



Technical Manual

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REVISION SHEET

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Sigma Manual: SM278-2715

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14 October, 2002
Winfried Wirfler

ISSUE	E.C.R. No.	DATE	PAGE	DESCRIPTION
A	3070	15/4/96	Section 9 - Page 3	Evaporator motor was P/No 320023. Brush was P/No. 320612. Shaft extension was P/No. 872127.
B	3085	30/4/96	Section 10	Drawing T2715002 revised.
C	3109	24/6/96	Section 9 - Page 3	EFM rationalised to use P/No.UE026; was S2715042.
	3000		Section 10	Drawing AR271514 revised.
D	-	1/5/98	Section 9 & 10	Drawings AS271546 and AS271547 added; Spare Parts listing revised accordingly.
E	4875	22/7/99	Section 10	Drawing revisions added and Drg AS271547.
F	5717	28/1/00	Sections 2, 3, 4	Manual re – written to include heater elements and a semi - hermetic type compressor
G	8446	19/8/02	Sections 3, 9, 10	Schematics updated, Spares numbers changed
H	8446	9/10/02	Section 3	All references to 480VAC changed to 415VAC

SECTION 4.0 INSTALLATION AND COMMISSIONING

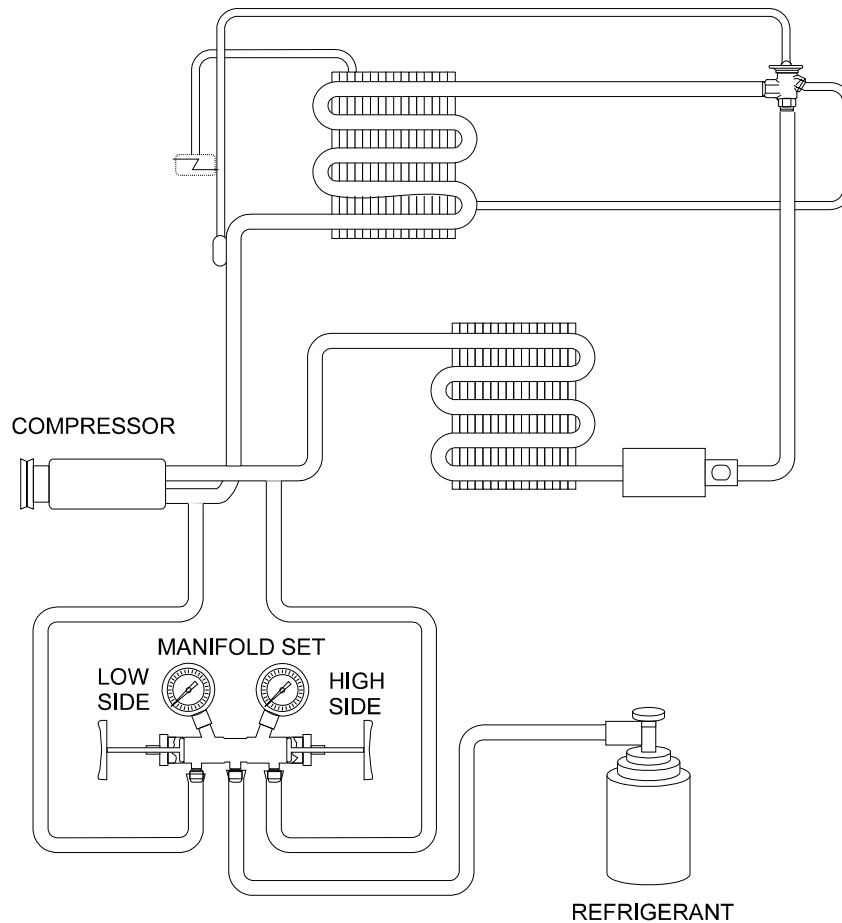
The following procedure is to be used only as a guide for the preferred installation methods.

4.1 UNIT INSTALLATION

- a) To ensure a successful installation, it is vital to achieve secure mounting of the unit to rigid mounting points; capable of safely carrying the weight of the unit under its typical operating conditions.
- b) Provided the criteria above mentioned are met, installation can proceed with the preparation of a template from the mounting plan given on drawing T5206001 and T5207001 (refer Section 10).

Note: Due care must be taken in positioning the unit to ensure that interference with existing cab structure/components does not occur.

- c) Drill mounting holes; if necessary, reinforce the mounting surface to support the weight of the unit. Treat raw edges for corrosion.
- d) If desired, make provision to run switch panel wiring to remote switch panel within roof lining.
- e) Mount unit into position using the bolts provided (if suitable). Ensure the unit pulls down/up evenly and flush to the mounting surface. Seal bolt penetrations to prevent ingress of dust and water.
- f) Run drain with PVC tube provided. These must be run to the front and rear of the cab on both sides of the unit. Either 'P' traps or one way valves should be fitted to each drain outlet.
- g) Water test to ensure a good seal is provided plus drains are clear and free from leaks.
- h) Ensure that the return air thermostat probe is fixed in the return air stream behind the return air filter. Check that the thermostat de-ice probe is located within the fins of the evaporator coil.

