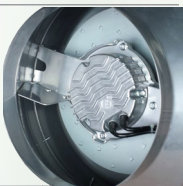


Wolter In-Line Tube Fans.

- RS Series
- EC Motor



Air in Motion.
Wolter Fans.

K01.RS





RS-EC

Fan type code

R S - EC 160

R	S	EC	160	Fan Size Number
				100...315
				Motor Type
				EC = Electronically Commutation
				Casing
				S = Steel
				Inline tube fan



Design features

Tube fans combine the advantages of the axial fan - straight airflow and easy installation - with the high pressure stability, low noise level and high efficiency of centrifugal fans. The highly efficient EC motor consumes little power like DC type, without a "rippling effect" that DC motor has.

With much lower heat dissipation than conventional AC motors, our EC motors are built to run for years of service life. The advantages of these EC motors are maintenance free operation combined with high efficiency.

Casing

Casings of sizes RS 100-315 are made of powder coated sheet metal.

Impeller

Backward-curved centrifugal impellers made of sheet steel or plastic. The impellers are fitted directly onto the external rotor motor. The motorized impeller unit is balanced in two planes to quality level G 2.5 (DIN ISO 1940).

Motor

Electronically commutated DC-motors commonly referred to as "EC motors" – are DC motors with a characteristic similar to shunt motors. The commutation is done electronically and therefore without wear. The impeller integrated onto the EC motor, allows for extremely compact designs allows for extremely compact designs and high performance density. The high efficiency helps to keep the energy costs at a low level. Temperature rise is low since an EC motor generates approximately 1/3 only of the heat loss known from conventional AC single and three-phase motors.

The motors are class F with IP 54 protection class is fitted within the radial impeller.

Fan performance curves

The performance curves for these fan types have been established installation type D (ducted inlet, ducted outlet) according to AMCA 210 and show the static pressure rise Δp_s in reference to the volume air flow. The given outlet velocity c refers to the flange cross-sectional area at the outlet side of the fan.

Sound levels

The ascertaining of the sound level follows the reverberant room method according to AMCA 300.

The data tables show the A-weighted sound power level L_{WA6} at the outlet side, unducted, in decibel figures.

The A-weighted sound power level at the inlet side L_{WA5} according to DIN 45 635, part 38, is obtained as follows:

$$L_{WA5} = L_{WA6} - 3 \text{ dB(A)}$$

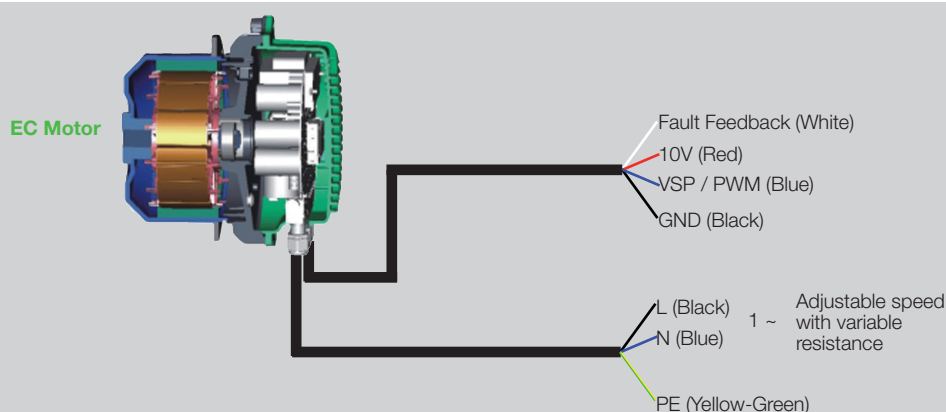
The octave sound power level is important for the choice of suitable sound attenuators. It is obtained as follows.

