



DECLARATION OF PERFORMANCE

No. 002-2017-07-12

1. Name and trade code of product:

Wall-mounted convector with finned tubes heat exchanger (in accordance with drg. G.8):

N-C22-23/14,7; N-G23-23/21,0

N-C22-30/14,7; N-G23-30/21,0

N-C22-40/14,7; N-G23-40/21,0

N-C22-60/14,7; N-G23-60/21,0

2. Unique identification code of the product type:

Type, batch or serial number (according to the pos. 1) is on the label placed on the heater casing and on the label inside the heater package.

3. Intendent use or uses of the construction product, in accordance with applicable harmonised technical specification, as foreseen by the manufacturer:

The intended use of the construction product is according to the PN-EN 442-1:2015-02 standard: Central heating installations. Maximum heating water temperature is 110°C (supplied from the external heating source).

4. Name, registered trade name, registered trade mark, office and manufactory address:



VERANO Ryszard Miazga
ul. Vetterów 7A, 20-277 Lublin
Tel. +48 81 44-08-330, Fax.+48 81 44-08-333
www.v-k.pl info@v-k.pl

5. Name and contact address of the authorised representative:

Not applicable

6. System of assessment and verification of constancy of performance of the construction products:

System 3.

7. In accordance with UE standard:

PN-EN 442-1:2015-02

8. Notified laboratory:

Name of the notified laboratory: **HEATEST, s.r.o.**

Representative of the notified laboratory: **2693**

Certificate number: **2693-CPR-0005-2017**

DECLARATION OF PERFORMANCE

No. 002-2017-07-12

9. Summary of product performance:

Essential characteristics	Performance	Harmonized technical specification
Reaction to fire	A1	PN-EN 442-1:2015-02 Radiators and convectors. Test methods and rating
Release of dangerous substances	None	
Pressure tightness	No leakage at 1,3 times maximum allowed operating pressure	
Surface temperature	Up to 95°C	
Resistant to internal pressure	No burst at 1,69 times maximum allowed operating pressure. Maximum allowed operating pressure: 1000 kPa	
Rated thermal output	See enclosure no 1	
Thermal output at different operating conditions (<i>characteristics equations</i>)	See enclosure no 1	
Durability as:		
Resistance to corrosion	No signs of corrosion after 100 hours exposure to humidity	
Resistance to damage by small chocks	Class 0	

10. The performance of the product detailed in points 1 and 2 is in accordance with the performance declared in point 9.

This declaration of performance is issued in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the producer: VERANO Ryszard Miazga.

On behalf of the producer VERANO Ryszard Miazga

Lublin, 2017-07-12

(Place and date of issue)


 (Signature)
 (Name and position)
VERANO RYSZARD MIAZGA
 Właściciel - dyrektor
 Ryszard Miazga

DECLARATION OF PERFORMANCE

No. 002-2017-07-12

Enclosure 1 to the Declaration of Performance No. 002-2017-07-12: Table of thermal outputs

Φ_{50} - rated thermal output [W],

Φ_{30} - rated thermal output with low difference of water and air temperature [W],

Thermal output Φ at different conditions $\Phi = \Phi_{50} \cdot (\Delta T / 50)^n$ [W].

