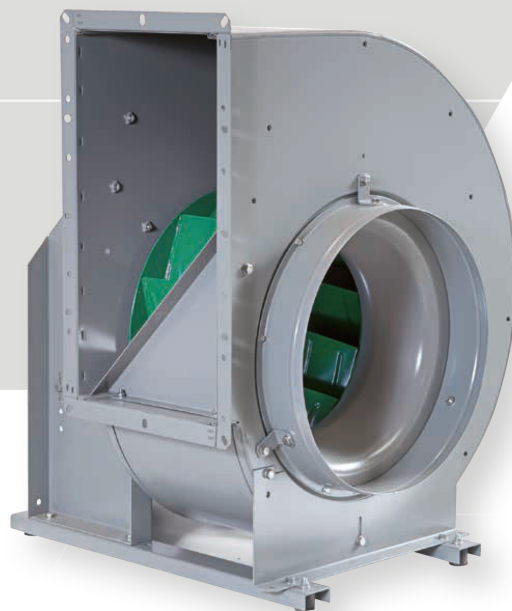


CENTRIMASTER GT-1

DIRECT DRIVEN, SINGLE INLET CENTRIFUGAL FANS

TECHNICAL CATALOGUE



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GENERAL DESCRIPTION

The CentriMaster GTLB-1 and GTLF-1 are direct driven, single inlet centrifugal fans. The range covers air flows up to 9 m³/s (32 400 m³/h) and pressure rises up to 3 000 Pa with GTLB-1 and up to 1.1 m³/s (3 960 m³/h) and pressure rises up to 1 600 Pa max with GTLF-1. The fan series consists of centrifugal fans available with two types of impeller:

- Impeller with backward curved blades for the GTLB fans
- Impeller with forward curved blades for the GTLF fans

VERSIONS

STANDARD VERSION

The GTLB-1 and GTLF-1 fans are rated for continuous operation at temperatures up to +80° C if the inlet of the fan is connected to the ducting. If the motor is exposed to the air stream, i.e. on a free inlet fan, the ambient temperature must not exceed +40° C.

HIGH TEMPERATURE VERSION

The high temperature (HT) version is used for smoke extraction purposes. It has been tested and certified to withstand 400 °C for 2 hours by SP Technical Research Institute of Sweden, conforming with the standard EN 12101-3.

Only GTLB-1 fans are available as high temperature version.

See specification text on page 40.

ATEX VERSION

The ATEX version is used in potentially explosive atmospheres according to Directive 2014/34/EU using Ex de motors.

Only GTLB-1 fans are available as ATEX version.

See specification text on page 40.



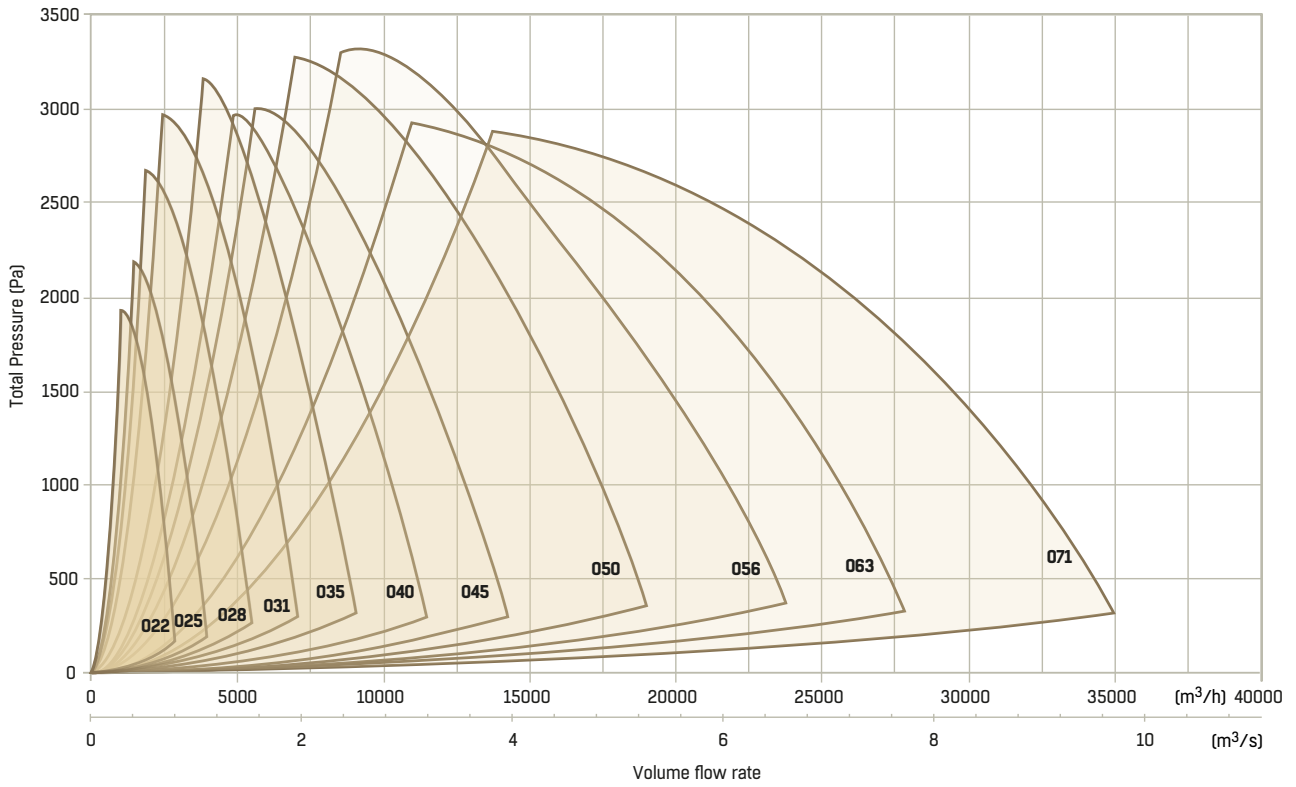
Backward curved impeller



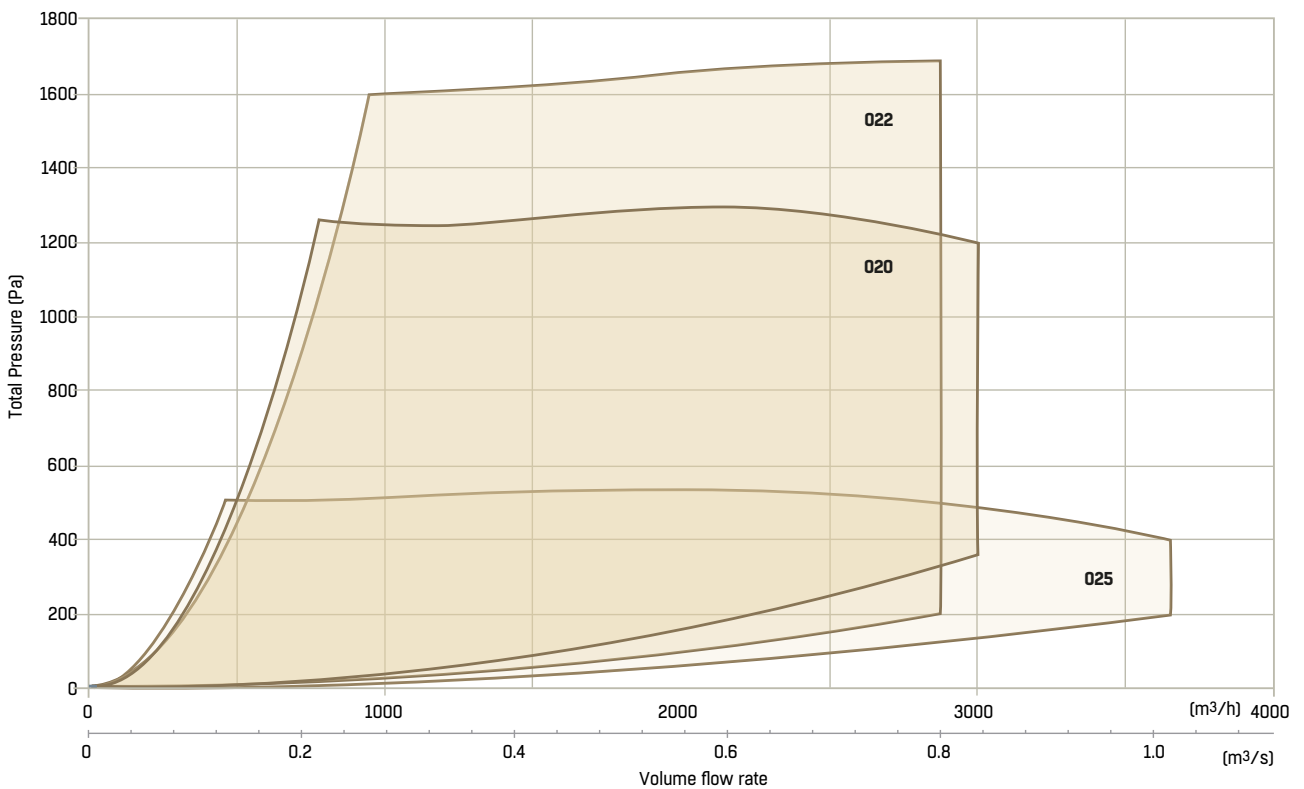
Forward curved impeller

GENERAL SURVEY CHARTS

GTLB-1



GTLF-1



DESIGN DESCRIPTION

FAN CASING

The fan casing is made of Sendzimir galvanized sheet steel. The casing side plates are deep drawn. Inlet cone for GTLF-1 is a part of the side plate of the casing whereas the GTLB-1 fans have a separate inlet cone. The fan casing is jointed using Pittsburg folding method, which produces tight and strong joints. This jointing method and the deep drawn inlet cone guarantee a stable design and high quality. The cut-off is designed to offer optimized aerodynamic properties.



MOTOR BRACKET

The motor bracket is made of Sendzimir galvanized sheet steel and fastened directly to the fan casing.



FAN IMPELLERS

The fan impellers with backward curved blades (GTLB) are made of welded sheet steel and coated with 60 µm thick epoxy powder (colour RAL 6029 green).

The fan impellers with forward curved blades (GTLF) are made of Sendzimir galvanized sheet steel.



Fan impeller of the type GTLB fans



Fan impeller of the type GTLF fans

FAN INLET

The fan inlet of a GTLB-1 fan is specially designed to ensure high fan efficiency and low sound level generated by the fan. The inlet cone is deep drawn in one piece and fastened to the side plate of the fan casing.

Inlet cone of the GTLF-1 fans is deep drawn in the fan casing.

The ATEX version of GTLB-1 has an inlet cone made of copper.



MATERIAL AND FINISH, MOTOR, QUALITY & ENVIRONMENT, TOLERANCES

MATERIAL AND FINISH

The GT fans meet the environmental class C2 as standard. 250 µm painting gives a painting class C5.

Fan casing:	Sendzimir galvanized sheet steel
Inlet cone:	Sendzimir galvanized sheet steel in standard version, copper in the ATEX version
Impeller:	GTLB: Welded sheet steel and coated with epoxy powder 60 µm GTLF: Sendzimir galvanized steel

MOTOR

The motor used in standard and high temperatur (HT) version is an IEC standard IE3 motor. It is equipped with thermistor as standard. Motors are designed to be used with a frequency converter. Degree of protection for the standard motors is IP 54.

See specification text on page 40.

Motors in ATEX-version are flameproof Ex de IIB T4 motors equipped with a surface temperature sensor and can be driven with a speed controller.

See specification text on page 40.

QUALITY & ENVIRONMENT

All components are designed and manufactured in accordance with applicable standards including the quality assurance system ISO 9001, the environmental management system ISO 14001 and the Energy Directive 2009/125/EC and all directives related to CE-marking.

ErP DIRECTIVE RELATED DATA

All the product related data is available in the software. The fans are ErP 2015 compliant.

TOLERANCES

The particulars in the charts are given with the tolerance specified in the DIN 24 166 Standard, Class 2 for complete fan.

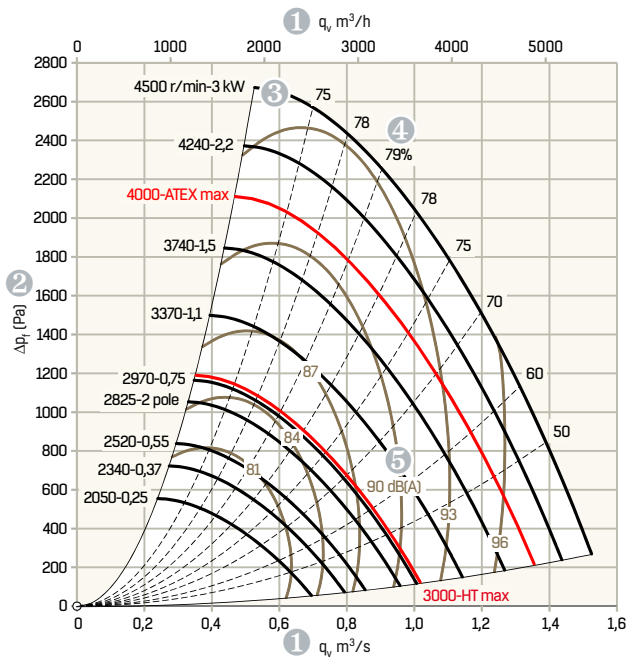
DIN 24 166	Tolerance class		
	1	2	3
Air flow q_v	±2,5 %	±5 %	±10 %
Pressure rise, Δp_f	±2,5 %	±5 %	±10 %
Shaft power ¹⁾ , P_r	+3 %	+5 %	+16 %
Efficiency ²⁾ , η_f	-2 %	-5 %	-
A-weighted sound power level ¹⁾ , L_{WA}	+3 dB	+4 dB	+6 dB

¹⁾ Negative tolerance permissible

²⁾ Positive tolerance permissible

FAN AND POWER DEMAND CHART EXPLANATIONS, DEFINITIONS

FAN CHART EXPLANATIONS



SYMBOLS USED

The fan charts presented on the following pages are applicable to air with a density of 1.2 kg/m^3 .

- | | | | |
|---|--------------|--|----------------|
| ① | q_v | Volume flow rate | $m^3/s, m^3/h$ |
| ② | Δp_f | Total pressure rise | Pa |
| ③ | | Fan max speed curve and motor nominal power with different motors using VSD or synchronous speed without VSD.
Red line, max speed for ATEX and HT version | r/min, kW |
| ④ | η | Fan total efficiency | % |
| ⑤ | L_{WA} | Total A-weighted sound power level at the discharge side | dB(A) |

ACOUSTIC DATA EXPLANATIONS

The total A-weighted sound power level L_{WA} on the outlet side of a fan with ducted inlet and outlet is specified in the fan chart. Sound power levels at different octave bands and different sound paths can be calculated using the following formula:

$$L_{Woct(s)} = L_{WA} + K_{oct(s)}$$

where K_{oct} values can be obtained from the table. The following formula can be used for calculating the A-weighted sound power level on each sound path:





$$L_{WA(s)} = L_{WA} + \Delta L_{WA(s)}$$

where the correction figure $\Delta L_{WA(s)}$ can be obtained from the table. The table also includes correction figures $\Delta L_{Wt(s)}$ that can be used for obtaining the total sound power level on each sound path:

$$L_{Wt(s)} = L_{WA(s)} + \Delta L_{Wt(s)}$$

SOUND PATHS

Sound paths used in the acoustic data tables

	Sound path
	To outlet duct
	To inlet duct
	Through the casing
	To fan outlet (for open discharge fan)

SYMBOLS USED

L_{WA}	A-weighted sound power level emitted to the outlet duct, specified in the fan chart	dB(A)
$L_{WA(s)}$	A-weighted sound power level equivalent to sound path s	dB(A)
$L_{Woct(s)}$	Total sound power level at each octave band (without A-weighting, corresponding to sound path s)	dB
$L_{Wt(s)}$	Total sound power level (without A-weighting, corresponding to sound path s)	dB
$K_{oct(s)}$	Correction figure for breaking down the sound level at each octave (corresponding to sound path s)	dB
s	Sound path	
L	Distance	m
ΔL	Distance absorption (applicable to ideal conditions with hemispherical sound propagation)	dB
$L_{pA(s)}$	A-weighted sound pressure level at distance L from fan (corresponding to sound path s)	dB(A)

DISTANCE ABSORPTION

The following formula is used to obtain the sound pressure level $L_{pA(s)}$ on free sound emission to the surroundings (sound paths 3 and 4) at various distances L:

$$L_{pA(s)} = L_{WA(s)} - \Delta L$$

where the distance absorption ΔL can be obtained from the table below:

L, m	1	3	5	10	15	20	25	30	40	50	75	100
ΔL , dB	8	17	22	28	31	34	36	37	40	42	45	48

SOUND DATA EXAMPLE - GTLB-1-028

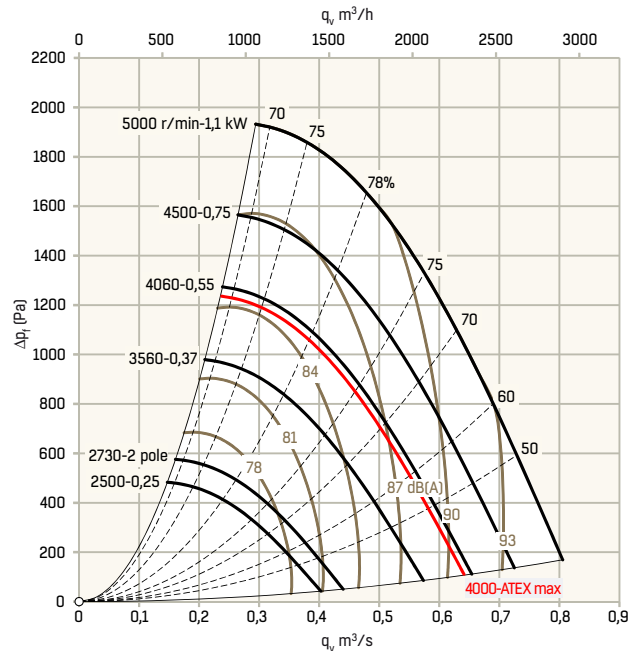
Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wt(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1928	1	2	3	-4	-7	-8	-13	-16	0	7.6
	1928	3857	-1	-1	-7	-1	-6	-8	-12	-16	0	4.9
	3857	4500	-4	-3	-2	-8	-4	-7	-10	-14	0	3.9
To inlet duct	0	1928	1	1	3	-2	-5	-10	-12	-17	0.6	6.9
	1928	3857	-2	-2	-8	0	-4	-10	-11	-17	0.7	4.1
	3857	4500	-4	-3	-4	-5	-2	-9	-11	-16	0.5	3.4
Through the casing	0	1928	-7	-5	-4	-9	-12	-14	-21	-31	-6.1	6.7
	1928	3857	-9	-8	-10	-8	-12	-15	-23	-35	-6.9	5.0
	3857	4500	-13	-12	-8	-14	-8	-15	-21	-33	-6.0	3.1
To fan outlet (for open discharge fan)	0	1928	-14	-5	0	-5	-7	-8	-13	-16	-1.1	4.3
	1928	3857	-20	-9	-10	-2	-6	-8	-12	-16	-0.5	1.9
	3857	4500	-24	-12	-5	-9	-4	-7	-10	-14	-0.4	1.4

For information how to calculate sound data, sound pressure level and distance absorption, see page 9.

