

project reference

customer : Krakowski Holding K Referenz : AG158616_25
customer's ref. : position : 1
commission : 89163_23 type : HF R 280-17 D (DS1)



HF - radial fan direct driven

complies with the European Ecodesign Directive ErP

Corrosion resistant plastic radial fan with PEs housing, RAL 7036, sintered, single inlet, inlet nozzle with seal as inspection opening, easy removal, condensate pipe at lowest point of the housing, splinter protection according to accident prevention rules as plastic coated wire mesh. Impeller with backward curved blades, statically and dynamically balanced, quality of balancing at least to G 6.3 (DIN ISO 21940-11), mounted with taper lock-bush on motor shaft. Fan frame in strong, welded steel construction, galvanized, with motor support plate. Fan frame suitable for mounting the housing with impeller and motor.

manufacturer : **Hürner Luft - und Umwelttechnik**
type : **HF R 280-17 D (DS1)**

Housing-material	:	PEs	
Impeller-material	:	PPs	
housing position	:	GR 360	
inlet diameter	:	280	mm
discharge medium	:	air	
ambient pressure	:	101,325	kPa
medium temperature	:	20	°C
suction side media density	:	1,198	kg/m³
volume flow	:	2500	m³/h
total pressure difference	:	701	Pa
static pressure difference	:	618	Pa
operating speed	:	1445	1/min
max. speed impeller	:	1965	1/min
Permissible media temperature range	:	0 / 60	°C
fan control (on site)	:	-	
operating frequency	:	50	Hz
flow-velocity	:	11,8	m/s
circumferential speed	:	36,8	m/s
sound pressure level Lp2A (1 m)	:	71	dB(A)
sound pressure level Lp2A (1 m)*	:	-	dB(A)
sound power level Lw6A	:	86	dB(A)
impeller efficiency	:	76,1	%
SFP (specific fan power)	:	1093 [3]	W/(m³/s)
power requirements at the shaft	:	0,638	kW
motor power	:	1,1	kW
speed motor	:	1445	1/min
voltage	:	3~ 230/400	V
power freq.	:	50	Hz
rated current	:	2,39	A
design/size	:	IM B5 / 90S	
Enclosure/motor protection	:	IP 55/PTC	
Ex classification	:	-	
motor suitable for VFD	:	yes	
addition	:	-	
motor efficiency	:	IE3	

Sound values without consideration of the motor *with motor for power frequency
Subject to technical changes!

