

Attractively designed small window fans with air flow volumes from 80 – 360 m<sup>3</sup>/h.

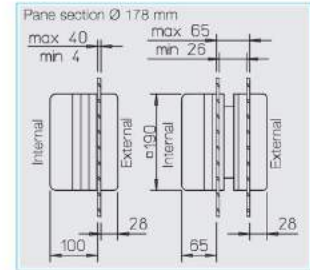
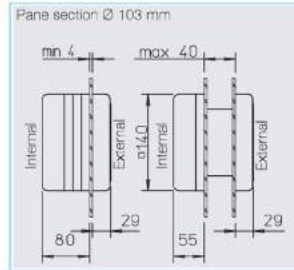
**Application**

In rooms and windows of all kinds in domestic applications as well as in small to mid-sized commercial rooms.

**Special specifications and common details**

- Universal operation**  
Prepared for single pane, insulation and double glazed window installation as standard (HR 90 KE/FES not for hinged coupled windows). Suitable for wall installation with wall plugs (accessories) and dowels.
- Electrical internal shutter**  
Quietly closes tight when fan is off; maintenance free. Automatic operation together with fan.
- Casing**  
Made from high quality, impact resistant polymer. Fan casing and outside grille in pleasant white.
- Motor**  
Totally enclosed motor in a splash proof casing. Maintenance free and interference-free. Maximum air flow temperature +40 °C.
- Installation**  
Unit construction allows a fast installation with only a few fixings giving quick installation and easy servicing.

Accessory details	Page
Speed controllers, switches and overrun timer	525 on



**Specification HR 90 KE/FES**

- Elegant, small window fan for all rooms. The innovative design effectively prevents the view of the interior zone of the fan.
- For installation in single panes and double glazed windows with a thickness of 4 – 40 mm. The variable distances can be compensated for using a combination of the supplied frames.
- Wall termination through a flat rain repellent grille.
- Controlled by built-in pull cord or by on/off switch installed locally
- Integrated operation display.
- Protection to IP 45.

**Specification HVR 150/FES**

- Powerful window fans for small to mid-sized private and commercial rooms.
- For installation in single pane and double glazed windows (double glazed windows can be opened unhindered) as well as thin panellings with a thickness of 4 – 40 mm. The variable distances can be compensated for using a combination of the supplied frames.
- Wall termination through a flat rain repellent grille.
- Controlled by built-in pull cord or by on/off switch installed locally.
- Optical operation display.
- Protection to IP 44.

Delivery range			
Technical data	HR 90 KE/FES	HVR 150/2 E/FES	HVR 150/2 RE/FES
Ref. no.	0334 / 0462	0285 / 0463	0285 / 0463
Built-in electric shutter	Yes	Yes	Yes
Air flow reversible	Extraction	Extraction	DSEL 2 <sup>2)</sup> Ref. no. 1306
Window hole Ø mm	103 mm	178 mm	178 mm
Air flow volume (FID) m <sup>3</sup> /h	80	260	360
Impeller Ø mm	93 mm	140 mm	140 mm
Voltage 230 V, 50 Hz, Power consumption W	17	35	50
Current A	0.12	0.15	0.25
R.P.M. min <sup>-1</sup>	2550	1800	2600
Sound pressure/sound power level in dB(A) <sup>1)</sup>	44 / 51	58 / 65	64 / 71
Weight approx. kg	1.0	1.9	2.0
Wiring diagram no.	463	283	284
Accessories			
Double glazed installation for separable windows	—	included	included
Ref. no.	—	—	—
Wall installation, using wall tube 260 – 500 mm	TWH 90	TWH 150	TWH 150
Ref. no.	6352	6354	6354
Speed controller flush/surface	—	ESU 1 / ESA 1	ESU 1 / ESA 1
Ref. no.	—	0236 / 0238	0236 / 0238
Speed controller with included reversing switch	—	—	BSX
for intake and extraction	Ref. no.	—	0240

<sup>1)</sup> Distance at 1 m in freefield conditions

<sup>2)</sup> NYM-O 3 x 1.5 mm<sup>2</sup> cable required for reverse operation



Quiet window fans for operation in domestic, commercial and industrial applications. The GX range with quiet performance and safe for continuous operation. Fan and grille in white. Pleasant design, for use in every room of the house and facia.

### ■ Application

For ventilation of mid-size to large rooms of every kind in temperature ranges from -40 °C to +40 °C.

### ■ Special specifications

#### □ Universal operation

For installation in single pane, insulation and double glazing windows. Even suitable for installation in thin panel walls or solid walls.

#### □ Shutter operation

The shutter behind the fascia closes tightly and is quiet in operation. With an option that allows a permanent opening (passive ventilation in summer) even when fan is switched off. Shutter operates automatically with fan operation.

#### □ Casing

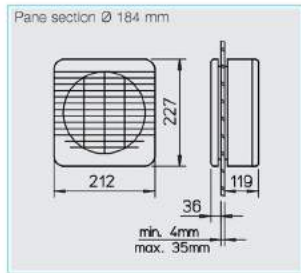
Made from high quality, white impact resistant polymer in a pleasant design. Fascia and impeller can be removed for cleaning (using soapy water) easily with one hand. The power supply will cut off automatically).