GTLB-1-022 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 220 mm



ATEX: Max speed is 4000 r/min
HT: Not available for size 022

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{det} in octave band mid frequency (Hz)								$L_{\text{WA}(s)} - L_{\text{WA}}$ dB	$L_{\text{Wt}(s)} - L_{\text{WA}(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1928	2	2	3	-4	-6	-9	-12	-16	0	7.8
	1928	3857	2	-1	-5	-1	-6	-8	-12	-16	0	5.9
	3857	5000	-3	-3	-2	-6	-4	-8	-10	-14	0	4.2
To inlet duct	0	1928	4	1	2	-4	-6	-9	-12	-16	-0.2	8.1
	1928	3857	1	-2	-6	0	-4	-9	-11	-16	0.9	4.9
	3857	5000	-2	-4	-4	-6	-2	-9	-11	-16	0.4	3.6
Through the casing	0	1928	-6	-5	-3	-9	-11	-15	-20	-31	-5.7	6.9
	1928	3857	-6	-8	-9	-7	-12	-15	-23	-35	-6.4	5.6
	3857	5000	-12	-13	-8	-12	-8	-15	-21	-33	-5.8	3.1
To fan outlet	0	1928	-15	-7	-2	-6	-6	-9	-12	-16	-1.4	3.4
	1928	3857	-19	-11	-10	-3	-6	-8	-12	-16	-0.9	1.7
	3857	5000	-26	-14	-7	-8	-4	-8	-10	-14	-0.7	1.1

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

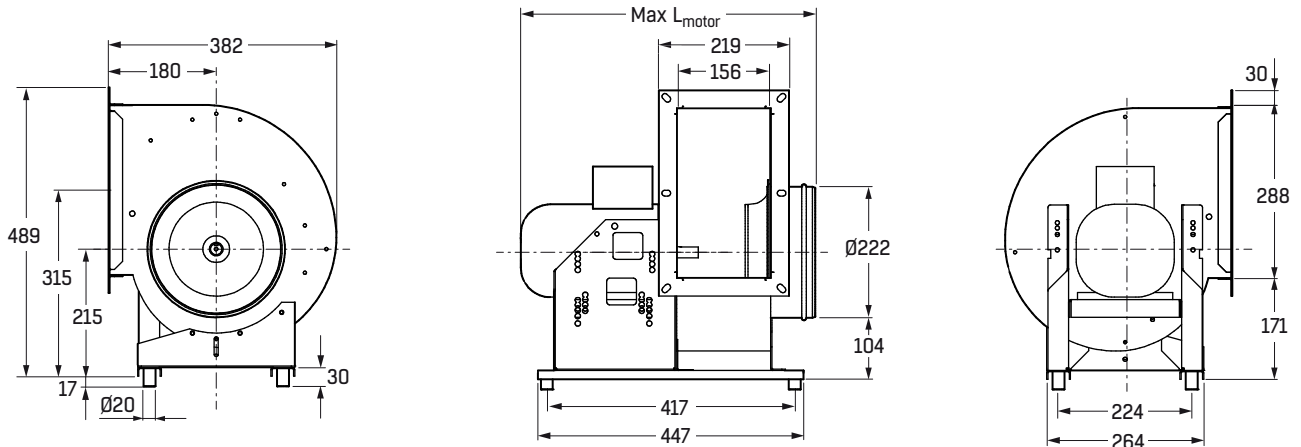
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅A	Back H5	*
AXDE-2-00075-c-2-0	80	2	0,75	2877	1,5	4000	69,5	28	39	HULB-1-022-d8-19-1	GTLZ-44-1-022-1-0	30	36	A	30	36	A

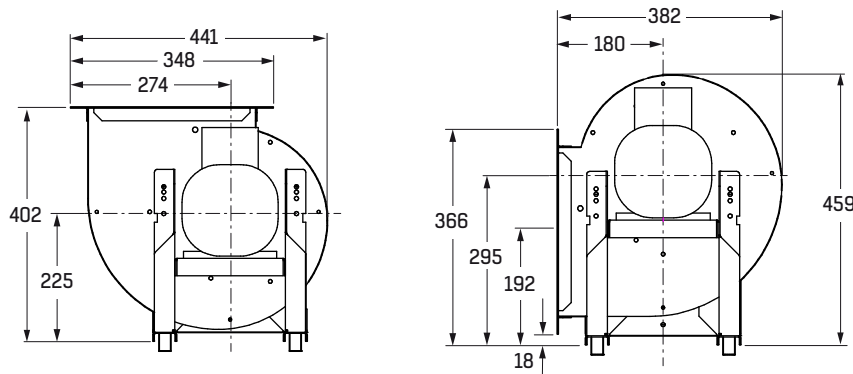
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-022 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



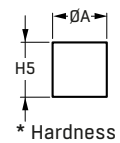
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
71	445	-
80	497	539

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA STANDARD VERSION

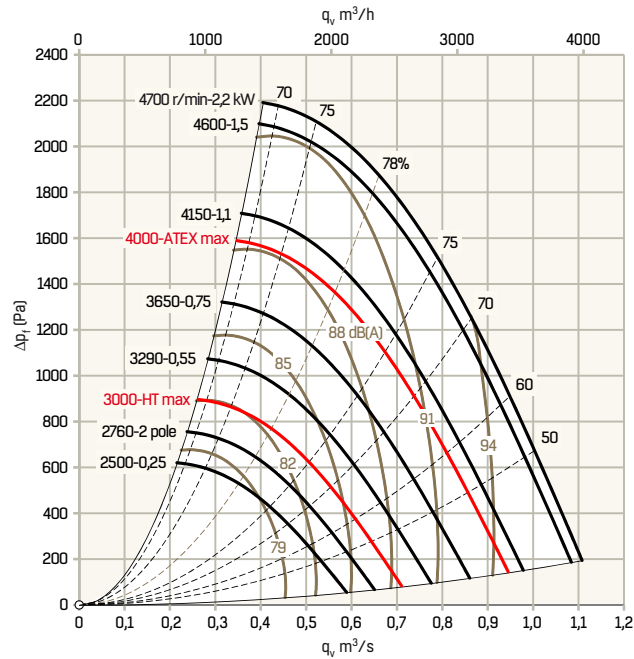
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-4-00025-1-2-7	71	4	0,25	1390	0,84	2500	89,9	6	17	HULB-1-022-1-14-0	GTLZ-42-1-022-1-0	20	30	A	20	30	A
APAL-2-00037-1-2-7	71	2	0,37	2730	1	3560	65,2	6	17	HULB-1-022-1-14-0	GTLZ-42-1-022-1-0	20	30	A	20	30	A
APAL-2-00055-1-2-7	71	2	0,55	2760	1,4	4060	73,6	7	18	HULB-1-022-1-14-0	GTLZ-42-1-022-1-0	20	30	A	20	30	A
APAL-2-00075-1-2-8	80	2	0,75	2900	2	4500	77,6	11	22	HULB-1-022-1-19-0	GTLZ-42-1-022-1-0	20	30	A	20	30	A
APAL-2-00110-1-2-8	80	2	1,1	2910	2,4	5000	85,9	12	23	HULB-1-022-1-19-0	GTLZ-42-1-022-1-0	20	30	A	20	30	A

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-025 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 250 mm



ATEX: Max speed is 4000 r/min
HT: Max speed is 3000 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wf(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1928	1	2	3	-4	-7	-8	-13	-16	0	7.5
	1928	3857	-2	0	-7	0	-7	-10	-12	-15	0	5.1
	3857	4700	-4	-3	-3	-7	-3	-8	-11	-15	0	3.7
To inlet duct	0	1928	1	2	3	-4	-5	-10	-13	-18	0	7.6
	1928	3857	-1	0	-8	0	-5	-11	-12	-17	0.3	5.1
	3857	4700	-4	-2	-4	-7	-2	-10	-12	-17	0.1	3.8
Through the casing	0	1928	-7	-5	-4	-9	-12	-14	-21	-31	-6.1	6.7
	1928	3857	-11	-10	-10	-8	-11	-18	-23	-34	-7.0	4.3
	3857	4700	-13	-13	-9	-14	-10	-16	-22	-34	-7.5	3.5
To fan outlet	0	1928	-16	-6	-1	-5	-7	-8	-13	-16	-1.3	3.9
	1928	3857	-21	-9	-11	-1	-7	-10	-12	-15	-0.8	2.3
	3857	4700	-25	-13	-7	-8	-3	-8	-11	-15	-0.3	1.0

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

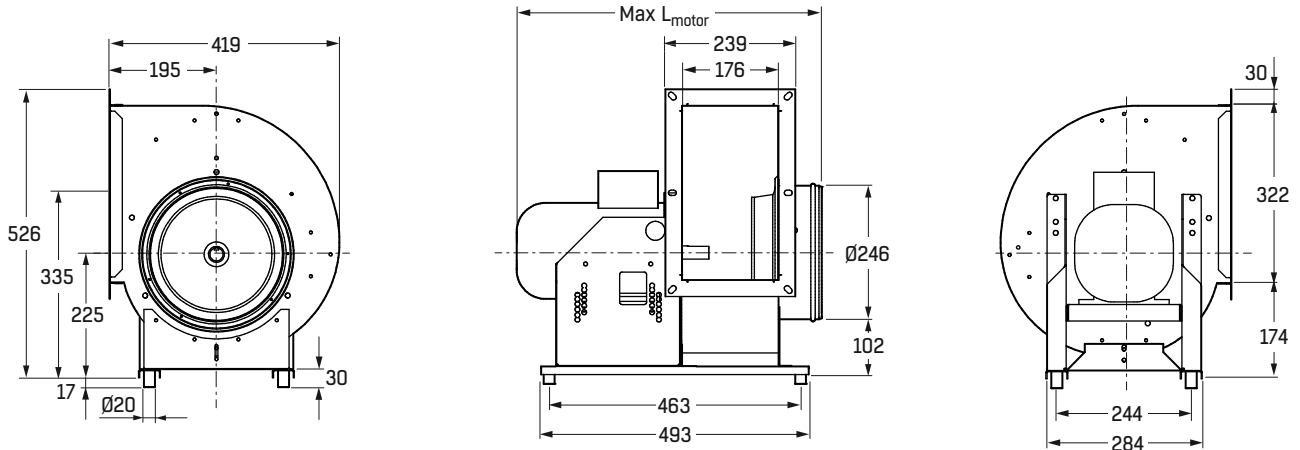
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅A	Back H5	*
AXDE-2-00075-c-2-0	80	2	0,75	2877	1,5	3650	63,4	28	40	HULB-1-025-d8-19-1	GTLZ-44-1-025-1-0	30	36	A	30	36	A
AXDE-2-00110-c-2-0	80	2	1,1	2831	2,3	4000	70,6	30	42	HULB-1-025-d8-19-1	GTLZ-44-1-025-1-0	30	36	A	30	36	A

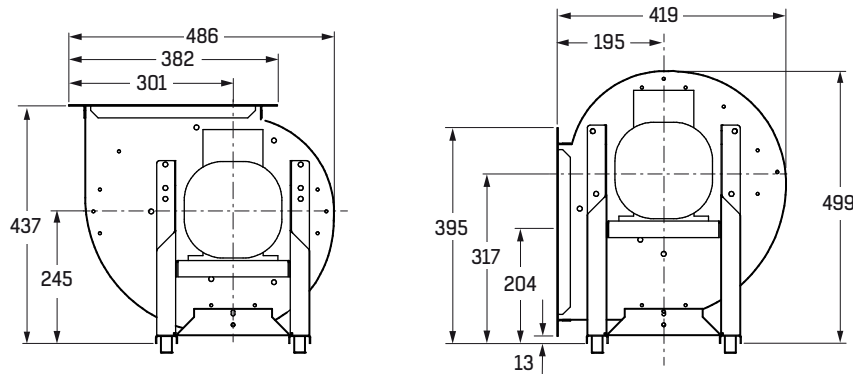
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-025 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



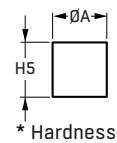
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
71	452	-
80	504	546
90	560	-

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA STANDARD VERSION

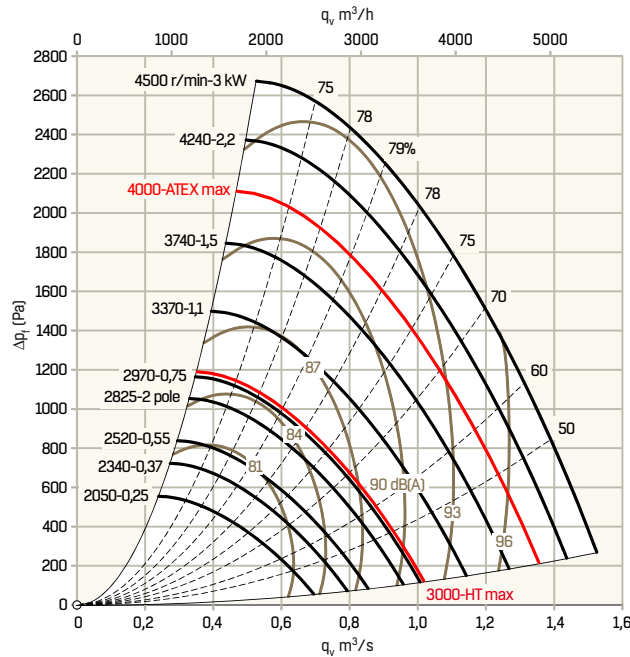
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-4-00025-1-2-7	71	4	0,25	1390	0,84	2500	89,9	6	18	HULB-1-025-1-14-0	GTLZ-42-1-025-1-0	20	30	A	20	30	A
APAL-2-00055-1-2-7	71	2	0,55	2760	1,4	3290	59,6	7	19	HULB-1-025-1-14-0	GTLZ-42-1-025-1-0	20	30	A	20	30	A
APAL-2-00075-1-2-8	80	2	0,75	2900	2	3650	62,9	11	23	HULB-1-025-1-19-0	GTLZ-42-1-025-1-0	20	30	A	20	30	A
APAL-2-00110-1-2-8	80	2	1,1	2910	2,4	4150	71,3	12	24	HULB-1-025-1-19-0	GTLZ-42-1-025-1-0	20	30	A	20	30	A
APAL-2-00150-1-2-8	90	2	1,5	2920	3,2	4600	78,8	17	29	HULB-1-025-1-24-0	GTLZ-42-1-025-1-0	20	30	A	20	30	A
APAL-2-00220-1-2-8	90	2	2,2	2915	4,5	4700	80,6	19	31	HULB-1-025-1-24-0	GTLZ-42-1-025-1-0	20	30	A	20	30	A

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-028 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 280 mm



ATEX: Max speed is 4000 r/min
HT: Max speed is 3000 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wf(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1928	1	2	3	-4	-7	-8	-13	-16	0	7.6
	1928	3857	-1	-1	-7	-1	-6	-8	-12	-16	0	4.9
	3857	4500	-4	-3	-2	-8	-4	-7	-10	-14	0	3.9
To inlet duct	0	1928	1	1	3	-2	-5	-10	-12	-17	0.6	6.9
	1928	3857	-2	-2	-8	0	-4	-10	-11	-17	0.7	4.1
	3857	4500	-4	-3	-4	-5	-2	-9	-11	-16	0.5	3.4
Through the casing	0	1928	-7	-5	-4	-9	-12	-14	-21	-31	-6.1	6.7
	1928	3857	-9	-8	-10	-8	-12	-15	-23	-35	-6.9	5.0
	3857	4500	-13	-12	-8	-14	-8	-15	-21	-33	-6.0	3.1
To fan outlet (for open discharge fan)	0	1928	-14	-5	0	-5	-7	-8	-13	-16	-1.1	4.3
	1928	3857	-20	-9	-10	-2	-6	-8	-12	-16	-0.5	1.9
	3857	4500	-24	-12	-5	-9	-4	-7	-10	-14	-0.4	1.4

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

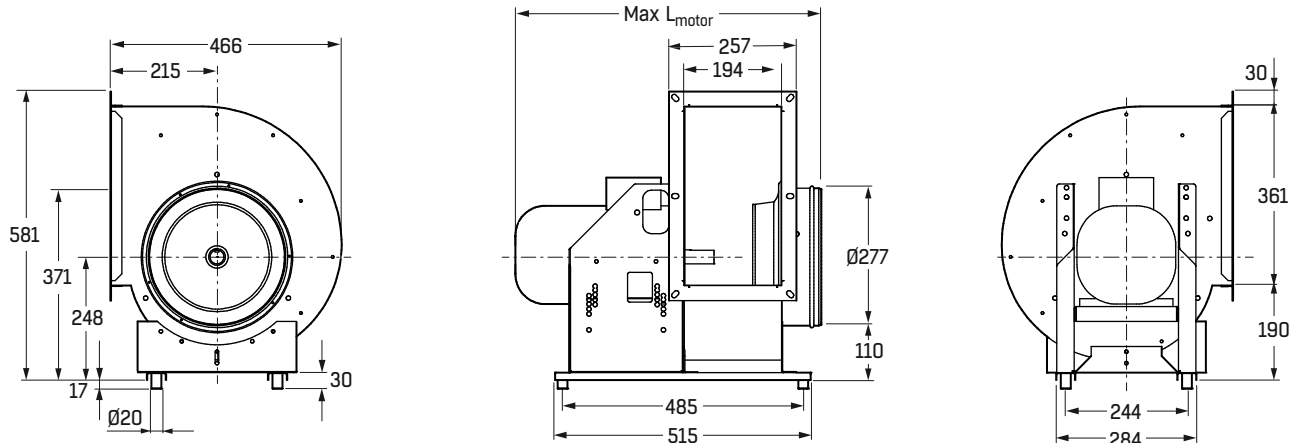
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅A	Back H5	*
AXDE-4-00055-c-2-0	80	4	0,55	1421	1,5	2560	90,1	29	44	HULB-1-028-d8-19-1	GTLZ-44-1-028-1-0	30	36	A	30	36	A
AXDE-2-00075-c-2-0	80	2	0,75	2877	1,5	2970	51,2	28	43	HULB-1-028-d8-19-1	GTLZ-44-1-028-1-0	30	36	A	30	36	A
AXDE-2-00110-c-2-0	80	2	1,1	2831	2,3	3370	59,5	30	45	HULB-1-028-d8-19-1	GTLZ-44-1-028-1-0	30	36	A	30	36	A
AXDE-2-00150-c-2-0	90	2	1,5	2881	3	3740	64,9	41	56	HULB-1-028-d8-24-1	GTLZ-44-1-028-1-0	30	36	A	30	36	A
AXDE-2-00220-c-2-0	90	2	2,2	2877	4,3	4000	69,5	44	59	HULB-1-028-d8-24-1	GTLZ-44-1-028-1-0	30	36	A	30	36	A

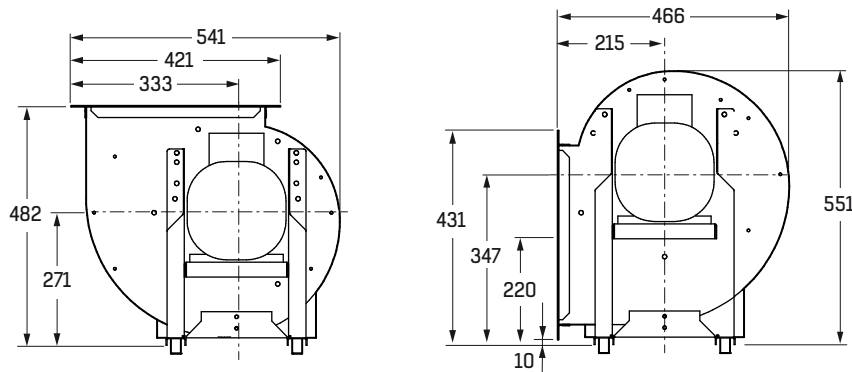
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-028 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



