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OPERATIONAL MANUAL
for the
CERTIFICATION
of
Air Cleaners

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TABLE OF CONTENTS

I. PURPOSE	4
II. SCOPE	4
III. BASIC OUTLINE OF THE PROGRAMME	4
III.1. Application	4
III.2. Qualifying procedure	4
III.3. Repetition procedure.....	4
III.4. Failure treatment.....	5
III.5. Challenge procedure.....	5
IV. OPERATION OF THE PROGRAMME.....	5
IV.1. Declaration of data	5
IV.2. Selection of units to be tested	6
IV.3. Tests at the independent laboratory.....	6
IV.4. Audit procedure	6
a. General.....	6
b. Audit requirements.....	6
c. Audit non-conformity.....	6
IV.5. Failure treatment	6
IV.6. Non-application of procedures	7
V. PROMOTION OF THE PROGRAMME	7
V.1. By Eurovent Certita Certification	7
V.2. By Participants.....	7
a. Display of Eurovent Certified Performance logo on production units	7
b. Display of Eurovent Certified Performance logo on technical documentation.....	7
APPENDIX A. CERTIFICATION PROCESS AND SCHEDULE	9
A.I. Qualification procedure.....	9
A.II. Repetition procedure	10
APPENDIX B. FORMS.....	11
B.I. Form ACL-1 : Declaration file	11
APPENDIX C. CLEAN AIR EFFICIENCY LABEL FOR ACL	13

I. PURPOSE

The purpose of this manual is to prescribe procedures for the operation of the Eurovent Certified Performance (ECP) certification programme for Air Cleaners (ACL), in accordance with the Certification Manual of the Eurovent Certified Performance mark.

II. SCOPE

The programme applies to eligible models of Air Cleaners. To be eligible, each model shall be certified according to the certification rules of the “NF-536 Air Cleaners” certification mark.

The reference document is available on <http://www.certita.fr/en/certita-mark/nf-air-cleaners>.

III. BASIC OUTLINE OF THE PROGRAMME

Participation in this Eurovent Certified Performance programme consists of the following:

III.1. Application

If the Applicant is already participating to the “NF-536 Air Cleaners” certification scheme, application to the ACL programme consists in signing the corresponding License Agreement.

By default, certification under the ACL programme applies automatically to all models certified within the “NF-536 Air Cleaners” scheme. The Applicant may however limit the ACL certification to specific models, using the relevant Declaration file (form ACL-1).

If the models are not certified under the “NF-536 Air Cleaners” mark yet, the Applicant shall complete the Application procedure and Qualifying procedure within the “NF-536 Air Cleaners” certification scheme in addition to signing the License Agreement (see also §IV.1).

III.2. Qualifying procedure

Once the models are certified under the “NF-536 Air Cleaners” mark and that the Applicant has signed the License Agreement, the qualifying procedure for the ACL mark consists in verifying that the Applicant complies with the rules displayed in the Certification Manual of the Eurovent Certified Performance mark (see also §A.I).

Once the test results and audit conclusions prove all the declared models compliance with the requirements specified in NF-536 reference document and that all other requirements from the Eurovent Certified Performance mark Certification Manual are fulfilled, the ACL certification is granted until maximum 15 months after the foreseen audit period. If not, the procedure for failure treatment shall be applied.

When certified, the models are published on the Eurovent Certified Performance (ECP) website as specified in §V.1. Once the certificate is received, the participant is entitled to use the ECP certification mark according to applicable requirements (see §V.2).

III.3. Repetition procedure

Every year, Eurovent Certita Certification checks whether the certified products still fulfil the requirements (see also §A.II).

For the repetition procedure, the certification is renewed on condition that:

- The previous test campaign has been successfully completed within the “NF-536 Air Cleaners” certification scheme;
- The audits scheduled in the frame of the “NF-536 Air Cleaners” certification scheme have been performed by the auditor and are successful or the corrective actions plan is considered satisfactory;
- The independent laboratory has received all the necessary elements (units to be tested and related documentation) to conduct the tests of the ongoing campaign;
- The Participant still complies with the rules displayed in the Certification Manual, notably regarding correct use of the ECP mark.

