



EGEA
EUROPEAN GARAGE EQUIPMENT
ASSOCIATION

EXTRACTS

EGEA SPECIFICATION

Service Unit for MAC Systems
For use with Motor Vehicles using
Refrigerant R-1234yf

EGEA SPECIFICATION

Service Unit for MAC Systems
For use with Motor Vehicles using
Refrigerant R-1234yf

CONTENTS

1. Introduction	3
2. Scope	3
3. Requirements on the Service Unit	3
4. Approval requirements	3
5. Operating Conditions	4
5.1 Temperatures	4
6. Safety concept and risk assessment	4
7. Technical specifications and basic scope of delivery	5
7.1 Service hoses	5
7.2 Service couplings	5
7.3 Display of process fluids quantities	5
7.4 Refilling	5
7.5 Emptying and filling process	5
7.6 Precision of the evacuation process	5
7.7 Vacuum test	5
7.8 High/low side measurements	5
7.9 Filling precision	5
7.10 Supply of fresh refrigerant oil and UV dye	6
7.11 Evacuation of the service hoses	6
7.12 Refrigerant purity	6
7.13 Filter inserts	7
7.14 Leakage rate	7
7.15 Requirements for non-condensable gases (NCG'S)	7
8. Technical requirements optional scope of delivery (equipment version specific)	8
8.1 Refrigerant quantities database	8
9. Test specification	8
9.1 Filling precision/precision of evacuation	8
9.2 Maximum refrigerant oil discharge during evacuation	10
9.3 Scale accuracy reliability	10
10. General service documentation	11
10.1 Compliance statement	11
10.2 Risk assessment	11
10.3 Test results	11
10.4 Accompanying documentation	11
11. Appendix 1	12

1. INTRODUCTION

This specification has been written with the intention of defining the operation of an AC Service station for use with refrigerant HFO 1234yf. A unit that is designed and conceived using this specification will fulfil all legal requirements and allow manufacturers the design and engineering solution freedom.

2. SCOPE

The scope of this document is to assist in the design and conception of an EGEA specification compliant HFO1234yf AC Service Station. It sets out the specification that such a unit needs to meet in order to supply a safe and reliable unit to operators.

3. REQUIREMENTS ON THE SERVICE UNIT

(...)

For further information, please apply to our dedicated section on our website to get your EGEA quality label for your Mobile Air-Conditioning (MAC) service units.