



**EFFECTIS ERA AVRASYA**

**Fire Test Laboratory**

**Accredited Body  
No: AB-0556-T**



**CLASSIFICATION REPORT OF MULTI COMPARTMENT AUTOMATIC  
SMOKE CONTROL DAMPER  
“DTY-10”**

***EEA-22-007-Rev1***

**DOĞUŞ TEKNİK KLİMA HAVALANDIRMA SAN. VE TİC. LTD. ŞTİ.**

**Oruçreis Mah. Vadi Cad. Giyimkent Sitesi B70 Blok No:76 Esenler, İstanbul / TURKEY**

**This classification report supersedes the report ‘EEA-22-007’ due to the correction of the mistake  
stated in the classification direction.**

**This report consists of 4 pages and may only be used or reproduced in its entirety.**

## 1. INTRODUCTION

This classification report defines the classification assigned to multi compartment automatic smoke control damper – “DTY-10” in accordance with the procedures given in EN 13501-4:2016.

## 2. DETAILS OF ELEMENT

### 2.1. Type of function:

The product, multi compartment automatic smoke control damper – “DTY-10” is defined as a 'component of a smoke control system'. Its function, alongside other components of the system is to control the containment of heat.

### 2.2. Description:

The product multi compartment automatic smoke control damper – “DTY-10” is fully described in the test report in support of this classification listed in Clause 3 of this classification report.

## 3. REPORTS AND RESULTS IN SUPPORT OF CLASSIFICATION

The following test report is presented in support of this classification:

Name of laboratory	Name of sponsor	Unique ref. no.	E (min)	Orientation (ho, ve)	Direction (i-o)	S (min.)	$\Delta p$ (Pa)	Opening capability	Automatic / Manuel
EFFECTİS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.	DOĞUŞ TEKNİK KLİMA HAVALANDIRMA SAN. VE TİC. LTD. ŞTİ.	RFTR22025 and RFTR22014	120	$V_{ew}$	$i \neq o$	120	500	Pass	Automatic

## 4. CLASSIFICATION AND FIELD OF APPLICATION

### 4.1. Reference of classification

This classification has been carried out in accordance with EN 13501-4:2016.

### 4.2. Classification

The product, multi compartment automatic smoke control damper – “DTY-10” has been classified as:

Fire Resistance Classifications
<b>E120 (<math>V_{ew} - i \neq o</math>) S500C<sub>300</sub>AAmulti</b>

### **4.3. Field of application**

The multi compartment automatic smoke control damper – “**DTY-10**” has the following field of application in accordance with EN 1366-10:2011+A1:2017.

#### **4.3.1 General**

This report details the method of construction, the test conditions and the results obtained when the specific elements of construction described herein was tested following the procedure outlined in EN 1363-1:2020, and when appropriate EN 1363-2:1999. Any significant deviation with respect to size, constructional details, load stresses, edge or end conditions other than those allowed under the field of direct application in the relevant test method is not covered by this report.

#### **4.4 Size of smoke control damper**

Dampers of sizes between the smallest size tested for ambient leakage (300 x 200 – w x h) and the largest size subjected to ambient leakage and to the elevated temperature test (800 x 800 – w x h).

It is not allowed to increase size of the tested.

#### **4.5 Pressure difference**

The test results are applicable to smoke control damper with an underpressure or overpressure up to 500 Pa.

#### **4.6 Elevated temperatures**

The smoke control damper is applicable to all temperature tested and below for 120 minutes.

#### **4.7 Cycling test**

The results are only applicable for the smoke control damper that is operated only in case of emergency

#### **4.8 Initiation method**

Smoke control dampers that have been tested for systems with manual intervention are suitable for application in automatic systems, but not vice versa.

#### **4.9 Smoke dampers installed into the compartment**

It is not allowed the damper in the wall clearance to be used in a different direction and position than in the supporting construction for which it is tested.

#### **4.10 Separation between smoke dampers and between smoke dampers and construction elements**

It is not allowed to decrease the separation distance between smoke damper and a construction element (wall/floor) adjacent to the supporting construction less than 75 mm.

#### **4.11 Supporting construction**

It's allowed to be used supporting construction following below.

- Rigid block supporting construction wall with a nominal gross dry density of at least 600 kg/m<sup>3</sup>, having a thickness of at least 200 mm.
- Rigid constructions made of hollow blocks, provided that the holes are filled/closed before the addition of final penetration seal and have a fire resistance of minimum 120 minutes.

#### **4.12 Blade pivot axis**

It is not allowed to change blade pivot axis and actuator position.


## 5. LIMITATIONS

### 5.1. Restrictions

This classification is only valid for tested type as long as related test version is updated.

### 5.2. Warning

This European Standard does not represent any type approval or certification of the product.

Report	Name	Signature	Date
Prepared by	Yusuf ÜSTÜNDAĞ	e-signed 	5.04.2022
Review by	Ali BAYRAKTAR	e-signed	5.04.2022