The company receives then renewed certificate(s) and the display of data is maintained on the Eurovent Certified Performance (ECP) website. If not, failure treatment shall be applied.

The ACL certificate is valid until maximum 15 months after the renewal date. Besides, it is understood that the ACL certificate validity is directly linked to the validity of the corresponding NF-536 certificate. Any admission, suspension or withdrawal that may occur in the frame of NF-536 certification scheme automatically applies to the ACL programme.

III.4. Failure treatment

When the test or the audit results fail to comply with the requirements specified in NF-536 reference document, the corresponding failure treatment shall be applied.

III.5. Challenge procedure

Under special conditions a challenge procedure may be carried out as described in the Certification Manual.

IV. OPERATION OF THE PROGRAMME

IV.1. Declaration of data

All characteristics shall be expressed in SI units.

Details regarding significant figures are given in NF-536 reference document.

Submittal of data shall be made by filling in the forms and provide to Eurovent Certita Certification the documents specified in NF-536 reference document.

In case the Applicant/Participant wishes to limit the ACL certification to specific models, the Declaration file (Form ACL-1 see Appendix B) shall be used to identify these models.

The applicant/participant shall inform Eurovent Certita Certification of any modification of the product portfolio by updating the forms and documents specified in NF-536 reference document. Non-compliance of the applicant/participant is considered as non-application of procedures (see §IV.6).

Confidentiality of certification data: All data submitted to Eurovent Certita Certification will be held confidential except for information authorised to be published in the Eurovent Certified Performance website.

IV.2. Selection of units to be tested

Details regarding the selection of units to be tested per model respectively for the Qualifying procedure and Repetition procedure are given in NF-536 reference document.

IV.3. Tests at the independent laboratory

Tests shall be performed at the independent laboratory selected by Eurovent Certita Certification at the conditions detailed in NF-536 reference document.

For further details see NF-536 reference document.

IV.4. Audit procedure

a. General

General audit requirements are stated in the Certification Manual.

The audit will consist of the verification that the applicable requirements specified in paragraph IV.4.b are fulfilled.

Other details about the audits are displayed in NF-536 reference document.

b. Audit requirements

During the audit, the auditor will:

- check that the ECP mark is displayed on the production units and on the documentation in compliance with the requirements specified in paragraph V.2;
- check that the requirements specified in NF-536 reference document are fulfilled.

For further details see NF-536 reference document.

c. Audit non-conformity

After evaluation, a non-conformity is classified as critical when, on the basis of objective evidence, the following cases are identified:

- there is a significant risk to the product conformity with respect to specified requirements;
- there is a significant risk regarding the quality management system ability to control the product conformity to specified requirements;
- there is systematic or repeated non-conformity to a specified requirement;

Otherwise the non-conformity is classified as not-critical.

In case of non-conformity, the applicant/participant shall be requested to provide Eurovent Certita Certification with a corrective actions plan within the deadline specified by the auditor.

IV.5. Failure treatment

General requirements for failure treatment are stated in the dedicated paragraph of the Certification Manual.

Failure treatment conditions are detailed in relevant paragraphs of the NF-536 reference document.

IV.6. Non-application of procedures

The general consequences of non-application of procedures are described in the relevant paragraph of the Certification Manual.

V. PROMOTION OF THE PROGRAMME

Promotion of the programme shall be done in accordance with relevant sections of the Certification Manual.

V.1. By Eurovent Certita Certification

The certified data of the certified products are published on the Eurovent Certified Performance website: www.eurovent-certification.com .

Eurovent Certita Certification will supply, on request, to any interested party, the current status of any participant or of any model (new, certified, deleted or obsolete).

The following data are published:

- Name of Company
- Trade or brand name
- Certificate number
- Model reference and designation
- Certified characteristics and performance items according to NF-536 reference document
- Clean Air Efficiency class as detailed in RS 4/C/002
- Production sites (city, country)

V.2. By Participants

It is highly recommended that the participating company indicates participation in the ECP programme for Air Cleaners by the following means.

a. Display of Eurovent Certified Performance logo on production units

Each Participant is entitled to display the Eurovent Certified Performance mark on each production unit of models which have been certified. The Participant may affix the certification mark at any location thereon satisfactory to him. The Eurovent Certified Performance mark may be applied as part of nameplate of certified models providing it meets the requirements stated in Certification Manual.