FIGURE 4.7

13. Adequately seal all hoses and fittings before storing.

Note: If it is necessary to change the refrigerant cylinder during the charging procedure, the low pressure gauge hand valve must be tightly closed before disconnecting the empty cylinder. On fitting the full cylinder it will be necessary to purge any air from the charging hose before opening the hand valve and continuing with the charging operation.

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6.3 COMPONENT MAINTENANCE

6.3.1 COILS

If cleaning is required wash with low pressure, mains temperature water in the reverse direction to the air flow. For evaporator coil ensure a baffle is used to prevent any water from entering cabin through the return air plenum.

WARNING: DO NOT brush coil fins with a wire brush as irreparable damage may occur. If fins are bent, use only the correct fin comb to straighten them.

6.3.2 FAN MOTORS

Check the motors for excessive shaft end-play. Brushes are accessible by removing the two plastic brush caps on each motor.

Note: Before removing brush caps thoroughly clean the motors using water-free compressed air.

6.3.3 FAN BLADES

Check the fan blades for wear or damage. Check that blades are tight on motor shaft. Any damaged/worn blades should be replaced - DO NOT repair.

6.3.4 FRESH AIR FILTER

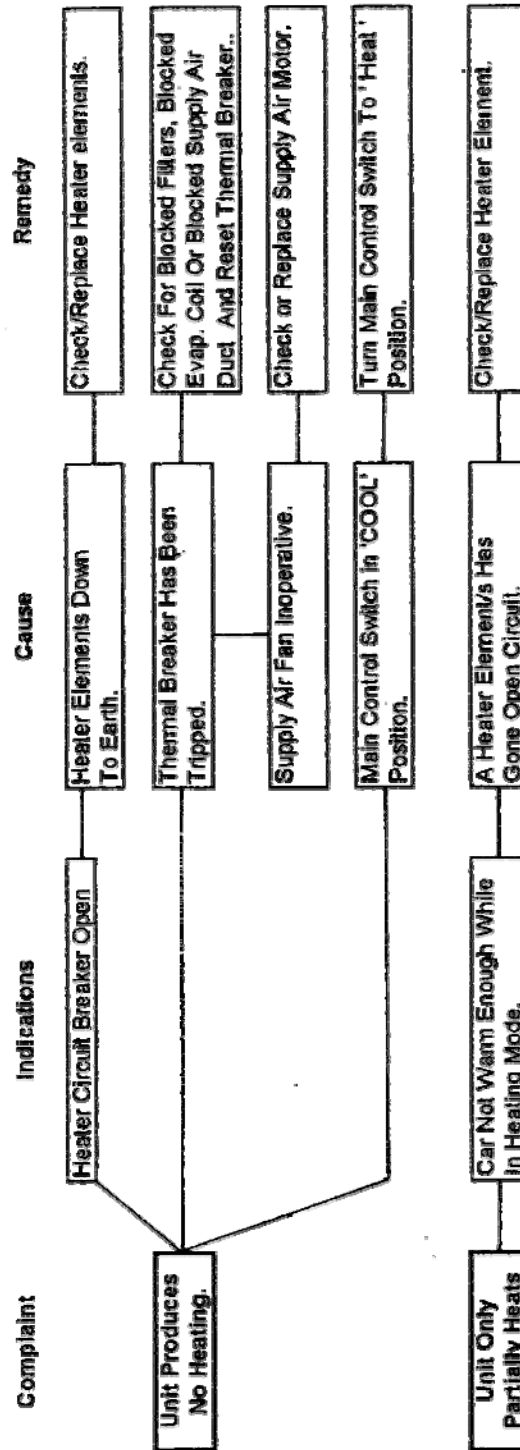
The fresh air pressurising filter is located inside the filter housing of the pressuriser unit. The fresh air filtration system is comprised of a pre-cleaner bowl plus a filter element. Both of these items should be checked at regular intervals for signs of damage or deterioration. To service fresh air filtration systems proceed as follows -

1. Remove pre-cleaner bowl from top of filter housing. Clean out accumulated dust and refit bowl.
Note: Take care not to over-tighten knurled knob on top of pre-cleaner bowl cover.
2. Unclip the filter housing and remove the cover.
3. Remove and clean the filter element by gently tapping on a firm surface - DO NOT wash.
4. Check the rubber seals at the base of the filter element for damage or deterioration.
5. Remove accumulated dust from filter housing.
6. Refit the filter element, ensuring that it seats correctly and replace cover.

6.3.5 RECEIVER DRIER/INLINE DRIER

UNIT PRODUCES NO HEATING. UNIT ONLY PARTIALLY HEATS (TFC8BX2)

T series Trouble Shooting Flow Chart.



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