**Energy Efficiency Compliant Products - EEPLIANT3 [GA: 832558]**

**WP10 Concerted market surveillance action for product group "Ventilation Units"**

**ANNEX C** **Financial proposal**

**Call for Tenders for Laboratory Test Services**

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| **The offer concerns** | |
| **Product category** | |
| Bidirectional central RVU with heat recovery. | ☐ |
| Bidirectional decentral RVU with heat recovery. | ☐ |
| Alternating (push-pull) bidirectional decentral RVU with heat recovery. | ☐ |
| Unidirectional central RVU. | ☐ |
| Unidirectional decentral RVU | ☐ |
| **Capacity range** | |
| Maximum flow rate ≤ 450 m3/h | ☐ |
| Maximum flow rate 450 m3/h to 1000 m3/h | ☐ |

Unit cost should be quoted in Euros excluding VAT.

Unit cost must include the ‘testing services'. ‘Testing services’ means the following (see also Annex B: Requirements):

* Planning of testing programme;
* Receipt of products and storage;
* Discussions and suggestions on screening tests and stop/go criteria during test.
* Storage after test until disposal or end of contract (see assumptions above regarding this);
* Photos of products;
* Potentially preinspection of the product (only relevant for Annex C, unit cost group 2);
* Testing of each product as specified. Any significant differences in the price of testing due to different possible standards should be explained in the proposal and if necessary costed separately;
* Standard report for each product as agreed but based on that in the harmonised standard (or standards named or methods described in the transitional methods);
* Separate report on circumvention checks, compliance recommendation etc. as described in requirements section above;
* Meeting(s) including physical at the test lab and virtual meetings to discuss the test programme, testing progress, and the test results as per requirements in Annex C;
* Project management etc.
* Final report.

**Unit costs per group of test parameters**

| **Tested Parameter** | **ED or EL Information or Minimum require­ment?**  **(I/M)** | **Reference** | **Unit cost**  **(EUR Excl VAT)** | | |
| --- | --- | --- | --- | --- | --- |
| **Single-product testing  1-4 samples** | **Single-product testing 5 or more samples** | **Triple-product testing of one sample** |
| **Group 1** | | | | | |
| **SPI** – Specific power input [W/(m3/s)] | I | Regulation 1253/2014 Annex I (13) |  |  |  |
| Thermal Effi­ciency (*η*t) of heat recovery | I | Regulation 1253/2014 Annex 1 (6) |
| Electric power input of fan incl. motor con­trol equipment, *P*E,ref, [W] | I | Regulation 1253/2014 Annex 1 (6) |
| Sound Power Level  (*L*WA) | M (non-ducted)  I (all RVUs) | Regulation 1253/2014 Annex 1 (2) |  |  |  |
| Maximum flow rate [m3/h]  Declared value according to flow rate/pressure diagrams.  Verify that it can be reached | I | Regulation 1253/ 2014 Annex I (14) and Annex IV (k) |  |  |  |
| **Group 2 - will only be requested together with Group 1 tests and not as stand-alone tests.** | | | | | |
| **SEC** — Specific Energy Consump­tion for ventilation per m2 heated floor area of a dwelling or building [kWh/(m2.a)]  Calculate for each applicable climate zone. | M | Regulation 1253/ 2014 Annex VIII  and Regulation 1254/ 2014 Annex VIII |  |  |  |
| Type of drive installed: Multi speed drive or VSD?  Verify correctness | I | Regulation 1253/ 2014 Annex I (3)  and Regulation 1254/ 2014 Annex I (3) |
| Thermal bypass (BVU)  Verify correctness | M | Regulation 1253/ 2014 Annex I (35) |
| Visual filter change warning signal  Verify correctness | M | Regulation 1253/ 2014 Annex II (2) |
| Declared typology (RVU/NRVU, UVU/BVU)  Verify correctness | I | Regulation 1253/ 2014 Article 2 and Annex I (22) and (23) |
| Type of heat recovery system (HRS)  Verify correctness | I | Regulation 1253/ 2014 Annex I (5) and (13) |
| Control factor and typology  Verify correctness | I | Regulation 1253/ 2014 Annex I (16) to (21) |
| Instructions for disassembly etc.  Verify correctness | I | Regulation 1253/2014 Annex IV (s) |  |  |  |
| **Group 3 – Verification tests which will only be requested together with Group 1 tests and not as stand-alone tests.** | | | | | |
| External total pressure difference | n.a. | Commission Communication in OJ 2016/C 416/06[[1]](#footnote-2) article 2.2 |  |  |  |
| Reference flow rate [m3/s] and flow rate/pressure  Diagram  Measure and verify correctness | I | Regulation 1253/ 2014 Annex I (14) and (15)  Commission Communica­tion3 article 2.2 and 3 |  |  |  |
| Max. internal leakage rate, | I  (BVU, ducted) | Regulation 1253/ 2014 Annex I (7) |  |  |  |
| Max. external leakage  rates | I  (BVU and ducted UVU, regenerative heat exch., ducted) | Regulation 1253/ 2014 Annex I (9) |
| Mixing rate | I  (non-ducted BVU) | Regulation 1253/ 2014 Annex I (10) |  |  |  |
| The airflow sensitivity to pressure variations at +20 Pa and -20 Pa; | I  (non-ducted) | Regulation 1253/ 2014 Annex I (32) |  |  |  |
| The indoor/outdoor air tightness in m3/h | I  (non-ducted) | Regulation 1253/ 2014 Annex I (33) |  |  |  |

**Other costs**

|  |  |
| --- | --- |
| Cost for disposal of product per unit | Euros: |
| Discount if more than 10 products are tested  Example.  6 nonducted UVUs below 450 m3/h  + 8 ducted BVUs below 450 m3/h  + 5 ducted BVUs above 450 m3/h  = 19 units  The 15 cheapets units will be prices according to prices informend in the financial offer above, and the 4 most expensive with the informed discount rate | Dicsount rate in % for more than 15 units: |

**Hourly rate in case of purchase of additional services**

|  |  |  |
| --- | --- | --- |
| **Name of team member** | **Job title/function of team member** | **Hourly rate (Euros)** |
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|  |  |  |

**Full name Date Signature**

**DISCLAIMER**

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1. *Commission communication in the framework of the implementation of Commission Regulation (EU) No 1253/2014 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for ventilation units and of the implementation of Commission Delegated Regulation (EU) No 1254/2014 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of residential ventilation unit*, https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:52016XC1111(09)&from=EN [↑](#footnote-ref-2)