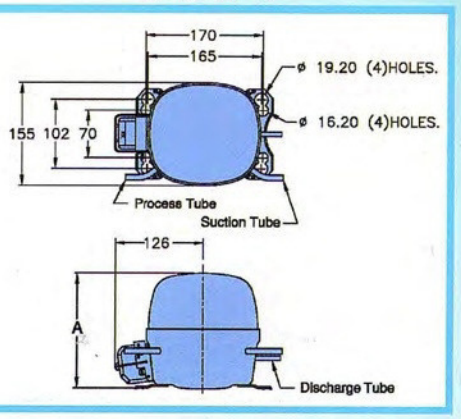
AZ/AZA Compressor

General Dimensions (mm.)

AZ/AZA - 1



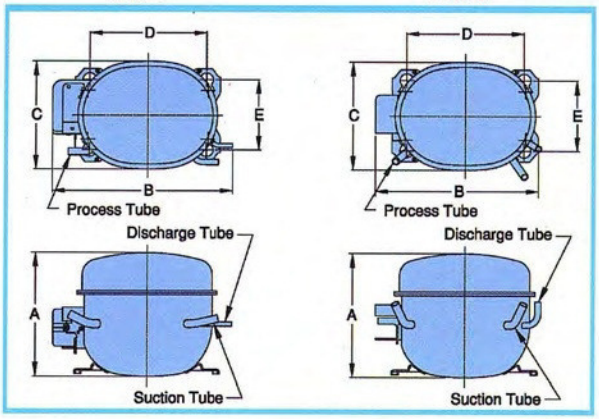
AZ/AZA - 2



AE Compressor

General Dimensions (mm.)

AE-1

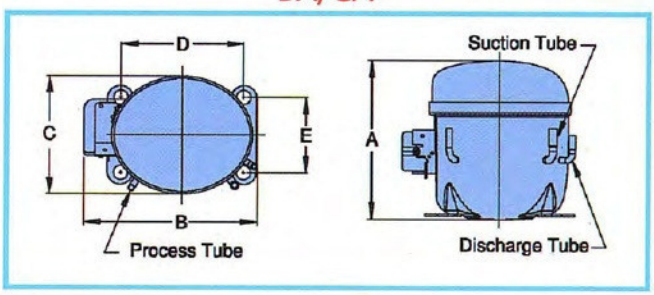


AE-2

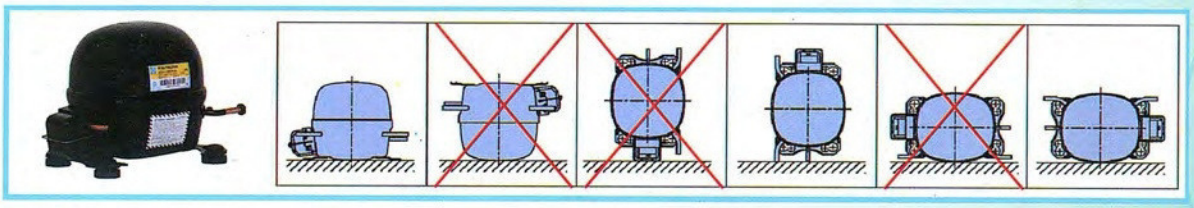
BA/CA Compressor

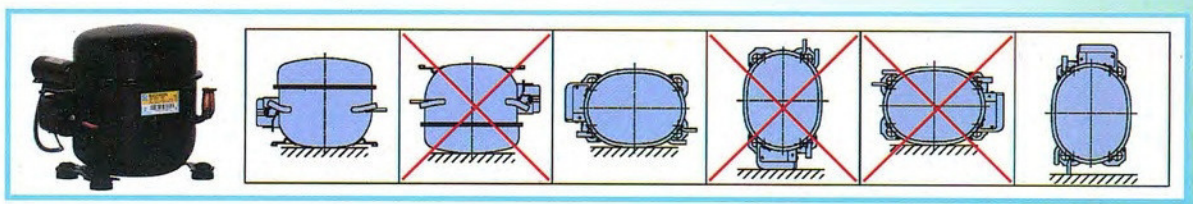
General Dimensions (mm.)

BA/CA



Allowable Positions For Shipping After Compressor Assembly

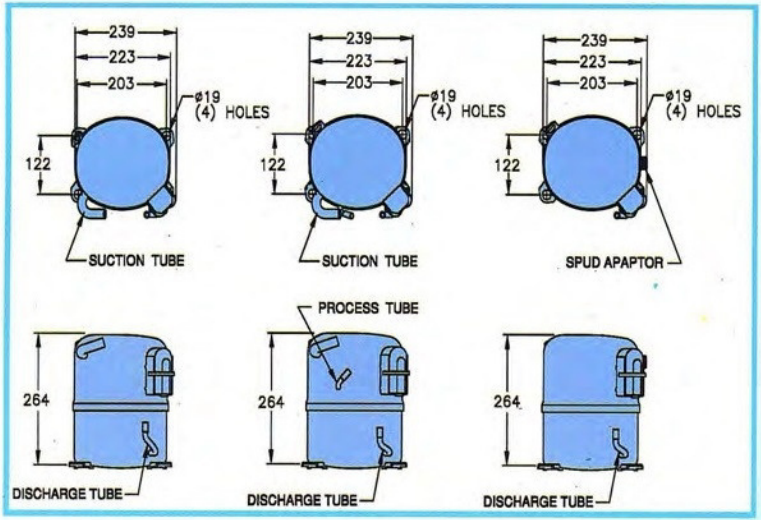




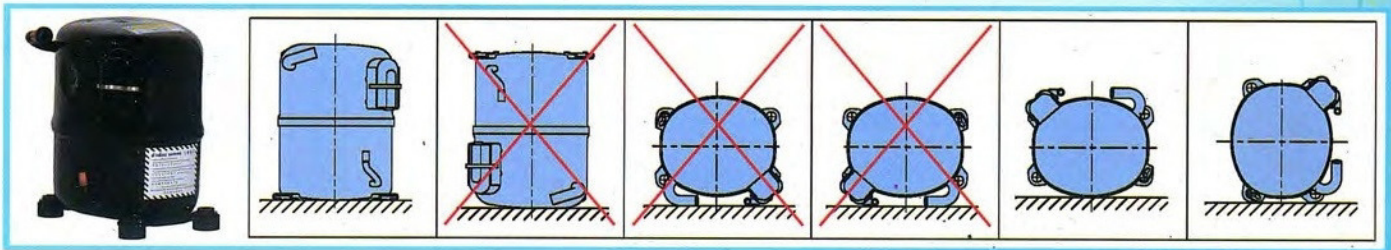
WJ Compressor

General Dimensions (mm.)

WJ-1 WJ-2 WJ-3 With Spud Adaptor



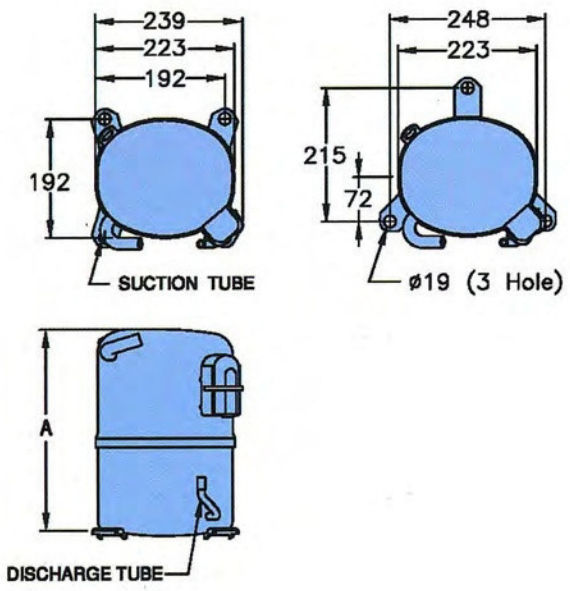
Allowable Positions For Shipping After Compressor Assembly