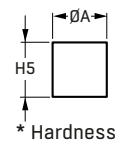
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
71	460	-
80	512	554
90	568	619
100	614	-

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA STANDARD VERSION

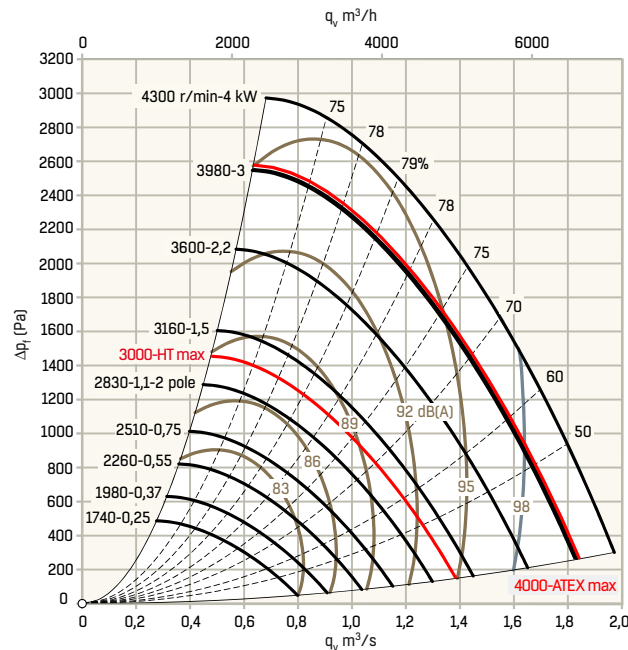
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	øA	Front H5	*	øA	Back H5	*
APAL-4-00025-1-2-7	71	4	0,25	1390	0,84	2050	73,7	6	21	HULB-1-028-1-14-0	GTLZ-42-1-028-1-0	20	30	A	20	30	A
APAL-4-00037-1-2-7	71	4	0,37	1380	1,1	2340	84,8	6	21	HULB-1-028-1-14-0	GTLZ-42-1-028-1-0	20	30	A	20	30	A
APAL-4-00055-1-2-7	80	4	0,55	1400	1,5	2520	90,0	10	25	HULB-1-028-1-19-0	GTLZ-42-1-028-1-0	20	30	A	20	30	A
APAL-2-00075-1-2-8	80	2	0,75	2900	2	2970	51,2	11	26	HULB-1-028-1-19-0	GTLZ-42-1-028-1-0	20	30	A	20	30	A
APAL-2-00110-1-2-8	80	2	1,1	2910	2,4	3370	57,9	12	27	HULB-1-028-1-19-0	GTLZ-42-1-028-1-0	20	30	A	20	30	A
APAL-2-00150-1-2-8	90	2	1,5	2920	3,2	3740	64,0	17	32	HULB-1-028-1-24-0	GTLZ-42-1-028-1-0	20	30	A	20	30	A
APAL-2-00220-1-2-8	90	2	2,2	2915	4,5	4240	72,7	19	34	HULB-1-028-1-24-0	GTLZ-42-1-028-1-0	20	30	A	20	30	A
APAL-2-00300-1-2-8	100	2	3	2910	5,6	4500	77,3	26	41	HULB-1-028-1-28-0	GTLZ-42-1-028-2-0	20	30	A	20	30	B

¹⁾ Apr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-031 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 310 mm



ATEX: Max speed is 4000 r/min
HT: Max speed is 3000 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wf(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1928	1	-1	4	-4	-7	-8	-15	-17	0	7.3
	1928	3857	-1	-2	-6	-2	-6	-7	-12	-16	0	4.5
	3857	4300	-5	-4	-4	-7	-4	-7	-10	-14	0	3.1
To inlet duct	0	1928	1	-1	3	-1	-5	-10	-11	-16	0.9	6.4
	1928	3857	-2	-5	-9	0	-4	-8	-10	-16	1.0	3.4
	3857	4300	-5	-6	-5	-7	-2	-8	-10	-13	0.6	2.5
Through the casing	0	1928	-7	-8	-5	-9	-12	-14	-23	-32	-6.4	6.0
	1928	3857	-10	-12	-9	-9	-10	-15	-23	-35	-6.4	3.8
	3857	4300	-14	-14	-9	-14	-10	-15	-21	-33	-7.3	3.2
To fan outlet	0	1928	-13	-8	1	-5	-7	-8	-15	-17	-1.1	4.5
	1928	3857	-18	-9	-9	-3	-6	-7	-12	-16	-0.6	1.8
	3857	4300	-23	-11	-7	-8	-4	-7	-10	-14	-0.4	1.1

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

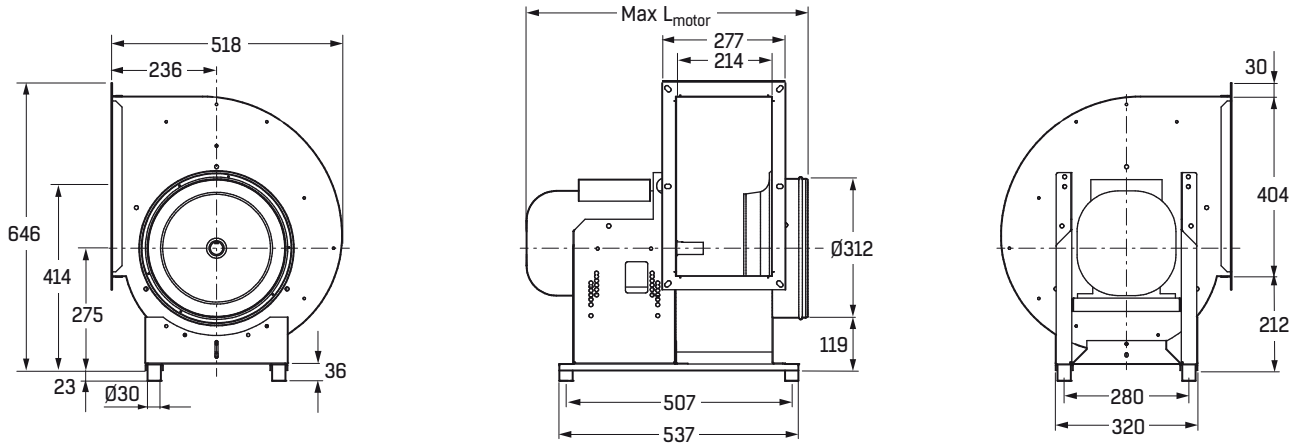
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅A	Back H5	*
AXDE-4-00055-c-2-0	80	4	0,55	1421	1,5	2260	79,5	29	47	HULB-1-031-d8-19-1	GTLZ-44-1-031-1-0	30	36	A	30	36	A
AXDE-4-00075-c-2-0	80	4	0,75	1416	1,8	2510	88,6	31	49	HULB-1-031-d8-19-1	GTLZ-44-1-031-1-0	30	36	A	30	36	A
AXDE-4-00110-c-2-0	90	4	1,1	1432	2,6	2580	90,1	42	60	HULB-1-031-d8-24-1	GTLZ-44-1-031-1-0	30	36	A	30	36	A
AXDE-2-00110-c-2-0	80	2	1,1	2831	2,3	2830	50,0	30	48	HULB-1-031-d8-19-1	GTLZ-44-1-031-1-0	30	36	A	30	36	A
AXDE-2-00150-c-2-0	90	2	1,5	2881	3	3160	54,8	41	59	HULB-1-031-d8-24-1	GTLZ-44-1-031-1-0	30	36	A	30	36	A
AXDE-2-00220-c-2-0	90	2	2,2	2877	4,3	3600	62,6	44	62	HULB-1-031-d8-24-1	GTLZ-44-1-031-1-0	30	36	A	30	36	A
AXDE-2-00300-c-2-0	100	2	3	2896	5,7	3980	68,7	61	79	HULB-1-031-d8-28-1	GTLZ-44-1-031-2-0	30	36	A	30	36	B
AXDE-2-00400-c-2-0	112	2	4	2891	7,6	4000	69,2	64	82	HULB-1-031-d8-28-1	GTLZ-44-1-031-2-0	30	36	A	30	36	B

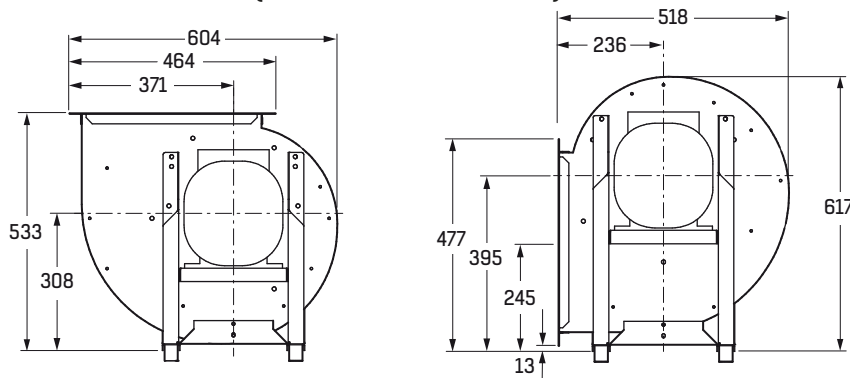
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-031 - DIMENSIONS AND WEIGHTS, MOTOR DATA

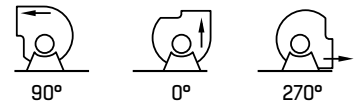
RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



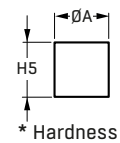
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
71	479	-
80	531	540
90	587	638
100	633	713
112	629	712

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA STANDARD VERSION

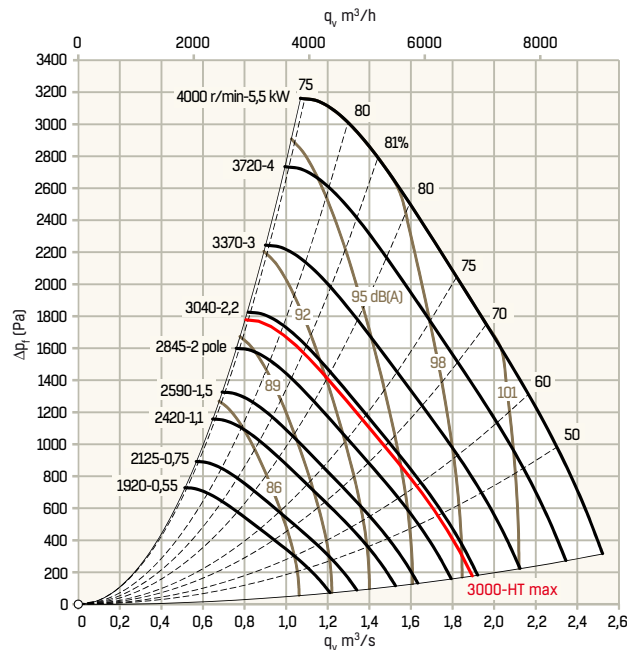
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-4-00025-1-2-7	71	4	0,25	1390	0,84	1740	62,6	6	24	HULB-1-031-1-14-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A
APAL-4-00037-1-2-7	71	4	0,37	1380	1,1	1980	71,7	6	24	HULB-1-031-1-14-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A
APAL-4-00055-1-2-7	80	4	0,55	1400	1,5	2260	80,7	10	28	HULB-1-031-1-19-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A
APAL-4-00075-1-2-8	80	4	0,75	1445	1,8	2510	86,9	16	34	HULB-1-031-1-19-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A
APAL-2-00110-1-2-8	80	2	1,1	2910	2,4	2830	48,6	12	30	HULB-1-031-1-19-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A
APAL-4-00110-1-2-8	90	4	1,1	1445	2,6	2600	90,0	17	35	HULB-1-031-1-24-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A
APAL-2-00150-1-2-8	90	2	1,5	2920	3,2	3160	54,1	17	35	HULB-1-031-1-24-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A
APAL-2-00220-1-2-8	90	2	2,2	2915	4,5	3600	61,7	19	37	HULB-1-031-1-24-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A
APAL-2-00300-1-2-8	100	2	3	2910	5,6	3980	68,4	26	44	HULB-1-031-1-28-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A
APAL-2-00400-2-2-8	112	2	4	2920	7,5	4300	73,6	34	52	HULB-1-031-1-28-0	GTLZ-42-1-031-1-0	30	36	A	30	36	A

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-035 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 350 mm



ATEX: Max speed is 4000 r/min
HT: Max speed is 3000 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wt(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1928	1	0	3	-4	-6	-8	-14	-17	0	7,1
	1928	4000	-1	-3	-6	-2	-5	-7	-12	-16	0	4,3
To inlet duct	0	1928	2	0	1	-1	-5	-9	-10	-14	0,9	6,3
	1928	4000	-2	-4	-8	-1	-4	-8	-10	-16	0,7	3,6
Through the casing	0	1928	-7	-7	-4	-9	-11	-14	-22	-32	-5,9	6,1
	1928	4000	-9	-10	-9	-8	-11	-14	-23	-35	-6,3	4,3
To fan outlet	0	1928	-12	-6	0	-5	-6	-8	-14	-17	-0,9	4,1
	1928	4000	-18	-9	-9	-3	-5	-7	-12	-16	-0,3	1,7

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

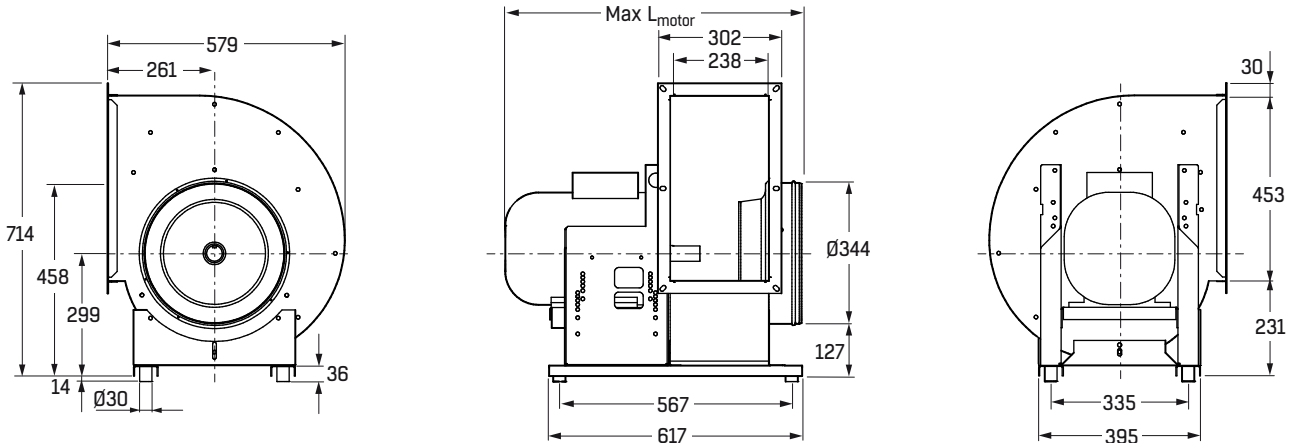
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅B	Back H5	*
AXDE-4-00055-c-2-0	80	4	0,55	1421	1,5	1920	67,6	29	57	HULB-1-035-d8-19-1	GTLZ-44-1-035-1-0	30	36	A	30	36	A
AXDE-4-00075-c-2-0	80	4	0,75	1416	1,8	2125	75,0	31	59	HULB-1-035-d8-19-1	GTLZ-44-1-035-1-0	30	36	A	30	36	A
AXDE-4-00110-c-2-0	90	4	1,1	1432	2,6	2420	84,5	42	70	HULB-1-035-d8-24-1	GTLZ-44-1-035-1-0	30	36	A	30	36	A
AXDE-4-00150-c-2-0	90	4	1,5	1431	3,3	2580	90,1	44	72	HULB-1-035-d8-24-1	GTLZ-44-1-035-1-0	30	36	A	30	36	A
AXDE-2-00220-c-2-0	90	2	2,2	2877	4,3	3040	52,8	44	72	HULB-1-035-d8-24-1	GTLZ-44-1-035-1-0	30	36	A	30	36	A
AXDE-2-00300-c-2-0	100	2	3	2896	5,7	3370	58,2	61	89	HULB-1-035-d8-28-1	GTLZ-44-1-035-2-0	30	36	A	30	36	B
AXDE-2-00400-c-2-0	112	2	4	2891	7,6	3720	64,3	64	92	HULB-1-035-d8-28-1	GTLZ-44-1-035-2-0	30	36	A	30	36	B
AXDE-2-00550-c-2-0	132	2	5,5	2905	10,5	4000	68,8	92	120	HULB-1-035-d8-38-1	GTLZ-44-1-035-2-0	30	36	A	30	36	B

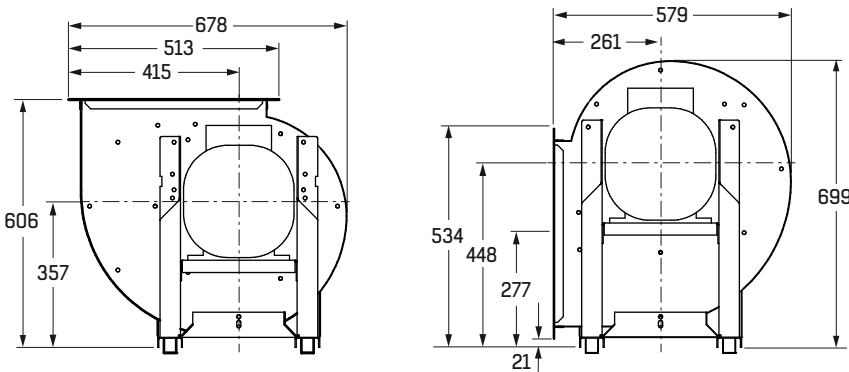
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-035 - DIMENSIONS AND WEIGHTS, MOTOR DATA

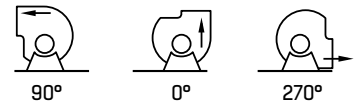
RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



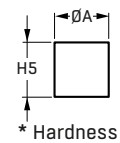
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
71	491	-
80	576	585
90	599	650
100	645	725
112	642	735
132	734	807

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA STANDARD VERSION

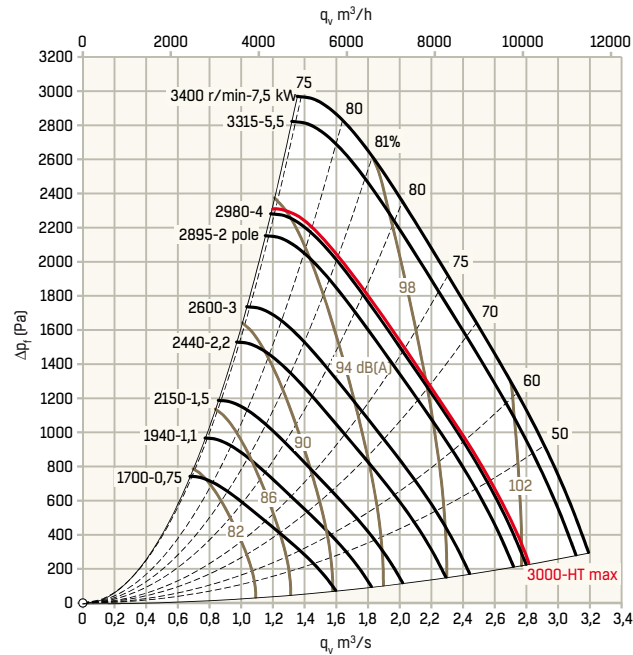
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-4-00037-1-2-7	71	4	0,37	1380	1,1	1680	60,9	6	34	HULB-1-035-1-14-0	GTLZ-42-1-035-1-0	30	36	A	30	36	A
APAL-4-00055-1-2-7	80	4	0,55	1400	1,5	1920	68,6	10	38	HULB-1-035-1-19-0	GTLZ-42-1-035-1-0	30	36	A	30	36	A
APAL-4-00075-1-2-8	80	4	0,75	1445	1,8	2125	73,5	16	44	HULB-1-035-1-19-0	GTLZ-42-1-035-1-0	30	36	A	30	36	A
APAL-4-00110-1-2-8	90	4	1,1	1445	2,6	2420	83,7	17	45	HULB-1-035-1-24-0	GTLZ-42-1-035-1-0	30	36	A	30	36	A
APAL-4-00150-1-2-8	90	4	1,5	1440	3,4	2590	89,9	20	48	HULB-1-035-1-24-0	GTLZ-42-1-035-1-0	30	36	A	30	36	A
APAL-2-00220-1-2-8	90	2	2,2	2915	4,5	3040	52,1	19	47	HULB-1-035-1-24-0	GTLZ-42-1-035-1-0	30	36	A	30	36	A
APAL-2-00300-1-2-8	100	2	3	2910	5,6	3370	57,9	26	54	HULB-1-035-1-28-0	GTLZ-42-1-035-1-0	30	36	A	30	36	A
APAL-2-00400-2-2-8	112	2	4	2920	7,5	3720	63,7	34	62	HULB-1-035-1-28-0	GTLZ-42-1-035-1-0	30	36	A	30	36	A
APAL-2-00550-2-2-8	132	2	5,5	2930	10	4000	68,3	50	78	HULB-1-035-1-38-0	GTLZ-42-1-035-2-0	30	36	A	30	36	B

