

**Small fans from 75 to 1650 m³/h
for duct, wall and ceiling installation**

Sealed buildings and environmental pollution make mechanical ventilation indispensable today. The traditional ventilation of rooms and working places through opening the window is no longer an option and has not been so for some time.

The new small fans MiniVent® M1 achieve high pressure capacity, maximum energy efficiency and are extremely quiet. Two speeds, protection to IP X5 and high quality long-term ball bearings are standard features. Due to Helios ultra-Silence® technology the MiniVent® operates almost silently and uses approximately one third less energy than conventional small fans.

The excellent design of the MiniVent® blends in beautifully, even in the most demanding

room designs.

Development and manufacturing of the M1 originates entirely from Germany and guarantees the adherence to highest quality standards.



M1
MiniVent®



**Top class, small fans.
Premium design combined with highest
energy efficiency.**

Helios offers a wide range of fans for ventilation and extraction of domestic and commercial rooms. The units are produced with an innovative design and satisfy even the most demanding requirements.

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ultra[®]*Silence*
Technology by Helios

- Mini fans of highest quality. Design and performance of the MiniVent® M1 sets the standard of the Mini fans range.

The excellent design of the MiniVent® M1 blends in everywhere beautifully, even in the most demanding room designs. The compact and attractively designed fascia shields the view of the fan interior completely.

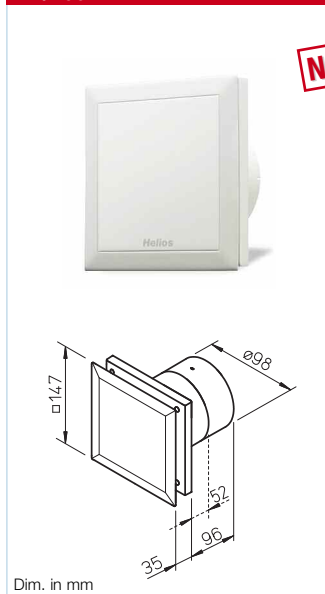
All M1- models are supplied with 2 speeds (90/75 m³/h) and with airtight back draught shutter as standard.

The noise level is extremely low due to ultraSilence® technology.

Available with interval function, overrun timer or automatic function like motion sensor or humidity controlled operation. This responds with intelligent electronics and prevents development of mildew effectively.

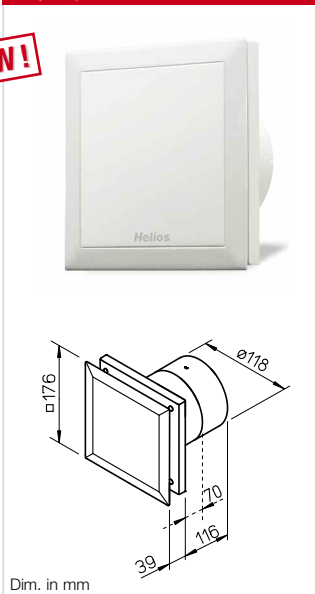
Suitable for all ventilation applications in bathrooms, toilets and other small rooms.

M1/100



Dim. in mm

M1/120



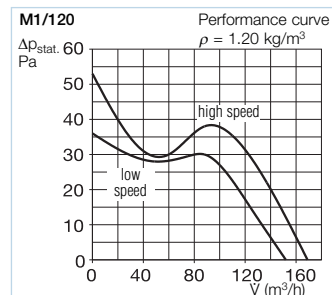
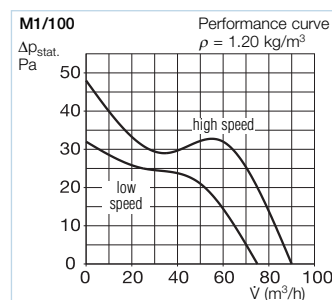
Dim. in mm

■ Features M1/100

- Lowest power consumption of only 5 Watt (at vol. = 75 m³/h).
- Extremely quiet due to the new ultraSilence® technology; just 25 dB(A)* (at vol. = 75 m³/h).
- Achieves a volume/pressure of 60 m³/h air flow at 31 Pa. Maximum air flow 90 m³/h, maximum pressure 45 Pa.
- Where space is limited the guide vane of M1 can be simply removed. Thus reducing the installation depth to 52 from 96 mm.
- Compact dimensions for flush mounted installation in walls, shafts or ceilings with nominal dia. 100 mm.