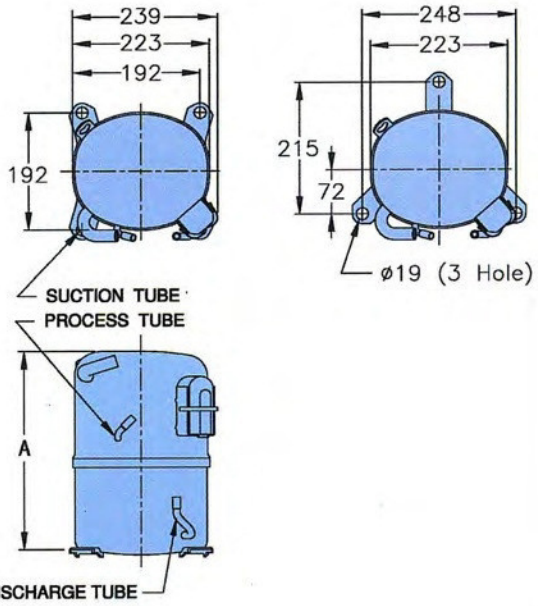
AW Compressor

General Dimensions (mm.)

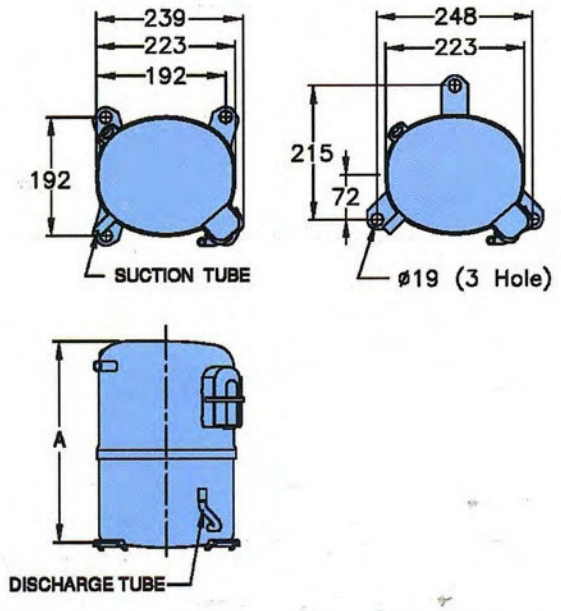
AW-1



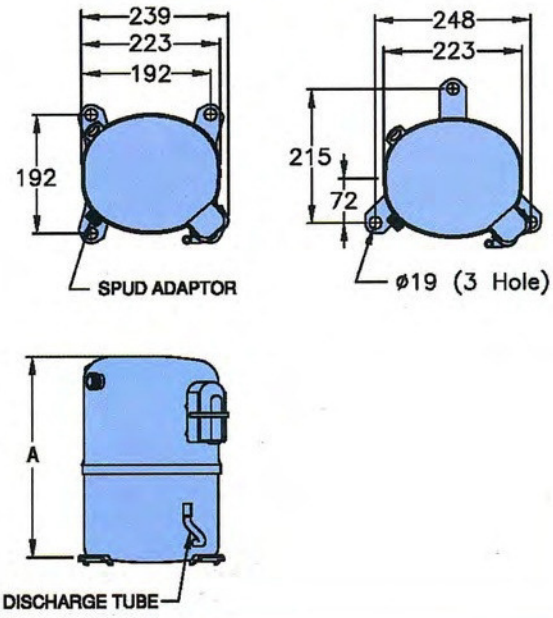
AW-2



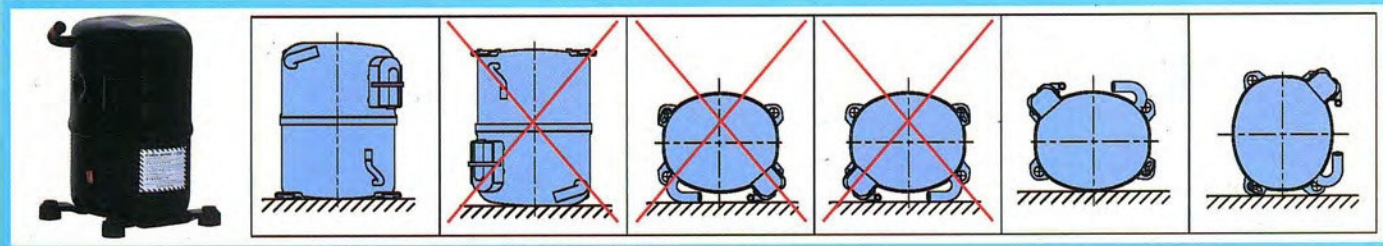
AW-3



AW-4 With Spud Adaptor

