quality certificates





All radiators produced by Global are certified in accordance with the legislation specified by the various countries in which they are sold.







GLOBAL radiators have a ten year guarantee starting from the date of manufacturing.

This guarantee covers the replacement of those elements that because of manufacturing or material defects are not usable, but only on condition that installation has been executed in compliance with suitable regulations and instructions.



CERTIFICATO n. CERTIFICATE No.

0162/6

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITA' DI WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATED BY

## GLOBAL di Fardelli Ottorino & C. S.r.l.

UNITA' OPERATIVE **OPERATIVE UNITS** 

Via Rondinera, 51 - 24060 Rogno (BG) Italia

> E' CONFORME ALLA NORMA IS IN COMPLIANCE WITH THE STANDARD

UNI EN ISO 9001:2008

PER LE SEGUENTI ATTIVITA' FOR THE FOLLOWING ACTIVITIES

EA: 17

Progettazione e produzione di radiatori componibili in alluminio per impianti di riscaldamento.

> Design and production of aluminium sectional radiators for central heating.

Riferirsi al Manuale della Qualità per l'applicabilità dei requisiti della norma di riferimento. Refer to Quality Manual for details of application to reference standard requirements.

Il presente certificato è soggetto al rispetto del regolamento per la certificazione dei sistemi di gestione per la qualità delle aziende.

The use and the validity of this certificate shall satisfy the requirements of the rules for the certification of company quality management systems.

Data emissione First issue 15/04/1994 Emissione corrente Current issue 10/04/2012

Data di scadenza Expiring date 09/04/2015

ICIM S.p.A.

Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI)



CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale.

CISQ is a member of

www.iqnet-certification.com

IQNet, the association of the world's first class certification bodies, is the largest provider of management System Certification in the world. IQNet is composed of more than 30 bodies and counts over 150 subsidiaries

all over the globe.

CISQ is the Italian Federation of management system Certification Bodies.







THE INTERNATIONAL CERTIFICATION NETWORK

# CERTIFICATE

CISQ/ICIM

hereby certify that the organization

GLOBAL di Fardelli Ottorino & C. S.r.l. Via Rondinera, 51 - I-24060 Rogno (BG)

for the following field of activities

Design and production of aluminium sectional radiators for central heating.

has implemented and maintains a

Quality Management System

which fulfills the requirements of the following standard

ISO 9001:2008

2012-04-10 Issued on: Validity date: 2015-04-09

Registration Number: IT-3661

Michael Drechsel

Topecularel

President of IQNET

President of CISO

IQNet Partners\*:

AENOR Spain AFNOR Certification France AIB-Vincotte International Belgium ANCE Mexico APCER Portugal CCC Cyprus CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany DS Denmark ELOT Greece FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia IMNC Mexico INNORPI Tunisia Inspecta Certification Finland IRAM Argentina JQA Japan KFQ Korea MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland Quality Austria RR Russia SII Israel SIQ Slovenia SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia

IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.





0023A/3

provider of management System
Certification in the world.
IQNet is composed of more than 30
bodies and counts over 150 subsidiaries
all over the globe.

CISQ is a member of

www.ignet-certification.com

IQNet, the association of the world's first class certification bodies, is the largest

SI CERTIFICA CHE IL SISTEMA DI GESTIONE AMBIENTALE DI WE HEREBY CERTIFY THAT THE ENVIRONEMTAL MANAGEMENT SYSTEM OPERATED BY

### GLOBAL di Fardelli Ottorino & C. S.r.l.

UNITA' OPERATIVE OPERATIVE UNITS

Via Rondinera, 51 - 24060 Rogno (BG) Italia

E' CONFORME ALLA NORMA
IS IN COMPLIANCE WITH THE STANDARD

UNI EN ISO 14001:2004

PER LE SEGUENTI ATTIVITA' FOR THE FOLLOWING ACTIVITIES

EA: 17

Progettazione, pressofusione, lavorazioni meccaniche, verniciatura e imballaggio di radiatori componibili in alluminio per impianti di riscaldamento.

