

Brief Installation & Commissioning Instruction - APS Semi Hermetic Models with EC Fans

1. Safety

Only appropriately licensed and qualified personnel should work on this Semi Hermetic refrigeration unit.
Appropriate personal safety equipment must be worn at all times.
Take care when relieving the dry nitrogen holding pressure.

2. Good Refrigeration Practice

The Current A/NZ Code of Good Practice and all relevant Australian Standards must be followed when installing this unit. The internal components of the system must be kept clean and free from moisture at all times.

3. Transport Damage and Holding Pressure

The unit must be inspected for damage and the holding pressure checked prior to installation. Any damage or lack of holding pressure must be reported to the supplier before installation commences.

4. Electrical Connection Checks

Due to possible vibration during transport all electrical connections must be checked to ensure the safe and correct operation of the unit

5. Leak Testing and Evacuation

Dry nitrogen must be used when soldering pipe work to ensure the system remains internally clean.
The unit and system must be thoroughly leak tested prior to evacuation.
The entire refrigeration system must be evacuated to 300 microns or less.

6. Deep Vacuum Operation Warning

Never run a compressor in deep vacuum. Failure to heed this advice can result in arcing inside the compressor causing permanent damage. Open the Suction and Discharge valves before starting the compressor. Do not by-pass the HP/LP safety control.

7. Refrigerant Charging

The crank case heater should be powered for at least 12 hours prior to commissioning to avoid excessive bearing wear. No liquid refrigerant should return to the compressor at any time.

8. Essential System Checks

The following must be checked and adjusted as required;
Voltages, amperages, oil level, pressures and temperatures.
The system must be run tested and superheat set correctly.

9. Fan Speed Control Operation

The fan speed control fitted to this unit must be set during commissioning. The Ziehl Abegg fan speed control located in the compressor compartment provides a 0 to 10 volt signal to the 3 phase EC fans. Set both the set point and control range following the Installation and Commissioning Instruction booklet provided with this unit.

10. Installation and Commissioning Instruction Booklet


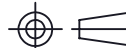
Read and follow the supplied Installation and Commissioning Instruction booklet

APS Model	Compressor Model	Unit Maximum Operating Current	Compressor Maximum Operating Current	Fan Maximum Operating Current	Control Circuit Breaker	Circuit Breaker "C" Curve	Overload Setting	Contactor kW Rating
Amps								kW
APS 39.5 ML2-1	SH 4623 YMZ	39.1	35.3	2 x 1.9	C16	50		20
APS 46.5 ML2-1	SH 4627 YMZ	47.3	43.5	2 x 1.9	C16	50		24
APS 56.4 ML2-1	SH 4632 YMZ	53.0	49.2	2 x 1.9	C16	63		28
APS 64.2 ML2-1	SH 4639 YMZ	64.8	61.0	2 x 1.9	C16	100		39

Actrol reserves the right to change specifications without notice

7366546 Ind B 28-04-2017

296x208
White Color

No.	Ind	Modification	Date	Drawn	Checked	Approved	Model	APS Extra Large ACPAC	Drawn	rudy
2	B	Change data.	28/04/17	rudy	Ubai	Sham	Description	Sticker - Installation	Checked	KF
1	A	Change data on Circuit Breaker 'C' Curve.	20/12/16	rudy	Ubai	Sham	Drawing No.	7366546	Approved	Sham
							Date	30/11/2016	Index	B
										
										
							TECUMSEH EURO-MALAYSIA SDN BHD			