Type	Product code	Length (mm)	Width (mm)	Φ_{50} (W)	Φ_{30} (W)	n
N-C22-23/14,7	N-C22-23/14,7/088 SC (L/P), N-C22-23/14,7/088 SV (L/P) N-C22-23/14,7/088 CC (L/P), N-C22-23/14,7/088 CV (L/P)	880	147	649	327	1,3440
N-C22-23/14,7	N-C22-23/14,7/108 SC (L/P), N-C22-23/14,7/108 SV (L/P) N-C22-23/14,7/108 CC (L/P), N-C22-23/14,7/108 CV (L/P)	1080	147	853	429	1,3440
N-C22-23/14,7	N-C22-23/14,7/133 SC (L/P), N-C22-23/14,7/133 SV (L/P) N-C22-23/14,7/133 CC (L/P), N-C22-23/14,7/133 CV (L/P)	1330	147	1108	558	1,3440
N-C22-23/14,7	N-C22-23/14,7/158 SC (L/P), N-C22-23/14,7/158 SV (L/P) N-C22-23/14,7/158 CC (L/P), N-C22-23/14,7/158 CV (L/P)	1580	147	1364	686	1,3440
N-C22-23/14,7	N-C22-23/14,7/183 SC (L/P), N-C22-23/14,7/183 SV (L/P) N-C22-23/14,7/183 CC (L/P), N-C22-23/14,7/183 CV (L/P)	1830	147	1619	815	1,3440
N-C22-23/14,7	N-C22-23/14,7/208 SC (L/P), N-C22-23/14,7/208 SV (L/P) N-C22-23/14,7/208 CC (L/P), N-C22-23/14,7/208 CV (L/P)	2080	147	1874	943	1,3440
N-C22-23/14,7	N-C22-23/14,7/233 SC (L/P), N-C22-23/14,7/233 SV (L/P) N-C22-23/14,7/233 CC (L/P), N-C22-23/14,7/233 CV (L/P)	2330	147	2130	1072	1,3440
N-C22-23/14,7	N-C22-23/14,7/258 SC (L/P), N-C22-23/14,7/258 SV (L/P) N-C22-23/14,7/258 CC (L/P), N-C22-23/14,7/258 CV (L/P)	2580	147	2385	1200	1,3440
N-G23-23/21,0	N-G23-23/21,0/088 SC (L/P), N-G23-23/21,0/088 SV (L/P) N-G23-23/21,0/088 CC (L/P), N-G23-23/21,0/088 CV (L/P)	880	210	980	493	1,3453
N-G23-23/21,0	N-G23-23/21,0/108 SC (L/P), N-G23-23/21,0/108 SV (L/P) N-G23-23/21,0/108 CC (L/P), N-G23-23/21,0/108 CV (L/P)	1080	210	1289	648	1,3453
N-G23-23/21,0	N-G23-23/21,0/133 SC (L/P), N-G23-23/21,0/133 SV (L/P) N-G23-23/21,0/133 CC (L/P), N-G23-23/21,0/133 CV (L/P)	1330	210	1675	842	1,3453
N-G23-23/21,0	N-G23-23/21,0/158 SC (L/P), N-G23-23/21,0/158 SV (L/P) N-G23-23/21,0/158 CC (L/P), N-G23-23/21,0/158 CV (L/P)	1580	210	2061	1037	1,3453
N-G23-23/21,0	N-G23-23/21,0/183 SC (L/P), N-G23-23/21,0/183 SV (L/P) N-G23-23/21,0/183 CC (L/P), N-G23-23/21,0/183 CV (L/P)	1830	210	2447	1231	1,3453
N-G23-23/21,0	N-G23-23/21,0/208 SC (L/P), N-G23-23/21,0/208 SV (L/P) N-G23-23/21,0/208 CC (L/P), N-G23-23/21,0/208 CV (L/P)	2080	210	2833	1425	1,3453
N-G23-23/21,0	N-G23-23/21,0/233 SC (L/P), N-G23-23/21,0/233 SV (L/P) N-G23-23/21,0/233 CC (L/P), N-G23-23/21,0/233 CV (L/P)	2330	210	3218	1619	1,3453
N-G23-23/21,0	N-G23-23/21,0/258 SC (L/P), N-G23-23/21,0/258 SV (L/P) N-G23-23/21,0/258 CC (L/P), N-G23-23/21,0/258 CV (L/P)	2580	210	3604	1813	1,3453