■ Features M1/120

- Lowest power consumption of only 10 Watt (at vol. = 150 m³/h).
- Extremely quiet due to the new ultraSilence® technology; just 32 dB(A)* (at vol. = 150 m³/h).
- Achieves a volume/pressure of 120 m³/h air flow at 31 Pa. Maximum air flow 170 m³/h, maximum pressure 53 Pa.
- Where space is limited the guide vane of M1 can be simply removed. Thus reducing the installation depth to 70 from 116 mm.
- Compact dimensions for flush mounted installation in walls, shafts or ceilings with nominal dia. 120/125 mm.



■ Similarities

- All components made from high quality white polymers.
- The motor design and ball bearings are selected for long-term durability, steady performance and lifelong operational reliability.
- Motor supplied with thermal overload protection, providing maintenance and trouble-free, continuous operation.
- Suitable for use in zone 1 of bathrooms according to DIN EN 0100, part 701-A1 and BS7671.
- The electrical supply cables to the unit may be recessed or surface mounted.
- Practical quick assembly using the push on cable connectors for the electrical connection.

Type	M1/100	M1/100 N	M 1/100 NC	M1/100 F	M 1/100 P	M1/120	M1/120 N	M 1/120 NC	M1/120 F	M 1/120 P
Ref. No.	6171	6172	6173	6175	6174	6360	6361	6362	6364	6363
Model	Standard model equipped with two speeds	As M1/100, with overrun timer ¹⁾	As M1/100, with adjustable overrun and interval timer ¹⁾	As M1/100, with automatic humidity control ¹⁾⁴⁾	As M1/100, with PIR motion sensor ¹⁾	Standard model equipped with two speeds	As M1/120, with overrun timer ¹⁾	As M1/120, with adjustable overrun and interval timer ¹⁾	As M1/120, with automatic humidity control ¹⁾⁴⁾	As M1/120, with PIR motion sensor ¹⁾
Run on time, min. optionally on high or low speed	—	6	6, 12, 18, 24 adjustable	6, 12, 18, 24 adjustable ³⁾	6	—	6	6, 12, 18, 24 adjustable	6, 12, 18, 24 adjustable ³⁾	6
Interval operation, hrs. optionally on high or low speed	—	—	4, 8, 12, 24 adjustable	—	—	—	—	4, 8, 12, 24 adjustable	—	—
Delayed start, approx. sec.	—	45	0 or 45	0 or 45 ³⁾	—	—	45	0 or 45	0 or 45 ³⁾	—
Back draught shutter, mech., remov.	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Air flow volume (FID) m³/h	90 / 75	90 / 75	90 / 75	90 / 75	90 / 75	170 / 150	170 / 150	170 / 150	170 / 150	170 / 150
Impeller-ø mm	92	92	92	92	92	111	111	111	111	111
R.P.M. min ⁻¹	2650 / 2250	2650 / 2250	2650 / 2250	2650 / 2250	2650 / 2250	2350 / 2050	2350 / 2050	2350 / 2050	2350 / 2050	2350 / 2050
Voltage/Frequency 50/60 Hz	230 V	230 V	230 V	230 V	230 V	230 V	230 V	230 V	230 V	230 V
Power consumption W	9 / 5	9 / 5	9 / 5	9 / 5	9 / 5	13 / 10	13 / 10	13 / 10	13 / 10	13 / 10
Rated current A	0.06 / 0.04	0.06 / 0.04	0.06 / 0.04	0.06 / 0.04	0.06 / 0.04	0.09 / 0.08	0.09 / 0.08	0.09 / 0.08	0.09 / 0.08	0.09 / 0.08
Sound pressure level dB(A) at 3 m ²⁾	30 / 25	30 / 25	30 / 25	30 / 25	30 / 25	36 / 32	36 / 32	36 / 32	36 / 32	36 / 32
Wiring diagram No.	SS-915	SS-917	SS-917	SS-919	SS-918	SS-915	SS-917	SS-917	SS-919	SS-918
Electrical power supply NYM-O in mm ²	3 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5	3 x 1.5	3 x 1.5	4 x 1.5	4 x 1.5	4 x 1.5	3 x 1.5
Protection class II, protection	IP 45	IP 45	IP 45	IP 45	IP 45	IP 45	IP 45	IP 45	IP 45	IP 45
Max. air flow temperature	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C
Weight ca. kg	0.80	0.80	0.80	0.80	0.80	1.05	1.05	1.05	1.05	1.05

