



## EU Declaration of Performance

*In accordance with the EU Construction Products Regulation 305-2011*

13-305-004-E2

### 1. Product Type

**1a. Equipment Type:** Radiator/Convectector

**1b. Product Range:** Ximax

**1c. Model Numbers:** HWD150445W, HWD180670W, HWD120595A, HWD150445A, HWD180295A, HWD180670A, HWD90060SC, HWD12060SC, HWD15044SC, HWD18029SC, HWD18067SC, HW1800670W, HW600445A, HW600595A, HW1800670A, HW600445SC, HW600595SC, HW900595SC, HW120060SC, HW180067SC, HW900595A, HW900595W, HW1200595A, HW1200595W, HW150445SC, HW150595SC, HW1800295A, HW180295SC, HW180445SC, HW180595SC, HW150045W, HW150045A, HW150060W, HW150060A, HW1800295W, HW180045W, HW180045A, HW180060W, HW180060A, HW60045W, HW60060W, HWD900595A, HWD900595W, HWD120060W, HWD150060A, HWD15060SC, HWD150060W, HWD18045SC, HWD18060SC, HWD180030W, HWD180045W, HWD180045A, HWD180060W, HWD180060A, HWE900370W, HWE900520, HWE180037W, HWE180052W, HWM180060W, HWM180060A, HWM18060SC, HWP180045W, HWP180045A, HWP180045S, HWP180060W, HWP180060A, HWP180060S

**2. Type, batch or serial number:** As per 1c.

**3. Intended Use:** Heat emitters for central heating systems to be supplied with hot water and steam below 120°C from a remote source (boiler or similar)

**4. Manufacturer:** Manufactured by ETS, Gewerbestrasse 9a, A-6973 Höchst

**5. Authorised Representative:** N/A

**6. System of assessment and verification of constancy of performance:**  
System 3

**7. Harmonised Standards applied in order to demonstrate compliance with the above Regulation:**

EN 442-1:1996+A1:2003

7.1 Notified Body: Wärmetechnische Prüfgesellschaft mbH (1698)

7.1.1 Performed: Determination of the product-type on the basis of type testing

7.1.2 System: System 3

7.1.3 Issued: Notified Body Test Report, Certificate of conformity of the factory production control

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8. European Technical Assessment: N/A

9. Declared Performance:

Essential Characteristics	Performance		Harmonised Technical Specification
Reaction to fire	Class A1		EN 442-1, 5.1.7
Release of dangerous substances	Conforms		EN 442-1, Clause 4 and ZA.1
Pressure tightness	Leak Test Pass Burst test to 4,6 bar		EN 442-1, 5.2 EN 442-1, 5.3
Surface temperature	Pass		-
Rated thermal output	HWD150445W HWD150445A HWD15044SC	1162 W	EN 442-1, Clause 6
	HWD180670W HWD180670A HWD18067SC	2090 W	
	HWD120060W HWD120595A HWD12060SC	1180 W	
	HWD180030W HWD180295A HWD18029SC	880 W	
	HWD900595W HWD900595A HWD90060SC	882 W	
	HW1800670W HW1800670A HW180067SC	1247 W	
	HW60045W HW600445A HW600445SC	310 W	
	HW60060W HW600595A HW600595SC	413 W	
	HW900595A HW900595W HW900595SC	591 W	
	HW1200595A HW1200595W HW120060SC	766 W	
	HW1800295A HW180295SC HW1800295W	554 W	
	HW150045W HW150045A	703 W	

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	HW150445SC		
	HW150060W HW150060A HW150595SC	938 W	
	HW180045W HW180045A HW180445SC	831 W	
	HW180060W HW180060A HW180595SC	1108 W	
	HWD150060A HWD15060SC HWD150060W	1475 W	
	HWD180045W HWD180045A HWD18045SC	1330 W	
	HWD180060W HWD180060A HWD18060SC	1770 W	
	HWE900370W	300 W	
	HWE900520W	600 W	
	HWE180037W	600 W	
	HWE180052W	900 W	
	HWM180060W HWM180060A HWM18060SC	765 W	
	HWP180045W HWP180045A HWP180045S	831 W	
	HWP180060W HWP180060A HWP180060S	1108 W	
Thermal output in different operating conditions (characteristic curve)	HWD150445W HWD150445A HWD15044SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 6,6586$ $n = 1.3193$ $\Delta T = 50K$	EN 442-1, Clause 6
	HWD180670W HWD180670A HWD18067SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 12,5234$ $n = 1.3081$ $\Delta T = 50K$	
	HWD120060W HWD120595A HWD12060SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 7,0046$ $n = 1.3105$ $\Delta T = 50K$	