$$L_{WAOct} = L_{WA6} + L_{WArel}$$

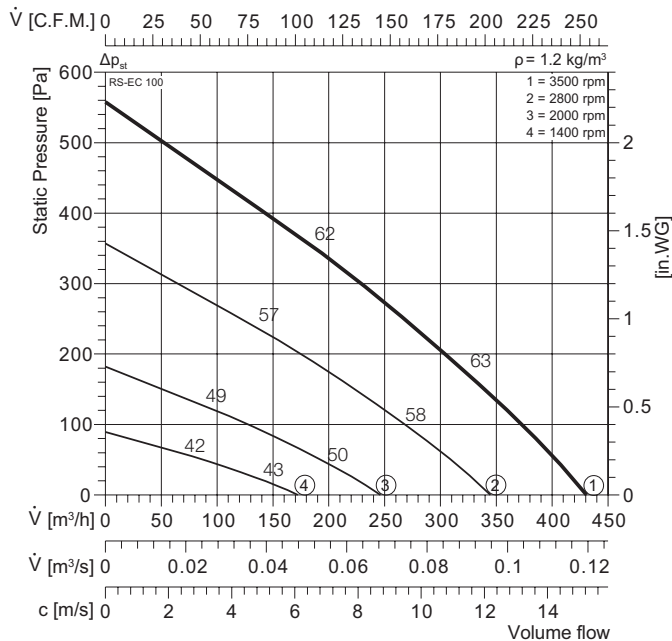
The relative octave sound power level L_{WArel} at octave medium frequency can be taken from the tables at respective fan. These levels has been established at $0.5 \times V_{max}$.

The A-weighted sound pressure level L_{PA} at a distance of 1 metre is obtained approximately by deducting 7 dB(A) from the A-weighted sound power level L_{WA} .

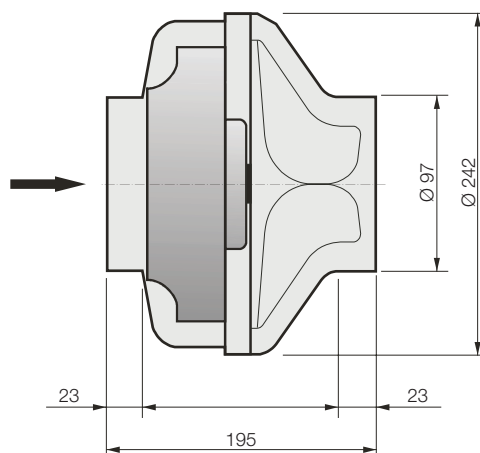
It is important to note that reflexion and room characteristics as well as natural frequencies differently influence the sound pressure levels.



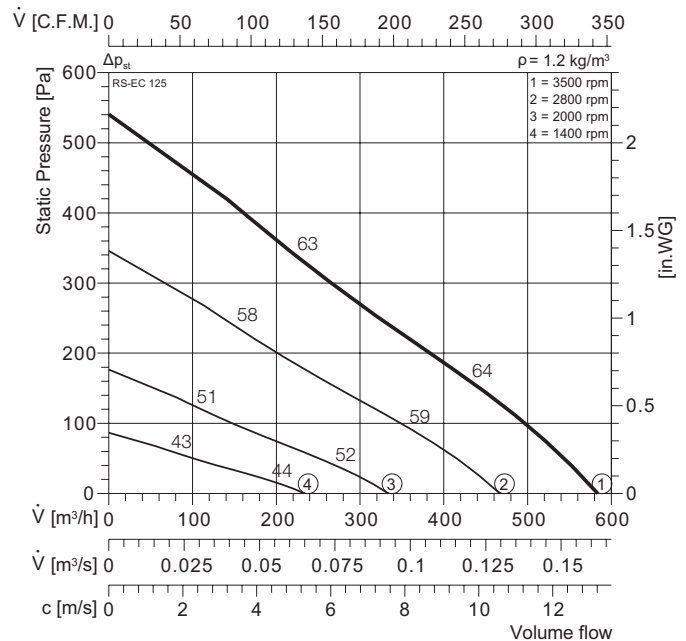
RS-EC 100



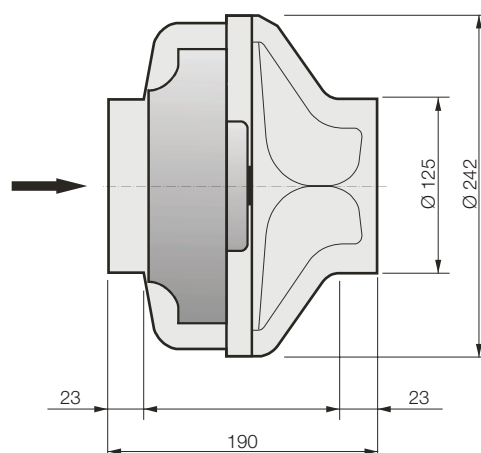
Typ :	RS-EC 100	IP 54	$L_{WA \text{ rel}}$ ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :	051056	E15	$L_{WA \text{ tot}}$	-14	0	0
$\square$:	3,5 kg	GS 1	125 Hz	-26	-17	-18
U :	230 V 50/60 Hz	-	250 Hz	-20	-9	-8
P_1 :	0,1 kW	-	500 Hz	-21	-6	-6
I_N :	0,85 A	-	1 kHz	-20	-5	-5
n :	3500 min ⁻¹	-	2 kHz	-21	-8	-7
C_{400V} :	- μF	-	4 kHz	-29	-11	-12
t_R :	60 °C	-	8 kHz	-36	-21	-22



RS-EC 125



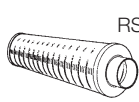
Typ :	RS-EC 125	IP 54	$L_{WA \text{ rel}}$ ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :	051106	E15	$L_{WA \text{ tot}}$	-14	0	0
$\square$:	3,5 kg	GS 1	125 Hz	-27	-15	-16
U :	230 V 50/60 Hz	-	250 Hz	-21	-10	-8
P_1 :	0,115 kW	-	500 Hz	-21	-7	-7
I_N :	1,2 A	-	1 kHz	-20	-4	-5
n :	3500 min ⁻¹	-	2 kHz	-20	-7	-7
C_{400V} :	- μF	-	4 kHz	-27	-11	-10
t_R :	60 °C	-	8 kHz	-35	-20	-21



Accessories page 70-73



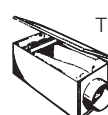
RSV



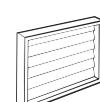
RSD



RVK



TFB-PTC



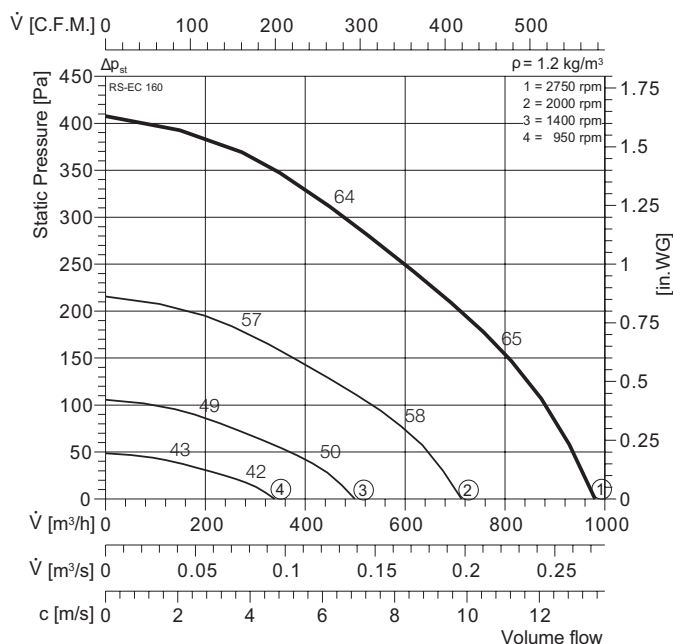
WVK



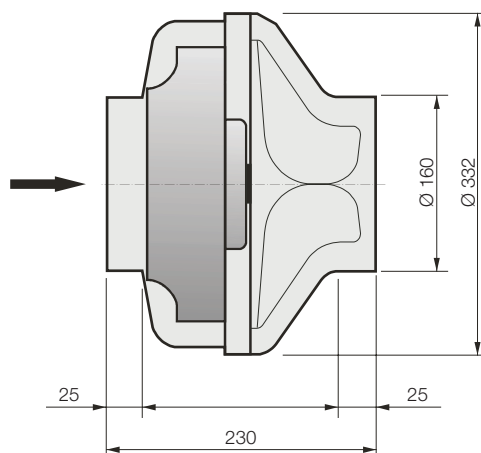
RS-EC



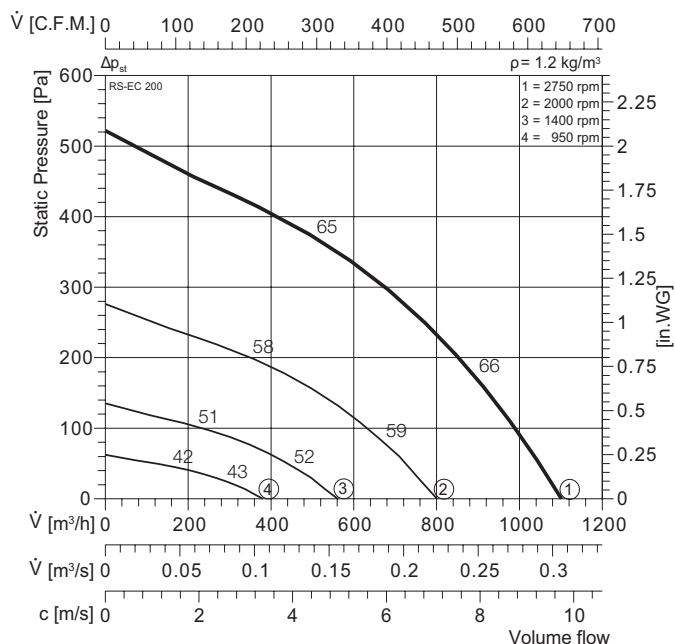
RS-EC 160



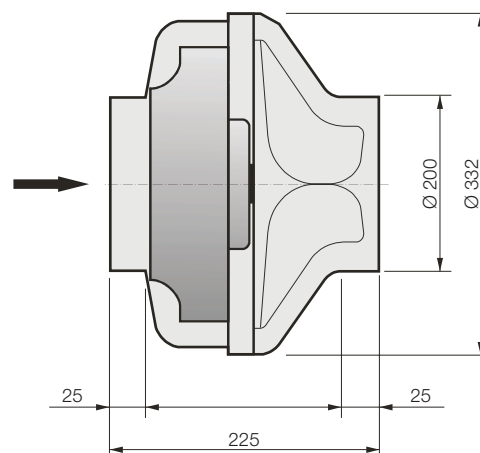
Typ :	RS-EC 160	IP 54	$L_{WA \text{ rel}}$ ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :	051206	E15	$L_{WA \text{ tot}}$	-13	0	0
$\square$:	5,0 kg	GS 1	125 Hz	-21	-15	-15
U :	230 V 50/60 Hz	-	250 Hz	-19	-7	-7
P ₁ :	0,125 kW	-	500 Hz	-19	-3	-7
I _N :	1,1 A	-	1 kHz	-20	-4	-5
n :	2750 min ⁻¹	-	2 kHz	-23	-4	-7
C _{400V} :	- μF	-	4 kHz	-27	-12	-13
t _R :	60 °C	-	8 kHz	-36	-20	-22



RS-EC 200



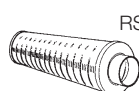
Typ :	RS-EC 200	IP 54	$L_{WA \text{ rel}}$ ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :	051256	E15	$L_{WA \text{ tot}}$	-17	-1	0
$\square$:	5,2 kg	GS 1	125 Hz	-35	-15	-14
U :	230 V 50/60 Hz	-	250 Hz	-27	-3	-2
P ₁ :	0,120 kW	-	500 Hz	-22	-7	-6
I _N :	1,2 A	-	1 kHz	-24	-10	-9
n :	2750 min ⁻¹	-	2 kHz	-25	-16	-15
C _{400V} :	- μF	-	4 kHz	-29	-23	-22
t _R :	60 °C	-	8 kHz	-34	-31	-30