Design, die-casting, mechanical working, painting and packing of aluminium radiators for central heating.

Certificazione rilasciata in conformità al Regolamento Tecnico SINCERT RT-09

Il presente certificato è soggetto al rispetto del regolamento per la certificazione dei sistemi di gestione ambientale delle aziende.

The use and the validity of this certificate shall satisfy the requirements of the rules for the certification of company environmental management systems.

Data emissione First issue 08/06/2001 Emissione corrente Current issue 08/06/2010 Data di scadenza Expiring date 07/06/2013

ICIM S.p.A.

Piazza Don Enrico Mapelli, 75 - 20099 Sesto San Giovanni (MI)

CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale

> CISQ is the Italian Federation of management system Certification Bodies



Membro degli Accordi di Mutuo Riconoscimento EA e IAF Signatory of EA and IAF Mutual Recognition Agreements





THE INTERNATIONAL CERTIFICATION NETWORK

# CERTIFICATE

IQNet and its partner CISQ/ICIM

hereby certify that the organization

### GLOBAL di Fardelli Ottorino & C. S.r.l.

Via Rondinera, 51 - I-24060 Rogno (BG)

for the following field of activities

Design, die-casting, mechanical working, painting and packing of aluminium radiators for central heating.

has implemented and maintains a

**Environmental Management System** 

which fulfills the requirements of the following standard

ISO 14001:2004

Issued on: 2010-06-08 Validity date: 2013-06-07

Registration Number: IT-18376

René Wasmer

President of IQNET

CISQ

Gianrenzo Prati

President of CISO

IQNet partners\*:

AENOR Spain AFAQ AFNOR France AIB-Vinçotte International Belgium ANCE Mexico APCER Portugal CISQ Italy CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Germany DS Denmark ELOT Greece FCAV Brazil FONDONORMA Venezuela HKQAA Hong Kong China ICONTEC Colombia IMNC Mexico Inspecta Certification Finland IRAM Argentina JQA Japan KFQ Korea MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland QMI Canada Quality Austria Austria RR Russia SAI Global Australia SII Israel SIQ Slovenia SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia YUQS Serbia

IQNet is represented in the USA by: AFAQ AFNOR, AIB-Vincotte International, CISQ, DQS, NSAI Inc., QMI and SAI Global \*The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com



## POLITECNICO DI MILANO - DIPARTIMENTO DI ENERGETICA Laboratorio Misure Ricerche Termotecniche M.R.T.

Laboratorio di riferimento conforme a EN 442/ Laboratoire de réference en conformité avec EN 442/Reference Laboratory according EN 442/ Referenz Prüflaboratorien nach EN 442/ Laboratorio de referencia prueban EN442.

Accreditamento  $n^{\circ}$  / Rapport de controle No / Assessment report No / Beurteilungsbericht/ Accreditamento  $n^{\circ}$ : N° 104 rilasciato da / etabli par / issued by / ausgestellt von: SIT data / date / date / datum/ fecha: 27 / 02 / 1998

Indirizzo/ adresse/ address/ antragsteller/ direccion: Piazza Leonardo da Vinci, 32 I - 20133 Milano

International phone +39 02 2399 fax +39 02 2399 3940 e-mail: mrt @polimi.it

#### NORMA/ REFERENCE/ REFERENCE/ REFERENZ/ REFERENCIA: EN 442-1 & EN 442-2

Determinazione della potenza termica di un corpo scaldante/ Détermination de la puissance thermique d'un corp de chauffe / Determination of the heat output of a heating emitter / Bestimmung der Wärmeleistung eines Heizkörper/ Prueba termica de un aparato de calefaccion.