date: 17.12.2025

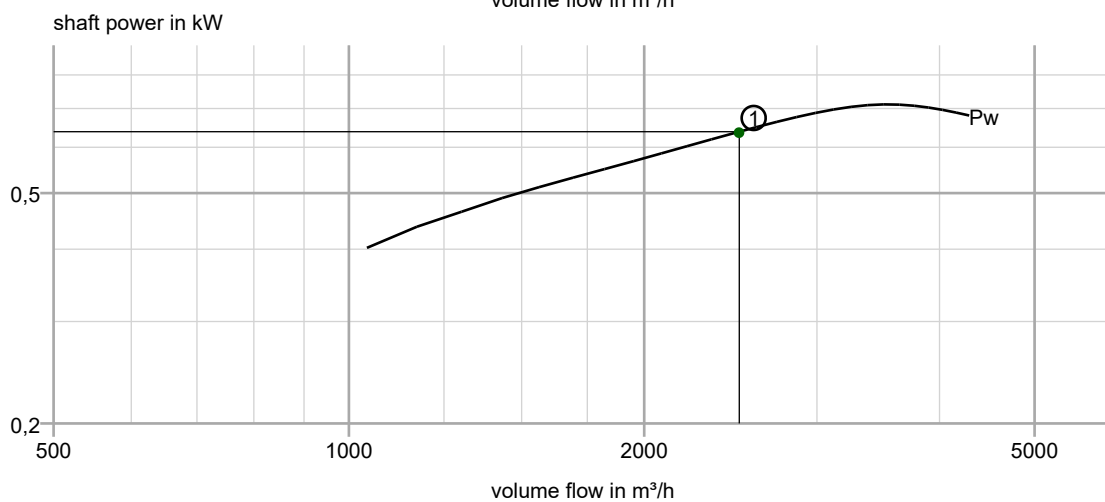
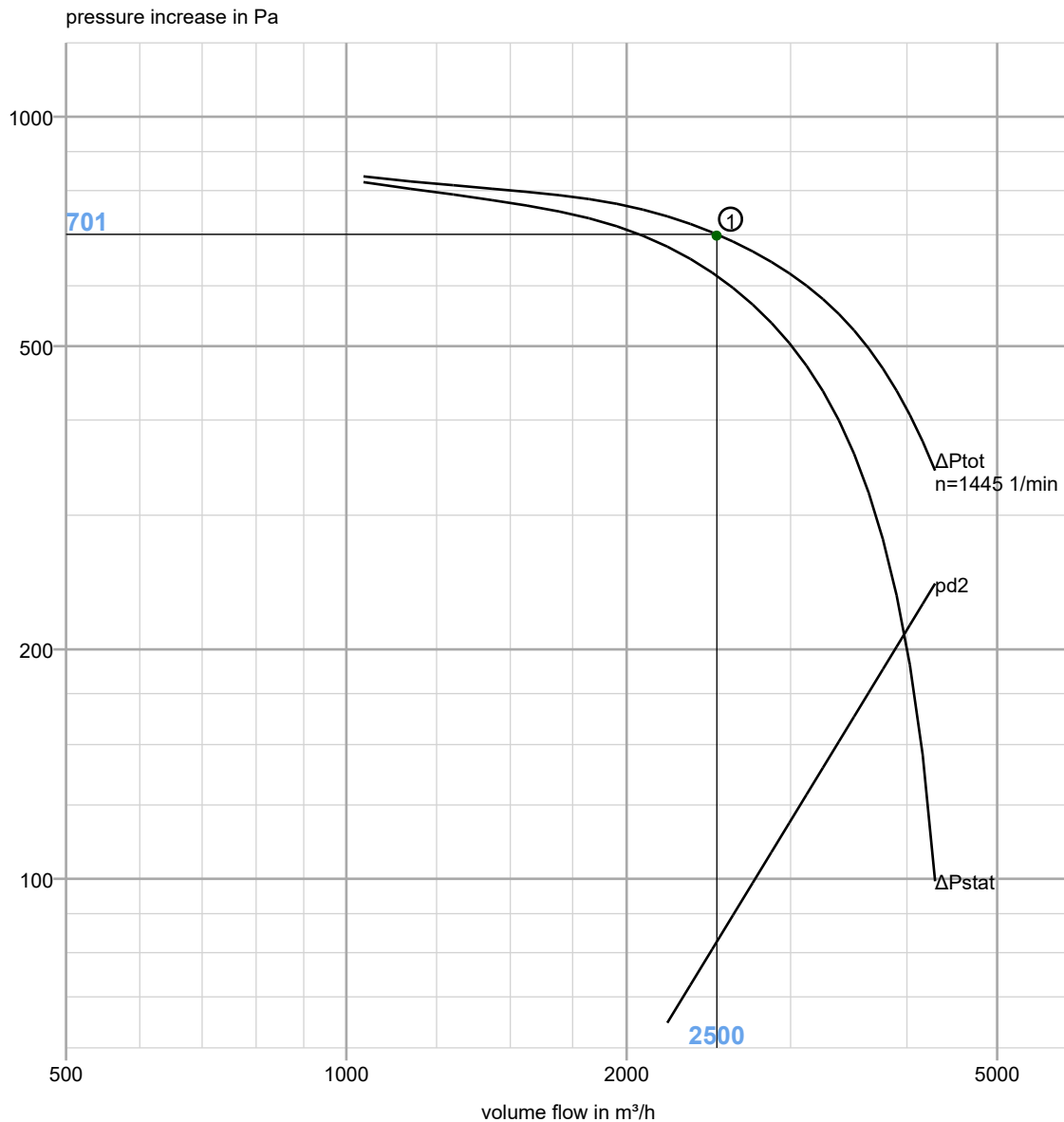
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Hürner Luft- und Umwelttechnik

sound data

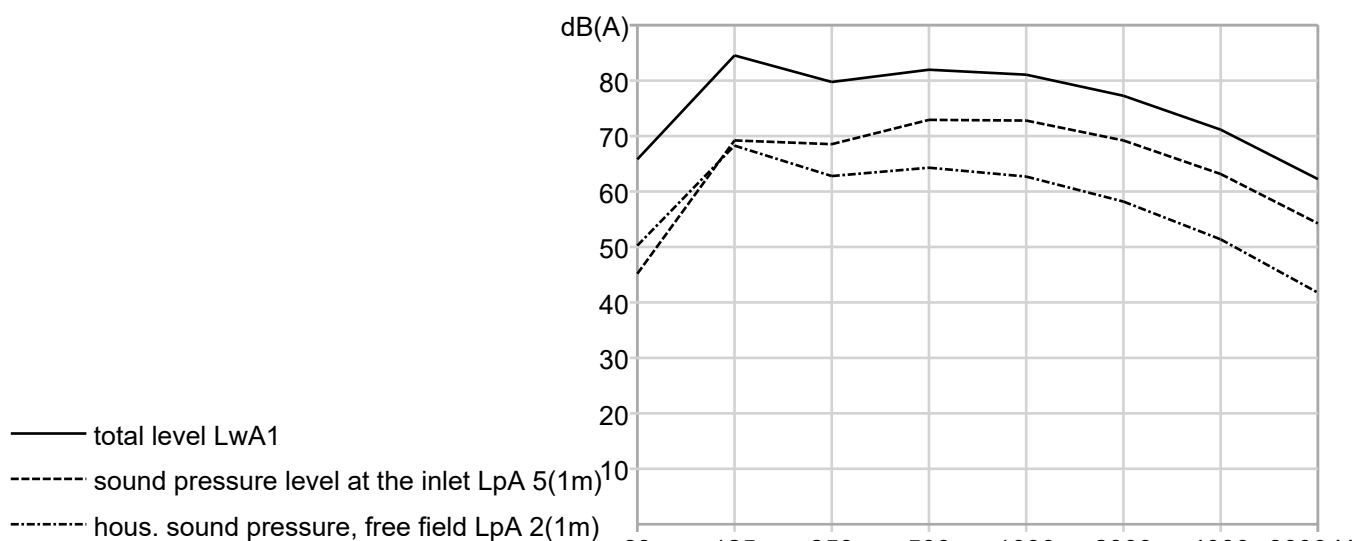
manufacturer : **Hürner Luft - und Umwelttechnik**
type : **HF R 280-17 D (DS1)**