Accessories page 70-73



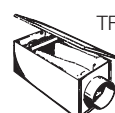
RSV



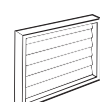
RSD



RVK

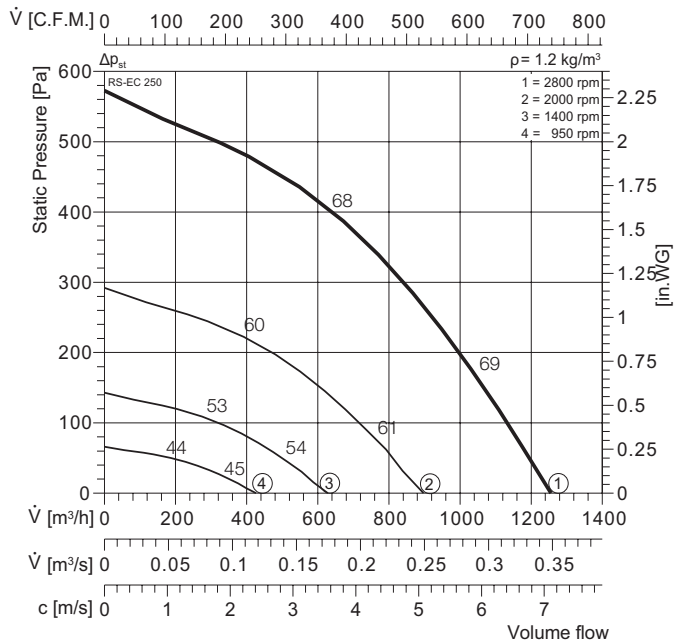


TFB-PTC

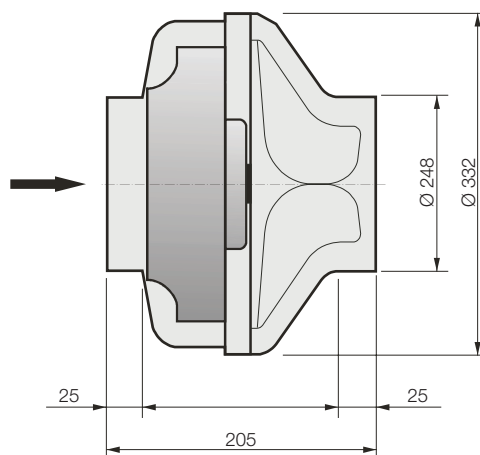


WVK

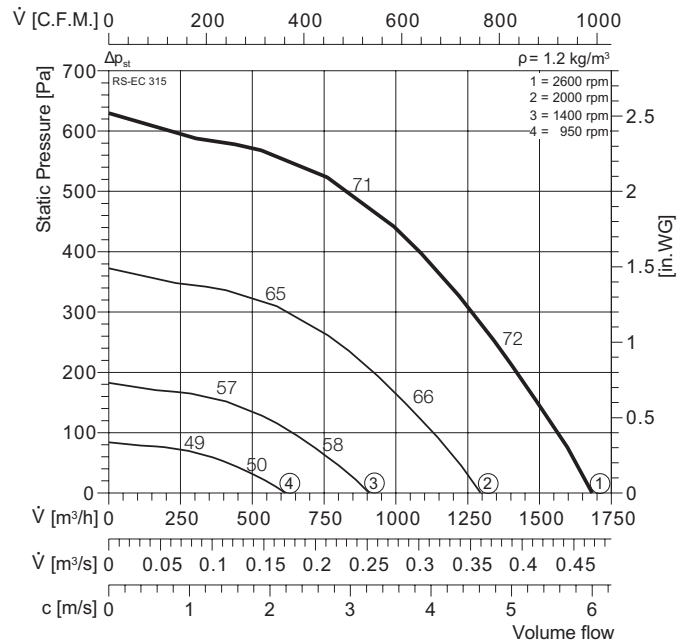
RS-EC 250



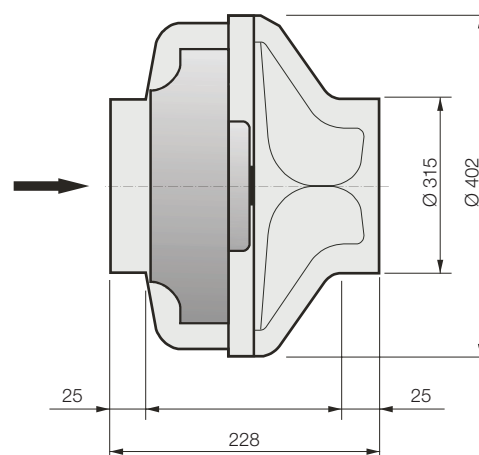
Typ :	RS-EC 250	IP 54	$L_{WA \text{ rel}}$ ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :	051306	E15	$L_{WA \text{ tot}}$	-14	0	0
$\square$:	5,5 kg	GS 1	125 Hz	-27	-15	-16
U :	230 V 50/60 Hz	-	250 Hz	-21	-10	-8
P_1 :	0,19 kW	-	500 Hz	-21	-7	-7
I_N :	1,65 A	-	1 kHz	-20	-4	-5
n :	2800 min ⁻¹	-	2 kHz	-20	-7	-7
C_{400V} :	- μF	-	4 kHz	-27	-11	-10
t_R :	60 °C	-	8 kHz	-35	-20	-21



