The Innovation Company
LTG Incorporated

Tangential Fans

Series TA, TAt, TEt and GA
Impeller diameter 90 mm (3.54”)

Example:
Tangential Fan Type TAR 90 (3.54”)
(right hand drive)

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LTG Tangential Fans- an advantage for best heating, cooling, drying, blasting

Many production processes require a linear extended and absolutely even distribution of air or other gases to the working area.
Because of their special design, tangential fans meet this requirements in the best possible way.
The rigid design and the use of high quality materials secure a long service life.
By the working principle, that does away with additional baffles and vanes and the space saving design, the use of tangential fans is very economic.

Flow principle

The air intake of tangential fans takes place over the whole length of the outer impeller periphery. The air then flows into the impeller interior where it is reversed and accelerated by the vortex caused by the impeller rotation. Finally the air is distributed at the discharge side over the whole impeller length. In this way the air flows through the impeller first from outside to inside and then from inside to outside. The impeller is a cylindrical cage of forward curved impeller blades with two or more supporting discs.

The vortex separates suction side and discharge side at the narrowest line between impeller ① and vortex inducer ② and causes the flow pattern together with the scroll ③.

Advantages

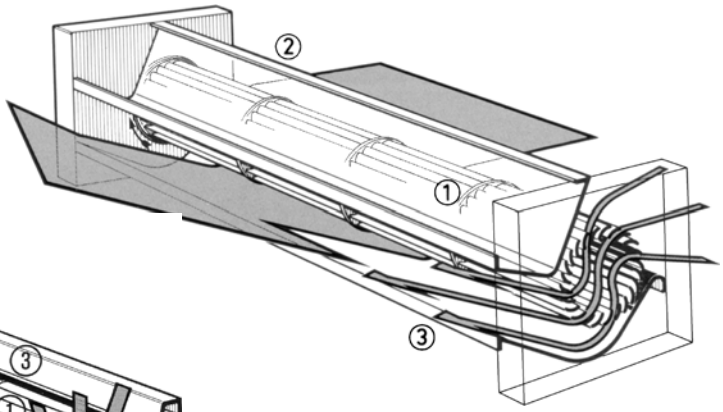
- Uniform air flow over the entire fan width. Additional baffles, plenums and guide vanes are not required.
- Space saving due to a 90° airflow deflection (type TA 90).
- The fan width can be exactly matched to the machine width. The air flow pattern does not change with wider machines (simplifies design and drawings of modular systems).
- Works equally well in any arrangement (right hand drive or left hand drive available).
- Low noise operation due to aerodynamically good impeller and scroll shape.
- Impeller bearings out of air flow.
- Many bolt-on options.

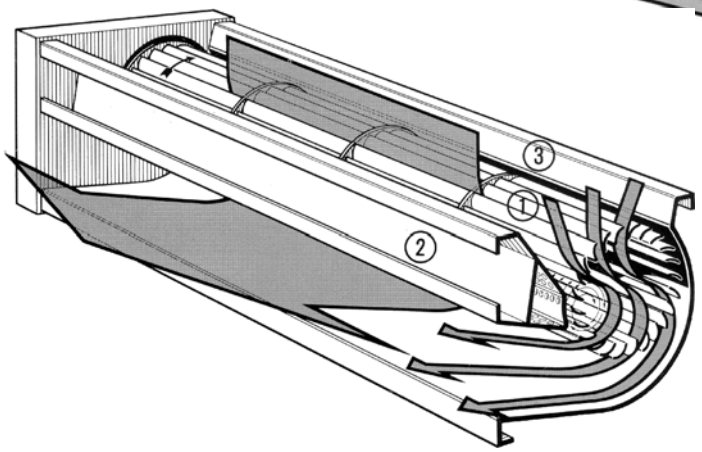
Fields of application

Examples of typical fields of application are:

bakeries, drying systems, industrial ovens, packaging industry, cooling and refrigeration, department stores, automobile industry, agricultural machines, surface treatment, control panels, hardening shops, textile engineering, swimming pools, air treatment, papermaking industry, environment simulation, chemical industry, industrial processing engineering, dust collection.