Data/date/date/datum/fecha: 21/05/01

Documento di prova/Rapport d'essai/Test report/Prüfbericht/Expediente n°: ENE/MRT.RAP.01204

**Richiedente**/Demandeur/Applicant/Antragsteller/Peticionario: GLOBAL **Indirizzo**/Adresse/Address/Anschrift/Direccion: via Rondinera n.51

24060 - Rogno (BG)

#### Corpo scald./Appareil de chauffage/Heating appliance/HeizKörper/Aparato de Calefaccion

Marca/Appelation Commerciale du constructeur/Manufacturer's trademark/

Handelsbezeichnung des herstellers/ Marca: GLOBAL

Gamma/ Gamme/ Type/ Typereihe/Gama: VOXModello/ Modèle/ Model/ Modell/Modelo: 350

Tipo di corpo scaldante/Construction/Construction/Bauart/Tipo: Radiatore

Materiale/ Material/ Werkstoff/Material : Alluminio

Altezza/ Hauteur/ Height/ Höhe/ Altura mm : 440
Lunghezza/ Longueur/ Length/ Länge/ Longitud mm : 802
Profondità/ Profondeur/ Depth/ Tiefe/ Anchura mm : 95
N° elementi/ No éléments/ Elements n°/ Anzahl der Glieder : 10

Contenuto d'acqua/Contenance en eau/Water content/Wässer inhalt/Contenido de agua kg : 3.5

Massa/ Masse/ Masse/ Masse en vacio kg : 11.2

**Disegno**/ Dessin / Drawing / Zeichnungs/ Planos n° / data : V00E215A - 26/03/2001

#### Risultati della prova / Resultats de l'essai / Test results / Ergebnisse/ Resultados de la prueba

Equazione caratteristica/ Equation caractéristique/ Characteristic equation/ Kennlinie/ Ecuacion caracteristica:

$$\Phi = K_m \Delta T^n q_m^c$$

 $K_m = 6.23131$ 

n = 1.28445

c = 0.0

Potenza Nominale ( $\Delta T=50 \text{ K}$ ) del modello provato:

948.0 W

Puissance du modèle essayé /Thermal output of the tested model/ Warme-leistung von prüfende Modell/ Potencia del modelo probado



#### POLITECNICO DI MILANO - DIPARTIMENTO DI ENERGETICA

#### Laboratorio Misure Ricerche Termotecniche M.R.T.

Laboratorio di riferimento conforme a EN 442/ Laboratoire de réference en conformité avec EN 442/Reference Laboratory according EN 442/ Referenz Prüflaboratorien nach EN 442/ Laboratorio de referencia prueban EN442.

Indirizzo/ adresse/ address/ antragsteller/ direccion: Piazza Leonardo da Vinci, 32 I - 20133 Milano

International phone +39 02 2399 fax +39 02 2399 3940 e-mail: mrt @polimi.it

#### NORMA/ REFERENCE/ REFERENCE/ REFERENZ/ REFERENCIA: EN 442-1 & EN 442-2

Determinazione della potenza termica di un corpo scaldante/ Détermination de la puissance thermique d'un corp de chauffe / Determination of the heat output of a heating emitter / Bestimmung der Wärmeleistung eines Heizkörper/ Prueba termica de un aparato de calefaccion.

Data/date/date/datum/fecha: 18/06/2001

Documento di prova/Rapport d'essai/Test report/Prüfbericht/Expediente n°: ENE/MRT.RAP.01238

**Richiedente**/Demandeur/Applicant/Antragsteller/Peticionario: GLOBAL **Indirizzo**/Adresse/Address/Anschrift/Direccion: via Rondinera n.51

24060 - Rogno (BG)

#### Corpo scald./Appareil de chauffage/Heating appliance/HeizKörper/Aparato de Calefaccion

Marca/Appelation Commerciale du constructeur/Manufacturer's trademark/

Handelsbezeichnung des herstellers/ Marca: GLOBAL

**Gamma**/ Gamme/ Type/ Typereihe/Gama : VOX **Modello**/ Modèle/ Model/ Modelo : 500

**Tipo di corpo scaldante**/Construction/Construction/Bauart/Tipo: Radiatore **Materiale**/ Matériel/ Material/ Werkstoff/Material : Alluminio

Altezza/ Hauteur/ Height/ Höhe/ Altura mm : 590

Lunghezza/ Longueur/ Length/ Länge/ Longitud mm : 801

Profondità/ Profondeur/ Depth/ Tiefe/ Anchura mm : 95

**Profondità**/ Profondeur/ Depth/ Tiefe/ Anchura mm : 95 **N° elementi**/ No éléments/ Elements n°/ Anzahl der Glieder : 10

Contenuto d'acqua/Contenance en eau/Water content/Wässer inhalt/Contenido de agua kg: 4.6

Massa/ Masse/ Masse/ Masse en vacio kg : 14.5

**Disegno**/ Dessin / Drawing / Zeichnungs/ Planos n° / data : V00E215A - 26/03/2001

#### Risultati della prova / Resultats de l'essai / Test results / Ergebnisse/ Resultados de la prueba

Equazione caratteristica/ Equation caractéristique/ Characteristic equation/ Kennlinie/ Ecuacion caracteristica:

$$\Phi = K_m \Delta T^n q_m^c$$

 $K_m = 7.69885$  n = 1.30495 c = 0.0

Potenza Nominale ( $\Delta T=50 \text{ K}$ ) del modello provato: 1269.1 W

Puissance du modèle essayé /Thermal output of the tested model/ Warme-leistung von prüfende Modell/ Potencia del modelo probado



## POLITECNICO DI MILANO - DIPARTIMENTO DI ENERGETICA

#### Laboratorio Misure Ricerche Termotecniche M.R.T.

Laboratorio di riferimento conforme a EN 442/ Laboratoire de réference en conformité avec EN 442/Reference Laboratory according EN 442/ Referenz Prüflaboratorien nach EN 442/ Laboratorio de referencia prueban EN442.

Indirizzo/ adresse/ address/ antragsteller/ direccion: Piazza Leonardo da Vinci, 32 I - 20133 Milano

International phone +39 02 2399 fax +39 02 2399 3940 e-mail: mrt @polimi.it

#### NORMA/ REFERENCE/ REFERENCE/ REFERENZ/ REFERENCIA: EN 442-1 & EN 442-2

Determinazione della potenza termica di un corpo scaldante/ Détermination de la puissance thermique d'un corp de chauffe / Determination of the heat output of a heating emitter / Bestimmung der Wärmeleistung eines Heizkörper/ Prueba termica de un aparato de calefaccion.

Data/date/date/datum/fecha: 21/05/01

Documento di prova/Rapport d'essai/Test report/Prüfbericht/Expediente n°: ENE/MRT.RAP.01205

**Richiedente**/Demandeur/Applicant/Antragsteller/Peticionario: GLOBAL **Indirizzo**/Adresse/Address/Anschrift/Direccion: via Rondinera n.51

24060 - Rogno (BG)

#### Corpo scald./Appareil de chauffage/Heating appliance/HeizKörper/Aparato de Calefaccion

Marca/Appelation Commerciale du constructeur/Manufacturer's trademark/

Handelsbezeichnung des herstellers/ Marca: GLOBAL

**Gamma**/ Gamme/ Type/ Typereihe/Gama : VOX **Modello**/ Modèle/ Model/ Modelo : 600

**Tipo di corpo scaldante**/Construction/Construction/Bauart/Tipo: Radiatore **Materiale**/ Matériel/ Material/ Werkstoff/Material : Alluminio

Altezza/ Hauteur/ Height/ Höhe/ Altura mm : 690
Lunghezza/ Longueur/ Length/ Länge/ Longitud mm : 802
Profondità/ Profondeur/ Depth/ Tiefe/ Anchura mm : 95
N° elementi/ No éléments/ Elements n°/ Anzahl der Glieder : 10

Contenuto d'acqua/Contenance en eau/Water content/Wässer inhalt/Contenido de agua kg : 5.0

