

HF - radial fan direct driven

Corrosion- resistant plastic radial fan, single inlet, housing in flame retarding PPs-el, injection- moulded and tight welded version, with sealing and grease-barrier on the shaft passage. Impeller in electrical- conductive PPs-el with vanes mounted on the back of the impeller for relief on shaft passage. All parts exposed to exhaust air are made of plastic or encapsulated by plastic. Motor encapsulated against the medium, with overload protection over the entire power range. Fan frame made of powder- coated steel sheet for mounting on horizontal ground.

make : **Hürner Luft - und Umwelttechnik**
type : **HF R 75-16 D / DS**

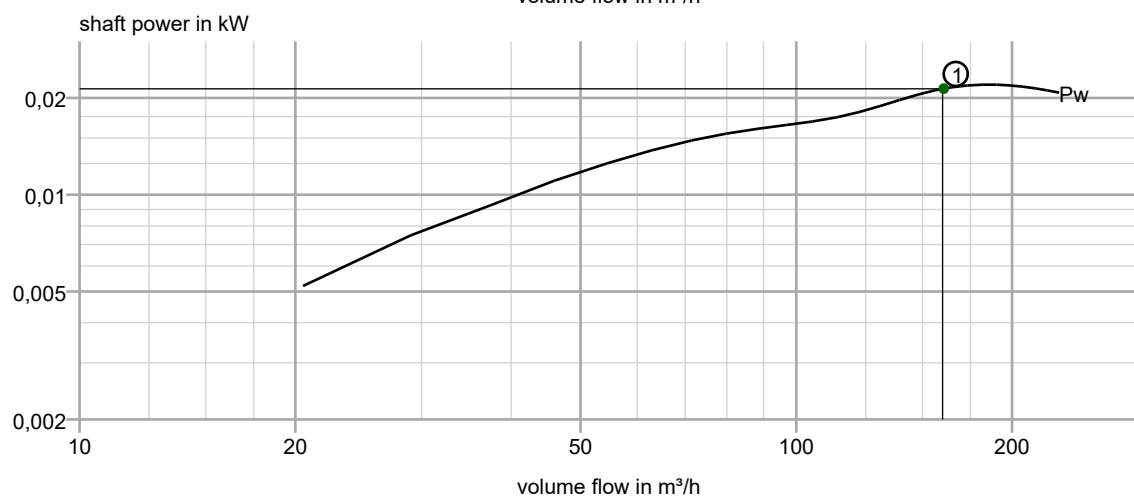
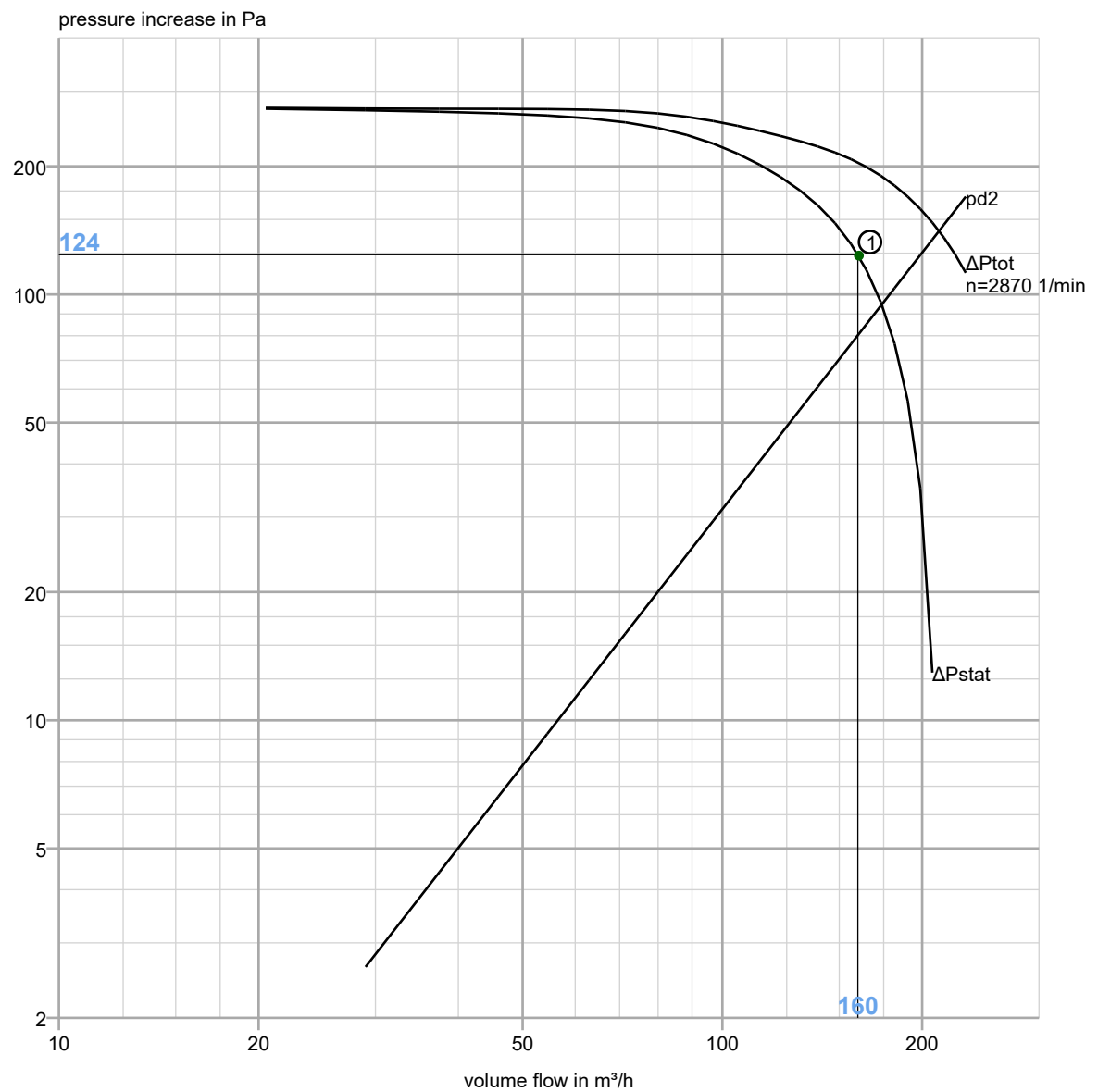
Housing-material : PPs-el
Impeller-material : PPs-el
housing position : GL 360
inlet diameter : 75 mm
discharge medium : air
ambient pressure : 101,325 kPa
medium temperature : 20 °C
Saugseitige Mediendichte : 1,204 kg/m³