Air flow:
Tangential fan type GA 90
Air flow 180 °





Air flow:
Tangential fan type TA 90 / TE 90
Air flow deflection 90 °

LTG Tangential Fans Type TA, TAt, TEt and GA, Impeller Diameter 90 mm (3.54")

General information

LTG Tangential Fans type TA, TAt, TEt and GA can be universially applied for heating, cooling, drying and blasting. These fans are specially suitable where an extended airflow over a wide area is necessary.

Position of the fan

Standard arrangement is horizontal. With vertical arrangement the drive motor has to be at the bottom.

Installation and start up

Fix the fans to a plane base frame without any distortion. For the fixation use only the bolt holes in the side elements. Make sure to observe the applicable safety codes before starting the fans.

Motor arrangement

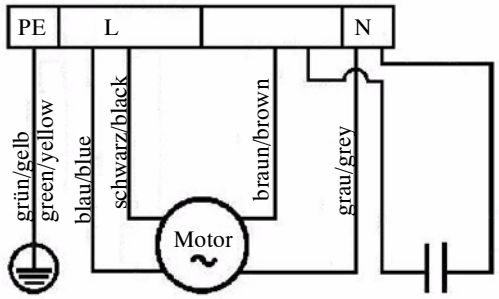
With suction opening on top, viewed against the discliarge opening, the driving motor is optional either right hand (TAR, TARt, TERt, GAR) or left hand (TAL, TALt, TELt, GAL).

Electrical equipment

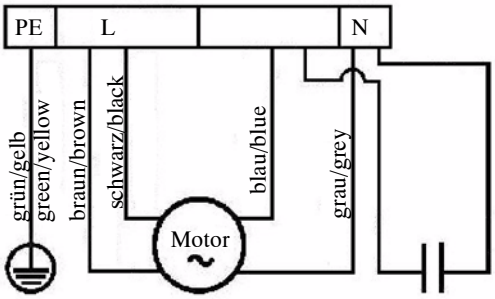
The fan is driven by a 4-pole single phase TEFC induction motor with capacitor,
U = 220 V, f = 50 cps or U = 115 V, f = 60 cps.
Enclosure is IP 44 according to DIN 40050. This gives protection against dust deposits inside the motor and spray water.

The motor is also adjustable for special voltage and cycles according to the performance data.

Electrical connection



TAR/TER/GAR



TAL/TEL/GAL

LTG Tangential Fans Type TA, TAt and TEt, Impeller Diameter 90 mm (3.54")

Gas temperature

-40 °C up to +70 °C (-40 °F up to +160 °F) TA
-40 °C up to +120 °C (-40 °F up to +250 °F) TAt
-25 °C up to +200 °C (-13 °F up to +400 °F) TEt

The tangential fan Type TA is a fan with enhanced corrosion resistance and suitable for use in low temperature applications.
The tangential fans Type TAt and TEt are fans with enhanced corrosion resistance and suitable for an extended temperature range.

Service conditions

Gas temperatures:
-40°C up to +70°C/120°C (-40°F up to +160/250°F) TA/TAt
-25°C up to +200°C (-13°F up to +400°F) TEt

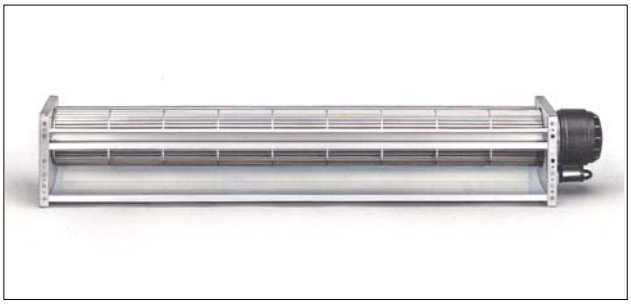
Ambient temperatures:
-25°C up to +40°C (- 13°F up to + 104°F)
for the drive side with motor and
-40°C up to max. +70°C (- 40°F up to + 160°F)
for the counter side (TA and TAt)
-25°C up to max. +70°C (- 13°F up to + 160°F)
for the counter side (TEt)