Whenever the participant applies the Eurovent Certified Performance mark on the product or its packaging, it shall be done in compliance with the design, minimum size and proportions presented in the Certification Manual. Also, the Eurovent Certified Performance mark shall include in the dedicated area (see Certification Manual) the name of the relevant programme the product is certified for, i.e. "Air Cleaners" or the corresponding short name "ACL".

b. Display of Eurovent Certified Performance logo on technical documentation

When used in technical documentation as defined in the Certification Manual (electronic and printed catalogues, websites, on-line and off-line selection



software, specification sheets), carrying ratings or claiming certification of certified models, the Eurovent Certified Performance mark shall be used only for certified products. Non-certified products shall be clearly distinguished or presented in a separate document.

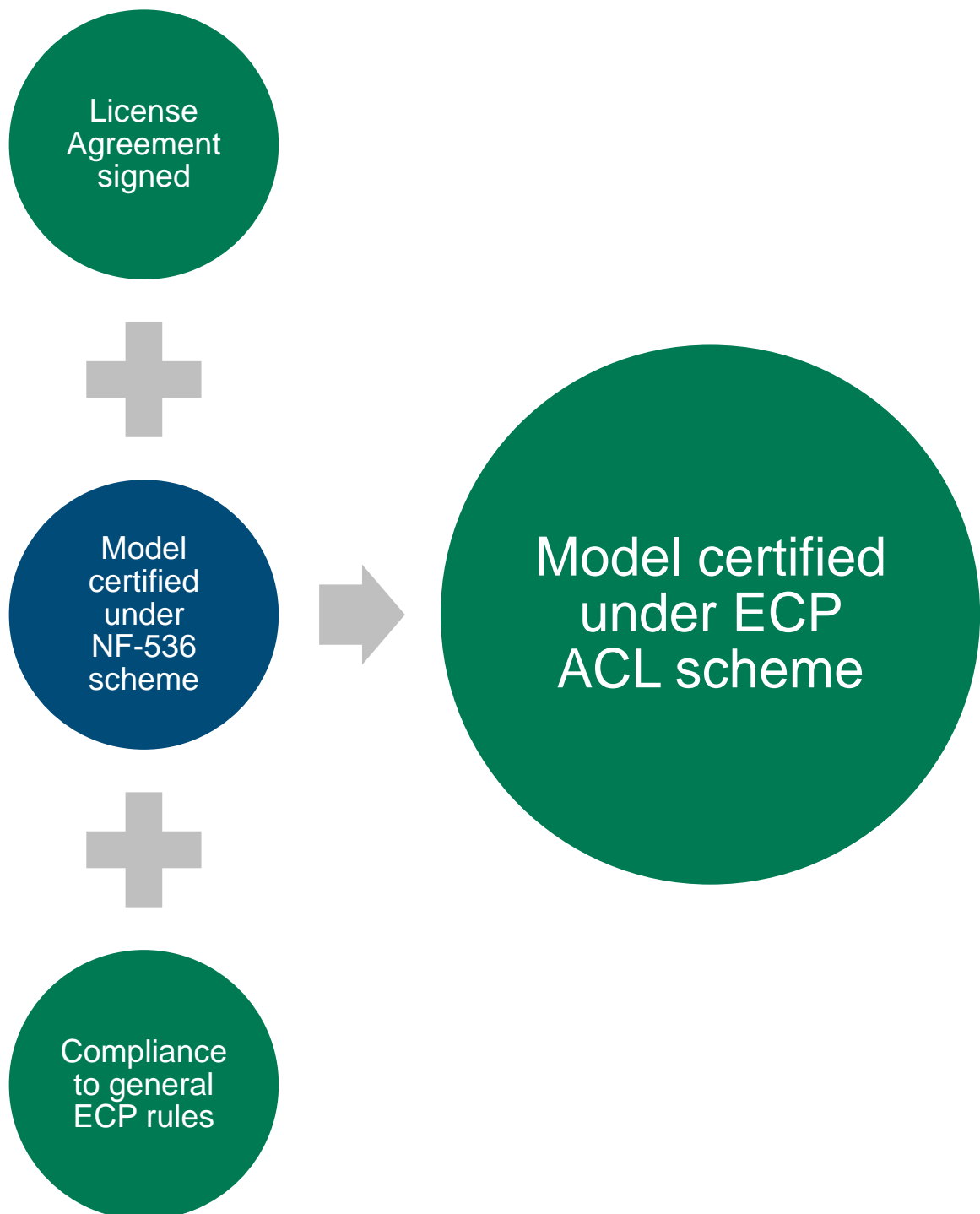
Whenever displayed on technical documentation, the ECP mark shall include in the dedicated area (see Certification Manual) the name of the relevant programme the product is certified for, i.e. "Air Cleaners" or the corresponding short name "ACL".