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-040 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 400 mm



ATEX: Max speed is 3400 r/min
HT: Max speed is 3000 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wf(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1928	1	-2	2	-5	-5	-8	-15	-18	0	6.3
	1928	3400	-1	-3	-7	-2	-5	-7	-12	-17	0	4.4
To inlet duct	0	1928	2	0	-2	-3	-6	-9	-11	-11	-0.3	6.6
	1928	3400	-1	-4	-10	-2	-4	-6	-8	-15	1.1	3.3
Through the casing	0	1928	-7	-9	-6	-10	-10	-14	-23	-33	-6.2	5.3
	1928	3400	-10	-13	-10	-9	-9	-15	-23	-36	-6.0	3.3
To fan outlet	0	1928	-11	-7	0	-6	-5	-8	-15	-18	-0.8	3.9
	1928	3400	-16	-8	-9	-3	-5	-7	-12	-17	-0.3	1.8

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

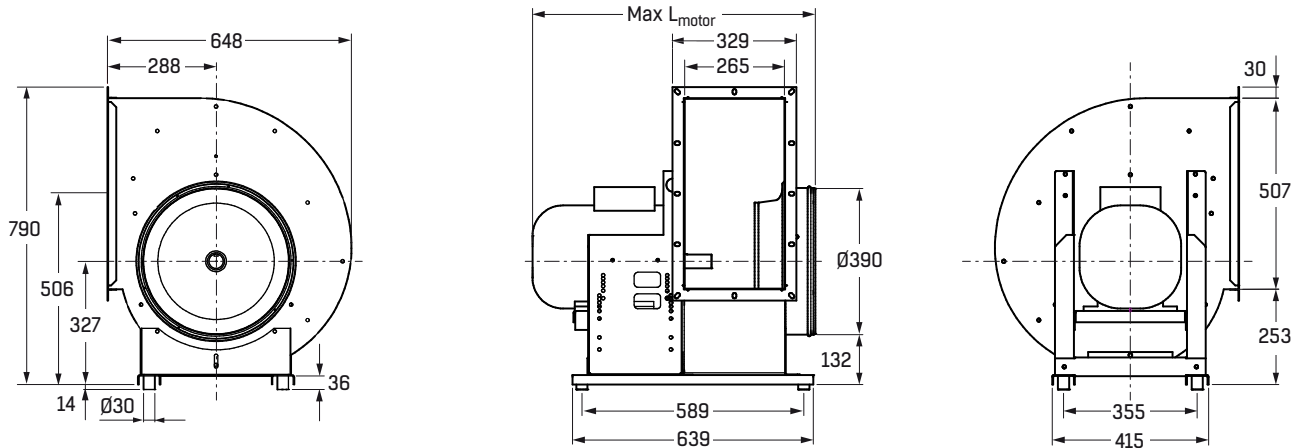
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅B	Back H5	*
AXDE-4-00055-c-2-0	80	4	0,55	1421	1,5	1540	54,2	29	64	HULB-1-040-d8-19-1	GTLZ-44-1-040-1-0	30	36	A	30	36	A
AXDE-4-00075-c-2-0	80	4	0,75	1416	1,8	1700	60,0	31	66	HULB-1-040-d8-19-1	GTLZ-44-1-040-1-0	30	36	A	30	36	A
AXDE-4-00110-c-2-0	90	4	1,1	1432	2,6	1940	67,7	42	77	HULB-1-040-d8-24-1	GTLZ-44-1-040-2-0	30	36	A	30	36	B
AXDE-4-00150-c-2-0	90	4	1,5	1431	3,3	2150	75,1	44	79	HULB-1-040-d8-24-1	GTLZ-44-1-040-2-0	30	36	A	30	36	B
AXDE-4-00220-c-2-0	100	4	2,2	1437	4,4	2440	84,9	61	96	HULB-1-040-d8-28-1	GTLZ-44-1-040-2-0	30	36	A	30	36	B
AXDE-4-00300-c-2-0	100	4	3	1444	6,1	2600	90,0	63	98	HULB-1-040-d8-28-1	GTLZ-44-1-040-2-0	30	36	A	30	36	B
AXDE-2-00400-c-2-0	112	2	4	2891	7,6	2980	51,5	64	99	HULB-1-040-d8-28-1	GTLZ-44-1-040-2-0	30	36	A	30	36	B
AXDE-2-00550-c-2-0	132	2	5,5	2905	10,5	3315	57,1	92	127	HULB-1-040-d8-38-1	GTLZ-44-1-040-2-0	30	36	A	30	36	B
AXDE-2-00750-c-2-0	132	2	7,5	2914	13,7	3400	58,3	100	135	HULB-1-040-d8-38-1	GTLZ-44-1-040-2-0	30	36	A	30	36	B

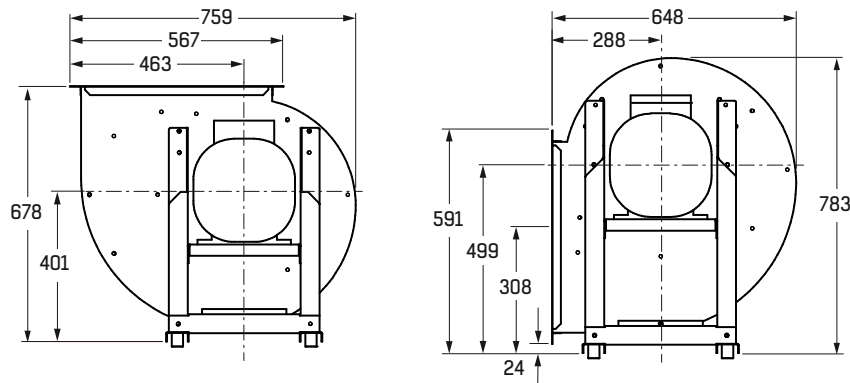
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-040 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



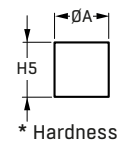
90° 0° 270°
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
80	603	612
90	626	677
100	690	752
112	669	752
132	759	834

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



* Hardness

MOTOR DATA STANDARD VERSION

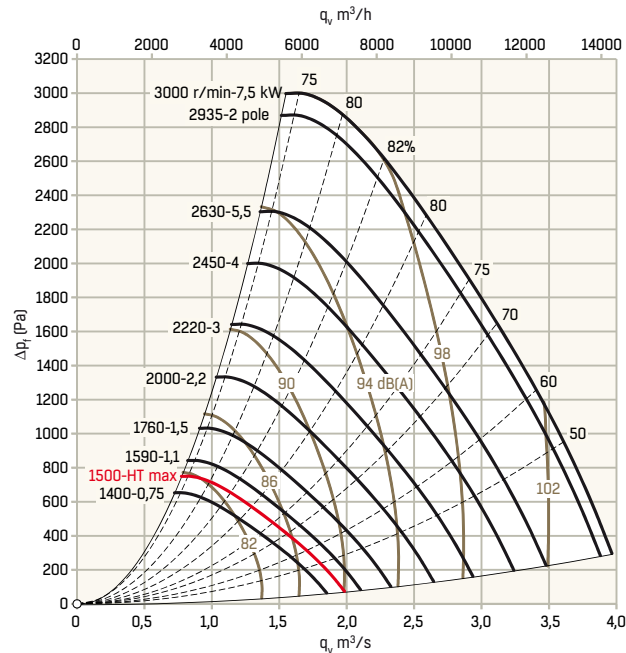
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	Front ØA H5 *			Back ØA H5 *		
APAL-4-00055-1-2-7	80	4	0,55	1400	1,5	1540	55,0	10	45	HULB-1-040-1-19-0	GTLZ-42-1-040-1-0	30	36	A	30	36	A
APAL-4-00075-1-2-8	80	4	0,75	1445	1,8	1700	58,8	16	51	HULB-1-040-1-19-0	GTLZ-42-1-040-1-0	30	36	A	30	36	A
APAL-4-00110-1-2-8	90	4	1,1	1445	2,6	1940	67,1	17	52	HULB-1-040-1-24-0	GTLZ-42-1-040-1-0	30	36	A	30	36	A
APAL-4-00150-1-2-8	90	4	1,5	1440	3,4	2150	74,7	20	55	HULB-1-040-1-24-0	GTLZ-42-1-040-1-0	30	36	A	30	36	A
APAL-4-00220-1-2-8	100	4	2,2	1455	4,8	2440	83,8	28	63	HULB-1-040-1-28-0	GTLZ-42-1-040-1-0	30	36	A	30	36	A
APAL-4-00300-1-2-8	100	4	3	1445	6,3	2600	90,0	34	69	HULB-1-040-1-28-0	GTLZ-42-1-040-1-0	30	36	A	30	36	A
APAL-2-00400-2-2-8	112	2	4	2920	7,5	2980	51,0	34	69	HULB-1-040-1-28-0	GTLZ-42-1-040-1-0	30	36	A	30	36	A
APAL-2-00550-2-2-8	132	2	5,5	2930	10	3315	56,6	50	85	HULB-1-040-1-38-0	GTLZ-42-1-040-2-0	30	36	A	30	36	B
APAL-2-00750-2-2-8	132	2	7,5	2930	13,4	3400	58,0	55	90	HULB-1-040-1-38-0	GTLZ-42-1-040-2-0	30	36	A	30	36	B

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-045 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 450 mm



ATEX: Max speed is 3000 r/min
HT: Max speed is 1500 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{W(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	964	0	5	2	-3	-6	-9	-14	-18	0	8.2
	964	1928	-2	-1	3	-3	-6	-9	-14	-17	0	6.4
	1928	3000	-3	-4	-4	-1	-6	-8	-13	-16	0	4.1
To inlet duct	0	964	4	3	0	-3	-4	-9	-12	-14	0.4	7.8
	964	1928	2	-1	0	-3	-5	-8	-10	-13	0.3	6.2
	1928	3000	-2	-5	-6	-2	-4	-7	-9	-14	0.8	3.3
Through the casing	0	964	-8	-5	-6	-8	-11	-15	-22	-33	-6.1	6.1
	964	1928	-10	-8	-6	-10	-12	-16	-25	-36	-7.3	5.8
	1928	3000	-12	-14	-11	-8	-10	-16	-24	-35	-6.4	3.1
To fan outlet	0	964	-9	0	0	-3	-6	-9	-14	-18	-0.6	5.5
	964	1928	-13	-6	1	-3	-6	-9	-14	-17	-0.5	4.5
	1928	3000	-17	-9	-6	-1	-6	-8	-13	-16	-0.1	2.3

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

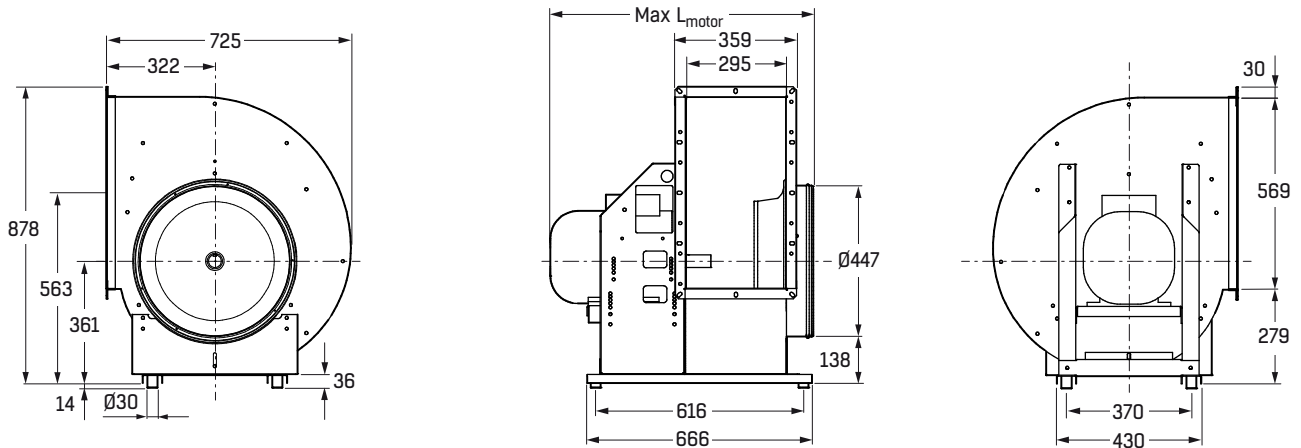
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅B	Back H5	*
AXDE-6-00055-c-2-0	80	6	0,55	938	1,8	1260	67,2	29	73	HULB-1-045-d8-19-1	GTLZ-44-1-045-1-0	30	36	A	30	36	A
AXDE-6-00075-c-2-0	90	6	0,75	946	2,1	1400	74,0	41	85	HULB-1-045-d8-24-1	GTLZ-44-1-045-2-0	30	36	A	30	36	B
AXDE-4-00110-c-2-0	90	4	1,1	1432	2,6	1590	55,5	42	86	HULB-1-045-d8-24-1	GTLZ-44-1-045-2-0	30	36	A	30	36	B
AXDE-4-00150-c-2-0	90	4	1,5	1431	3,3	1760	61,5	44	88	HULB-1-045-d8-24-1	GTLZ-44-1-045-2-0	30	36	A	30	36	B
AXDE-4-00220-c-2-0	100	4	2,2	1437	4,4	2000	69,6	61	105	HULB-1-045-d8-28-1	GTLZ-44-1-045-2-0	30	36	A	30	36	B
AXDE-4-00300-c-2-0	100	4	3	1444	6,1	2220	76,9	63	107	HULB-1-045-d8-28-1	GTLZ-44-1-045-2-0	30	36	A	30	36	B
AXDE-4-00400-c-2-0	112	4	4	1458	8,6	2450	84,0	72	116	HULB-1-045-d8-28-1	GTLZ-44-1-045-2-0	30	36	A	30	36	B
AXDE-4-00550-c-2-0	132	4	5,5	1458	11,7	2625	90,0	102	146	HULB-1-045-d8-38-1	GTLZ-44-1-045-3-0	30	36	A	50	36	A
AXDE-2-00750-c-2-0	132	2	7,5	2914	13,7	3000	51,5	100	144	HULB-1-045-d8-38-1	GTLZ-44-1-045-3-0	30	36	A	50	36	A

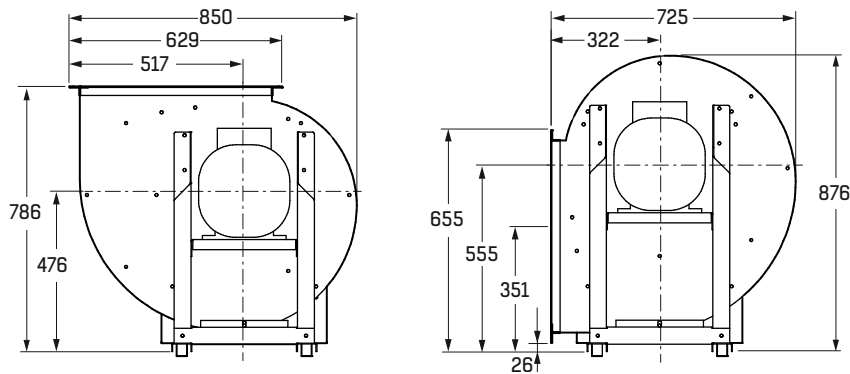
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-045 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



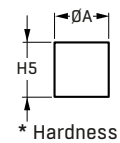
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
80	590	640
90	654	710
100	718	780
112	730	780
132	787	862

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA STANDARD VERSION

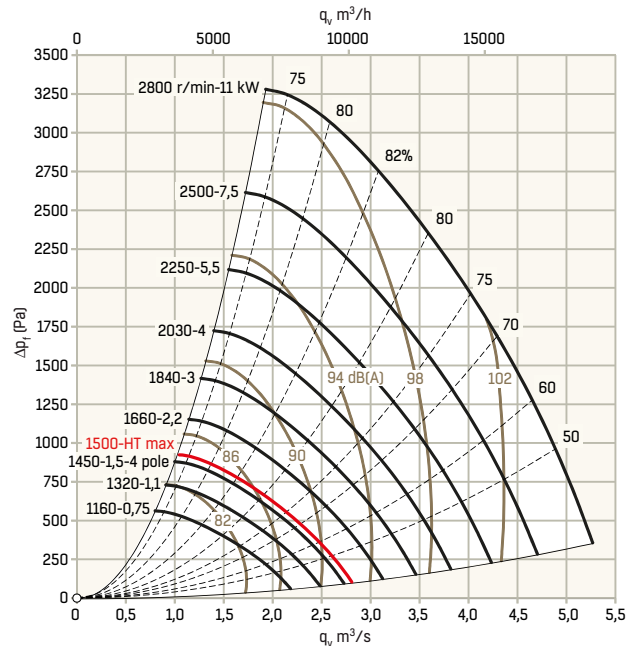
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-6-00055-1-2-7	80	6	0,55	900	1,8	1260	70,0	12	56	HULB-1-045-1-19-0	GTLZ-42-1-045-1-0	30	36	A	30	36	A
APAL-6-00075-1-2-8	90	6	0,75	955	2,1	1400	73,3	16	60	HULB-1-045-1-24-0	GTLZ-42-1-045-1-0	30	36	A	30	36	A
APAL-4-00110-1-2-8	90	4	1,1	1445	2,6	1590	55,0	17	61	HULB-1-045-1-24-0	GTLZ-42-1-045-1-0	30	36	A	30	36	A
APAL-4-00150-1-2-8	90	4	1,5	1440	3,4	1760	61,1	20	64	HULB-1-045-1-24-0	GTLZ-42-1-045-1-0	30	36	A	30	36	A
APAL-4-00220-1-2-8	100	4	2,2	1455	4,8	2000	68,7	28	72	HULB-1-045-1-28-0	GTLZ-42-1-045-2-0	30	36	A	30	36	B
APAL-4-00300-1-2-8	100	4	3	1445	6,3	2220	76,8	34	78	HULB-1-045-1-28-0	GTLZ-42-1-045-2-0	30	36	A	30	36	B
APAL-4-00400-2-2-8	112	4	4	1450	8,1	2450	84,5	38	82	HULB-1-045-1-28-0	GTLZ-42-1-045-2-0	30	36	A	30	36	B
APAL-4-00550-2-2-8	132	4	5,5	1460	10,9	2630	90,1	54	98	HULB-1-045-1-38-0	GTLZ-42-1-045-2-0	30	36	A	30	36	B
APAL-2-00750-2-2-8	132	2	7,5	2930	13,4	3000	51,2	55	99	HULB-1-045-1-38-0	GTLZ-42-1-045-2-0	30	36	A	30	36	B