housing	: PEs 3 mm	volume flow	: 2500	m³/h
inlet diameter	: 274 mm	total pressure difference	: 701	Pa
outlet opening	: 274 mm	medium temperature	: 20	°C
operating speed	: 1445 1/min	medium density	: 1,198	kg/m³
number of blades	: 6	operat. point V/Vopt	: 0,97	
blade frequency	: 144 Hz	measuring surface	: 27	m²

basic capacity (VDI 3731)		dB	101,6								
sound adjustment		dB	0								
octave band		Hz	total	63	125	250	500	1000	2000	4000	8000
turning sound adjustment		dB		0	10	0	0	0	0	0	0
Strouhal number		dB		0,8	1,7	3,3	6,6	13,2	26,4	52,9	105,7
relative spectrum		dB		-9,6	-10,9	-13,2	-16,4	-20,5	-25,5	-31,4	-38,2
linear total level		dB	101,6	92	100,6	88,4	85,2	81,1	76,1	70,2	63,3
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	-4,1	-4,8	-5,5	-6,2
total level	LwA 1	dB(A)	89	66	85	80	82	81	77	71	62
housing level	LwA 2	dB(A)	86	65	83	77	79	77	73	66	56
inlet level of the duct	LwA 3	dB(A)	89	66	85	80	82	81	77	71	62
outlet level of the duct	LwA 4	dB(A)	89	66	85	80	82	81	77	71	62
free inlet level	LwA 5	dB(A)	86	53	77	77	81	81	77	71	62
free outlet level	LwA 6	dB(A)	86	53	77	77	81	81	77	71	62
housing and free inlet level	LwA 7	dB(A)	89	65	84	80	83	82	78	72	63
housing and free outlet level	LwA 8	dB(A)	89	65	84	80	83	82	78	72	63
free outlet level	LwA 6	dB(A)	86 /	-	(without motor/with motor)						
hous. sound pressure, free field LpA 2(1m)	dB(A)	71 /	-	(without motor/with motor)							
sound level motor	LwA	dB(A)	-								

*Schallwert inkl. Motor

**Theoretischer Wert bezogen auf Ventilatorquerschnitt



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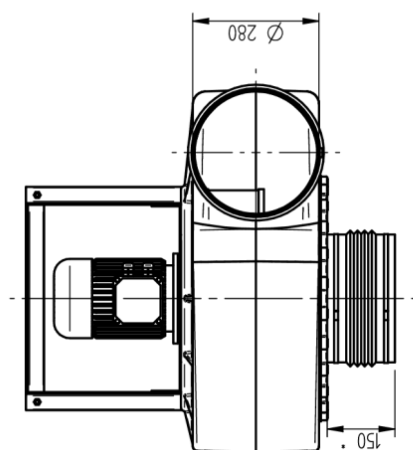


Hürner Luft- und Umwelttechnik GmbH
Ernst-Hürner-Strasse
35325 Mücke-Atzenhain
Germany

Fon: +49 (0) 64 01/91 80-0
Fax: +49 (0) 64 01/91 80-142
info@hlu.eu
www.hlu.eu

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Werkschleifensurface RA7036		9 Splitterschutz Sinter protection	
Werkschleifmaterial PE-FR / PP-FR (optional other material)			
Hünor Luft- und Umwelttechnik GmbH D-30255 Mieste, Aachen Fon: +49 64 51 / 91 80 - 0 Fax: +49 64 51 / 91 85 - 142		Projektion / viewing 	
Allgemeine toleranz general tolerance DIN ISO 2768-m		Auftrags-Nr. application: Maßstab/scale 1:10 Ausf./exec. direkt/gerneben Blatt 1 Blätter: 1 Änderung nur über CAD / Change only by CAD Gewicht/weight -40 kg	
Datum/date Erh. 06.01.2014 Zeich. Kratz Sign.		Bezeichnung/description: HF R 280 -17D DS1, GR360°, Mbg:90	
Änderung/Change Datum/date Unters.		Zeichnungs-Nr./drawing-no. HF R 280 -17D	
 Hünor Luft- und Umwelttechnik		Index A3	

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* empfohlener Rohrabstand / recommended distance between pipes 55mm

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