

EVAPORATOR ASSEMBLY FRONT

1. (a) **Nomenclature:** Evaporator Assembly Front
(b) **Part No.:** PC90253-01 (MEGGIT ADDISON), 9356311062
(c) **GIG No.:** 1539618
2. **Year of Procurement/ Source:** (AHQ/3101) Pilatus Aircraft Ltd
3. **Fleet/ Sub System/ Wpn System:** Pilatus
4. **Technical Applicability/ Broad Purpose:** To develop in-house ROH facility in the absence of MToT.
5. **Technical Specifications (attach as separate sheets):** IPC OF PILATUS PC 7 MK-II BTA CHAP-21-50-02 ITEM NO.05 FIG-01
6. **Publication Details (attach as separate sheets):** PILATUS PC7 MK II IPC CHAPTER 21-50-02 FIG-01 ITEM -05
7. **Photograph of Equipment**



EVAPORATOR ASSY FRONT
P/N PC9-0253-1

8 .Brief Description:There are two evaporators in the system. Front Evaporator is installed on the floor of front cockpit, under the center instrument panel. The unit comprises:

- (a) A core heat exchanger
- (b) A two-speed blower fan mounted in a thermoplastic housing
- (c) An expansion valve.

The expansion valve automatically adjusts the flow of refrigerant through the evaporator to prevent the formation of ice, which could block the evaporator matrix. The blower fan unit circulates air through the heat exchanger, which extracts the heat from the air flow. The cooled air is then directed through the air distribution unit to the air outlets.

A water drain on the evaporator passes overboard any condensation which forms.

9. Classification of Equipment-LRU/ Testers/ Ground Equipment/ Role Equipment (Electrical, Electronics, Mechanical, Software based etc.): LRU

10. Previous Repair History: Nil

11. Criticality (Priority I, II or III): PRIO-IV

12. Requirement: Repair or Indigenisation or both?:Repair

13.Quantity Required (One time/ Annual): 3

14. Sample Availability: Yes

15. Scale/ Deficiency: Nil

16. If deficient- How deficiency is being plugged?:N/A

17. SPOC details item/ fleet wise: SPE ISC, 5BRD,AF

18. Draft QTS with major testing requirement (If already designed):Under progress

19. Any Other Relevant Information: