

Fan-characteristic

operation point: 1

13.9.9.0. (f)

VR 63 S10 C1 U R 0630

V [m³/s]: 7,08

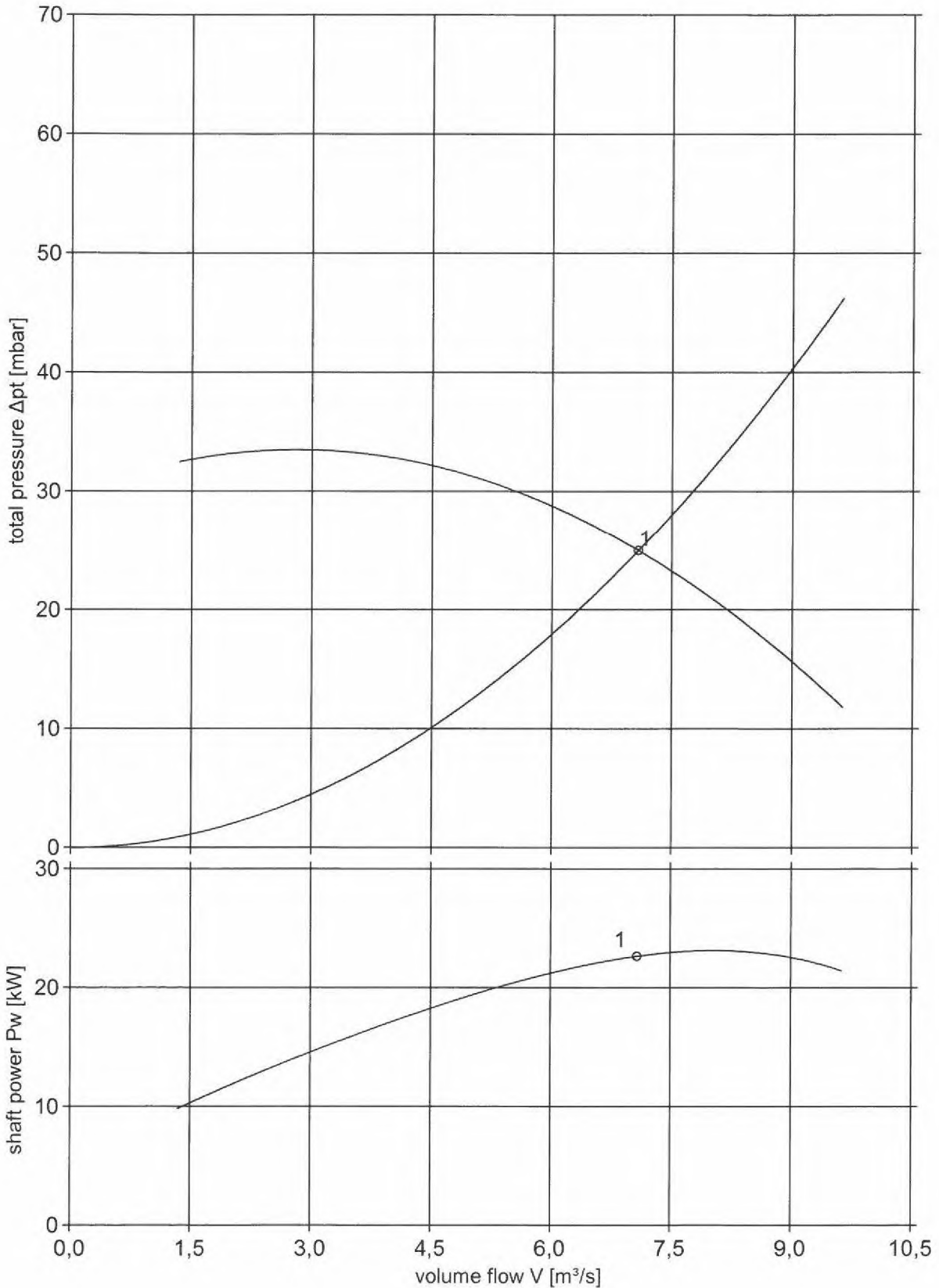
Δpt [mbar]: 25,00

Rho [kg/m³]: 0,659

n [1/min]: 3061

operative diameter: 631

Pw [kW]: 22,6



Sound technical details

Fan-Type: **VR 63 S10 C1 U R 0630**

Volume flow 13000,0 Nm³/h
7,1 m³/s
Total pressure rise 25,00 mbar
Operating density 0,659 kg/m³
Rotational speed 3061 1/min
Number of blades 14
Circular frequency 714 Hz
Max. temperature 280 °C
Diameter cooling disc(s) 315 mm

without casing insulation

Octavo-level (A-evaluated) [dB]								
fm [Hz]	LwA	LwA(K)D	LwA(K)S	LwA(U)	LwA(Kü)	LwA(U)o	LpA	LpA(S)
63	80	77	77	65	60	63	51	67
125	91	88	88	79	76	76	65	78
250	98	95	95	89	87	85	75	85
500	103	100	100	97	95	92	83	90
1000	105	102	102	100	98	95	86	93
2000	100	97	97	99	98	91	85	88
4000	96	93	93	95	95	87	81	83
8000	88	85	85	88	88	80	74	76
Sum	109	106	106	104	103	98	90	96

- LwA = Sound power level
- LwA(K)D = Sound power level - outlet
- LwA(K)S = Sound power level - inlet
- LwA(U) = Sound power level outside the fan
- LwA(Kü) = Sound power level of the cooling disc(s)
- LwA(U)o = Sound power level without cooling disc(s)
- LpA = 1m sound pressure level outside the fan, according DIN 45635
- LpA(S) = Sound pressure level with 1m/45° desist from open suction inlet

The sound technical data accord with VDI 3731 and are measured according to DIN 45635, in-duct or enveloping surface method.

The measuring surface sound pressure level LA is only valid, when the sound of the connected ductwork is at least 8 dB under the mentioned level of the fan.

The soundpressure data are only valid for open air space.

Sound of motors, bearings and belt-drives are not taken into consideration.

The tolerance of the mentioned levels is according to DIN 24166, Toleranceclass 2.

Sound technical details

Fan-Type: **VR 63 S10 C1 U R 0630**

Volume flow	13000,0 Nm ³ /h 7,1 m ³ /s
Total pressure rise	25,00 mbar
Operating density	0,659 kg/m ³
Rotational speed	3061 1/min
Number of blades	14
Circular frequency	714 Hz
Max. temperature	280 °C
Diameter cooling disc(s)	315 mm

The levels apply to a 100 mm insulation, 1 mm St

Octavo-level (A-evaluated) [dB]								
fm [Hz]	LwA	LwA(K)D	LwA(K)S	LwA(U)	LwA(Kü)	LwA(U)o	LpA	LpA(S)
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Motor data

Fan type: VR 63 S10 C1 U R 0630

Motor type: 225 S
 Motor power: 37,0 kW
 Rotational speed: 1475 1/min
 Motor-moment of inertia: 0,4 kgm²
 Motor weight: 265,0 kg

Torque

Fan moment of inertia: 2,0 kgm²
 Fan rotational speed: 3061 1/min

Temperature: 250 °C
 Operation density: 0,659 kg/m³
 Power requirement: 22,64 kW
 Fan-torque: 70,6 Nm