The ECP mark alone may be used in literature without certified performance data (general leaflets, advertising etc.).

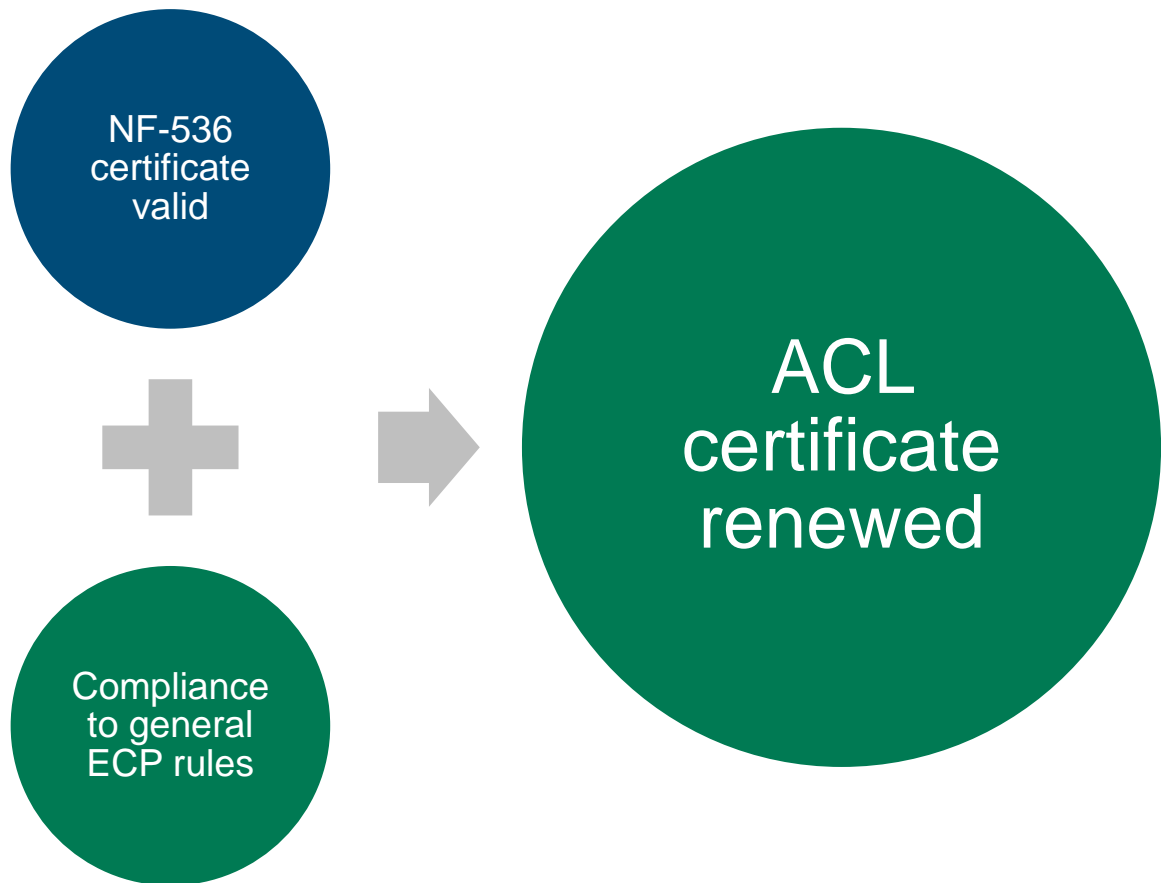
Following the qualification procedure the basic documentation literature shall be submitted for approval to Eurovent Certita Certification. It shall be the responsibility of the participant to ensure compliance of other published literature.