¹⁾ All electronic functions optionally on high or low speed - adjustable. ²⁾ Freefield. ³⁾ With manual operation. ⁴⁾ Limit value 60, 70, 80, 90 % adjustable.

Nice and clean

Since every fan gets dirty sooner or later, the M1 facia was designed in a way that air flows in on all sides. The design of the facia elegantly avoids the internal view of the fan opening, even when dirty.



Intelligent humidity control

The humidity control of the M1/.. F type starts the fan automatically with increase of humidity. The fan operates until the humidity is reduced below the set point. With constantly high humidity the fan changes into a defined interval operation.



Connected at lightning speed

A generously dimensioned, circular cable storage space, the simple rotatability of the casing and the push on cable connectors assist the electrical connection enormously. Ball bearings (approx. 40 000 hours running) allow the installation in any position, also directly in the ceiling.



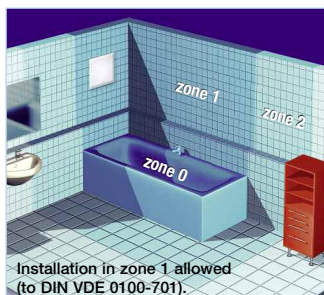
Flexible installation depth

Removable guide vane reduces installation depth from 96 to 52 mm respectively with types M1/120.. from 116 to 70 mm. Can be installed with or without back draught shutter.



Suitable for use in zone 1

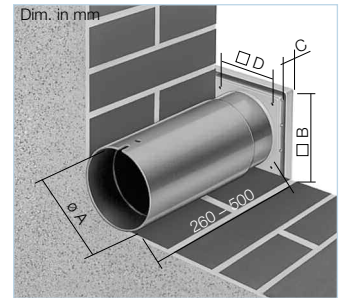
MiniVent® M1 provides protection to IP 45, insulation class II and may be used in accordance with DIN VDE 0100-701 in zone 1 of bathrooms.



Wall mounting kit

WES 100 Ref. No. 0717
WES 120 Ref. No. 0486

Two telescopic polymer sleeves guide the air through cavity walls and serve as wall liners. Outside wall termination is carried out by application of three bladed automatic back draught louvre shutter. In addition a fixed grille can be used with WES 100.



■ **Mini fans of high quality.**
Equipped with ball bearings provides maintenance free operation, silent run and makes installation in any position possible.
HR 90 KE.. models are fitted with electric shutter. The electric shutter behind the fascia opens and closes tightly and quietly. The shutter operates automatically with fan operation; therefore there is no air transference when fan is not in operation.

■ **Similarities of HR 90 K and .. 12 V-models**

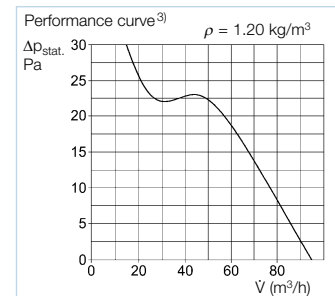
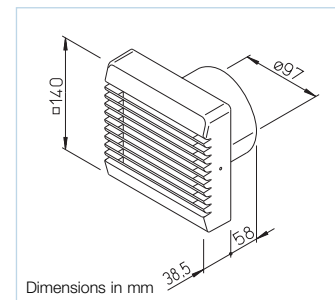
■ **Advantages of ball bearings**

- ☐ Quiet and reliable performance under continuous operation.
- ☐ Acoustically tested long life ball bearings are greased for life (approx. 30 000 hours running). Maintenance, re-greasing and cleaning of bearings are not required, saving time and money.
- ☐ Even under harshest conditions the fans will perform quietly for life.
- ☐ Ball bearings and motor are designed for long-term durability, constant performance and life-long operational safety.