DECLARATION OF PERFORMANCE

No. 002-2017-07-12

Enclosure 1 to the Declaration of Performance No. 002-2017-07-12 continued

Type	Product code	Length (mm)	Width (mm)	Φ_{50} (W)	Φ_{30} (W)	n
N-C22-30/14,7	N-C22-30/14,7/088 SC (L/P), N-C22-30/14,7/088 SV (L/P) N-C22-30/14,7/088 CC (L/P), N-C22-30/14,7/088 CV (L/P)	880	147	726	369	1,3263
N-C22-30/14,7	N-C22-30/14,7/108 SC (L/P), N-C22-30/14,7/108 SV (L/P) N-C22-30/14,7/108 CC (L/P), N-C22-30/14,7/108 CV (L/P)	1080	147	954	485	1,3263
N-C22-30/14,7	N-C22-30/14,7/133 SC (L/P), N-C22-30/14,7/133 SV (L/P) N-C22-30/14,7/133 CC (L/P), N-C22-30/14,7/133 CV (L/P)	1330	147	1240	630	1,3263
N-C22-30/14,7	N-C22-30/14,7/158 SC (L/P), N-C22-30/14,7/158 SV (L/P) N-C22-30/14,7/158 CC (L/P), N-C22-30/14,7/158 CV (L/P)	1580	147	1525	775	1,3263
N-C22-30/14,7	N-C22-30/14,7/183 SC (L/P), N-C22-30/14,7/183 SV (L/P) N-C22-30/14,7/183 CC (L/P), N-C22-30/14,7/183 CV (L/P)	1830	147	1811	920	1,3263
N-C22-30/14,7	N-C22-30/14,7/208 SC (L/P), N-C22-30/14,7/208 SV (L/P) N-C22-30/14,7/208 CC (L/P), N-C22-30/14,7/208 CV (L/P)	2080	147	2097	1065	1,3263
N-C22-30/14,7	N-C22-30/14,7/233 SC (L/P), N-C22-30/14,7/233 SV (L/P) N-C22-30/14,7/233 CC (L/P), N-C22-30/14,7/233 CV (L/P)	2330	147	2382	1210	1,3263
N-C22-30/14,7	N-C22-30/14,7/258 SC (L/P), N-C22-30/14,7/258 SV (L/P) N-C22-30/14,7/258 CC (L/P), N-C22-30/14,7/258 CV (L/P)	2580	147	2668	1355	1,3263
N-G23-30/21,0	N-G23-30/21,0/088 SC (L/P), N-G23-30/21,0/088 SV (L/P) N-G23-30/21,0/088 CC (L/P), N-G23-30/21,0/088 CV (L/P)	880	210	1098	558	1,3259
N-G23-30/21,0	N-G23-30/21,0/108 SC (L/P), N-G23-30/21,0/108 SV (L/P) N-G23-30/21,0/108 CC (L/P), N-G23-30/21,0/108 CV (L/P)	1080	210	1444	734	1,3259
N-G23-30/21,0	N-G23-30/21,0/133 SC (L/P), N-G23-30/21,0/133 SV (L/P) N-G23-30/21,0/133 CC (L/P), N-G23-30/21,0/133 CV (L/P)	1330	210	1877	953	1,3259
N-G23-30/21,0	N-G23-30/21,0/158 SC (L/P), N-G23-30/21,0/158 SV (L/P) N-G23-30/21,0/158 CC (L/P), N-G23-30/21,0/158 CV (L/P)	1580	210	2309	1173	1,3259
N-G23-30/21,0	N-G23-30/21,0/183 SC (L/P), N-G23-30/21,0/183 SV (L/P) N-G23-30/21,0/183 CC (L/P), N-G23-30/21,0/183 CV (L/P)	1830	210	2741	1393	1,3259
N-G23-30/21,0	N-G23-30/21,0/208 SC (L/P), N-G23-30/21,0/208 SV (L/P) N-G23-30/21,0/208 CC (L/P), N-G23-30/21,0/208 CV (L/P)	2080	210	3174	1612	1,3259
N-G23-30/21,0	N-G23-30/21,0/233 SC (L/P), N-G23-30/21,0/233 SV (L/P) N-G23-30/21,0/233 CC (L/P), N-G23-30/21,0/233 CV (L/P)	2330	210	3606	1832	1,3259
N-G23-30/21,0	N-G23-30/21,0/258 SC (L/P), N-G23-30/21,0/258 SV (L/P) N-G23-30/21,0/258 CC (L/P), N-G23-30/21,0/258 CV (L/P)	2580	210	4038	2051	1,3259