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-050 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 500 mm



ATEX: Max speed is 2800 r/min
HT: Max speed is 1500 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wf(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	964	-4	5	2	-5	-5	-9	-14	-19	0	7.7
	964	1928	-4	0	3	-5	-5	-9	-14	-17	0	6.2
	1928	2800	-5	-4	-2	0	-6	-10	-14	-17	0	4.4
To inlet duct	0	964	4	2	-1	-3	-3	-10	-13	-17	0.4	7.4
	964	1928	1	-2	1	-4	-4	-8	-11	-16	0.4	5.8
	1928	2800	-4	-6	-3	-1	-4	-8	-10	-14	0.9	3.3
Through the casing	0	964	-12	-6	-7	-10	-10	-15	-22	-34	-6.4	5.2
	964	1928	-12	-7	-5	-12	-11	-16	-25	-36	-7.2	6.0
	1928	2800	-14	-14	-9	-7	-10	-18	-25	-36	-6.2	3.4
To fan outlet	0	964	-12	1	1	-5	-5	-9	-14	-19	-0.5	5.8
	964	1928	-13	-4	2	-5	-5	-9	-14	-17	-0.4	5.0
	1928	2800	-17	-8	-3	0	-6	-10	-14	-17	0	3.2

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

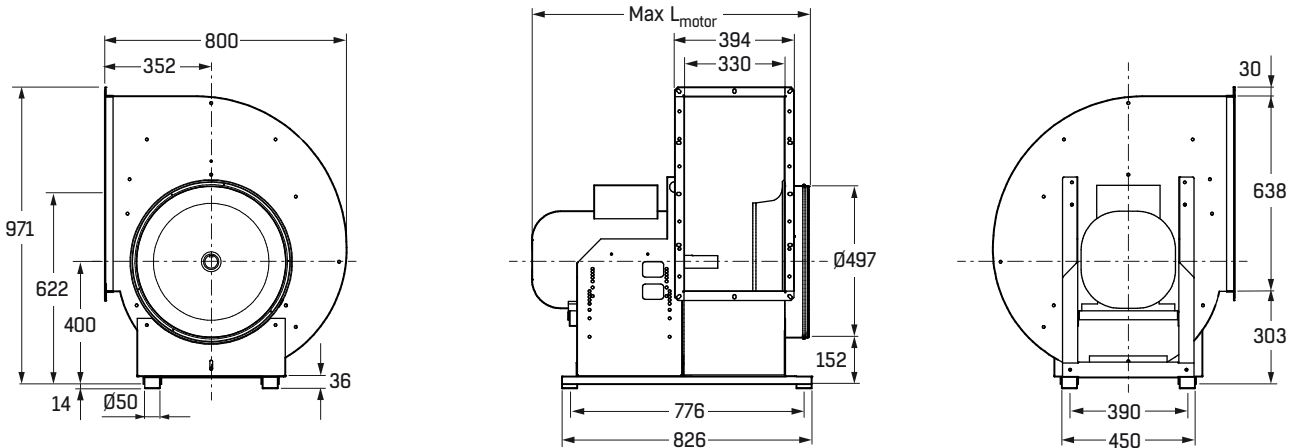
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅A	Back H5	*
AXDE-6-00055-c-2-0	80	6	0,55	938	1,8	1050	56,0	29	83	HULB-1-050-d8-19-1	GTLZ-44-1-050-1-0	30	36	A	30	36	A
AXDE-6-00075-c-2-0	90	6	0,75	946	2,1	1160	61,3	41	95	HULB-1-050-d8-24-1	GTLZ-44-1-050-2-0	30	36	A	30	36	B
AXDE-6-00110-c-2-0	90	6	1,1	938	3,1	1320	70,4	44	98	HULB-1-050-d8-24-1	GTLZ-44-1-050-2-0	30	36	A	30	36	B
AXDE-4-00150-c-2-0	90	4	1,5	1431	3,3	1460	51,0	44	98	HULB-1-050-d8-24-1	GTLZ-44-1-050-2-0	30	36	A	30	36	B
AXDE-4-00220-c-2-0	100	4	2,2	1437	4,4	1660	57,8	61	115	HULB-1-050-d8-28-1	GTLZ-44-1-050-2-0	30	36	A	30	36	B
AXDE-4-00300-c-2-0	100	4	3	1444	6,1	1840	63,7	63	118	HULB-1-050-d8-28-1	GTLZ-44-1-050-2-0	30	36	A	30	36	B
AXDE-4-00400-c-2-0	112	4	4	1458	8,6	2030	69,6	72	127	HULB-1-050-d8-28-1	GTLZ-44-1-050-2-0	30	36	A	30	36	B
AXDE-4-00550-c-2-0	132	4	5,5	1458	11,7	2250	77,2	102	156	HULB-1-050-d8-38-1	GTLZ-44-1-050-3-0	50	36	A	50	36	A
AXDE-4-00750-c-2-0	132	4	7,5	1460	16,7	2500	85,6	105	159	HULB-1-050-d8-38-1	GTLZ-44-1-050-3-0	50	36	A	50	36	A
AXDE-4-01100-c-2-0	160	4	11	1470	21,5	2645	90,0	226	280	HULB-1-050-d8-42-1	GTLZ-44-1-050-4-0	50	36	A	50	36	B
AXDE-2-01100-c-2-0	160	2	11	2931	20,2	2800	47,8	207	261	HULB-1-050-d8-42-1	GTLZ-44-1-050-4-0	50	36	A	50	36	B

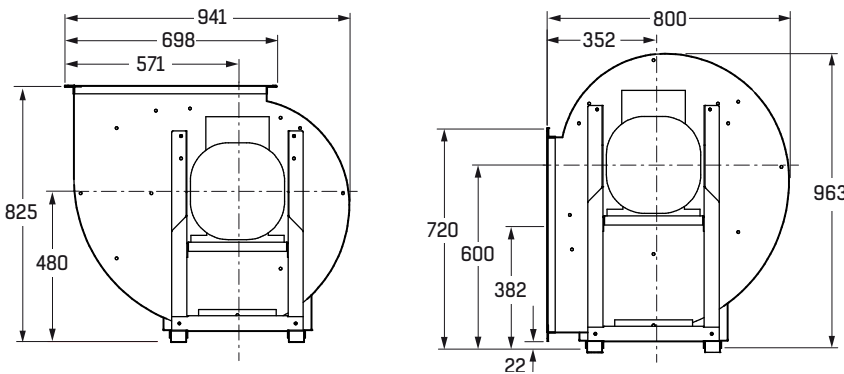
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-050 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



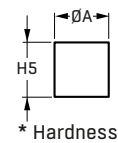
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
80	589	639
90	653	704
100	717	779
112	729	779
132	814	861
160	915	1109

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



* Hardness

MOTOR DATA STANDARD VERSION

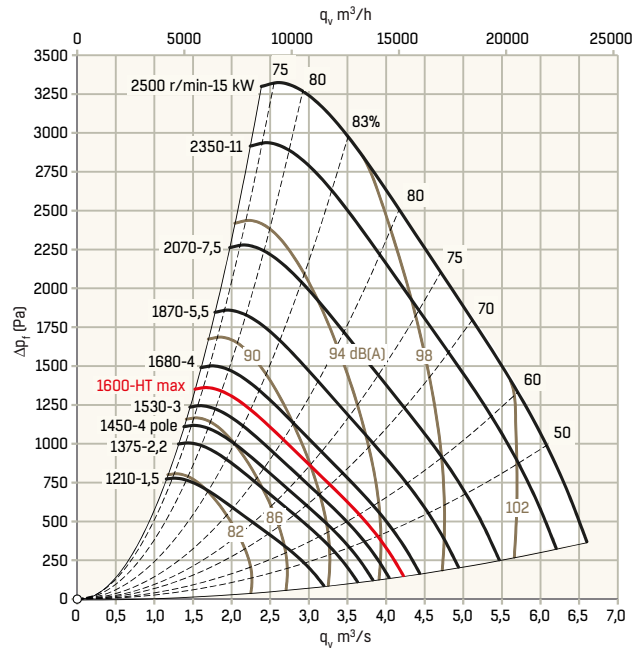
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-6-00055-1-2-7	80	6	0,55	900	1,8	1050	58,3	12	66	HULB-1-050-1-19-0	GTLZ-42-1-050-1-0	30	36	A	30	36	A
APAL-6-00075-1-2-8	90	6	0,75	955	2,1	1160	60,7	16	70	HULB-1-050-1-24-0	GTLZ-42-1-050-1-0	30	36	A	30	36	A
APAL-6-00110-1-2-8	90	6	1,1	955	3	1320	69,1	20	74	HULB-1-050-1-24-0	GTLZ-42-1-050-1-0	30	36	A	30	36	A
APAL-4-00150-1-2-8	90	4	1,5	1440	3,4	1460	50,7	20	74	HULB-1-050-1-24-0	GTLZ-42-1-050-1-0	30	36	A	30	36	A
APAL-4-00220-1-2-8	100	4	2,2	1455	4,8	1660	57,0	28	82	HULB-1-050-1-28-0	GTLZ-42-1-050-1-0	30	36	A	30	36	A
APAL-4-00300-1-2-8	100	4	3	1445	6,3	1840	63,7	34	86	HULB-1-050-1-28-0	GTLZ-42-1-050-1-0	30	36	A	30	36	A
APAL-4-00400-2-2-8	112	4	4	1450	8,1	2030	70,0	38	92	HULB-1-050-1-28-0	GTLZ-42-1-050-2-0	30	36	A	30	36	B
APAL-4-00550-2-2-8	132	4	5,5	1460	10,9	2250	77,1	54	108	HULB-1-050-1-38-0	GTLZ-42-1-050-2-0	30	36	A	30	36	B
APAL-4-00750-2-2-8	132	4	7,5	1460	14,6	2500	85,6	63	117	HULB-1-050-1-38-0	GTLZ-42-1-050-2-0	30	36	A	30	36	B
APAL-2-01100-2-2-8	160	2	11	2950	19,5	2800	47,5	128	182	HULB-1-050-1-42-0	GTLZ-42-1-050-3-0	50	36	A	50	36	A
APAL-4-01100-2-2-8	160	4	11	1470	21	2645	90,0	141	195	HULB-1-050-1-42-0	GTLZ-42-1-050-3-0	50	36	A	50	36	A

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-056 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 560 mm



ATEX: Max speed is 2350 r/min
HT: Max speed is 1600 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wf(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	964	-5	4	1	-5	-4	-9	-14	-18	0	7
	964	1928	-5	-2	2	-5	-4	-9	-14	-17	0	5.4
	1928	2500	-6	-5	-3	-1	-5	-9	-14	-17	0	3.7
To inlet duct	0	964	0	3	0	-5	-3	-8	-12	-15	0.6	6.4
	964	1928	-2	-3	1	-6	-3	-8	-12	-15	0.4	4.9
	1928	2500	-5	-6	-5	-1	-4	-8	-11	-14	0.7	3.0
Through the casing	0	964	-13	-5	-7	-10	-9	-15	-22	-33	-5.9	5.1
	964	1928	-13	-9	-5	-12	-10	-16	-25	-36	-6.8	5.1
	1928	2500	-14	-12	-10	-8	-11	-16	-25	-36	-6.8	3.5
To fan outlet	0	964	-13	0	0	-5	-4	-9	-14	-18	-0.3	5
	964	1928	-14	-6	1	-5	-4	-9	-14	-17	-0.2	4.1
	1928	2500	-16	-9	-4	-1	-5	-9	-14	-17	0	2.7

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

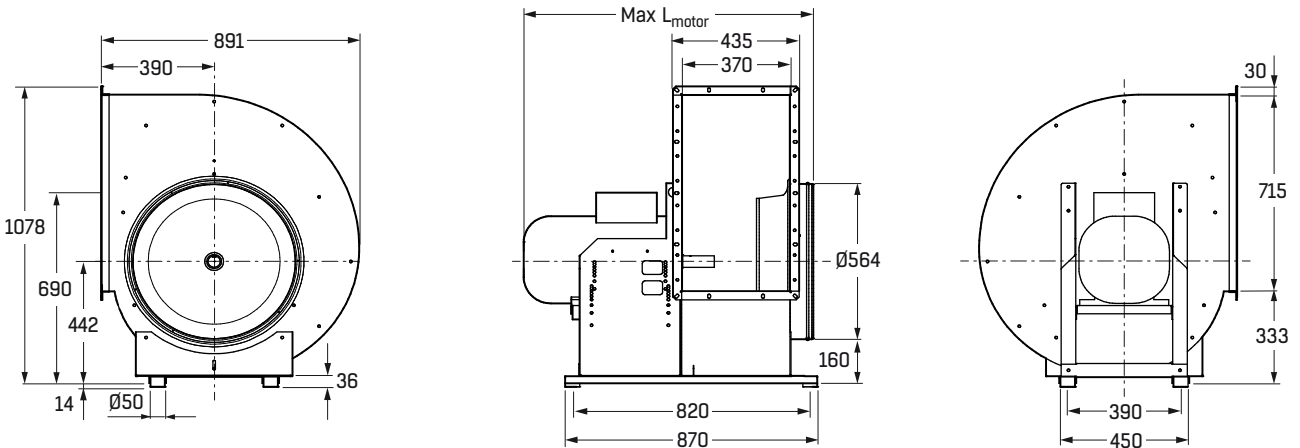
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅A	Back H5	*
AXDE-6-00110-c-2-0	90	6	1,1	938	3,1	1100	58,6	44	117	HULB-1-056-d8-24-1	GTLZ-44-1-056-1-0	50	36	A	50	36	A
AXDE-6-00150-c-2-0	100	6	1,5	951	3,7	1210	63,6	60	133	HULB-1-056-d8-28-1	GTLZ-44-1-056-1-0	50	36	A	50	36	A
AXDE-6-00220-c-2-0	112	6	2,2	950	5,5	1375	72,4	63	136	HULB-1-056-d8-28-1	GTLZ-44-1-056-1-0	50	36	A	50	36	A
AXDE-4-00300-c-2-0	100	4	3	1444	6,1	1530	53,0	63	136	HULB-1-056-d8-28-1	GTLZ-44-1-056-1-0	50	36	A	50	36	A
AXDE-4-00400-c-2-0	112	4	4	1458	8,6	1680	57,6	72	145	HULB-1-056-d8-28-1	GTLZ-44-1-056-1-0	50	36	A	50	36	A
AXDE-4-00550-c-2-0	132	4	5,5	1458	11,7	1870	64,1	102	175	HULB-1-056-d8-38-1	GTLZ-44-1-056-1-0	50	36	A	50	36	A
AXDE-4-00750-c-2-0	132	4	7,5	1460	16,7	2070	70,9	105	178	HULB-1-056-d8-38-1	GTLZ-44-1-056-1-0	50	36	A	50	36	A
AXDE-4-01100-c-2-0	160	4	11	1470	21,5	2350	79,9	226	214	HULB-1-056-d8-42-1	GTLZ-44-1-056-2-0	50	36	A	50	36	B

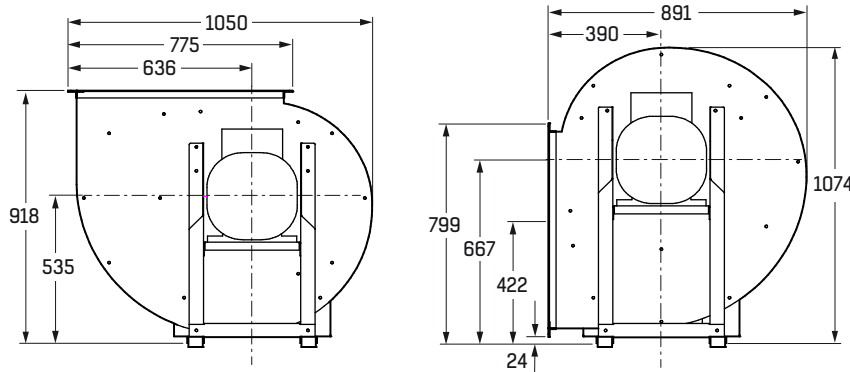
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-056 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



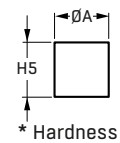
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
90	692	743
100	756	818
112	768	818
132	853	900
160	1021	1148

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA STANDARD VERSION

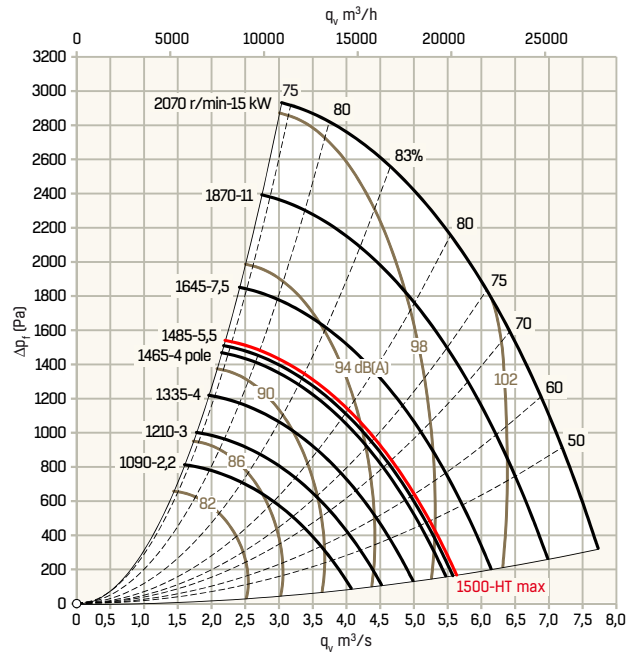
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	øA	Front H5	*	øA	Back H5	*
APAL-6-00110-1-2-8	90	6	1,1	955	3	1100	57,6	20	93	HULB-1-056-1-24-0	GTLZ-42-1-056-1-0	30	36	A	30	36	A
APAL-6-00150-1-2-8	100	6	1,5	960	3,8	1210	63,0	29	102	HULB-1-056-1-28-0	GTLZ-42-1-056-2-0	30	36	B	30	36	B
APAL-6-00220-2-2-8	112	6	2,2	965	5,6	1375	71,2	36	109	HULB-1-056-1-28-0	GTLZ-42-1-056-2-0	30	36	B	30	36	B
APAL-4-00300-1-2-8	100	4	3	1445	6,3	1530	52,9	34	107	HULB-1-056-1-28-0	GTLZ-42-1-056-2-0	30	36	B	30	36	B
APAL-4-00400-2-2-8	112	4	4	1450	8,1	1680	57,9	38	111	HULB-1-056-1-28-0	GTLZ-42-1-056-2-0	30	36	B	30	36	B
APAL-4-00550-2-2-8	132	4	5,5	1460	10,9	1870	64,0	54	127	HULB-1-056-1-38-0	GTLZ-42-1-056-2-0	30	36	B	30	36	B
APAL-4-00750-2-2-8	132	4	7,5	1460	14,6	2070	70,9	63	136	HULB-1-056-1-38-0	GTLZ-42-1-056-2-0	30	36	B	30	36	B
APAL-4-01100-2-2-8	160	4	11	1470	21	2350	79,9	141	214	HULB-1-056-1-42-0	GTLZ-42-1-056-3-0	50	36	A	50	36	B
APAL-4-01500-2-2-8	160	4	15	1470	28	2500	85,0	160	233	HULB-1-056-1-42-0	GTLZ-42-1-056-3-0	50	36	A	50	36	B