HR 90 K



HR 90 K 12 V



■ **Features HR 90 K**

- ☐ Universal in application to ventilate bathrooms, toilets or other small rooms.
- ☐ Suitable for use in zone 1 of bathrooms according to DIN VDE 0100-701.
- ☐ Optional built-in thermal electric shutter and/or overrun timer.
- ☐ Flush mounting in $\varnothing 100 \text{ mm}$ ducting or shafts.
- ☐ Very compact design.
- ☐ All components made from impact resistant polymers.
- ☐ Contact safety to DIN EN ISO 13857.
- ☐ Motor protected by automatically resetting thermal contact. Maintenance-free and radio suppressed. Suitable for continuous operation.
- ☐ Cable entry can be flush or on the surface.
- ☐ Easy electrical connection through screwless clamps.
- ☐ Spring clips for fixing into $\varnothing 100 \text{ mm}$ ducting.

■ **Features HR 90 K 12 V**

HR 90 K 12 V with safety low voltage SELV.

- ☐ HR 90 K.. 12 V models are applicable in zones in which according to VDE 0140-1 and VDE 0100-410 a safety extra low voltage SELV is necessary.
- ☐ For installation in the spray area of bath or shower.
- ☐ Run on time installation by connection of a overrun timer ZT, ZNE or ZNI ahead of the transformer.
- ☐ Operation of HR 90 K 12 V models only with safety low voltage transformer SELV 12 V (accessories, Ref. No. 0723) permitted.

**AVAILABLE IN
THE UK ONLY!**

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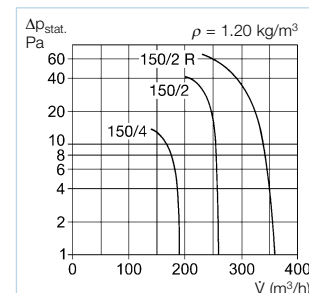
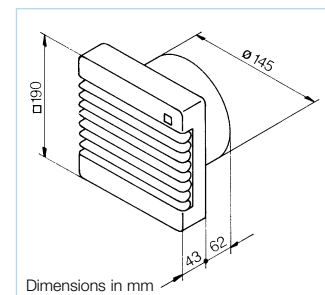
Type	HR 90 K	HR 90 KZ	HR 90 KE	HR 90 KEZ	HR 90 K 12 V	HR 90 KE 12 V
Ref. No.	0332	0333	0334	0335	0721	0722
Built-in overrun timer 2 - 8 minutes ¹⁾	yes ²⁾	yes ²⁾			run on time ²⁾ by ZT, ZNE, ZNI (acc.)	run on time ²⁾ by ZT, ZNE, ZNI (acc.)
Electric shutter			yes	yes		yes
Air flow volume (FID) in m^3/h ³⁾	95	95	95	95	95	95
Impeller diameter $\varnothing \text{ mm}$	93	93	93	93	93	93
R.P.M.	2550	2550	2550	2550	2550	2550
Voltage/Frequency 50/60 Hz	230 V	230 V	230 V	230 V	12 V	12 V
Power Watts	14	17	17	20	14	18
Current Amps.	0.10	0.12	0.12	0.14	1.6	1.8
Sound pressure level dB(A) at 1 m	44	44	44	44	44	44
Wiring diagram No.	SS-483	SS-484	SS-483	SS-484	SS-820	SS-820
Protection	IP 45	IP 45	IP 45	IP 45	IP 45	IP 45
Maximum air flow temperature	+50 °C	+50 °C	+50 °C	+50 °C	+50 °C	+50 °C
Weight in kg	0.55	0.56	0.60	0.62	0.55	0.60

¹⁾ delayed start of approximately 1 minute

²⁾ 3 core cable required

³⁾ determined with duct on exhaust, length 2 x diameter

HVR 150



■ The HelioVent® fans are designed to ventilate smaller to mid-sized domestic, commercial and industrial rooms.

■ The fan with ball bearings as standard guarantees

- Installation in any position.
- Quiet and reliable performance under continuous operation.
- Maintenance free for life.

■ **Features**

- Front grille can be removed and easily cleaned in soapy water.
- Small depth avoids possible installation difficulties.
- Suitable for wall, window and ceiling installation in any position.
- 100 % speed controllable.
- Motor protection through built-in thermal contacts.

■ **Specification**

The traditional design blends well in any room. All parts, including fan casing and impeller are made from high quality polymer. White fascia. Built-in neon light indicates operation. High volume and pressure characteristic using a 8 bladed impeller and guide vanes.

Totally enclosed, maintenance free running low noise ball bearing motor, sealed for life, radio suppression, suitable for continuous operation. Installation in any position. Contact safety to DIN EN ISO 13857.

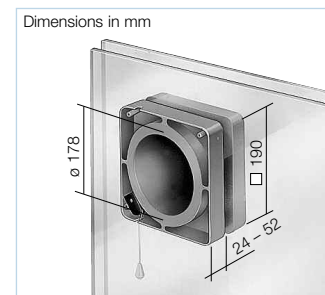
The electrical supply cables to the unit may be recessed or surface mounted.

Other accessories	Page
Roof outlets and grilles	361 on
Air intake	384 on
Speed controllers, switches and run-out timer	397 on

Window mounting kit

FES 150 Ref. No. 0463

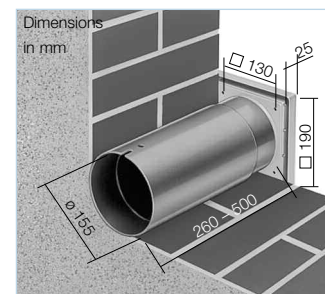
For installation with all models, preferably models with electrical internal shutter. Suitable for single and double glazed windows as well as thin walls and panels. Wall termination through flat rain repellent grille with fixed blades. Controllable with pull cord supplied, or by a remote switch, to be installed on site.



Wall mounting kit

WES 150 Ref. No. 0537

For flush mounted wall installation; contents: Two telescopic polymer sleeves adjustable on wall thickness and wall termination that can either be mounted with a gravity shutter or on the HVR.. E models with a rain repellent grille. Supplied with both elements as standard.



Telescopic wall sleeve

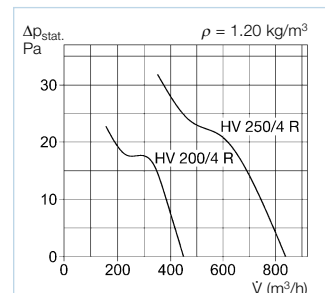
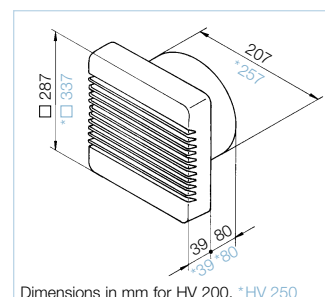
TWH 150 Ref. No. 6354

As WES, however without back draught louvre shutter and grille.

Type	HVR 150/4	HVR 150/4 E	HVR 150/2	HVR 150/2 E	HVR 150/2 RE
Ref. No.	0282	0283	0284	0285	0286
Built-in electric shutter		yes		yes	yes
Air flow reversible					DSEL 2¹⁾ Ref. No. 1306
Air flow volume (FID) in m³/h	180	180	260	260	360
Impeller-ø mm	140	140	140	140	140
R.P.M.	1300	1300	1800	1800	2600
Voltage/Frequency	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz
Power Watts	24	30	30	35	50
Current Amps	0.18	0.20	0.14	0.15	0.25
Sound pressure level dB(A) at 1 m	46	46	58	58	64
Wiring diagram No.	SS-283	SS-283	SS-283	SS-283	SS-284.1
Protection class II, protection to	IP 44	IP 44	IP 44	IP 44	IP 44
Maximum air flow temperature	+40 °C	+40 °C	+40 °C	+40 °C	+40 °C
Weight in kg	1.2	1.2	1.4	1.4	1.5