APPENDIX A. CERTIFICATION PROCESS AND SCHEDULE

A.I. Qualification procedure



A.II. Repetition procedure



APPENDIX B. FORMS

B.I. Form ACL-1 : Declaration file

The case the applicant/participant wants to limit the ACL certification to specific models the form ACL-1 (declaration file) to be filled in is available upon request.

The following example is given for information only.

GENERIC	Product Number	
	Master product number	Product number of the master product in OEM list of products (for brand name products only)
	Tested On	
	Rated on	
	Created on	
	Last update on	
	Status	New / Certified / Deleted / Obsolete
	Participant Name	
	Product Name	Model reference
	Trade Name	
	Type of product	
	Range Name	
	BMG	
PERFORMANCES OF THE PRODUCT AT MINIMUM SPEED	Air circulation flow rate at minimum speed	<ul style="list-style-type: none"> Air circulation flow rate at minimum operation speed as defined in NF-536 [m³/h] Applicable when the fan speed variation is made using either a switch or a voltage regulator
	Absorbed electrical power at minimum speed	<ul style="list-style-type: none"> Absorbed electrical power at minimum operation speed as defined in NF-536 [W] Applicable when the fan speed variation is made using either a switch or a voltage regulator
	Sound power level at minimum speed	<ul style="list-style-type: none"> Sound power level at minimum operation speed as defined in NF-536 [dB[A]] Applicable when the fan speed variation is made using either a switch or a voltage regulator
PERFORMANCES OF THE PRODUCT AT INTERMEDIATE SPEED	Air circulation flow rate at intermediate speed	<ul style="list-style-type: none"> Air circulation flow rate at intermediate operation speed as defined in NF-536 [m³/h] Applicable when the fan speed variation is made using either a switch (with more than 2 pre-set positions) or a voltage regulator
	Absorbed electrical power at intermediate speed	<ul style="list-style-type: none"> Absorbed electrical power at intermediate operation speed as defined in NF-536 [W] Applicable when the fan speed variation is made using either a switch (with more than 2 pre-set positions) or a voltage regulator
	Sound power level at intermediate speed	<ul style="list-style-type: none"> Sound power level at intermediate operation speed as defined in NF-536 [dB[A]] Applicable when the fan speed variation is made using either a switch (with more than 2 pre-set positions) or a voltage regulator
PERFORMANCES OF THE PRODUCT AT MAXIMUM SPEED	Air circulation flow rate at maximum speed	<ul style="list-style-type: none"> Air circulation flow rate at maximum operation speed as defined in NF-536 [m³/h] Mandatory
	Absorbed electrical power at maximum speed	<ul style="list-style-type: none"> Absorbed electrical power at maximum operation speed as defined in NF-536 [W] Mandatory
	Sound power level at maximum speed	<ul style="list-style-type: none"> Sound power level at maximum operation speed as defined in NF-536 [dB[A]] Mandatory
	Initial purified air flow rate for inert particles of 0.3µm to 0.5µm size	<ul style="list-style-type: none"> Initial purified air flow rate for inert particles of 0.3µm to 0.5µm size as defined in NF-536 [m³/h] Mandatory if inert particles category is declared as treated by the air cleaner

