

**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 and radio interference-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.

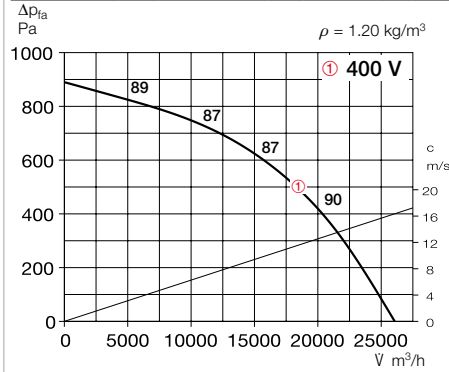
The horizontally case-radiated noise as sound pressure at 4 m (free field conditions) is also specified in the type table.

References	Page
Planning information	14 ff.
Technical description	500 f.
Selection table	502 f.
Accessories, details	558 f.
Speed controllers, controllers and switches	599 ff.

\* Accessories VD T120 see installation accessories p. 559 f. Other accessories upon request.  
 \*\* When used directly under FDS or SSD, an intermediate piece is required (VR 710 K Ref. no. 01429).

**Performance curve RDD 710/6**

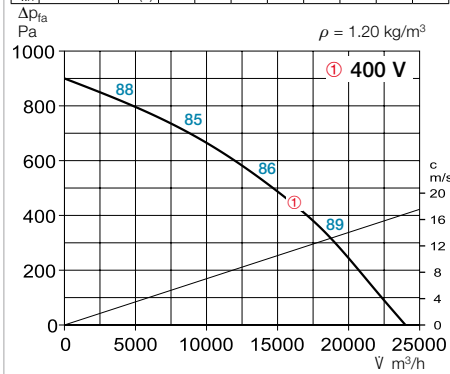
Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet side	dB(A)	83	72	75	75	76	78	72	63
L <sub>WA</sub> Outlet side	dB(A)	87	72	75	75	76	78	72	63



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

**Performance curve VDD 710/6**

Frequency	Hz	Tot.	125	250	500	1k	2k	4k	8k
L <sub>WA</sub> Inlet side	dB(A)	82	71	74	74	75	77	71	62
L <sub>WA</sub> 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.		Wiring diagram	Max. air flow temp.		Weight net	Motor protection circuit breaker		Speed controller 5-step / Frequency inverter	
						at rated voltage	with control		at rated voltage	with control		Type	Ref. no.	Type	Ref. no.
		min <sup>-1</sup>	m <sup>3</sup> /h	dB(A) in 4 m	W	A	A	No.	°C	°C	kg	Type	Ref. no.	Type	Ref. no.
<b>Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP54</b>															
<b>VDD 710/6</b>	07458	985	23800	69	4270	9.4	—	1130	60	—	185.0	<b>MSA</b>	01289	<b>FU-BS 16</b>	05463
<b>T120 Three phase current, 3~, 400 V, 50 Hz, Squirrel-cage rotor, Protection category IP55</b>															
<b>VDD 710/6 T120</b> <sup>1)</sup>	07466	985	24536	69	4270	9.4	9.4	1130	106	—	185.0	<b>MSA</b>	01289	<b>FU-BS 16</b>	05463

<sup>1)</sup> Performance diagram at www.HeliosSelect.de.