Massa/ Masse/ Masse/ Masse en vacio kg : 16.8

**Disegno**/ Dessin / Drawing / Zeichnungs/ Planos n° / data : V00E215A - 26/03/2001

#### Risultati della prova / Resultats de l'essai / Test results / Ergebnisse/ Resultados de la prueba

Equazione caratteristica/ Equation caractéristique/ Characteristic equation/ Kennlinie/ Ecuacion caracteristica:

$$\Phi = K_m \Delta T^n q_m^c$$

 $K_m = 8.61563$  n = 1.31199 c = 0.0

Potenza Nominale ( $\Delta T=50 \text{ K}$ ) del modello provato: 1459.9 W

Puissance du modèle essayé /Thermal output of the tested model/ Warme-leistung von prüfende Modell/ Potencia del modelo probado



## POLITECNICO DI MILANO - DIPARTIMENTO DI ENERGETICA Laboratorio Misure Ricerche Termotecniche M.R.T.

Laboratorio di riferimento conforme a EN 442/ Laboratoire de réference en conformité avec EN 442/Reference Laboratory according EN 442/ Referenz Prüflaboratorien nach EN 442/ Laboratorio de referencia prueban EN442.

Accreditamento  $n^{\circ}$  / Rapport de controle No / Assessment report No / Beurteilungsbericht/ Accreditamento  $n^{\circ}$ : N° 104 rilasciato da / etabli par / issued by / ausgestellt von: SIT data / date / date / datum/ fecha: 27 / 02 / 1998

Indirizzo/ adresse/ address/ antragsteller/ direccion: Piazza Leonardo da Vinci, 32 I - 20133 Milano

International phone +39 02 2399 fax +39 02 2399 3940 e-mail: mrt @polimi.it

#### NORMA/ REFERENCE/ REFERENCE/ REFERENZ/ REFERENCIA: EN 442-1 & EN 442-2

Determinazione della potenza termica di un corpo scaldante/ Détermination de la puissance thermique d'un corp de chauffe / Determination of the heat output of a heating emitter / Bestimmung der Wärmeleistung eines Heizkörper/ Prueba termica de un aparato de calefaccion.

Data/date/date/datum/fecha: 18/06/2001

Documento di prova/Rapport d'essai/Test report/Prüfbericht/Expediente n°: ENE/MRT.RAP.01239

**Richiedente**/Demandeur/Applicant/Antragsteller/Peticionario: GLOBAL **Indirizzo**/Adresse/Address/Anschrift/Direccion: via Rondinera n.51

24060 - Rogno (BG)

#### Corpo scald./Appareil de chauffage/Heating appliance/HeizKörper/Aparato de Calefaccion

Marca/Appelation Commerciale du constructeur/Manufacturer's trademark/

Handelsbezeichnung des herstellers/ Marca: GLOBAL

Gamma/ Gamme/ Type/ Typereihe/Gama: VOXModello/ Modèle/ Model/ Modell/Modelo: 700

**Tipo di corpo scaldante**/Construction/Construction/Bauart/Tipo: Radiatore **Materiale**/ Matériel/ Material/ Werkstoff/Material : Alluminio **Altezza**/ Hauteur/ Height/ Höhe/ Altura mm : 790

Altezza/ Hauteur/ Height/ Höhe/ Altura mm : 790
Lunghezza/ Longueur/ Length/ Länge/ Longitud mm : 801
Profondità/ Profondeur/ Depth/ Tiefe/ Anchura mm : 95
N° elementi/ No éléments/ Elements n°/ Anzahl der Glieder : 10

Contenuto d'acqua/Contenance en eau/Water content/Wässer inhalt/Contenido de agua kg: 5.3

Massa/ Masse/ Masse/ Masse en vacio kg : 19.5

**Disegno**/ Dessin / Drawing / Zeichnungs/ Planos n° / data : V00E215A - 26/03/2001

#### Risultati della prova / Resultats de l'essai / Test results / Ergebnisse/ Resultados de la prueba

Equazione caratteristica/ Equation caractéristique/ Characteristic equation/ Kennlinie/ Ecuacion caracteristica:

$$\Phi = K_m \Delta T^n q_m^c$$

 $K_m = 9.02922$  n = 1.32938 c = 0.0

Potenza Nominale ( $\Delta T=50 \text{ K}$ ) del modello provato: 1637.7 W

Puissance du modèle essayé /Thermal output of the tested model/ Warme-leistung von prüfende Modell/ Potencia del modelo probado



