

Declaration of Performance

DOP No. RD-1.9920/1

1. *Unique identification code of the product type:*

Leoni Curved 2 Column

2. *Serial Number:*

“LEONC2CXX”

3. *Intended Use/Uses:*

In heating systems in buildings

4. *Manufacture:*

**IRSAP UK
Units 13-14 Charlwoods Road
East Grinstead
West Sussex
RH19 2HU
www.irsap.co.uk**

5. *System/Systems of AVCP:*

System 3

6. *Notified Body/Bodies:*

**POLITECNICO DI MILANO
Dipartimento di ENERGIA
Laboratorio M.R.T. (Misure Ricerche Termotecniche)
Via Raffaele Lambruschini, 4
20156 - MILANO – ITALY**

Radiator Direct is a brand of IRSAP

Units 13 – 14 Charlwoods Road | East Grinstead | West Sussex | RH19 2HU
Tel: 01342 305555 | email: info@radiatorsdirect.co.uk | Web: www.radiatorsdirect.co.uk



IRSAP

RADMAC

7. Declared Performance:

Essential Characteristics	Properties	Harmonised technical specification
Reaction to fire	A1	EN-442-1:2014
Release of dangerous substances	No Release	
Maximum working pressure	12 Bar	
Pressure tightness	No Leakage at 15.6 Bar	
Surface temperature maximum	95°C	
Resistance to pressure	No Breakage at 20.28 Bar	
Rated thermal outputs	See Table 1	
Thermal output in different operating conditions	$\Phi = K_M \times \Delta T^n$ K _M & n see table 1	

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Table 1:

Height (mm)	Width (mm)	Code	Output $\Delta T=50^{\circ}\text{C}$ (watts)	Output $\Delta T=30^{\circ}\text{C}$ (Watts)	Coefficient K_M	Exponent n
400	45	LEONC2C40	30	15	0.22944	1.24656
500	45	LEONC2C50	36	19	0.27083	1.25453
600	45	LEONC2C60	43	22	0.30909	1.26250

The performance of the product identified in point 1 is in conformity with the declared performances in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Andrew Phillips



**Managing Director
July 2023**

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Declaration of Performance

DOP No. RD-1.10920/1

1. *Unique identification code of the product type:*

Leoni Curved 3 Column

2. *Serial Number:*

“LEONC3CXX”

3. *Intended Use/Uses:*

In heating systems in buildings

4. *Manufacture:*

**IRSAP UK
Units 13-14 Charlwoods Road
East Grinstead
West Sussex
RH19 2HU
www.irsap.co.uk**

5. *System/Systems of AVCP:*

System 3

6. *Notified Body/Bodies:*

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7. Declared Performance:

Essential Characteristics	Properties	Harmonised technical specification
Reaction to fire	A1	EN-442-1:2014
Release of dangerous substances	No Release	
Maximum working pressure	12 Bar	
Pressure tightness	No Leakage at 15.6 Bar	
Surface temperature maximum	95°C	
Resistance to pressure	No Breakage at 20.28 Bar	
Rated thermal outputs	See Table 1	
Thermal output in different operating conditions	$\Phi = K_M \times \Delta T^n$ K _M & n see table 1	

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Table 1:

Height (mm)	Width (mm)	Code	Output $\Delta T=50^{\circ}\text{C}$ (watts)	Output $\Delta T=30^{\circ}\text{C}$ (Watts)	Coefficient K_M	Exponent n
400	45	LEONC3C40	42	22	0.30512	1.25905
500	45	LEONC3C50	51	26	0.35727	1.27000
600	45	LEONC3C60	60	31	0.40367	1.28095

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Declaration of Performance

DOP No. RD-1.11920/1

1. *Unique identification code of the product type:*

Leoni Curved 4 Column

2. *Serial Number:*

“LEONC4CXX”

3. *Intended Use/Uses:*

In heating systems in buildings

4. *Manufacture:*

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5. *System/Systems of AVCP:*

System 3

6. *Notified Body/Bodies:*

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7. Declared Performance:

Essential Characteristics	Properties	Harmonised technical specification
Reaction to fire	A1	EN-442-1:2014
Release of dangerous substances	No Release	
Maximum working pressure	8 Bar	
Pressure tightness	No Leakage at 10.4 Bar	
Surface temperature maximum	95°C	
Resistance to pressure	No Breakage at 13.5 Bar	
Rated thermal outputs	See Table 1	
Thermal output in different operating conditions	$\Phi = K_M \times \Delta T^n$ K _M & n see table 1	

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Table 1:

Height (mm)	Width (mm)	Code	Output $\Delta T=50^{\circ}\text{C}$ (watts)	Output $\Delta T=30^{\circ}\text{C}$ (Watts)	Coefficient K_M	Exponent n
400	45	LEONC4C40	54	28	0.37660	1.27223
500	45	LEONC4C50	66	34	0.43650	1.28633
600	45	LEONC4C60	79	40	0.48765	1.30044

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