#### □ Motor

Totally enclosed, splash proof motor (IP 44) with thermal overload protection. Maintenance free and interference-free. Maximum air flow temperature +40 °C. Speed controllable by speed controller (accessory).

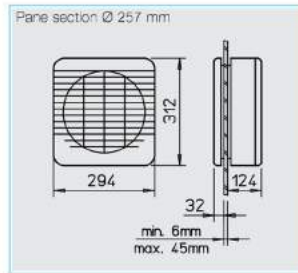
#### □ Installation

Unit construction, with only a few fixings giving quick installation and easy servicing.



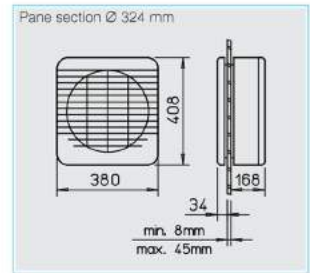
### ■ Specification GX 150

- Sophisticated fan for smaller sized rooms.
- For installation in single pane and double glazed windows, using an accessory for fixed and separable double glazed windows.
- Flat, external rain guard does not obstruct blinds or shutters.
- Service and installation friendly. Casing parts on the room side can be removed for cleaning without tools.
- Shutter function can be switched on for passive ventilation (without fan operation).
- Speed controllable by speed controller (accessory).



### ■ Specification GX 225

- Medium performance class fan with high comfort and integrated switch that allows following operations without changing the wiring:
  - Extraction
  - Input ventilation or
  - Reversed operation through external on/off switch/speed controller (accessory).
- Shutter function can be switched on for passive ventilation (without fan operation).
- Controllable by on/off switch (to be installed on site) or by on/off switch/speed controller (accessory). Automatic shutter operation with fan operation.
- Flat rain guard does not obstruct blinds or shutters.
- Service and installation friendly. Casing parts on the room side can be removed for cleaning without tools.



### ■ Specification GX 300

- Powerful fan for ventilation and extraction of larger rooms in an attractive soft line design. Suits any room in the house.
- Integrated switch that allows following operations without changing the wiring:
  - Extraction
  - Input ventilation or
  - Reversed operation through external on/off switch/speed controller (accessory).
- Controllable by on/off switch (to be installed on site) or by on/off switch/speed controller (accessory). Automatic shutter operation with fan operation.
- Static ventilation, installation and outer cover see GX 225.
- Unit construction, with only a few fixings giving quick installation and easy servicing.

Accessory details	Page
Speed controllers, switches and overrun timers	525 on



Model range	GX 150	GX 225	GX 300
<b>Technical data</b>			
Ref. no.	1483	1484	1485
Built-in electric shutter	Yes	Yes	Yes
Reversed operation	No	Yes	Yes
Window hole Ø mm	184 mm	257 mm	324 mm
Air flow volume free discharge m <sup>3</sup> /h	250	670	1650
Impeller Ø mm	150	225	300
Power consumption Watt	37	45	125
Voltage, 50 Hz	230 V	230 V	230 V
Current A	0.3	0.3	0.7
R.P.M. min <sup>-1</sup>	1250	1250	1250
Sound pressure <sup>1)</sup> /power dB(A)	45/52	54/61	61/68
Weight approx. kg	2.5	4.0	7.0
Wiring diagram no.	508	538	538

<sup>1)</sup> 1 m freefield conditions    <sup>2)</sup> with reversing switch    <sup>3)</sup> with 2 speeds and reversing switch

Window fan accessories	GX 150	GX 225	GX 300
<b>Installation kit - double glazed windows</b>			
- for fixed windows	DR 150 <sup>4)</sup>	DR 225 <sup>4)</sup>	DR 300 <sup>4)</sup>
Ref. no.	5114	5115	5116
<b>Wall kit</b>			
- worm drive clips, 50 cm long	SB 50/2	SB 50/3	SB 50/4
Ref. no.	1385	1386	1387
- using wall tube	KR 150 <sup>5)</sup>	WER 225/250 <sup>6)</sup>	WER 300 <sup>7)</sup>
Ref. no.	5091	0369	0469
Electronic speed controller flush/surface	ESU 1/ESA 1	ESU 1/ESA 1	ESU 1/ESA 1
Ref. no.	0236/0238	0236/0238	0236/0238
Electronic speed controller <sup>2)</sup> surface	—	BSX	BSX
Ref. no.	—	0240	0240
On/off switch <sup>2)</sup> flush	—	DSEL 2	DSEL 2
Ref. no.	—	1306	1306
On/off switch <sup>3)</sup> surface	—	FR 22/30	FR 22/30
Ref. no.	—	0998	0998

<sup>4)</sup> Space rings for underpin 2-35 mm (1 set = 10 pcs.)

<sup>5)</sup> 330 mm long    <sup>6)</sup> 170 - 500 mm long    <sup>7)</sup> 170 - 450 mm long