RS-EC 315



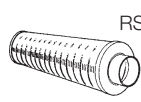
Typ :	RS-EC 315	IP54	$L_{WA \text{ rel}}$ ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
ArtNr :	051356	E15	$L_{WA \text{ tot}}$	-20	-1	0
$\square$:	6,5 kg	GS 1	125 Hz	-28	-13	-12
U :	230 V 50/60 Hz	-	250 Hz	-31	-5	-4
P_1 :	0,23 kW	-	500 Hz	-27	-6	-5
I_N :	2,1 A	-	1 kHz	-27	-13	-12
n :	2600 min ⁻¹	-	2 kHz	-26	-10	-9
C_{400V} :	- μF	-	4 kHz	-31	-21	-20
t_R :	60 °C	-	8 kHz	-37	-27	-26



Accessories page 70-73



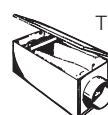
RSV



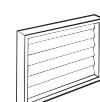
RSD



RVK



TFB-PTC



WVK

Wolter Sales Network

Inland

Ing. Günther Rößler
D-07619 Schkölen
Tel. (+49) 03 66 94 / 22 359
Fax (+49) 03 66 94 / 22 357
guenther.roessler@wolterfans.de

Mattias Industrievertretungen
D-16259 Bad Freienwalde
Tel. (+49) 03344/301994
Fax (+49) 03344/301996
thomas.mattias@wolterfans.de

Industrieservice Drexler
D-49080 Osnabrück
Tel. (+49) 0 541 / 20 04 88 3
Fax (+49) 0 541 / 20 04 88 4
wolfgang.drexler@wolterfans.de

Burkhardt Projekt GmbH
D-67583 Guntersblum
Tel. (+49) 0 62 49 / 82 01
Fax (+49) 0 62 49 / 88 58
info@bp-wolter.de

Friedrich Glock
D-97980 Bad Mergentheim
Tel. (+49) 0 79 31 / 37 44
Fax (+49) 0 79 31 / 28 58
friedrich.glock@wolterfans.de

Europe

Danmark:

Air-Con Danmark A/S
DK-8400 Ebeltoft
Tel. (+45) 086/345111
Fax (+45) 086/345810
jbj@air-con.dk

Hungary:

Air-Technik Légtechnikai Kft.
HU-2040 Budaörs
Tel. (+36) 023/428533
Fax (+36) 023/428544
bp.air-technik@troges.hu

Ireland:

Finheat Ltd.
IE-Dublin 12, Walkinstown
Tel. (+353) 01/4564066
Fax (+353) 01/4564071
sales@finheat.com

Lithuania:

JSC Saldos Prekyba
LT-78109 Siauliai
Tel. (+37) 041/540212
Fax (+37) 041/596176
prekyba@saldita.lt

Netherlands:

AirFan B. V.
NL-7442 CX Nijverdal
Tel. (+31) 054/8366366
Fax (+31) 054/8365320
ventilatie@airfan.nl

Rucon B. V. Ventilatoren
NL-3840 AG Harderwijk
Tel. (+31) 034/1411670
Fax (+31) 034/1411690
verkoop@rucon.nl

Österreich:

Wolter Werksvertretung Österreich
A-4040 Linz
Tel. (+43) 07 32 / 75 77 07
Fax (+43) 07 32 / 75 77 07 75
wolter.linz@aon.at

Poland:

Wentoprodukt
44-100 Gliwice
Tel. (+48) 32 331-34-24
Fax (+48) 32 729-76-53
biuro@wentoprodukt.pl

Portugal:

Safe Park Ventilação Industrial Lda.
P-2675-240 Odivelas
Tel. (+351) 21 93 / 75 265
Fax (+351) 21 93 / 86 061
safepark@netcabo.pt

Russia:

Euroclimat-Prof
RU-107082 Moskau
Tel. (+7) 4 95 / 97 57 530
Fax (+7) 4 95 / 97 57 530
gso@euroclimat.ru

Schweiz:

Anson AG Zürich
CH-8055 Zürich
Tel. (+41) 0 44 / 46 11 111
Fax (+41) 0 44 / 46 13 111
info@anson.ch