DECLARATION OF PERFORMANCE

No. 002-2017-07-12

Enclosure 1 to the Declaration of Performance No. 002-2017-07-12 continued

Type	Product code	Length (mm)	Width (mm)	Φ_{50} (W)	Φ_{30} (W)	n
N-C22-40/14,7	N-C22-40/14,7/088 SC (L/P), N-C22-40/14,7/088 SV (L/P) N-C22-40/14,7/088 CC (L/P), N-C22-40/14,7/088 CV (L/P)	880	147	835	430	1,3011
N-C22-40/14,7	N-C22-40/14,7/108 SC (L/P), N-C22-40/14,7/108 SV (L/P) N-C22-40/14,7/108 CC (L/P), N-C22-40/14,7/108 CV (L/P)	1080	147	1098	565	1,3011
N-C22-40/14,7	N-C22-40/14,7/133 SC (L/P), N-C22-40/14,7/133 SV (L/P) N-C22-40/14,7/133 CC (L/P), N-C22-40/14,7/133 CV (L/P)	1330	147	1427	734	1,3011
N-C22-40/14,7	N-C22-40/14,7/158 SC (L/P), N-C22-40/14,7/158 SV (L/P) N-C22-40/14,7/158 CC (L/P), N-C22-40/14,7/158 CV (L/P)	1580	147	1756	904	1,3011
N-C22-40/14,7	N-C22-40/14,7/183 SC (L/P), N-C22-40/14,7/183 SV (L/P) N-C22-40/14,7/183 CC (L/P), N-C22-40/14,7/183 CV (L/P)	1830	147	2085	1073	1,3011
N-C22-40/14,7	N-C22-40/14,7/208 SC (L/P), N-C22-40/14,7/208 SV (L/P) N-C22-40/14,7/208 CC (L/P), N-C22-40/14,7/208 CV (L/P)	2080	147	2414	1242	1,3011
N-C22-40/14,7	N-C22-40/14,7/233 SC (L/P), N-C22-40/14,7/233 SV (L/P) N-C22-40/14,7/233 CC (L/P), N-C22-40/14,7/233 CV (L/P)	2330	147	2743	1411	1,3011
N-C22-40/14,7	N-C22-40/14,7/258 SC (L/P), N-C22-40/14,7/258 SV (L/P) N-C22-40/14,7/258 CC (L/P), N-C22-40/14,7/258 CV (L/P)	2580	147	3072	1580	1,3011
N-G23-40/21,0	N-G23-40/21,0/088 SC (L/P), N-G23-40/21,0/088 SV (L/P) N-G23-40/21,0/088 CC (L/P), N-G23-40/21,0/088 CV (L/P)	880	210	1267	653	1,2981
N-G23-40/21,0	N-G23-40/21,0/108 SC (L/P), N-G23-40/21,0/108 SV (L/P) N-G23-40/21,0/108 CC (L/P), N-G23-40/21,0/108 CV (L/P)	1080	210	1666	858	1,2981
N-G23-40/21,0	N-G23-40/21,0/133 SC (L/P), N-G23-40/21,0/133 SV (L/P) N-G23-40/21,0/133 CC (L/P), N-G23-40/21,0/133 CV (L/P)	1330	210	2165	1115	1,2981
N-G23-40/21,0	N-G23-40/21,0/158 SC (L/P), N-G23-40/21,0/158 SV (L/P) N-G23-40/21,0/158 CC (L/P), N-G23-40/21,0/158 CV (L/P)	1580	210	2663	1372	1,2981
N-G23-40/21,0	N-G23-40/21,0/183 SC (L/P), N-G23-40/21,0/183 SV (L/P) N-G23-40/21,0/183 CC (L/P), N-G23-40/21,0/183 CV (L/P)	1830	210	3162	1629	1,2981
N-G23-40/21,0	N-G23-40/21,0/208 SC (L/P), N-G23-40/21,0/208 SV (L/P) N-G23-40/21,0/208 CC (L/P), N-G23-40/21,0/208 CV (L/P)	2080	210	3661	1886	1,2981
N-G23-40/21,0	N-G23-40/21,0/233 SC (L/P), N-G23-40/21,0/233 SV (L/P) N-G23-40/21,0/233 CC (L/P), N-G23-40/21,0/233 CV (L/P)	2330	210	4160	2143	1,2981
N-G23-40/21,0	N-G23-40/21,0/258 SC (L/P), N-G23-40/21,0/258 SV (L/P) N-G23-40/21,0/258 CC (L/P), N-G23-40/21,0/258 CV (L/P)	2580	210	4658	2400	1,2981

