



Declaration of Performance

No. 202009-1113

Neptune II 920mm

Unique product code:	CI/NE2/920
Type, batch or serial number:	CI/NE2/920
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Limited 1 Kenwood Road Stockport SK5 6PH United Kingdom
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	INSTYTUT ENERGETYKI Oddział Techniki Grzewczej i Sanitarnej w Radomiu 26-610 Radom, ul. Wilcza 8 Poland
Test report number:	1452

Declared performance

Essential characteristics	Performance	Harmonized technical specification
Reaction to fire	A1	EN 442-1:2014
Release of dangerous substances	None	
Pressure tightness	No leakage at 1.3 × maximum operating pressure [kPa]	
Surface temperature	Maximum 120 °C	
Resistance to pressure	No breakage at 1.69 × maximum operating pressure [kPa]	
Resistance to pressure	Maximum operating pressure: 1000 [kPa]	
Rated thermal outputs	See appendix 1	
Thermal output in different operating conditions (characteristic curve)	$\phi = K_m \cdot \Delta T^n$. See appendix for factor K_m and exponent n	
Resistance against corrosion:	No corrosion after 100h humidity	
Resistance against minor impact:	Class 0	

Appendix: Dimensions and thermal outputs

Panel dimensions: 860mm h, 180mm d for all numbers of sections. See table for length.

SKU	Number of sections	Length, mm	Output, W $\Delta T50$	Output, W $\Delta T30$	Factor, Km	Exponent, n
CI/NE2/920/03	3	272	483	255	3.700	1.2453
CI/NE2/920/04	4	352	644	340	4.934	1.2453
CI/NE2/920/05	5	433	805	425	6.167	1.2453
CI/NE2/920/06	6	513	966	510	7.400	1.2453
CI/NE2/920/07	7	594	1127	595	8.634	1.2453
CI/NE2/920/08	8	674	1288	680	9.867	1.2453
CI/NE2/920/09	9	755	1449	765	11.101	1.2453
CI/NE2/920/10	10	835	1610	850	12.334	1.2453
CI/NE2/920/11	11	916	1771	935	13.567	1.2453
CI/NE2/920/12	12	996	1932	1020	14.801	1.2453
CI/NE2/920/13	13	1077	2093	1105	16.034	1.2453
CI/NE2/920/14	14	1157	2254	1190	17.268	1.2453
CI/NE2/920/15	15	1238	2415	1275	18.501	1.2453
CI/NE2/920/16	16	1318	2576	1360	19.734	1.2453
CI/NE2/920/17	17	1399	2737	1445	20.968	1.2453
CI/NE2/920/18	18	1479	2898	1530	22.201	1.2453
CI/NE2/920/19	19	1560	3059	1615	23.435	1.2453
CI/NE2/920/20	20	1640	3220	1700	24.668	1.2453
CI/NE2/920/21	21	1721	3381	1785	25.901	1.2453
CI/NE2/920/22	22	1801	3542	1870	27.135	1.2453
CI/NE2/920/23	23	1882	3703	1955	28.368	1.2453
CI/NE2/920/24	24	1962	3864	2040	29.602	1.2453
CI/NE2/920/25	25	2043	4025	2125	30.835	1.2453
CI/NE2/920/26	26	2123	4186	2210	32.068	1.2453
CI/NE2/920/27	27	2204	4347	2295	33.302	1.2453
CI/NE2/920/28	28	2284	4508	2380	34.535	1.2453
CI/NE2/920/29	29	2365	4669	2465	35.769	1.2453
CI/NE2/920/30	30	2445	4830	2550	37.002	1.2453
CI/NE2/920/31	31	2526	4991	2635	38.235	1.2453
CI/NE2/920/32	32	2606	5152	2720	39.469	1.2453
CI/NE2/920/33	33	2687	5313	2805	40.702	1.2453
CI/NE2/920/34	34	2767	5474	2890	41.936	1.2453
CI/NE2/920/35	35	2848	5635	2975	43.169	1.2453
CI/NE2/920/36	36	2928	5796	3060	44.402	1.2453
CI/NE2/920/37	37	3009	5957	3145	45.636	1.2453
CI/NE2/920/38	38	3089	6118	3230	46.869	1.2453
CI/NE2/920/39	39	3170	6279	3315	48.103	1.2453
CI/NE2/920/40	40	3250	6440	3400	49.336	1.2453

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