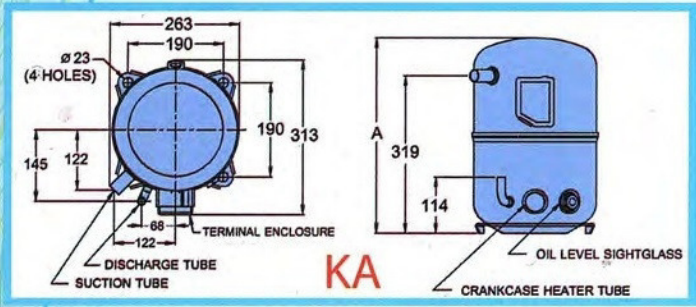


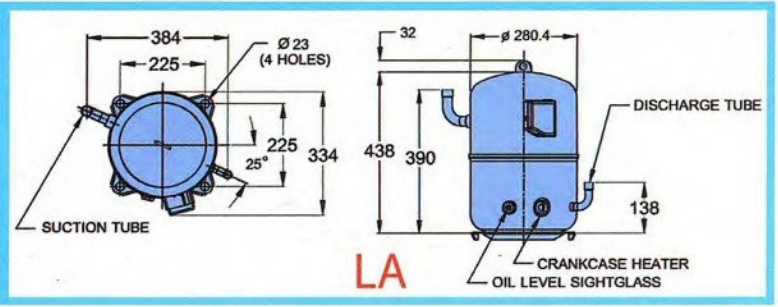
Allowable Positions For Shipping After Compressor Assembly



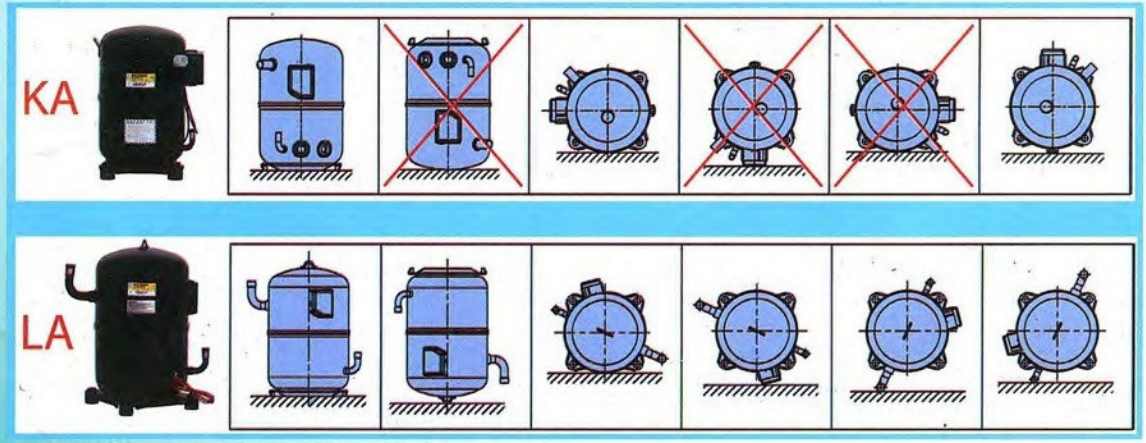
KA / LA Compressor

General Dimensions (mm.)