¹⁾ 3 core cable required for reverse operation

HV 200 and HV 250



■ **HelioVent®. The traditional design blends well in any stylish room: In living and dining room, in offices and conference rooms, restaurants or foyers.**

Universal in operation. Reversible for ventilation and extraction. Installation in wall, ceiling or any angle.

■ HelioVent® at a glance

Compact, quiet fan unit. These are the 4 essential advantages of the new innovative shape:

- HelioVent® matches every location inconspicuously.
- No view of the fan interior if it gets dirty.
- High air flow and low air noise through low resistances.
- Easy to care for. Facia is removable with one hand to be cleaned easily in soapy water.

■ Installation – Electrical connection

The installation is simple and done within minutes. Easy electrical connection through well-tried screwless clamps and large cable storage reduce effort to a minimum. Cable can be inserted flush or on the surface.

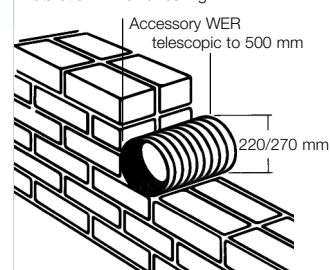
■ Speed control

Speed controllable from 0 – 100% through voltage reduction with an electronic or transformer controller.

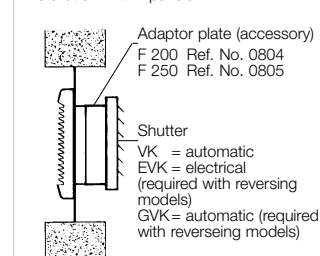
■ Specification

- Facia and fan casing from high quality, impact resistant white polymer.
- Totally enclosed, powerful motor with high efficiency. Corrosion-resistant in an aluminium die-cast casing, protected against dust and water (protection to IP 54). With tropical protection of windings and insulation to ISO class B.
- Overload protection through built-in thermal contacts (self resetting)
- Noise resistant ball bearings ensure quiet operation.
- Large terminals (protection to IP 55) and extra cable storage make installation easier.
- Impeller specifically designed for high performance with high efficiency and quiet operation.
- Maintenance free and radio suppressed.
- Contact safety to DIN EN ISO 13857 through facia.
- Easy installation and service.

Installation in wall or ceiling



Installation in thin panels



Other accessories	Page
Roof outlets and grilles	361 on
Air intake	384 on
Speed controllers, switches and run-out timer	397 on

Type	HV 200/4 R	HV 250/4 R
Ref. No.	0957	0958
Air flow reversible	yes	yes
Air flow volume (FID) in m³/h	450	840
Impeller-ø mm	200	250
R.P.M.	1360	1380
Voltage/Frequency	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz
Power Watts	30	40
Current Amps	0.13	0.20
Sound pressure level dB(A) at 15 Pa at 1 m (freefield condition)	52	55
Sound power dB(A)	60	63
Wiring diagram No.	SS-439	SS-439
Protection to	IP 54	IP 54
Maximum air flow temperature	+40 °C	+40 °C
Weight in kg	2.1	2.6

Accessories Specification	Fan-type	HV 200	HV 250
Wall sleeve for flush mounted wall installation	Type Ref. No.	WER 200 0368	WER 250/225 0369
Air stream operated shutter for extraction only	Type Ref. No.	VK 200 0758	VK 250 0759
Twin swing shutter ventilation and extraction	Type Ref. No.	GVK 200 0370	GVK 250 0371
Reversing switch (for ventilation and extraction)	Type Ref. No.	DSEL 2 ¹⁾ 1306	DSEL 2 ¹⁾ 1306
Reversing speed controller for stepless variable speed	Type Ref. No.	BSX 0240	BSX 0240
Electronic speed controller Flush mounting in mm ø 57; D 34	Type Ref. No.	ESU 1 0236	ESU 1 0236
Electronic speed controller Surface mounting	Type Ref. No.	ESA 1 0238	ESA 1 0238