Ventra Technik AG
CH-8599 Salmsach
Tel. (+41) 0 71 / 46 11 447
Fax (+41) 0 71 / 46 11 448
ventra@bluewin.ch

Turkey:

Air Trade Centre Ltd Sti Türkiye,
TR-34418 Seyrantepe / Istanbul
Tel. (+90) 02 12 / 28 34 510
Fax (+90) 02 12 / 27 83 964
atc.turkey@airtradecentre.com

United Kingdom:

Wolter UK Ltd.
GB-B37 7UQ Solihull
Tel. (+44) 01 21 / 63 55 390
Fax (+44) 01 21 / 63 55 391
info@wolteruk.com

Middle East and North Africa

Egypt:

Tiba Engineering Industries Co.
Nasr City, Cairo
Tel. (+2) 02 / 40 22 866
Fax (+2) 02 / 40 44 771
tibaengineering@manz-group.com

Israel:

Lea Ventilation Industries Ltd.
IL-27113 Kiriya-Bialik, Israel
Tel. (+972) 0 48 / 76 23 57
Fax (+972) 0 48 / 76 20 51
mail@lea.co.il

United Arab Emirates, Kuwait, Lebanon:

Wolter Ventilation LLC
Energy International
P.O. Box 3562 Sharjah, UAE
Tel. (+971) 06 / 53 43 477
Fax (+971) 06 / 53 43 756
energysh@emirates.net.ae

Asia

China Mainland:

Taizhou Wolter Ventilation Co. Ltd.
Hengjie, Luqiao District
Taizhou City, Zhejiang
Tel. (+86) 576 / 26 22 666 (26 52 888)
Fax (+86) 576 / 26 56 830

Hongkong:

Wolter Asia Ltd.
Hong Kong
Tel. (+852) 0 24 / 56 01 98
Fax (+852) 0 24 / 56 02 90
info@wolter.com.hk

India:

Wolter Ventilators India Pvt. Ltd.
867 D, Block-A, Sushant Lok, Phase-I,
Gurgaon - 122009 (Haryana)
Tel. +91 124 2577797, 4261001-3
sales@wolterindia.in

Indonesia:

PT. Agung Kipas Kastara.
ID-14440 Jakarta Indonesia
Tel. +62 (0) 21 / 6667 6925, 6667 6926
Fax +62 (0) 21 / 6667 6927
indowolter@cbn.net.id

Korea:

Kaceco-Wolter
14-1, Dang-dong, Gunpo-shi, Gyeonggi-do
Tel. +82 (0) 31 / 4773 104
Fax +82 (0) 31 / 4773 132
wolter@kaceco.com / info@kaceco.com

Malaysia:

Vibrantech (M) Sdn Bhd.
47200 Petaling Jaya Selangor, Malaysia
Tel. +603 (0) 7847 3500
Fax +603 (0) 7847 3380
sales@vibrantech-sb.com

Singapore:

Wolter Pte. Ltd.
SG-569738 Singapore
Tel. (+65) 0 63 / 52 95 48
Fax (+65) 0 63 / 52 95 47
info@wolterfans.com.sg

Sri Lanka:

Sirocco Air Technologies (Pvt) Ltd.
28/12, Gemunu Mawatha, Kotuwegoda,
Rajagiriya, Sri Lanka
Tel. +94 11 7 392 010
Fax +94 11 7 392 015
suren@sairt.com

Taiwan:

Waxlink International Co., Ltd.
8F No. 218 Roosevelt Rd., Sec. 6
Taipei, Taiwan
Tel. (+886) 02 / 89 32 11 96
Fax (+886) 02 / 89 32 11 97
waxlink.tech@msa.hinet.net

Thailand:

Wolter Ventilation Co., Ltd.
Thamai Kratumban Samutsakorn 74110
Thailand
Tel. +66 (0) 3486 6555
Fax +66 (0) 3486 6599
natiphan@wolterfan.com

Australia

The Sydney Fan Company.
NSW 2147, Sydney, Australia
Tel. +61 (0) 2 / 9624 4000
Fax +61 (0) 2 / 9624 4100
sales@thesydneyfancompany.com

Wolter GmbH

Maschinen-und Apparatebau KG

Am Wasen 11
D-76316 Malsch / Germany
Tel. +49 (0) 7204/9201-0
Fax +49 (0) 7204/9201-11
www.wolter.eu
info@wolter.eu