	Initial purified air flow rate for inert particles of 1.0µm to 2.0µm size	<ul style="list-style-type: none"> Initial purified air flow rate for inert particles of 1.0µm to 2.0µm size as defined in NF-536 [m³/h] Mandatory if inert particles category is declared as treated by the air cleaner
	Initial purified air flow rate for inert particles of 3.0µm to 5.0µm size	<ul style="list-style-type: none"> Initial purified air flow rate for inert particles of 3.0µm to 5.0µm size as defined in NF-536 [m³/h] Mandatory if inert particles category is declared as treated by the air cleaner
	Initial purified air flow rate for acetone	<ul style="list-style-type: none"> Initial purified air flow rate for acetone as defined in NF-536 [m³/h] Mandatory if gases category is declared as treated by the air cleaner
	Initial purified air flow rate for acetaldehyde	<ul style="list-style-type: none"> Initial purified air flow rate for acetaldehyde as defined in NF-536 [m³/h] Mandatory if gases category is declared as treated by the air cleaner
	Initial purified air flow rate for heptane	<ul style="list-style-type: none"> Initial purified air flow rate for heptane as defined in NF-536 [m³/h] Mandatory if gases category is declared as treated by the air cleaner
	Initial purified air flow rate for toluene	<ul style="list-style-type: none"> Initial purified air flow rate for toluene as defined in NF-536 [m³/h] Mandatory if gases category is declared as treated by the air cleaner
	Initial purified air flow rate for formaldehyde	<ul style="list-style-type: none"> Initial purified air flow rate for formaldehyde as defined in NF-536 [m³/h] Mandatory if gases category is declared as treated by the air cleaner
	Initial purified air flow rate for Staphylococcus epidermidis	<ul style="list-style-type: none"> Initial purified air flow rate for Staphylococcus epidermidis as defined in NF-536 [m³/h] Mandatory if micro-organisms is declared as treated by the air cleaner
	Initial purified air flow rate for Aspergillus niger	<ul style="list-style-type: none"> Initial purified air flow rate for Aspergillus niger as defined in NF-536 [m³/h] Mandatory if micro-organisms is declared as treated by the air cleaner
	Initial purified air flow rate for Fel-D1 cat allergen	<ul style="list-style-type: none"> Initial purified air flow rate for Fel-D1 cat allergen as defined in NF-536 [m³/h] Mandatory if allergens category is declared as treated by the air cleaner
EFFICIENCY CLASSIFICATION	Clean Air Efficiency for Particles	<ul style="list-style-type: none"> Minimum of the 3 Clean Air Efficiency values of the pollutant category "particles" as defined in RS 4/C/002 [m³/h/W] Calculated automatically whenever applicable
	Clean Air Efficiency for Gases	<ul style="list-style-type: none"> Minimum of the 3 Clean Air Efficiency values of the pollutant category "Gases" as defined in RS 4/C/002 [m³/h/W] Calculated automatically whenever applicable
	Clean Air Efficiency for Micro-organisms	<ul style="list-style-type: none"> Minimum of the 3 Clean Air Efficiency values of the pollutant category "Micro-organisms" as defined in RS 4/C/002 [m³/h/W] Calculated automatically whenever applicable
	Clean Air Efficiency for Allergens	<ul style="list-style-type: none"> Clean Air Efficiency value of the pollutant category "Allergens" as defined in RS 4/C/002 [m³/h/W] Calculated automatically whenever applicable
	Efficiency Class for Particles	<ul style="list-style-type: none"> Efficiency class of the pollutant category "particles" as defined in RS 4/C/002 (A, B, C, D or E) Calculated automatically whenever applicable
	Efficiency Class for Gases	<ul style="list-style-type: none"> Efficiency class of the pollutant category "Gases" as defined in RS 4/C/002 (A, B, C, D or E) Calculated automatically whenever applicable
	Efficiency Class for Micro-organisms	<ul style="list-style-type: none"> Efficiency class of the pollutant category "Micro-organisms" as defined in RS 4/C/002 (A, B, C, D or E) Calculated automatically whenever applicable
	Efficiency Class for Allergens	<ul style="list-style-type: none"> Efficiency class of the pollutant category "Allergens" as defined in RS 4/C/002 (A, B, C, D or E) Calculated automatically whenever applicable
	Recommended room surface area	Recommended room surface area as defined in RS 4/C/002

APPENDIX C. CLEAN AIR EFFICIENCY LABEL FOR ACL

Whenever displayed on technical documentation, on the product itself or on packaging, the Clean Air Efficiency label dimensions shall be at least 110 mm wide and 160 mm high. Any higher size may be used if proportions are respected.

It is not mandatory to be used, however, whenever it is used, no other lay-out is authorized.

High resolution files of this label, as well as specifications for the layout, are available upon request.

Figure 1 : Example of Clean Air Efficiency label