DECLARATION OF PERFORMANCE

No. 002-2017-07-12

Enclosure 1 to the Declaration of Performance No. 002-2017-07-12 continued

Type	Product code	Length (mm)	Width (mm)	Φ_{50} (W)	Φ_{30} (W)	n
N-C22-60/14,7	N-C22-60/14,7/088 SC (L/P), N-C22-60/14,7/088 SV (L/P) N-C22-60/14,7/088 CC (L/P), N-C22-60/14,7/088 CV (L/P)	880	147	933	487	1,2705
N-C22-60/14,7	N-C22-60/14,7/108 SC (L/P), N-C22-60/14,7/108 SV (L/P) N-C22-60/14,7/108 CC (L/P), N-C22-60/14,7/108 CV (L/P)	1080	147	1226	641	1,2705
N-C22-60/14,7	N-C22-60/14,7/133 SC (L/P), N-C22-60/14,7/133 SV (L/P) N-C22-60/14,7/133 CC (L/P), N-C22-60/14,7/133 CV (L/P)	1330	147	1594	833	1,2705
N-C22-60/14,7	N-C22-60/14,7/158 SC (L/P), N-C22-60/14,7/158 SV (L/P) N-C22-60/14,7/158 CC (L/P), N-C22-60/14,7/158 CV (L/P)	1580	147	1961	1025	1,2705
N-C22-60/14,7	N-C22-60/14,7/183 SC (L/P), N-C22-60/14,7/183 SV (L/P) N-C22-60/14,7/183 CC (L/P), N-C22-60/14,7/183 CV (L/P)	1830	147	2328	1216	1,2705
N-C22-60/14,7	N-C22-60/14,7/208 SC (L/P), N-C22-60/14,7/208 SV (L/P) N-C22-60/14,7/208 CC (L/P), N-C22-60/14,7/208 CV (L/P)	2080	147	2695	1408	1,2705
N-C22-60/14,7	N-C22-60/14,7/233 SC (L/P), N-C22-60/14,7/233 SV (L/P) N-C22-60/14,7/233 CC (L/P), N-C22-60/14,7/233 CV (L/P)	2330	147	3062	1600	1,2705
N-C22-60/14,7	N-C22-60/14,7/258 SC (L/P), N-C22-60/14,7/258 SV (L/P) N-C22-60/14,7/258 CC (L/P), N-C22-60/14,7/258 CV (L/P)	2580	147	3429	1792	1,2705
N-G23-60/21,0	N-G23-60/21,0/088 SC (L/P), N-G23-60/21,0/088 SV (L/P) N-G23-60/21,0/088 CC (L/P), N-G23-60/21,0/088 CV (L/P)	880	210	1372	717	1,2700
N-G23-60/21,0	N-G23-60/21,0/108 SC (L/P), N-G23-60/21,0/108 SV (L/P) N-G23-60/21,0/108 CC (L/P), N-G23-60/21,0/108 CV (L/P)	1080	210	1804	943	1,2700
N-G23-60/21,0	N-G23-60/21,0/133 SC (L/P), N-G23-60/21,0/133 SV (L/P) N-G23-60/21,0/133 CC (L/P), N-G23-60/21,0/133 CV (L/P)	1330	210	2344	1225	1,2700
N-G23-60/21,0	N-G23-60/21,0/158 SC (L/P), N-G23-60/21,0/158 SV (L/P) N-G23-60/21,0/158 CC (L/P), N-G23-60/21,0/158 CV (L/P)	1580	210	2884	1508	1,2700
N-G23-60/21,0	N-G23-60/21,0/183 SC (L/P), N-G23-60/21,0/183 SV (L/P) N-G23-60/21,0/183 CC (L/P), N-G23-60/21,0/183 CV (L/P)	1830	210	3424	1790	1,2700
N-G23-60/21,0	N-G23-60/21,0/208 SC (L/P), N-G23-60/21,0/208 SV (L/P) N-G23-60/21,0/208 CC (L/P), N-G23-60/21,0/208 CV (L/P)	2080	210	3964	2072	1,2700
N-G23-60/21,0	N-G23-60/21,0/233 SC (L/P), N-G23-60/21,0/233 SV (L/P) N-G23-60/21,0/233 CC (L/P), N-G23-60/21,0/233 CV (L/P)	2330	210	4504	2354	1,2700
N-G23-60/21,0	N-G23-60/21,0/258 SC (L/P), N-G23-60/21,0/258 SV (L/P) N-G23-60/21,0/258 CC (L/P), N-G23-60/21,0/258 CV (L/P)	2580	210	5045	2637	1,2700