Horizontal and vertical outlet roof fans
Ø 710 mm, RD, VD and VD T120

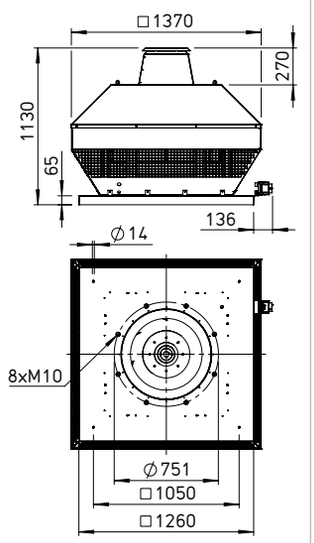
Horiz. outlet RD 710



Vert. outlet VD 710 / T120

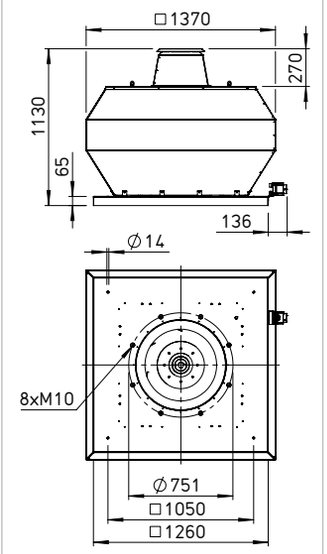


Dimensions RD 710



Dim. in mm

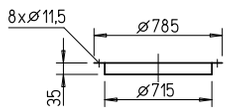
Dimensions VD 710 / T120



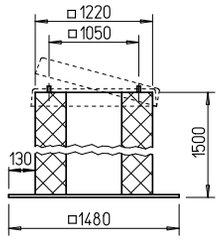
Dim. in mm

Dimensions Accessories for RD / VD 710*

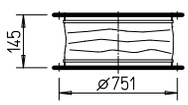
Counter flange
FR 710 Ref. no. 01212



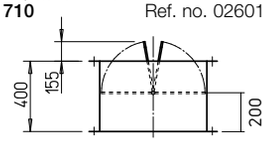
Base silencer
SSD 710 Ref. no. 05287



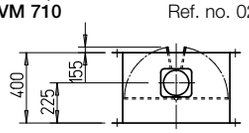
Flanged flexible connector*
STS 710 Ref. no. 01229



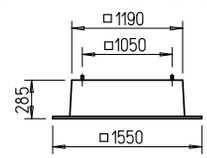
Shutter, automatic **
RVS 710 Ref. no. 02601



Shutter, motorised **
RVM 710 Ref. no. 02610



Flat roof base
FDS 710 Ref. no. 06658



Dim. in mm

* Accessories VD T120 see installation accessories p. 561 f. Other accessories upon request.
** When used directly under FDS or SSD, an intermediate piece is required (VR 710 K Ref. no. 01429).

Description RD

Horizontal outlet roof fan with efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

Description VD

Vertical outlet roof fan with efficiency-optimised aluminium casing and newly developed high-performance centrifugal impeller.

Description VD T120

Designed for the delivery of process air up to +120 °C. Enclosed motor located outside of the air flow. Compliant with VDI 2052.

Description of all series

Casing
Casing made of sea water-resistant aluminium with integrated tamper protection. Motor support plate and base plate with inlet nozzle made of galvanised steel. Base plate with threaded screws for attachment of inlet-side accessories (hole pattern according to DIN 24155).

Impeller
High-performance centrifugal impeller with backward curved blades made of aluminium. Dynamically balanced according to DIN ISO 21940-11 – quality grade 6.3.

Drive
Speed-controllable external rotor motor in closed design (IP54). Flange motor with self-ventilation (T120 version) in IP55. Ball bearing mounted with moisture protection. Maintenance-free.

Motor protection
Through built-in thermal contacts or built-in PTC thermistors, which must be connected to a motor protection circuit breaker. Assignment see type table.

Electrical connection
No dismantling of casing, to external isolator switch in protection category IP65.

Protection grille
On the outlet side as standard according to DIN EN ISO 13857.

Power control
All types have continuously variable speed control in the range from 0 – 100 % with a frequency inverter with integrated, all-pole effective sine filter.

Delivery
Units are ready-for-connection, fully pre-assembled in the shipping box.
Easy positioning due to standard crane hook.

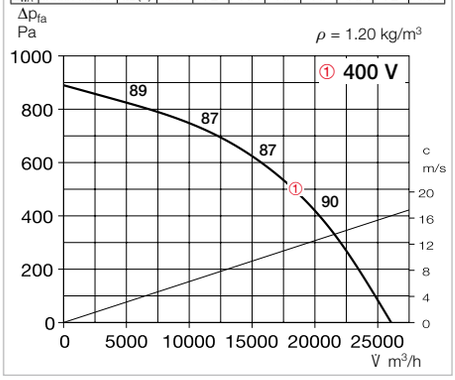
Noise
The total level and range are specified above the performance diagram for:
- ☐ Inlet side sound power
- ☐ Outlet side sound power.

The horizontally case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

References	Page
Planning information	14 ff.
Technical description	502 f.
Selection table	504 f.
Accessories, details	560 f.
Speed controllers, controllers and switches	601 ff.

Performance curve RDD 710/6

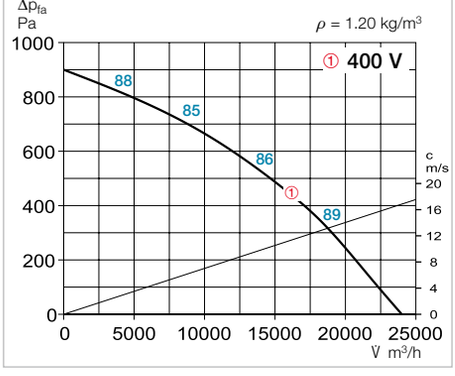
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	83	72	75	75	76	78	72	63
L_{WA}	Outlet side	dB(A)	87	72	75	75	76	78	72	63



Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Motor protection circuit breaker	Ref. no.	Speed controller 5-step / Frequency inverter	Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	**Type**		**Type**	
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
RDD 710/6	07460	980	26066	70	4300	9.4	—	1130	50	40	187.0	**MSA**	01289	**FU-BS 16**	05463

Performance curve VDD 710/6

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Inlet side	dB(A)	82	71	74	74	75	77	71	62
L_{WA}	Outlet side	dB(A)	86	74	76	79	80	81	73	65



Type	Ref. no.	Speed	Flow rate Free blowing	Noise sound pressure	Power consump.	Current consump. at rated voltage	Current consump. with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Motor protection circuit breaker	Ref. no.	Speed controller 5-step / Frequency inverter	Ref. no.
		min⁻¹	m³/h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	**Type**		**Type**	
Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54															
VDD 710/6	07458	985	23800	69	4270	9.4	—	1130	60	—	185.0	**MSA**	01289	**FU-BS 16**	05463
T120 **Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP55**															
VDD 710/6 T120[1)]	07466	985	24536	69	4270	9.4	9.4	1130	106	—	185.0	**MSA**	01289	**FU-BS 16**	05463

[1)] Performance diagram at www.HeliosSelect.de.