#### POLITECNICO DI MILANO - DIPARTIMENTO DI ENERGETICA

#### Laboratorio Misure Ricerche Termotecniche M.R.T.

Laboratorio di riferimento conforme a EN 442/ Laboratoire de réference en conformité avec EN 442/Reference Laboratory according EN 442/ Referenz Prüflaboratorien nach EN 442/ Laboratorio de referencia prueban EN442.

Accreditamento n° / Rapport de controle No / Assessment report No / Beurteilungsbericht/ Accreditamento n°: N° 104 rilasciato da / etabli par / issued by / ausgestellt von: SIT data / date / date / datum/ fecha: 27 / 02 / 1998

Indirizzo/ adresse/ address/ antragsteller/ direccion: Piazza Leonardo da Vinci, 32 I - 20133 Milano

International phone +39 02 2399 fax +39 02 2399 3940 e-mail: mrt @polimi.it

#### NORMA/ REFERENCE/ REFERENCE/ REFERENZ/ REFERENCIA: EN 442-1 & EN 442-2

Determinazione della potenza termica di un corpo scaldante/ Détermination de la puissance thermique d'un corp de chauffe / Determination of the heat output of a heating emitter / Bestimmung der Wärmeleistung eines Heizkörper/ Prueba termica de un aparato de calefaccion.

Data/date/date/datum/fecha: 21/05/01

Documento di prova/Rapport d'essai/Test report/Prüfbericht/Expediente n°: ENE/MRT.RAP.01206

**Richiedente**/Demandeur/Applicant/Antragsteller/Peticionario: GLOBAL **Indirizzo**/Adresse/Address/Anschrift/Direccion: via Rondinera n.51

24060 - Rogno (BG)

#### Corpo scald./Appareil de chauffage/Heating appliance/HeizKörper/Aparato de Calefaccion

Marca/Appelation Commerciale du constructeur/Manufacturer's trademark/

Handelsbezeichnung des herstellers/ Marca : GLOBAL

**Gamma**/ Gamme/ Type/ Typereihe/Gama : VOX **Modello**/ Modèle/ Model/ Modell/Modelo : 800

 $\textbf{Tipo di corpo scaldante}/ \textbf{Construction/Construction/Bauart/Tipo:} \ \ \textbf{Radiatore}$ 

Materiale/ Matériel/ Material/ Werkstoff/Material : Alluminio

Altezza/ Hauteur/ Height/ Höhe/ Altura mm : 890

Lunghezza/ Longueur/ Length/ Länge/ Longitud mm : 802

Profondità/ Profondeur/ Depth/ Tiefe/ Anchura mm : 95

N° elementi/ No éléments/ Elements n°/ Anzahl der Glieder : 10

Contenuto d'acqua/Contenance en eau/Water content/Wässer inhalt/Contenido de agua kg : 5.6

Massa/ Masse/ Masse/ Masa en vacio kg : 22.1

**Disegno**/ Dessin / Drawing / Zeichnungs/ Planos n° / data : V00E215A - 26/03/2001

#### Risultati della prova / Resultats de l'essai / Test results / Ergebnisse/ Resultados de la prueba

Equazione caratteristica/ Equation caractéristique/ Characteristic equation/ Kennlinie/ Ecuacion caracteristica:

$$\Phi = K_m \Delta T^n q_m^c$$

 $K_m = 9.70008$  n = 1.33709 c = 0.0

Potenza Nominale ( $\Delta T=50 \text{ K}$ ) del modello provato: 1813.2 W

Puissance du modèle essayé /Thermal output of the tested model/ Warme-leistung von prüfende Modell/ Potencia del modelo probado