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	HWD180030W HWD180295A HWD180295SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 5,2978$ $n = 1.3081$ $\Delta T = 50K$	
	HWD900595W HWD900595A HWD90060SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 3,6672$ $n = 1.2986$ $\Delta T = 50K$	
	HW1800670W HW1800670A HW180067SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 7,4721$ $n = 1.3081$ $\Delta T = 50K$	
	HW60045W HW600445A HW600445SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 1,9386$ $n = 1.2916$ $\Delta T = 50K$	
	HW60060W HW600595A HW600595SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 2,5848$ $n = 1.2916$ $\Delta T = 50K$	
	HW900595A HW900595W HW900595SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 3,6672$ $n = 1.2986$ $\Delta T = 50K$	
	HW1200595A HW1200595W HW120060SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 4,7032$ $n = 1.3105$ $\Delta T = 50K$	
	HW1800295A HW180295SC HW1800295W	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 3,3352$ $n = 1.3081$ $\Delta T = 50K$	
	HW150045W HW150045A HW150445SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 4,2744$ $n = 1.3193$ $\Delta T = 50K$	

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HW150060W HW150060A HW150595SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 5,6992$ $n = 1.3193$ $\Delta T = 50K$
HW180045W HW180045A HW180445SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 5,0028$ $n = 1.3081$ $\Delta T = 50K$
HW180060W HW180060A HW180595SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 6,6704$ $n = 1.3081$ $\Delta T = 50K$
HWD150060A HWD15060SC HWD150060W	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 8,9620$ $n = 1.3193$ $\Delta T = 50K$
HWD180045W HWD180045A HWD18045SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 8,0069$ $n = 1.3081$ $\Delta T = 50K$
HWD180060W HWD180060A HWD18060SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 10,6558$ $n = 1.3081$ $\Delta T = 50K$
HWE900370W	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 2,2920$ $n = 1.2986$ $\Delta T = 50K$
HWE900520W	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 3,2088$ $n = 1.2986$ $\Delta T = 50K$
HWE180037W	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 4,1690$ $n = 1.3081$ $\Delta T = 50K$

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	HWE180052W	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 5,8366$ $n = 1.3081$ $\Delta T = 50K$	
	HWM180060W HWM180060A HWM18060SC	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 4,169$ $n = 1.3081$ $\Delta T = 50K$	
	HWP180045W HWP180045A HWP180045S	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 5,0028$ $n = 1,3081$ $\Delta T = 50K$	
	HWP180060W HWP180060A HWP180060S	$\Phi_S = K_M \cdot \Delta T^n$ Where $K_M = 6,6704$ $n = 1.3081$ $\Delta T = 50K$	
Durability	PASS		EN 442-1, Clause 4

## 10. Declaration:

The performance of the product identified in points 1 & 2 is in conformity with the declared performance in point 9.

This Declaration of Performance is issued under the sole responsibility of the manufacturer identified in point 4.

### Authorised Signatory on behalf of the manufacturer:



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**Name:** Friedrich Zotter  
**Position:** CEO  
**Company:** ETS Dienstleistungs- und Handels GmbH  
**Issue Date:** 06/05/2013  
**At:** ETS GmbH, Gewerbestrasse 9a, AT-6973 Höchst

### Information on the Content of Hazardous Substances in the Construction Product

As required by EU CPR Regulation 305-2011  
As identified by Articles 31 & 33 of the EU REACH Regulation 1907-2006

**Equipment Type:** Radiator/Convactor  
**Product Range:** Ximax  
**Model Numbers:** HWD150445W, HWD180670W, HWD120595A, HWD150445A, HWD180295A, HWD180670A, HWD90060SC, HWD12060SC, HWD15044SC, HWD18029SC, HWD18067SC, HW1800670W, HW600445A, HW600595A, HW1800670A, HW600445SC, HW600595SC, HW900595SC, HW120060SC, HW180067SC, HW900595A, HW900595W, HW1200595A, HW1200595W, HW150445SC, HW150595SC, HW1800295A, HW180295SC, HW180445SC, HW180595SC, HW150045W, HW150045A, HW150060W, HW150060A, HW1800295W, HW180045W, HW180045A, HW180060W, HW180060A, HW60045W, HW60060W, HWD900595A, HWD900595W, HWD120060W, HWD150060A, HWD15060SC, HWD150060W, HWD18045SC, HWD18060SC, HWD180030W, HWD180045W, HWD180045A, HWD180060W, HWD180060A, HWE900370W, HWE900520, HWE180037W, HWE180052W, HWM180060W, HWM180060A, HWM18060SC, HWP180045W, HWP180045A, HWP180045S, HWP180060W, HWP180060A, HWP180060S

**Manufacturer:** Manufactured by ETS, Gewerbestrasse 9a, A-6973 Höchst

**Safety Data Sheets:** N/A (product is an "Article", not a "Substance" or "Preparation")

#### **Substance of Very High Concern (SVHC):**

The products identified above contain no SVHCs as per the Candidate List at date of issue of this document at a concentration above 0.1% weight by weight (w/w).

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