volume flow : 160 m³/h
total pressure difference : 204 Pa
static pressure difference : 124 Pa
operating speed : 2870 1/min
max. speed impeller : 3591 1/min
zul. Medientemperaturbereich : 0 / 40 °C
fan control (on site) : -
operating frequency : 50 Hz
flow-velocity : 11,5 m/s
circumferential speed : 18,8 m/s
sound pressure level Lp2A (1 m) : 56 dB(A)
sound pressure level Lp2A (1 m)* : 68 dB(A)
sound power level Lw6A : 65 dB(A)
impeller efficiency : 42,5 %
SFP (specific fan power) : 795 [3] W/(m³/s)
power requirements at the shaft : 0,021 kW

motor power : 0,18 kW
speed motor : 2870 1/min
voltage : 3~ 230/400 V
power freq. : 50 Hz
rated current : 0,6 A
design/size : IM B34 C80 / 63A
Enclosure/motor protection IP 55/-
Ex classification : e II 2G Ex eb IIC T4 Gb
motor suitable for VFD : no
addition : -
motor efficiency : IE2

ATEX

Ventilator Ex-Bezeichnung : **CE** II 2G Ex h IIB T3 Gb
inner demand : category 2 (Zone 1)
temperature class : T3 (200 °C)
outer demand : category 2 (Zone 1)
temperature class : T3 (200 °C)