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-063 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 630 mm



ATEX: Max speed is 1870 r/min
HT: Max speed is 1500 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{WT(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	816	-5	3	0	-5	-4	-8	-14	-17	0	6.3
	816	1632	-6	-4	1	-5	-4	-8	-14	-17	0	4.5
	1632	2070	-7	-6	-5	-1	-5	-9	-14	-17	0	3.1
To inlet duct	0	816	-4	3	0	-7	-3	-9	-11	-14	0.3	6.1
	816	1632	-5	-4	1	-8	-3	-9	-13	-14	0	4.5
	1632	2070	-8	-7	-5	-2	-3	-9	-12	-14	0.5	2.6
Through the casing	0	816	-13	-6	-7	-10	-9	-14	-22	-32	-5.7	4.6
	816	1632	-14	-11	-7	-10	-9	-14	-22	-32	-5.8	3.5
	1632	2070	-15	-13	-9	-8	-11	-16	-25	-36	-6.7	3.5
To fan outlet	0	816	-12	0	-1	-5	-4	-8	-14	-17	-0.2	4.7
	816	1632	-13	-7	0	-5	-4	-8	-14	-17	-0.2	3.6
	1632	2070	-15	-9	-6	-1	-5	-9	-14	-17	-0.1	2.4

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

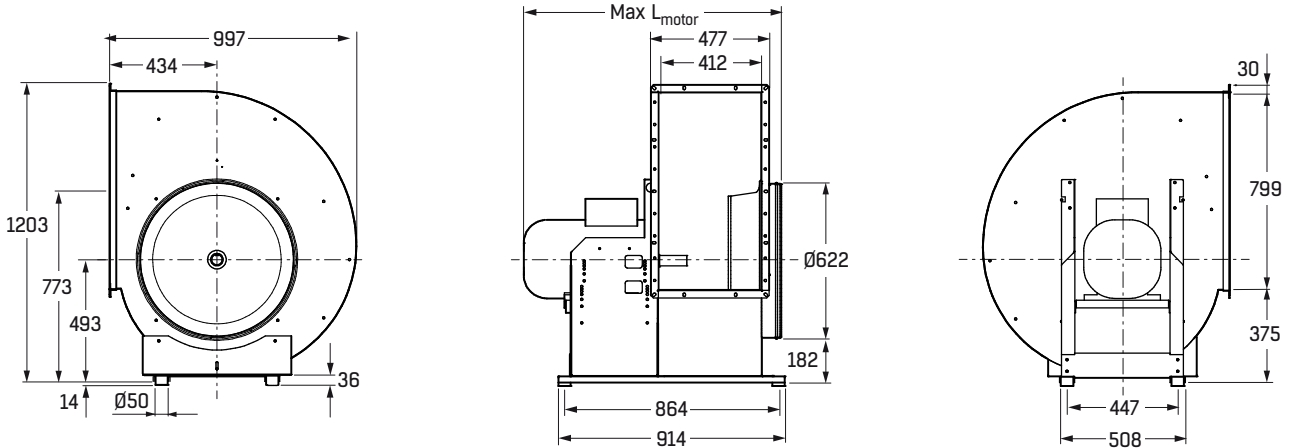
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	Back ∅A	Back H5	*
AXDE-6-00220-c-2-0	112	6	2,2	950	5,5	1090	57,4	63	163	HULB-1-063-d8-28-1	GTLZ-44-1-063-1-0	50	36	A	50	36	A
AXDE-6-00300-c-2-0	132	6	3	961	6,8	1210	63,0	96	196	HULB-1-063-d8-38-1	GTLZ-44-1-063-1-0	50	36	A	50	36	A
AXDE-6-00400-c-2-0	132	6	4	967	9,3	1335	69,0	98	198	HULB-1-063-d8-38-1	GTLZ-44-1-063-1-0	50	36	A	50	36	A
AXDE-4-00550-c-2-0	132	4	5,5	1458	11,7	1485	50,9	102	202	HULB-1-063-d8-38-1	GTLZ-44-1-063-1-0	50	36	A	50	36	A
AXDE-4-00750-c-2-0	132	4	7,5	1460	16,7	1645	56,3	105	205	HULB-1-063-d8-38-1	GTLZ-44-1-063-1-0	50	36	A	50	36	A
AXDE-4-01100-c-2-0	160	4	11	1470	21,5	1870	63,6	226	326	HULB-1-063-d8-42-1	GTLZ-44-1-063-2-0	50	36	A	50	36	B

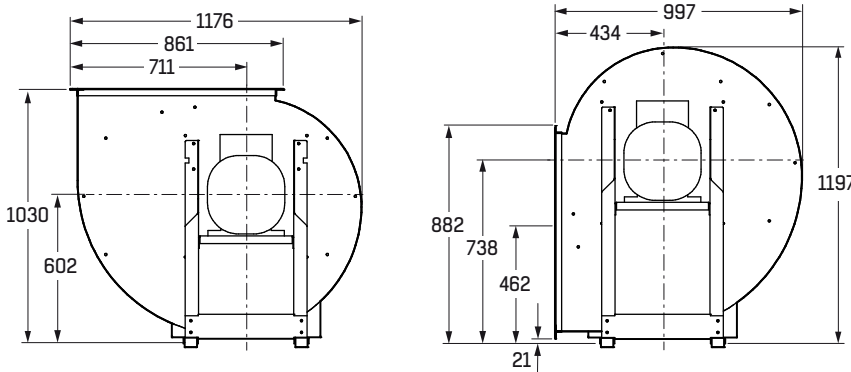
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-063 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



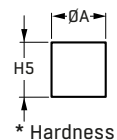
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
112	776	859
132	894	941
160	1062	1189

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA STANDARD VERSION

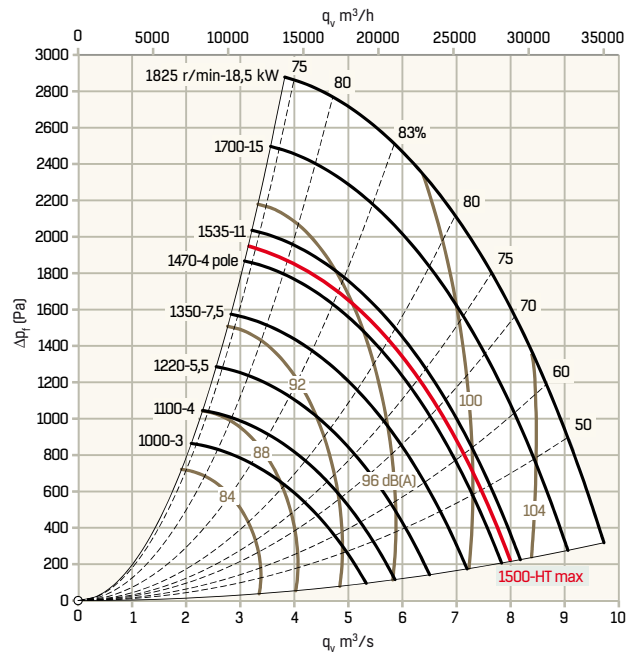
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-6-00220-2-2-8	112	6	2.2	965	5.6	1090	56.5	36	136	HULB-1-063-1-28-0	GTLZ-42-1-063-1-0	30	36	B	30	36	B
APAL-6-00300-2-2-8	132	6	3	975	7	1210	62.1	47	147	HULB-1-063-1-38-0	GTLZ-42-1-063-1-0	30	36	B	30	36	B
APAL-6-00400-2-2-8	132	6	4	970	9	1335	68.8	57	157	HULB-1-063-1-38-0	GTLZ-42-1-063-1-0	30	36	B	30	36	B
APAL-4-00550-2-2-8	132	4	5.5	1460	10.9	1485	50.9	54	154	HULB-1-063-1-38-0	GTLZ-42-1-063-1-0	30	36	B	30	36	B
APAL-4-00750-2-2-8	132	4	7.5	1460	14.6	1645	56.3	63	163	HULB-1-063-1-38-0	GTLZ-42-1-063-1-0	30	36	B	30	36	B
APAL-4-01100-2-2-8	160	4	11	1470	21	1870	63.6	141	241	HULB-1-063-1-42-0	GTLZ-42-1-063-2-0	50	36	A	50	36	B
APAL-4-01500-2-2-8	160	4	15	1470	28	2070	70.4	160	260	HULB-1-063-1-42-0	GTLZ-42-1-063-2-0	50	36	A	50	36	B

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-071 - FAN CHARTS, MOTOR DATA

DIRECT DRIVEN, SINGLE-INLET, BACKWARD-CURVED BLADES

Impeller diameter: 710 mm



ATEX: Max speed is 1535 r/min
HT: Max speed is 1500 r/min

SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wf(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	816	-5	2	-1	-4	-4	-9	-14	-20	0	5,6
	816	1632	-5	-6	-1	-4	-3	-9	-15	-20	0	3,9
	1632	1825	-6	-6	-4	-2	-4	-9	-14	-19	0	3,2
To inlet duct	0	816	-3	2	-1	-6	-5	-9	-14	-19	-1	6,6
	816	1632	-3	-5	0	-7	-5	-10	-14	-19	-1,3	5,3
	1632	1825	-5	-6	-5	-2	-5	-9	-13	-18	-0,4	3,5
Through the casing	0	816	-13	-6	-7	-9	-9	-15	-22	-35	-5,7	4,7
	816	1632	-13	-13	-7	-9	-8	-15	-23	-35	-5,3	3,2
	1632	1825	-14	-13	-10	-9	-10	-16	-25	-38	-6,7	3,2
To fan outlet	0	816	-11	-1	-2	-4	-4	-9	-14	-20	-0,4	4,3
	816	1632	-11	-9	-2	-4	-3	-9	-15	-20	0	2,8
	1632	1825	-13	-9	-5	-2	-4	-9	-14	-19	-0,1	2,4

For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

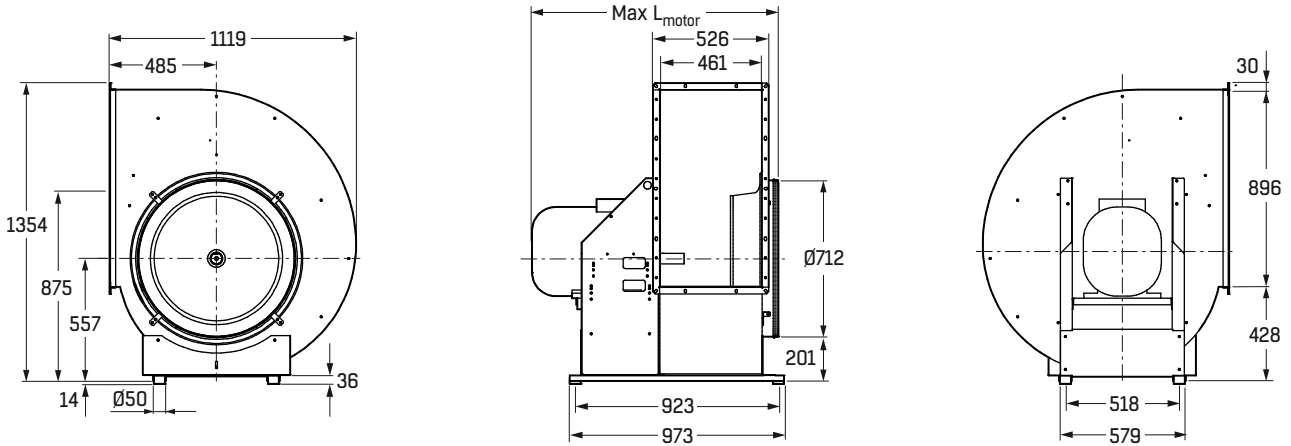
MOTOR DATA ATEX VERSION

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	∅A	Front H5	*	∅A	Back H5	*
AXDE-6-00300-c-2-0	132	6	3	961	6,8	1000	52,0	96	226	HULB-1-071-d8-38-1	GTLZ-44-1-071-1-0	50	36	A	50	36	A
AXDE-6-00400-c-2-0	132	6	4	967	9,3	1100	56,9	98	228	HULB-1-071-d8-38-1	GTLZ-44-1-071-1-0	50	36	A	50	36	A
AXDE-6-00550-c-2-0	132	6	5,5	967	12,7	1220	63,1	105	235	HULB-1-071-d8-38-1	GTLZ-44-1-071-1-0	50	36	A	50	36	A
AXDE-6-00750-c-2-0	160	6	7,5	965	15,8	1350	69,9	247	377	HULB-1-071-d8-42-1	GTLZ-44-1-071-2-0	50	36	A	50	36	B
AXDE-4-01100-c-2-0	160	4	11	1470	21,5	1535	52,2	226	356	HULB-1-071-d8-42-1	GTLZ-44-1-071-2-0	50	36	A	50	36	B

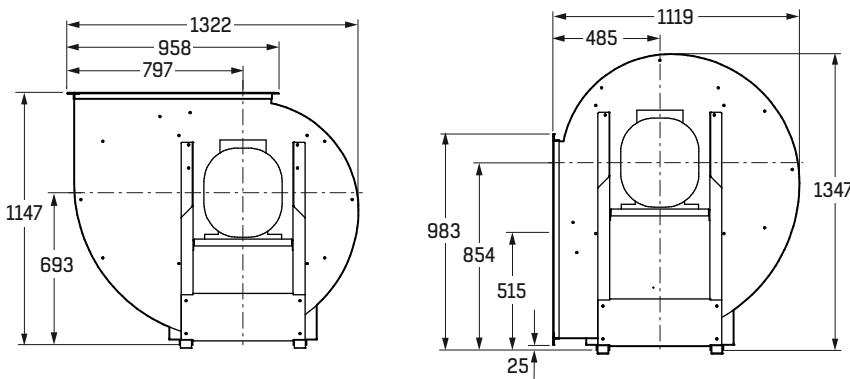
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

GTLB-1-071 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION



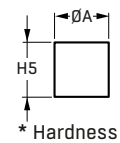
Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard	ATEX
132	935	982
160	1103	1230
180	1148	-

Note! See separate data for ATEX and HT version.

GTLZ-42-1-ccc-d-e ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA STANDARD VERSION

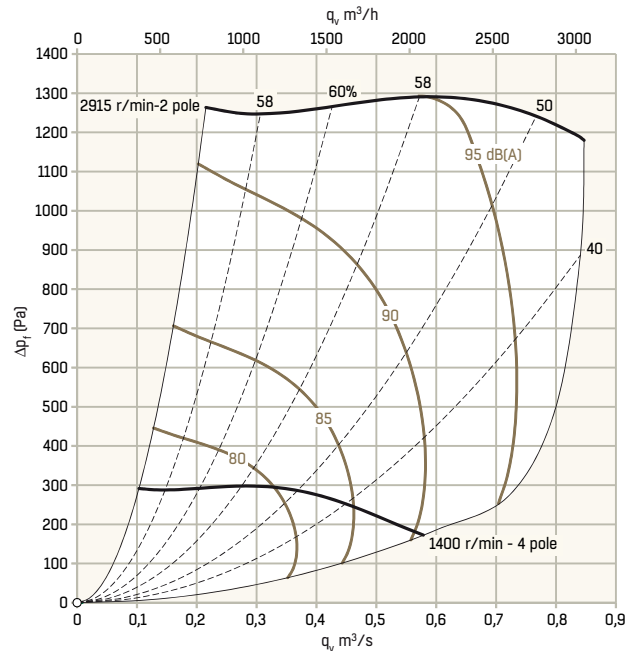
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Max speed r/min	Max Hz	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-6-00300-2-2-8	132	6	3	975	7	1000	51.3	47	177	HULB-1-071-1-38-0	GTLZ-42-1-071-1-0	50	36	A	50	36	A
APAL-6-00400-2-2-8	132	6	4	970	9	1100	56.7	57	187	HULB-1-071-1-38-0	GTLZ-42-1-071-1-0	50	36	A	50	36	A
APAL-6-00550-2-2-8	132	6	5.5	975	12.7	1220	62.6	66	196	HULB-1-071-1-38-0	GTLZ-42-1-071-1-0	50	36	A	50	36	A
APAL-6-00750-2-2-8	160	6	7.5	975	16.5	1350	69.2	154	284	HULB-1-071-1-42-0	GTLZ-42-1-071-2-0	50	36	A	50	36	B
APAL-4-01100-2-2-8	160	4	11	1470	21	1535	52.2	141	271	HULB-1-071-1-42-0	GTLZ-42-1-071-2-0	50	36	A	50	36	B
APAL-4-01500-2-2-8	160	4	15	1470	28	1700	57.8	160	290	HULB-1-071-1-42-0	GTLZ-42-1-071-2-0	50	36	A	50	36	B
APAL-4-01850-2-2-8	180	4	18.5	1470	34	1825	62.1	195	325	HULB-1-071-1-48-0	GTLZ-42-1-071-2-0	50	36	A	50	36	B

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

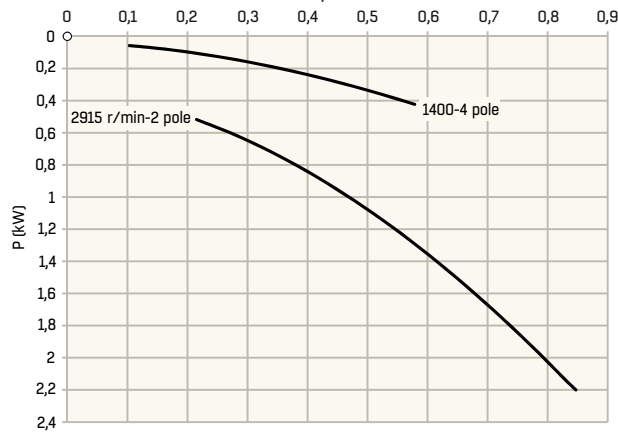
GTLF-1-020 - FAN CHARTS, SOUND DATA

DIRECT DRIVEN, SINGLE-INLET, FORWARD-CURVED BLADES

Impeller diameter: 200 mm



POWER DEMAND



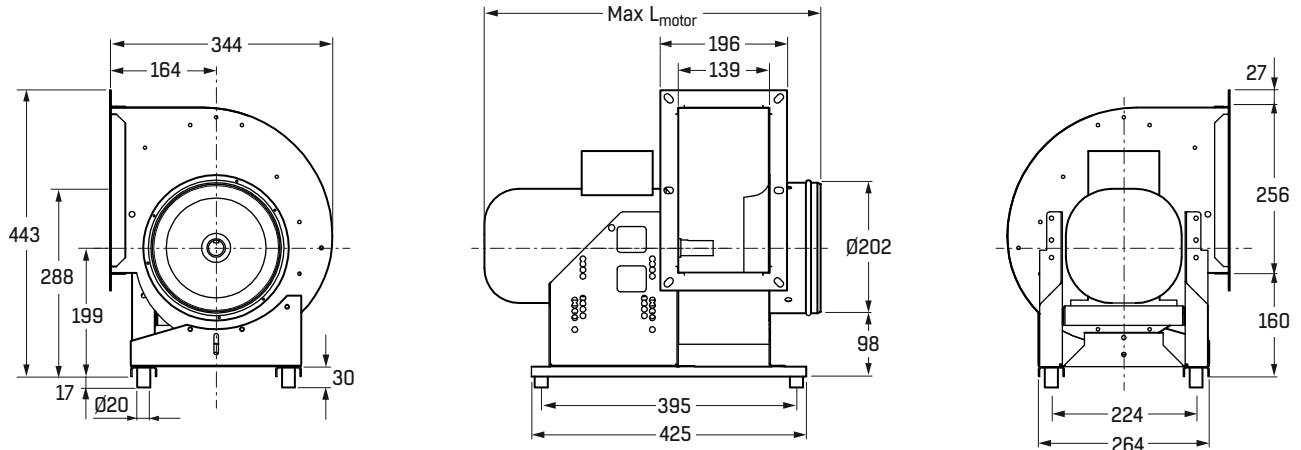
SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K _{oct} in octave band mid frequency (Hz)								L _{WA(s)} - L _{WA} dB	L _{W(s)} - L _{WA(s)} dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1117	5	5	2	-4	-7	-9	-11	-12	0	-9.4
	1117	2233	6	3	-1	-5	-6	-8	-9	-11	0	8.9
	2233	3000	5	1	-3	-4	-7	-8	-10	-10	0	7.7
To inlet duct	0	1117	8	2	-4	-9	-8	-14	-15	-20	-3.7	13.1
	1117	2233	8	-1	-8	-11	-9	-11	-11	-15	-3.5	12.3
	2233	3000	6	1	-7	-10	-11	-9	-10	-13	-2.8	10.5
Through the casing	0	1117	-7	-6	-4	-5	-7	-11	-18	-22	-2.7	4.4
	1117	2233	-7	-8	-8	-9	-8	-9	-17	-23	-3.6	3.4
	2233	3000	-8	-8	-10	-9	-8	-6	-13	-19	-2.0	2.1
To fan outlet	0	1117	-17	-6	-3	-6	-7	-9	-11	-12	-1.5	3.2
	1117	2233	-19	-10	-6	-7	-6	-8	-9	-11	-0.9	1.6
	2233	3000	-21	-13	-8	-6	-7	-7	-8	-10	-0.6	1.1