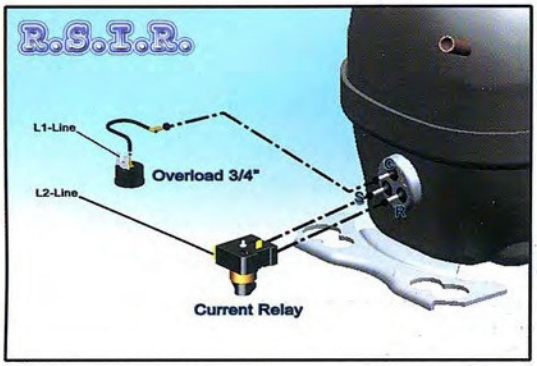


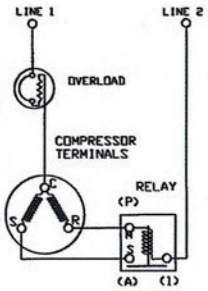
Allowable Positions For Shipping After Compressor Assembly



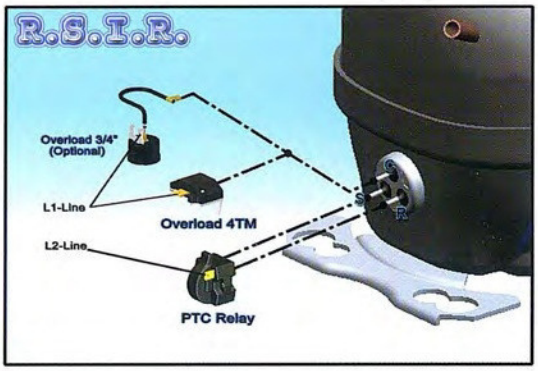
MOTOR TYPE / WIRING DIAGRAM

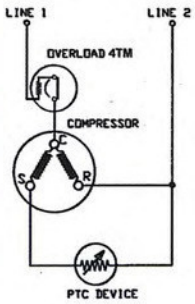
RSIR: Resistance Start Induction Run





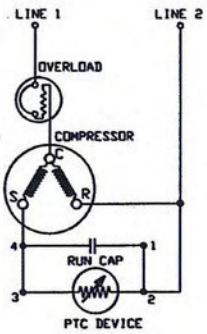
RSIR motor with current relay:
The motors have a normal starting torque and are designed for completely self-equalizing capillary tube.





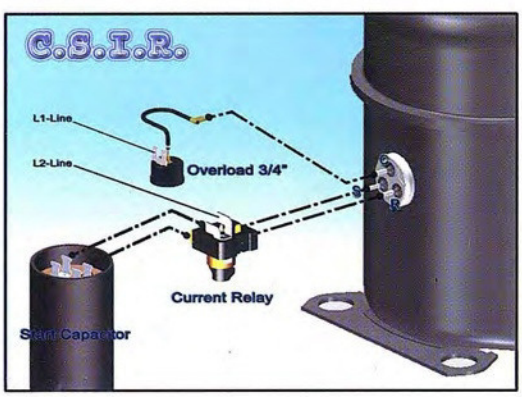
RSIR motor with PTC relay:
The motor functioning is similar to the RSIR with current relay motor, except for the current relay, which is replaced by the PTC relay.

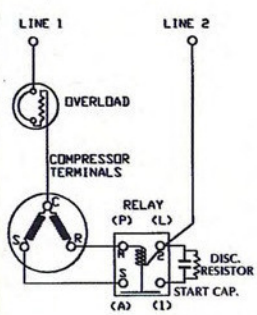
RSCR: Resistance Start Capacitor Run



The motors have a PTC starting torque and a run capacitor. Their functioning is similar to the PSC motor. These compressors have a normal starting torque.

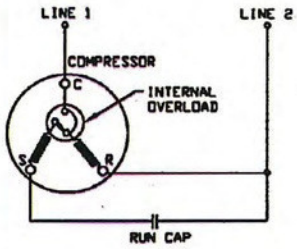
CSIR: Capacitor Start Induction Run





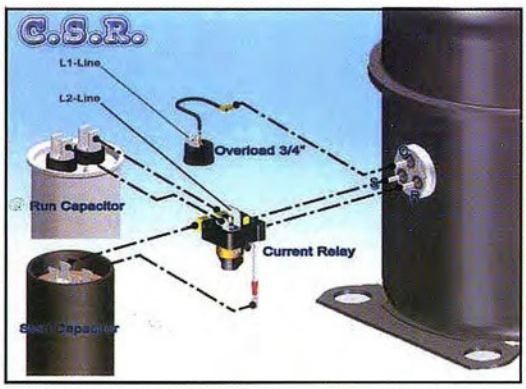
The motors have a high starting torque, using an electrolytic starting capacitor. Recommended for applications with capillary tube or expansion value systems.