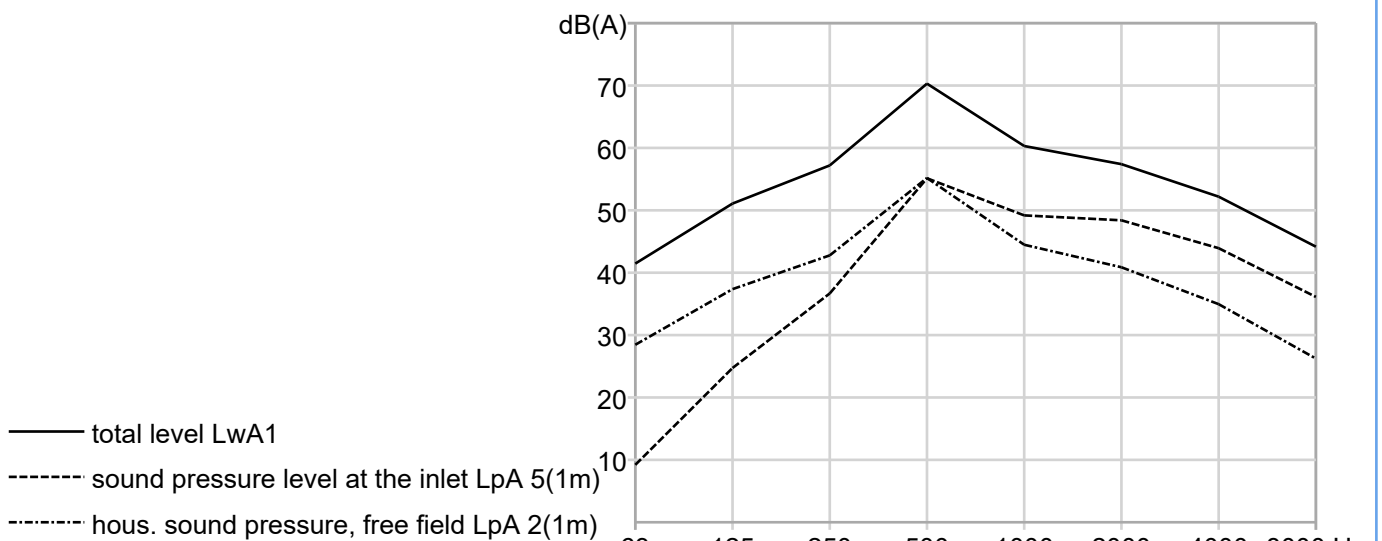


sound data

make	: Hürner Luft - und Umwelttechnik										
type	: HF R 75-16 D / DS										
housing	: PPs-el 2,5 mm	volume flow	: 160							m³/h	
inlet diameter	: 70 mm	total pressure difference	: 204							Pa	
outlet opening	: 70 mm	medium temperature	: 20							°C	
operating speed	: 2870 1/min	medium density	: 1,204							kg/m³	
number of blades	: 10	operat. point V/Vopt	: 1,32								
blade frequency	: 478 Hz	measuring surface	: 15							m²	
basic capacity (VDI 3731)		dB	75,9								
sound adjustment		dB	0								
octave band	Hz	total	63	125	250	500	1000	2000	4000	8000	
turning sound adjustment	dB		0	0	0	10	0	0	0	0	
Strouhal number	dB		0,4	0,8	1,7	3,3	6,7	13,3	26,6	53,2	
relative spectrum	dB		-8,2	-8,7	-10,1	-12,4	-15,6	-19,7	-24,7	-30,6	
linear total level	dB	75,9	67,7	67,2	65,8	73,5	60,3	56,2	51,2	45,3	
A-weighting	dB		-26,2	-16,1	-8,6	-3,2	0	1,2	1	-1,1	
housing insulation	dB		-1,2	-1,9	-2,6	-3,3	-4	-4,7	-5,4	-6,1	
total level	LwA 1 dB(A)	71	41	51	57	70	60	57	52	44	
housing level	LwA 2 dB(A)	68	40	49	55	67	56	53	47	38	
inlet level of the duct	LwA 3 dB(A)	71	41	51	57	70	60	57	52	44	
outlet level of the duct	LwA 4 dB(A)	71	41	51	57	70	60	57	52	44	
free inlet level	LwA 5 dB(A)	65	17	33	45	63	57	56	52	44	
free outlet level	LwA 6 dB(A)	65	17	33	45	63	57	56	52	44	
housing and free inlet level	LwA 7 dB(A)	70	40	49	55	69	60	58	53	45	
housing and free outlet level	LwA 8 dB(A)	70	40	49	55	69	60	58	53	45	
free outlet level	LwA 6 dB(A)	65 / 78		(without motor/with motor)							
haus. sound pressure, free field	LpA 2(1m) dB(A)	56 / 68		(without motor/with motor)							
sound level motor	LwA dB(A)	78									

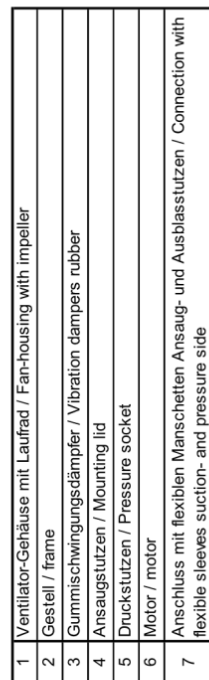
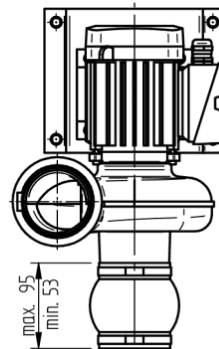
*Schallwert inkl. Motor

**Theoretischer Wert bezogen auf Ventilatorquerschnitt



Sound values without consideration of the motor
Subject to technical changes!

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internal ID:
V 1.1.5.0/25.03.2024 00:00:00



Art.-Nr.	Ventilator
367-010-020001	HFR 75-16 D (1500) DS-Ex, Zone 2
367-010-120000	HFR 75-16 D (1500) DS-Ex Kl, Zone 2
367-370-000001	HFR 75-16 D (1500) DS-Ex, Zone 1
367-370-120000	HFR 75-16 D (1500) DS-Ex Kl, Zone 1
367-010-040001	HFR 75-16 D (3000) DS-Ex, Zone 2
367-010-100000	HFR 75-16 D (3000) DS-Ex Kl, Zone 2
367-010-040002	HFR 75-16 D (3000) DS-Ex, Zone 2, alle außer GL360°
367-370-040001	HFR 75-16 D (3000) DS-Ex, Zone 1
367-370-100000	HFR 75-16 D (3000) DS-Ex Kl, Zone 1
367-370-000000	HFR 75-16 D (3000) DS-Ex, Zone 1, alle außer GL360°

Dimension sheet for standard design, accessory parts are not included. Dimensions in mm, dimensions and design are subject to change!