¹⁾ 4 core cable required for reverse operation

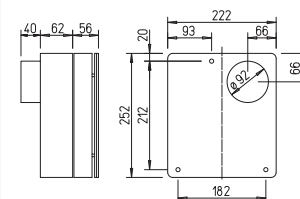
Centrifugal fan DX
With exhaust spigot \varnothing 100 mm



DX..

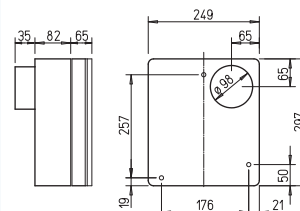


DX 200



Dimensions in mm

DX 400



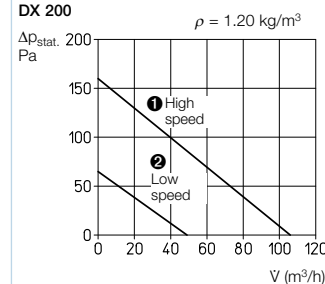
Dimensions in mm

■ **Attractive design with the concealed intake opening characterises the universal models DX...**
This range is powerful, easy to install and suitable for ventilation of rooms in both private and commercial applications.

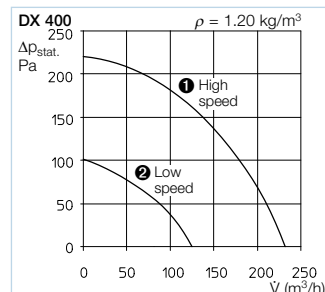
- **Specification**
- User friendly controls allow the unit to meet individual requirements for room conditions.
 - Easy installation in any position. Flush installation possible by removing the outer casing.
 - Exhaust spigot suitable for connection to \varnothing 100 mm ducting.
 - Easily removable front for cleaning and maintenance.
 - All models with integrated back-draught shutter.
 - Maintenance free motor with thermal overload protection.

Other accessories	Page
Flexible ducting roof outlets and grilles	361 on
Intake air element	384 on
Speed controllers, switches and overrun timers	397 on

DX 200



DX 400



Technical information

Type	DX 200	DX 400
Ref. No.	1703	1706
Operation	Two speed operation possible using operation switch MVB, Ref. No. 6091.	Two speed operation possible using operation switch MVB, Ref. No. 6091.
Air flow volume on level static m³/h¹⁾	1 110 2 50	1 230 2 125
R.P.M.	2400	1500
Voltage/frequency	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz
Power watts	34	78
Current Amps	0.14	0.29
Sound pressure level at 1 m dB(A) ¹⁾	55 39	59 46
Wiring diagram No.	SS-693.1	SS-696.1
Protection class	IP X5	IP 25
Maximum air flow temperature	+40 °C	+40 °C
Weight in kg	1.7	2.6

¹⁾ data depending on speed levels.


Axial in-duct fans are a space saving solution for smaller to medium air flows against low resistances. They can be installed in any position and are suitable for insertion in ducting. Suitable for many applications like room ventilation, cooling, drying etc.

The use of axial in-duct fans is perfect, if smaller to medium air flows against low resistances are required and an installation in the room is not suitable. The sound levels are reduced through installation outside of the room.

The time and effort for installation is remarkably low: REW is simply inserted into the ducting. Ensure that the fan is accessible for service.

The Helios axial in-duct fans are supplied with high quality long running ball bearings which guarantee a maintenance-free continuous operation and make the installation in any position possible.

Available for duct diameter from 100 to 200 mm and air flow rates up to 930 m³/h.



In ducts of all kind simply insertable.

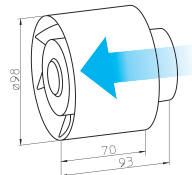
■ Operation

Axial fans for smaller to medium air flows against low resistances. Suitable for many applications like room ventilation, cooling, drying etc.

■ Installation

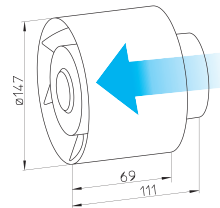
Installation in any position. Air flow direction depending on installation. Suitable for insertion in ducting. Please note that pressure drops and resistances of ducting must be considered. For higher resistances centrifugal fans should be considered. Electrical connection on motor end cap. Ensure that fan is accessible for service.

REW 90 K



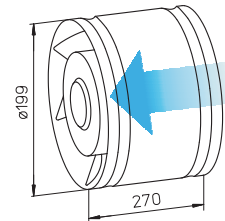
All dimensions in mm

REW 150/2



All dimensions in mm

REW 200



All dimensions in mm

■ Specification

To be installed into ducting with nominal size \varnothing 100 mm. Casing of impact resistant polymer incorporating guide vanes. High pressure profiled 5 blade impeller of polymer. Ball bearing motor with thermal overload protection, maintenance free and suitable for continuous operation. Terminals in motor cap.

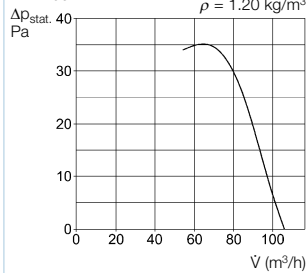
■ Specification

To be installed into ducting with nominal size \varnothing 150 mm. Casing of impact resistant polymer incorporating guide vanes. High pressure profiled 8 blade impeller of polymer. Reversible ball bearing motor with thermal overload protection, maintenance free and suitable for continuous operation. Terminals in motor cap.

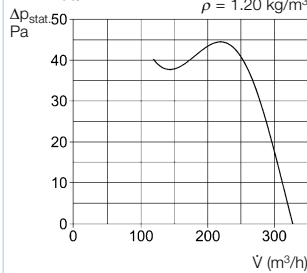
■ Specification

To be installed into ducting with nominal size \varnothing 200 mm. Casing with two stiffening rings made from galvanised steel. High pressure profiled 7 blade impeller of polymer. Enclosed reversible ball bearing motor with thermal overload protection, tropical protection of windings and radio suppression, maintenance free and suitable for continuous operation with aluminium die-cast casing. Terminals in motor cap.

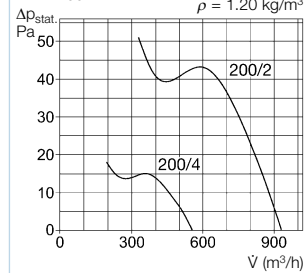
REW 90 K



REW 150/2



REW 200



Type	REW 90 K	REW 150/2	REW 200/4	REW 200/2
Ref. No.	0441	0440	7504	7505
Air flow reversible	no	DSEL 2 ¹⁾ Ref. No. 1306	DSEL 2 ²⁾ Ref. No. 1306	DSEL 2 ²⁾ Ref. No. 1306
Air flow volume (FID) in m³/h	105	330	550	930
Impeller- \varnothing in mm	93	140	200	200
R.P.M.	2320	2100	1350	2280
Voltage/Frequency	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz	230 V / 1 ph. / 50 Hz
Power Watts	15	29	40	70
Current Amps	0.10	0.13	0.28	0.33
Sound pressure level dB(A) at 1 m	45	56	44	57
Wiring diagram No.	SS-479	SS-478	SS-439	SS-439
Protection to	IP 55	IP 44	IP 54	IP 54
Max. air flow temperature	+40 °C	+40 °C	+50 °C	+50 °C
Weight in kg	0.46	1.1	2.0	2.5

¹⁾ 3 core cable required for reverse operation ²⁾ 4 core cable required for reverse operation

■ Accessories

Speed controller with reversing switch (not available for REW 90 K)
BSX Ref. No. 0240

Other accessories	Pages
Flexible ducting, roof outlets and grilles	361 on
Air intake and extract elements, valves	374 on
Speed controllers, switches and run-on timer	397 on