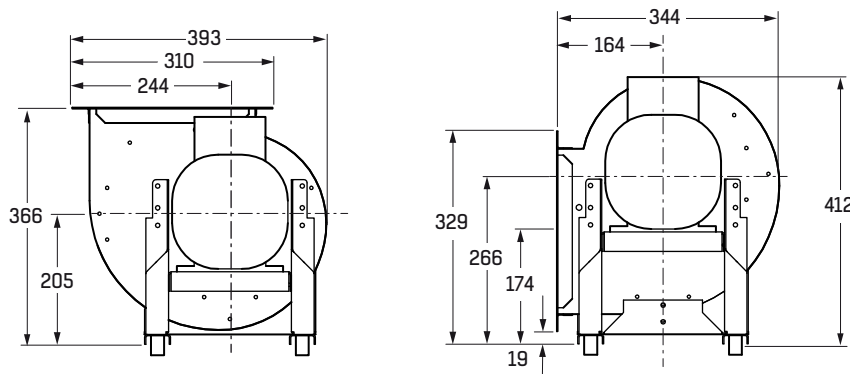
For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

GTLF-1-020 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION

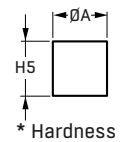


Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard
71	413
80	457
90	521

ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA

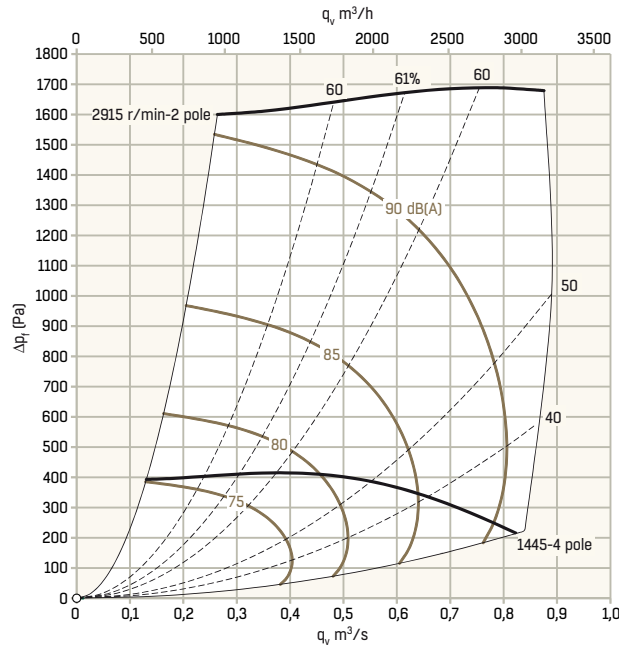
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Erp-compliant	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-4-00037-1-2-7	71	4	0.37	1380	1.1	no	6	16	HULF-1-020-1-14-0	GTLZ-42-1-020-1-0	20	30	A	20	30	A
APAL-4-00055-1-2-7	80	4	0.55	1400	1.6	no	10	20	HULF-1-020-1-19-0	GTLZ-42-1-020-1-0	20	30	A	20	30	A
APAL-2-00150-1-2-8	90	2	1.5	2920	3.2	yes	17	27	HULF-1-020-1-24-0	GTLZ-42-1-020-1-0	20	30	A	20	30	A
APAL-2-00220-1-2-8	90	2	2.2	2915	4.4	yes	19	29	HULF-1-020-1-24-0	GTLZ-42-1-020-1-0	20	30	A	20	30	A

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

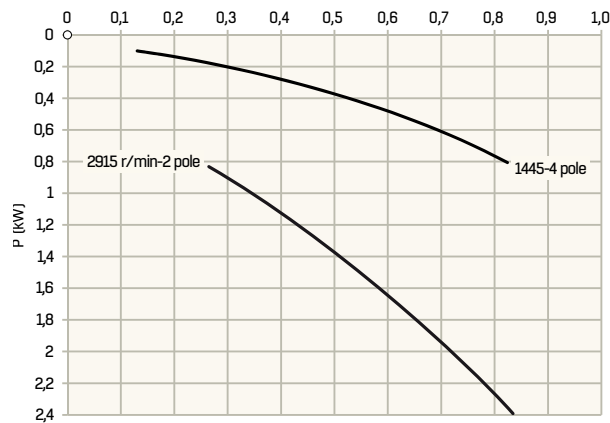
GTLF-1-022 - FAN CHARTS, SOUND DATA

DIRECT DRIVEN, SINGLE-INLET, FORWARD-CURVED BLADES

Impeller diameter: 220 mm



POWER DEMAND



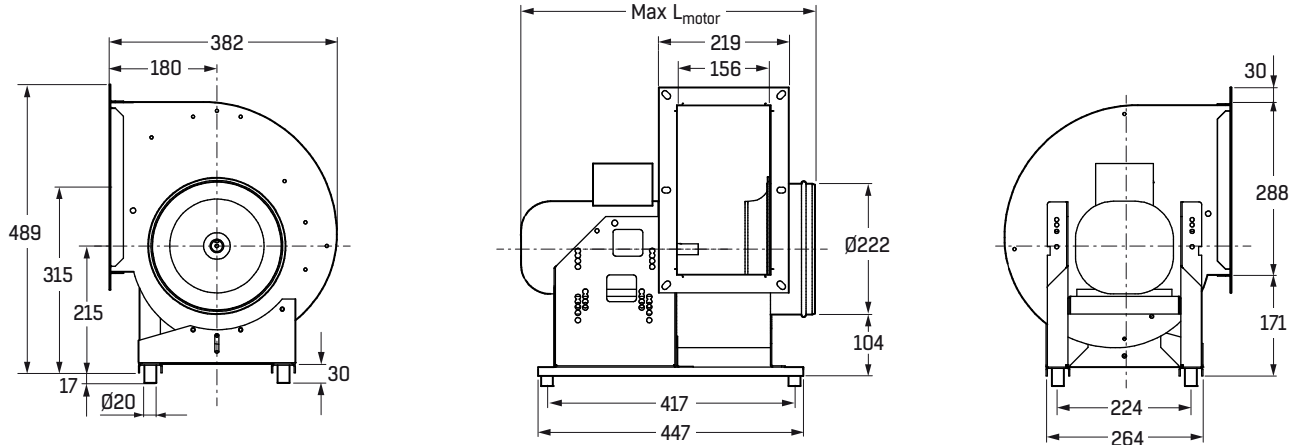
SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wt(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1061	5	5	2	-4	-7	-9	-10	-13	0	9.4
	1061	2122	5	4	-1	-6	-5	-8	-9	-12	0	8.6
	2122	3000	5	1	-3	-4	-7	-7	-8	-11	0	7.7
To inlet duct	0	1061	8	1	-3	-8	-7	-12	-14	-20	-2.8	12.1
	1061	2122	8	-2	-9	-11	-7	-11	-9	-15	-2.4	11.2
	2122	3000	6	0	-7	-10	-10	-9	-9	-13	-2.5	10
Through the casing	0	1061	-7	-6	-4	-5	-7	-11	-17	-23	-2.6	4.3
	1061	2122	-8	-7	-8	-10	-7	-9	-17	-24	-3.4	3.2
	2122	3000	-8	-8	-10	-9	-8	-6	-13	-20	-2.0	2.1
To fan outlet	0	1061	-16	-4	-3	-6	-7	-9	-10	-13	-1.4	3.6
	1061	2122	-18	-8	-6	-8	-5	-8	-9	-12	-0.8	1.8
	2122	3000	-19	-12	-8	-6	-7	-7	-8	-11	-0.7	1.2

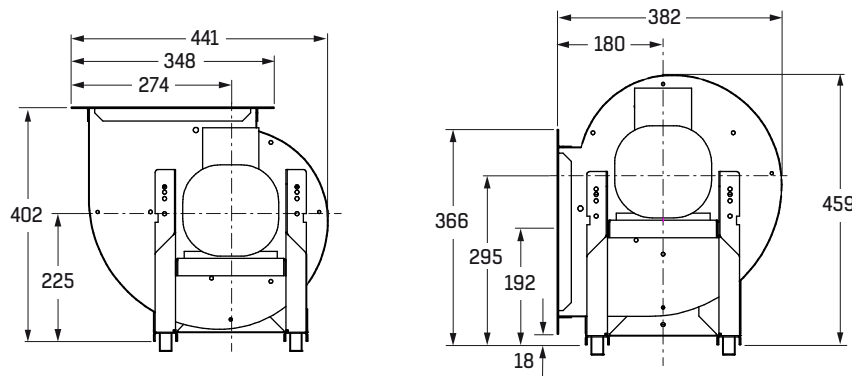
For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

GTLF-1-022 - DIMENSIONS AND WEIGHTS, MOTOR DATA

RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION

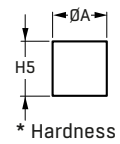


Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard
80	498
90	524

ANTI-VIBRATION MOUNTINGS, RUBBER



MOTOR DATA

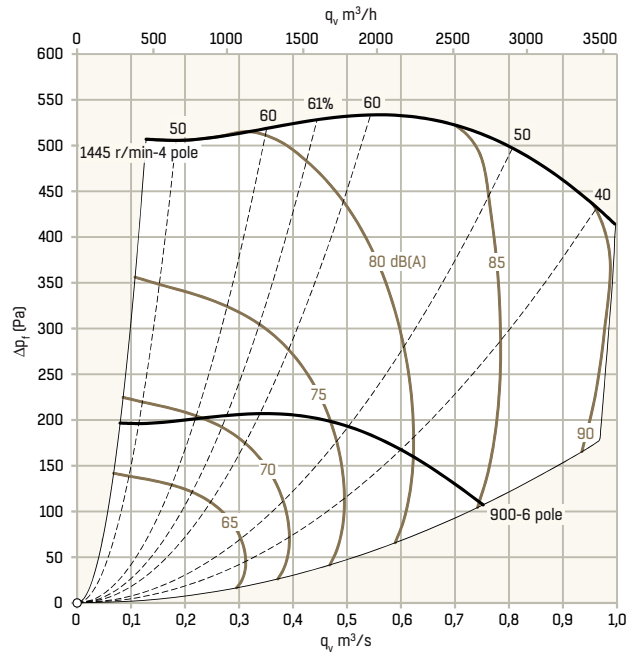
Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Erp-compliant	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	ØA	Back H5	*
APAL-4-00075-1-2-8	80	4	0.75	1445	1.8	yes	16	27	HULF-1-022-1-19-0	GTLZ-42-1-022-1-0	20	30	A	20	30	A
APAL-2-00150-1-2-8	90	2	1.5	2920	3.2	yes	17	28	HULF-1-022-1-24-0	GTLZ-42-1-022-1-0	20	30	A	20	30	A
APAL-2-00220-1-2-8	90	2	2.2	2915	4.4	yes	19	30	HULF-1-022-1-24-0	GTLZ-42-1-022-1-0	20	30	A	20	30	A

¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

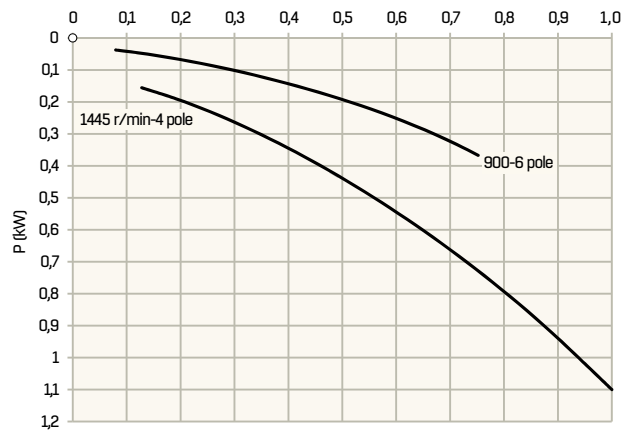
GTLF-1-025 - FAN CHARTS, SOUND DATA

DIRECT DRIVEN, SINGLE-INLET, FORWARD-CURVED BLADES

Impeller diameter: 250 mm



POWER DEMAND



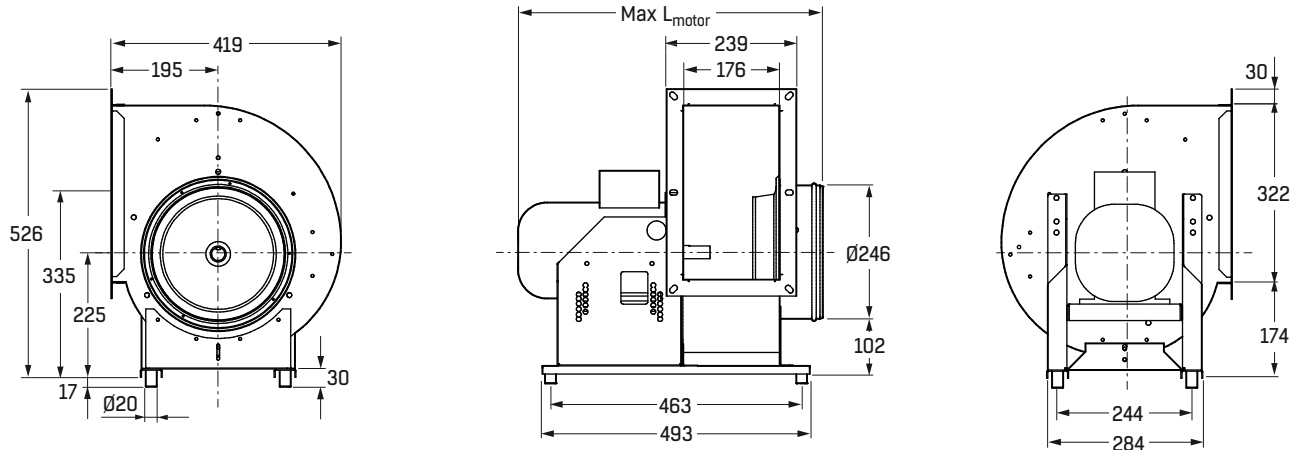
SOUND DATA

Sound path s	Min r/min	Max r/min	Correction (dB) K_{oct} in octave band mid frequency (Hz)								$L_{WA(s)} - L_{WA}$ dB	$L_{Wt(s)} - L_{WA(s)}$ dB
			63	125	250	500	1000	2000	4000	8000		
To outlet duct	0	1117	4	5	1	-3	-7	-10	-10	-12	0	9
	1117	1500	5	4	-1	-6	-5	-8	-9	-11	0	8.7
To inlet duct	0	1117	8	-1	-4	-8	-6	-12	-13	-19	-2.4	11.5
	1117	1500	7	1	-8	-11	-6	-10	-10	-15	-2	10.4
Through the casing	0	1117	-8	-6	-5	-4	-7	-12	-17	-22	-2.6	4.1
	1117	1500	-8	-7	-8	-10	-7	-9	-17	-23	-3.3	3.2
To fan outlet	0	1117	-15	-3	-3	-5	-7	-10	-10	-12	-1.3	3.9
	1117	1500	-16	-6	-5	-8	-5	-8	-9	-11	-0.6	2.2

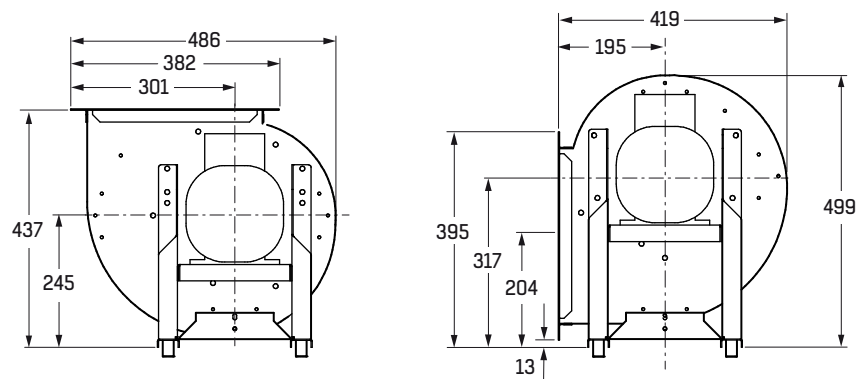
For information how to calculate sound data, sound pressure level and remote attenuation, see page 9.

GTLF-1-025 - DIMENSIONS AND WEIGHTS, MOTOR DATA

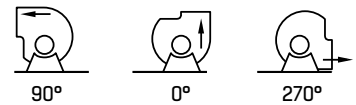
RIGHT-HAND VERSION WITH 90° DIRECTION OF DISCHARGE SHOWN



RIGHT-HAND VERSION (VIEWED FROM DRIVE SIDE)



LEFT-HAND VERSION

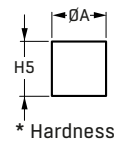


Left-hand version has the same dimensions as the right-hand version.

Max L_{motor}

Motor IEC	Standard
80	528
90	515

ANTI-VIBRATION MOUNTINGS, RUBBER



* Hardness

MOTOR DATA

Motor Code	Motor IEC	Number of Poles	Nom Power kW	Nom Speed r/min	Nom current A	Erp-compliant	Motor weight kg	Total ¹⁾ weight kg	Hub Code	Anti vibration mounting code	ØA	Front H5	*	Back ØA	H5	*
APAL-6-00037-1-2-7	80	6	0.37	900	1.3	no	10	22	HULF-1-025-1-19-0	GTLZ-42-1-025-1-0	20	30	A	20	30	A
APAL-4-00075-1-2-8	80	4	0.75	1445	1.8	yes	16	28	HULF-1-025-1-19-0	GTLZ-42-1-025-1-0	20	30	A	20	30	A
APAL-4-00110-1-2-8	90	4	1.1	1445	2.4	yes	17	29	HULF-1-025-1-24-0	GTLZ-42-1-025-1-0	20	30	A	20	30	A

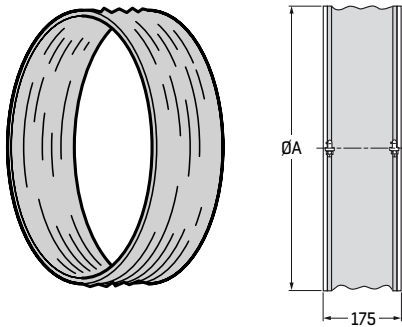
¹⁾ Appr. total weight in kg for motor and fan (casing + impeller).