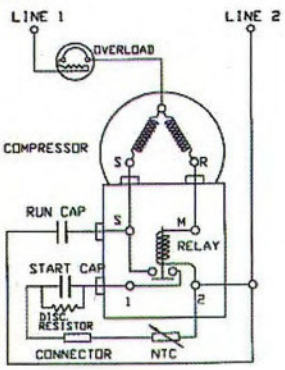
PSC: Permanent Split Capacitor

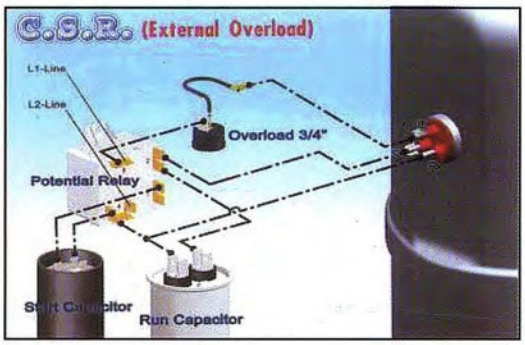


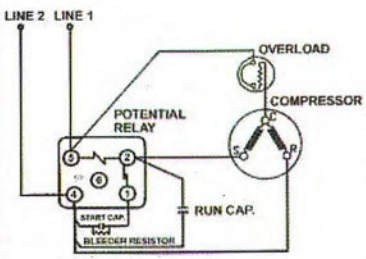
A run capacitor in series with the start winding produces a higher efficiency (EER) in comparison to a RSIR motor. They have a normal starting torque and are designed for capillary tube control devices, with equalized pressures.

CSR: Capacitor Start Capacitor Run

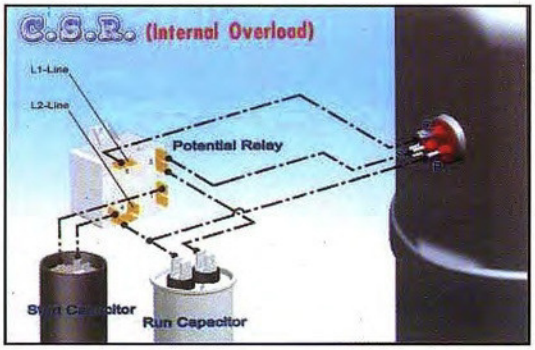


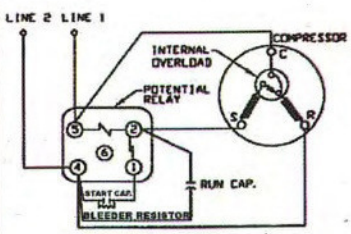






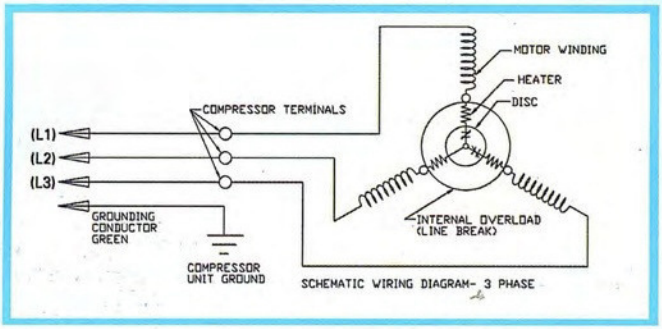
This motor arrangement uses a start capacitor added to a PSC circuit. The high starting torque is suitable for unequalized systems with capillary tube or expansion valve, maintaining the same efficiency of a PSC motor.

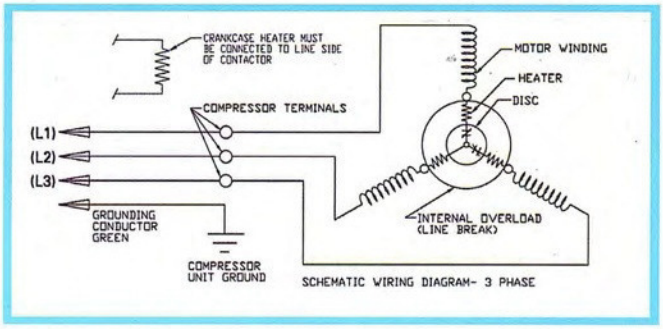




3 Phase Motor

Excellent starting torque, a wide operating voltage range, no ancillary starting devices (relays, capacitor), reduced starting load on any individual phase and minimal impact on nearby lighting, etc.





Rating Conditions (ASHRAE-T) for All Series

	LBP	MBP/CBP	HBP/AC
- Evaporating Temp.	-10°F / -23.3°C	20°F / -6.7°C	45°F / 7.2°C
- Condensing Temp.	130°F / 54.4°C	130°F / 54.4°C	130°F / 54.4°C
- Return Gas Temp.	90°F / 32°C	95°F / 35°C	95°F / 35°C
- Liquid entering Temp.	90°F / 32°C	115°F / 46°C	115°F / 46°C
- Room Ambient	90°F / 32°C	95°F / 35°C	95°F / 35°C
- Application Range	**-34 to -12°C (-29 to 10°F)**	**-23 to 12.7°C (-9.4 to 9.1°F)**	**-6.7 to 12.7°C (20 to 55°F)**

Conversion Factor

Capacity in HP (Horse Power)

in High Back Pressure (HBP) and Air Conditioning (HBP/AC)

$$HP = \frac{\text{Performance at 60Hz in Btu/hr}}{12000}$$

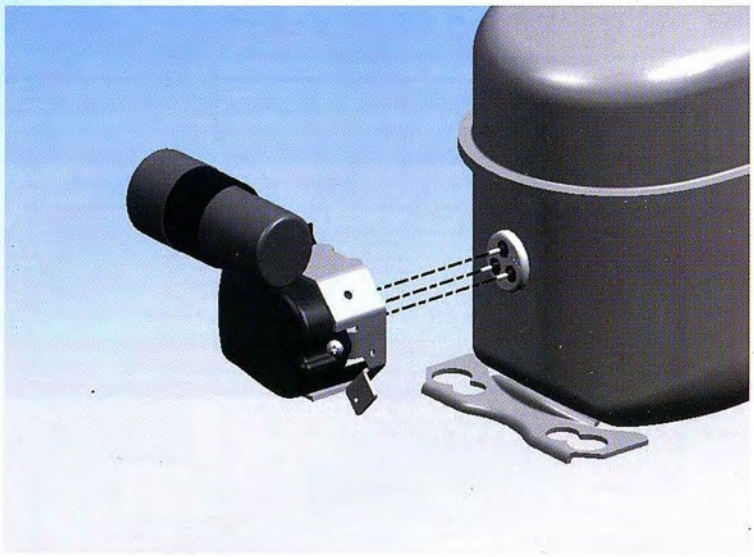
in Medium / Commercial Back Pressure (M / CBP)

$$HP = \frac{\text{Performance at 60Hz in Btu/hr}}{8000}$$

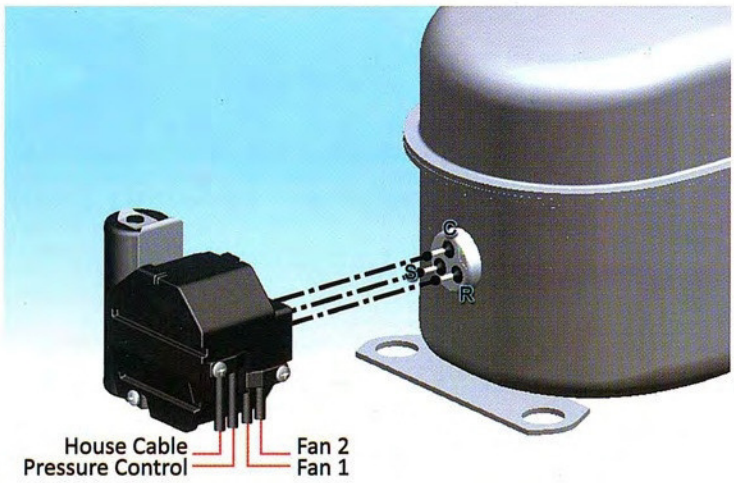
in Low Back Pressure (LBP)