ACCESSORIES

FLEXIBLE CONNECTION, INLET

STANDARD/ATEX VERSION - GTLZ-11-1-ccc-1-0

HIGH TEMPERATURE VERSION - GTLZ-12-1-ccc-1-0

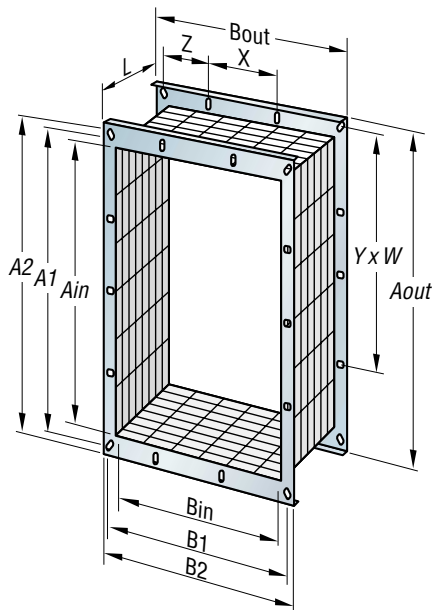


Size	020	022	025	028	031	035	040	045	050	056	063	071
$\varnothing A$	206	231	256	296	316	358	406	454	506	586	836	718

FLEXIBLE CONNECTION, OUTLET

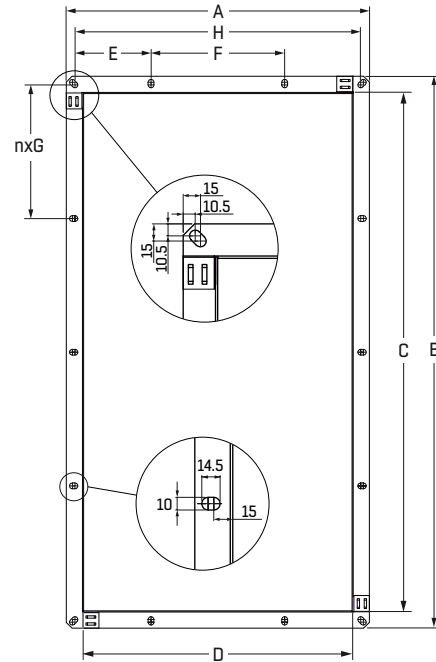
STANDARD/ATEX VERSION - GTLZ-21-1-ccc-1-0

HIGH TEMPERATURE VERSION - GTLZ-22-1-ccc-1-0



Size	A_{in}	A_{out}	A_1	A_2	B_{in}	B_{out}	B_1	B_2	Z	X	Y	W	n	D	L
020	256	310	280	29	142	196	166	175	-	-	1	140,0	6	10	115
022	288	348	318	328	159	219	189	198	-	-	1	159,0	6	10	115
025	322	382	352	362	179	239	209	219	-	-	2	176,0	6	10	115
028	361	421	391	400	197	257	227	236	-	-	2	200,5	6	10	115
031	404	465	434	444	217	277	247	257	-	-	2	217,0	6	10	115
035	453	513	483	492	242	302	272	281	136,0	-	2	241,5	6	10	115
040	507	567	537	546	269	329	299	308	149,5	-	4	134,3	12	10	115
045	569	629	599	608	299	359	329	338	164,5	-	4	149,8	12	10	150
050	638	698	668	677	334	394	364	373	182,0	-	4	167,0	12	10	150
056	715	775	745	754	375	435	405	414	109,3	186,3	4	186,3	14	10	150
063	801	861	831	840	417	477	447	456	119,6	207,8	4	207,8	14	10	150
071	898	958	928	937	466	526	496	505	132,0	232,0	4	232,0	14	10	150

COUNTER FLANGE, OUTLET - GTLZ-24-1-ccc-1-0



Size	A	B	C	D	E	F	n	G	H
020	196	310	256	142	-	-	2	140	166
022	219	348	288	159	-	-	2	159	189
025	239	382	322	179	-	-	2	176	209
028	257	421	361	197	-	-	2	195.5	227
031	277	464	404	217	-	-	2	217	247
035	302	513	453	242	136	-	2	241.5	272
040	329	567	507	269	149.5	-	4	134.5	299
045	359	629	569	299	165	-	4	150	329
050	394	698	638	334	182	-	4	167	364
056	435	775	715	375	109	186	4	186	405
063	477	861	801	417	119.5	207.5	4	207.5	447
071	526	958	898	466	132	232	4	232	496

PROTECTIVE SCREEN, INLET

STANDARD VERSION - GTLZ-13-1-ccc-1-0

ATEX VERSION - GTLZ-15-1-ccc-1-0 (only for GTLB)



ACCESSORIES

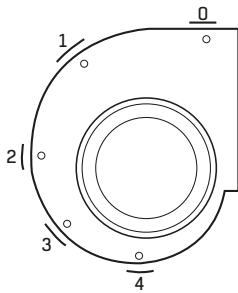
PROTECTIVE SCREEN, OUTLET

STANDARD VERSION - GTLZ-23-1-ccc-1-0

ATEX VERSION - GTLZ-18-1-ccc-1-0 (only for GTLB)

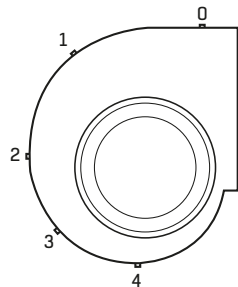


INSPECTION COVER - GTLZ-32-1-ccc-d-0



- Mounted on the back plate of the fan. Made of galvanized sheet steel.
 - d = location on fan casing, see illustration
- Inspection cover is standard in ATEX version.

DRAIN - GTLZ-34-1-ccc-d-0



- Mounted on the back plate of the fan
- d = location on fan casing, see illustration

NOTE! The position of the inspection cover and drain depends on the discharge direction. Recommended positions are:

- | | | |
|--------|-------------------------|--|
| • 0° | GTLB/GTLF-1-bbb-c-d1-00 | GTLZ-32-1-ccc-4-0
GTLZ-34-1-ccc-2-0 |
| • 90° | GTLB/GTLF-1-bbb-c-d3-00 | GTLZ-32-1-ccc-1-0
GTLZ-34-1-ccc-4-0 |
| • 270° | GTLB/GTLF-1-bbb-c-d7-00 | GTLZ-32-1-ccc-3-0
GTLZ-34-1-ccc-0-0 |

ANTI-VIBRATION MOUNTINGS, RUBBER

STANDARD VERSION - GTLZ-42-1-ccc-d-0

ATEX VERSION - GTLZ-44-1-ccc-d-0

- See figures for dimensions and ordering codes on the relevant fan pages.

FLOW MEASUREMENT DEVICE

FOR GTLF FANS - GTLZ-50-1-ccc-1-0

FOR GTLB FANS - GTLZ-51-1-ccc-1-0



The flow measurement device is used for measuring the air flow in fans of type GT. This is done by measuring the differential pressure in the device. The flow measurement device should be mounted in the fan inlet. The air flow is calculated as a function of coefficient k and the pressure reading Δp_m in the following manner:

$$q_v = \frac{1}{k} \cdot \sqrt{\Delta p_m}$$

- where q_v = air flow (m³/s)
 Δp_m = differential pressure reading (Pa)
 k = coefficient unique to the fan selected

The air flow that corresponds to the differential pressure reading can most easily be read with a manometer whose scale is graduated in accordance with the function above for the selected fan. The accuracy of the readings is $\pm 10\%$.

PAINTED FINISH - GTLZ-60-1-ccc-d-0

- Inner and outer surfaces
- d = 1 Epoxy powder painted finish, 60 μ m, color RAL7005, dark grey
- d = 2 Epoxy powder painted finish, 100 μ m, color RAL7005, dark grey
- d = 3 Wet painted finish, 3 coats, 250 μ m, color RAL7005, dark grey, impeller painted as in d = 2
- With painted finish all the bolts are made of stainless steel.

MOTOR COVER - GTLZ-77-1-ccc-d-0

FOR STANDARD VERSION

- d = 1 motor sizes IEC 71-100
- d = 2 motor sizes IEC 112-132
- d = 3 motor sizes IEC 160-180

SPECIFICATION TEXTS

GTLB-1

- Direct driven single inlet centrifugal fan
- The fan casing is made of Sendzimir galvanized sheet steel and jointed by the Pittsburg folding method
- Fan impeller with backward curved blades, made of sheet steel, welded and coated with 60 µm thick epoxy powder
- The fan impeller is dynamically balanced to accuracy according to ISO 1940-1973 G 2.5 (sizes 035-071) or G 6.3 (sizes 022-031)
- Vibration level 5,6 mm/s RMS at max speed of fan-motor, filter-out, flexibly mounted according to standard ISO 14694
- The specified aerodynamic performance has been measured in accordance with ISO 5801 and ISO 13347-2
- Delivered with standard IE3 or IE2 motor (IP 54)

GTLF-1

- Direct driven single inlet centrifugal fan
- The fan casing is made of Sendzimir galvanized sheet steel and jointed by the Pittsburg folding method
- Fan impeller with forward curved blades, made of galvanized sheet steel
- The fan impeller is dynamically balanced to accuracy according to ISO 1940-1973 G 6.3 (sizes 020-025)
- Vibration level 5,6 mm/s RMS at max speed of fan-motor, filter-out, flexibly mounted according to standard ISO 14694
- The specified aerodynamic performance has been measured in accordance with ISO 5801 and ISO 13347-2
- GTLF-1 fan is not recommended to be used with a frequency converter
- Delivered with standard IE3 or IE2 motor (IP 54)

HIGH TEMPERATURE (GTLB-1)

- GTLB-1 HT fans are designed to be used as an exhaust fan in ventilation systems conveying the media up to maximum 400° C for 120 min. They conform with the standard EN 12101-3.
- The fan casing is made of Sendzimir galvanized sheet steel and jointed by the Pittsburg folding method
- GTLB: Fan impeller with backward curved blades, made of sheet steel, welded and coated with 60 µm thick epoxy powder
- The fan impeller is dynamically balanced to accuracy according to ISO 1940-1973 G 2.5 (sizes 035-071) or G 6.3 (sizes 022-031)
- Vibration level 5,6 mm/s RMS at max speed of fan-motor, filter-out, flexibly mounted according to standard ISO 14694
- The specified aerodynamic performance has been measured in accordance with ISO 5801 and ISO 13347-2
- Class: F400(120)
- Notified body: SP Technical Research Institute of Sweden
- Certificate nr.: GTLB-1 0402-CPR-406102
- Motor: class B/class F

ATEX (GTLB-1)

- Direct driven single inlet centrifugal fan
- Designed for potentially explosive atmospheres according to Directive 2014/34/EU using Ex de motors
- The fan casing is made of Sendzimir galvanized sheet steel and jointed by the Pittsburg folding method.
- The fan inlet is made of copper.
- Fan impeller with backward curved blades, made of sheet steel, welded and coated with 60 µm thick epoxy powder
- The fan impeller is dynamically balanced to accuracy according to ISO 1940-1973 G 2.5 (sizes 035-071) or G 6.3 (sizes 022-031)
- Vibration level 5,6 mm/s RMS at max speed of fan-motor, filter-out, flexibly mounted according to standard ISO 14694
- The specified aerodynamic performance has been measured in accordance with ISO 5801 and ISO 13347-2.
- Fan group: Group IIB
- Category: 3G
- Zone: 2
- Delivered medium: Only gas excluding hydrogen
- Medium temperature: Max +40° C
- Temperature class: T3
- Motor: Flameproof motor type Ex de IIB T4

ATEX IMPORTANT INFORMATION

Information that the end-user/client **must** provide to their fan manufacturer (FläktGroup) so that they can supply you with a fan which is compliant with the ATEX Directive 2014/34/EU.

HAZARDOUS AREA DETAIL

Gas Zone Classification		Inside fan casing	Outside fan casing
		Zone 0 (cat. 1G)	Not Available
Zone 1 (cat. 2G)		Not available	Not available
Zone 2 (cat. 3G)		<input type="checkbox"/>	<input type="checkbox"/>
No classification		<input type="checkbox"/>	<input type="checkbox"/>

OPERATION AND FLUID DETAIL

Ambient temperature	°C
Inlet temperature	°C

Gas	Self-ignition temperature:	°C	Explosion group:	<input type="checkbox"/> IIA	<input type="checkbox"/> IIB	IIC is not available
	Type of Gas:					

Oxygen rate in gas > 21%	<input type="checkbox"/> NO
	<input type="checkbox"/> YES <i>out of EN14986 scope, needs a special approval of our Technical Director</i>

Installation conditions	Inlet	<input type="checkbox"/> free	<input type="checkbox"/> ducted
	Outlet	<input type="checkbox"/> free	<input type="checkbox"/> ducted

INFORMATION ON MOTOR TYPE AND ITS CONDITIONS OF WORK

Temperature class (Gas)	T1	T2	T3	T4	T5	T6
Maximum surface temperature (°C)	450	300	200	135	100	85
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not available	Not available

Variable frequency drive:	<input type="checkbox"/> NO	<input type="checkbox"/> YES	if YES, duty range: from to Hz
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Date and the seal of the company	Name
	Signature

ORDERING CODES

Centrifugal fan

GTnn-1-bbb-c-de-00

Type of impeller (nn) _____
 LB = centrifugal fan with backward curved blades
 LF = centrifugal fan with forward curved blades

Size (bbb) _____
 LB = 022, 025, 028, 031, 035, 040, 045, 050, 056, 063, 071
 LF = 020, 022, 025

Version (c) _____
 1 = Standard version
 6 = High temperature version (only GTLB-1)
 8 = ATEX version (only GTLB-1)

Rotation and discharge direction (d) _____
 1 = right-hand version
 2 = left-hand version

Direction of discharge (e) _____
 1 = 0°
 3 = 90°
 7 = 270°

Motor standard, single speed

APAL-a-bbbbb-c-d-e

Number of poles (a) _____
 2, 4, 6, 8

Rated output (bbbbb) _____
 The three first digits in "b" code
 indicate whole kilowatts,
 the two last digits indicate decimals.

For example 00350 = 3.50 kW

Voltage (c) _____
 1 = 220-240 VD / 380-420 VY
 2 = 380-420 VD / 660-690 VY

Temperature sensor in the stator winding (d) _____
 2 = with thermistor

Motor type (e) _____
 8 = FläktGroup approved motor, IE3
 7 = FläktGroup approved motor, IE2

Hub

HULB-1-bbb-c-dd-e
HULF-1-bbb-c-dd-e

Fan size (bbb) _____
 LB = 022, 025, 028, 031, 035, 040, 045, 050, 056, 063, 071
 LF = 020, 022, 025

Rotation of the fan, right hand/left hand (c) _____
 1 = Standard/High temperature:
 18 = ATEX, right hand orientation
 28 = ATEX, left hand orientation

Hub diameter (dd) _____

Motor size IEC	dd
63, 71	14
80	19
90	24
100, 112	28
132	38
160	42
180	48

Version (e) _____
 0 = Standard/High temperature:
 1 = ATEX (only GTLB)

Motor ATEX Exde, single speed

AXDE-a-bbbbb-c-d-0

Number of poles (a) _____
 2, 4, 6

Rated output (bbbbb) _____
 The three first digits in "b" code
 indicate whole kilowatts,
 the two last digits indicate decimals
For example: 00400 = 4.0 kW

Voltage (c) _____
 1 = 220-240 VD / 380-420 VY
 2 = 380-420 VD / 660-690 VY

Temperature sensor in the stator winding (d) _____
 2 = with thermistor

Ex de motors are designed for frequency converter use.
 Additional rating plates are supplied for the motor:
 + 163 Frequency converter rating plate
 + 813 Thermistor based surface temperature protection T4 for
 frequency converter duty

ACCESSORIES CODES

Flexible connection, inlet **GTLZ-11-1-ccc-1-0**
Standard/ATEX version, max. +80°C

Fan size (ccc) _____

Flexible connection, inlet **GTLZ-12-1-ccc-1-0**
High temperature version, max +400°C / 2h

Fan size (ccc) _____

Flexible connection, outlet **GTLZ-21-1-ccc-1-0**
Standard/ATEX version, max. +80°C

Fan size (ccc) _____

Flexible connection, outlet **GTLZ-22-1-ccc-1-0**
High temperature version, max. +400°C / 2h

Fan size (ccc) _____

Protective screen, inlet **GTLZ-13-1-ccc-1-0**
Standard version

Fan size (ccc) _____

Protective screen, inlet **GTLZ-15-1-ccc-1-0**
ATEX version

Fan size (ccc) _____

Protective screen, outlet, standard **GTLZ-23-1-ccc-1-0**
Protective screen, outlet, ATEX **GTLZ-18-1-ccc-1-0**

Fan size (ccc) _____

Counter flange, outlet **GTLZ-24-1-ccc-1-0**

Fan size (ccc) _____

Inspection cover **GTLZ-32-1-ccc-d-0**

Fan size (ccc) _____

Location on fan casing (d) _____

d = 0, 1, 2, 3, 4 (see illustration on page 39)

Drain plug **GTLZ-34-1-ccc-d-0**

Fan size (ccc) _____

Location on fan casing (d) _____

d = 0, 1, 2, 3, 4 (see illustration on page 39)

Note! The position of the inspection cover and drain plug depends on the discharge direction. Recommended positions are:

- 0° GTLB/GTLF-1-bbb-c-d1-00 GTLZ-32-1-ccc-4-0
GTLZ-34-1-ccc-2-0
- 90° GTLB/GTLF-1-bbb-c-d3-00 GTLZ-32-1-ccc-1-0
GTLZ-34-1-ccc-4-0
- 270° GTLB/GTLF-1-bbb-c-d7-00 GTLZ-32-1-ccc-3-0
GTLZ-34-1-ccc-0-0

Anti-vibration mountings, rubber, standard **GTLZ-42-1-ccc-d-0**
Anti-vibration mountings, rubber, ATEX **GTLZ-44-1-ccc-d-0**

Fan size (ccc) _____

Ordering code (d) _____

See ordering code in the motor data table in the relevant fan page.

Flow measurement device GTLF **GTLZ-50-1-ccc-1-0**

Fan size (ccc) _____

Flow measurement device GTLB **GTLZ-51-1-ccc-1-0**

Fan size (ccc) _____

Painted finish **GTLZ-60-1-ccc-d-0**

Fan size (ccc) _____

Execution (d) _____

- d = 1 Epoxy powder painted finish, 60 µm, color RAL7005, dark grey
- d = 2 Epoxy powder painted finish, 100 µm, color RAL7005, dark grey
- d = 3 Wet painted finish, 3 coats, 250 µm, color RAL7005, dark grey, impeller painted as in d = 2

Motor cover **GTLZ-77-1-ccc-d-0**

Fan size (ccc) _____

Motor size (d) _____

- d = 1 for IEC 71 - 100
- d = 2 for IEC 112 - 132
- d = 3 for IEC 160 - 180

EXCELLENCE IN SOLUTIONS

FlaktGroup is the European market leader for smart and energy efficient Indoor Air and Critical Air solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance supported by more than a century of accumulated industry experience. The widest product range in the market, and strong market presence in 65 countries worldwide, guarantee that we are always by your side, ready to deliver Excellence in Solutions.

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Air Treatment | Air Movement | Air Diffusion | Air Distribution | Air Filtration
Air Management | Air Conditioning & Heating | Controls | Service

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