$$HP = \frac{\text{Performance at 60Hz in Btu/hr}}{4000}$$

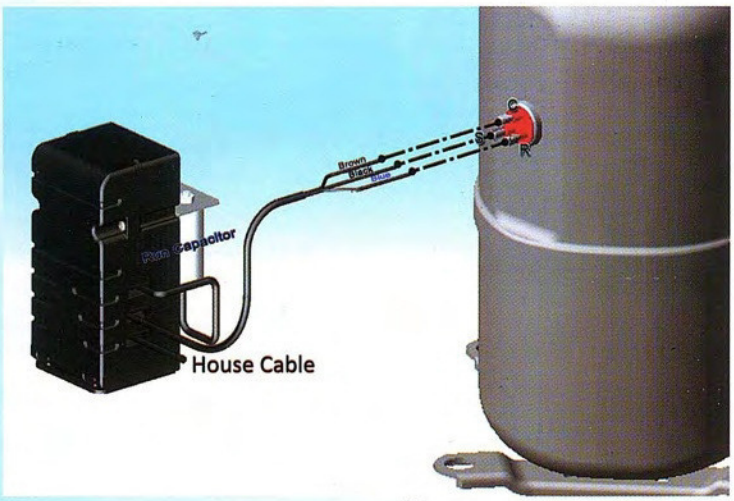
Electrical Assembly (Normal Type) for AE, BA Series (Current Relay, External Overload, Start Capacitor)



Electrical Terminal Box for AE, BA Series (Current Relay, External Overload, Start Capacitor)



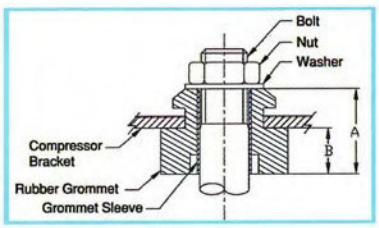
Electrical Terminal Box for AW, WJ Series (Potential Relay, Internal Overload, Start and Run Capacitor)



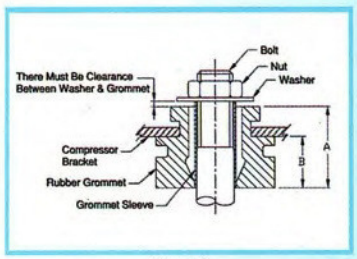
SERIAL PLATE LABEL & COMPRESSOR MOUNTING SYSTEM

Serial Plate Label

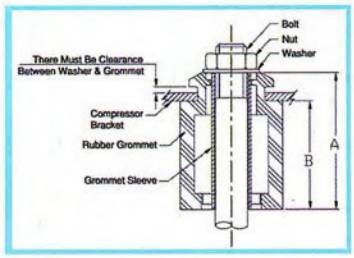
Compressor Mounting System



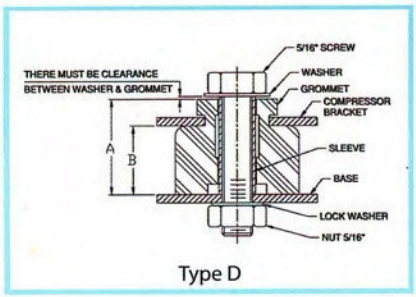
Type A



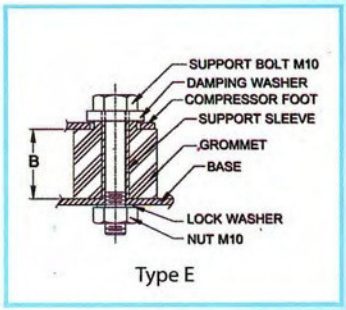
Type B



Type C



Type D



Type E

Series	Type	High "A" (mm.)	High "B" (mm.)
AZ, AZA AE, BA	A	17.5	9.5
	B	21.8	13.9
	C	37	29
AW, WJ	D	28.5	20.6
KA, LA	E	-	35