Types TA / TAt / TEt: the range

Type	Max. medium temperatures	Impeller length	Casing	Impeller	Motor*	
TAR 90/397/N TAL 90/397/N	-40°F to +160°F (-40°C to +70°C)	15.63 inch (397 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz 220 V, 60 Hz 240 V, 50 Hz	IP 44 4 poles
TAR 90/397/US TAL 90/397/US		15.63 inch (397 mm)	marine grade aluminium	marine grade aluminium	115 V, 60 Hz	IP 44 4 poles
TAR 90/597/N TAL 90/597/N		23.5 inch (597 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz 220 V, 60 Hz 240 V, 50 Hz	IP 44 4 poles
TAR 90/597/US TAL 90/597/US		23.5 inch (597 mm)	marine grade aluminium	marine grade aluminium	115 V, 60 Hz	IP 44 4 poles
TAR 90/827/N TAL 90/827/N		32.56 inch (827 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz 240 V, 50 Hz	IP 44 4 poles
TAR 90/827/US TAL 90/827/US		32.56 inch (827 mm)	marine grade aluminium	marine grade aluminium	115 V, 60 Hz	IP 44 4 poles
TAR 90/1027/N TAL 90/1027/N		40.43 inch (1027 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz	IP 44 4 poles
TAR 90/1027/US TAL 90/1027/US		40.43 inch (1027 mm)	marine grade aluminium	marine grade aluminium	115 V, 60 Hz	IP 44 4 poles
TARt 90/397/N TALt 90/397/N	-40°F to +250°F (-40°C to +120°C)	15.63 inch (397 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz 220 V, 60 Hz 240 V, 50 Hz	IP 44 4 poles
TARt 90/397/US TALt 90/397/US		15.63 inch (397 mm)	marine grade aluminium	marine grade aluminium	115 V, 60 Hz	IP 44 4 poles
TARt 90/597/N TALt 90/597/N		23.5 inch (597 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz 220 V, 60 Hz 240 V, 50 Hz	IP 44 4 poles
TARt 90/597/US TALt 90/597/US		23.5 inch (597 mm)	marine grade aluminium	marine grade aluminium	115 V, 60 Hz	IP 44 4 poles
TERt 90/497/E104 TELt 90/497/E104	-13°F to +400°F (-25°C to +200°C)	19.57 inch (497 mm)	marine grade aluminium	stainless steel	230 V, 50 Hz	IP 44 2 poles

**) Use the standard for every voltage and frequency indicated.*
Version 115 V, 60 Hz is UL/CSA approved

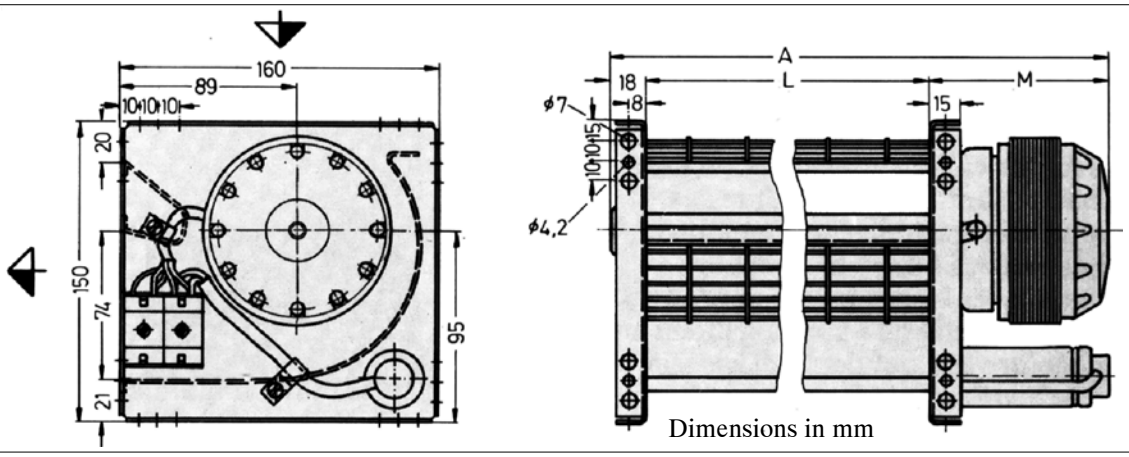
LTG Tangential Fans Type TA, Impeller Diameter 90 mm (3.54") -40°C up to + 70°C (-40°F up to +160°F)



Tangential fan type TAR 90 (right hand drive)

Specification and design features

Tangential fan with close coupled, spray water protected drive motor.
Rigid bolted, corrosion proof casing. Impeller and casing of marine grade aluminium. Side elements of stainless steel (1.4301). On the drive side the impeller is bedded via an elastic coupling on the motorshaft; on the counter side in vibration damped friction bearings from sinter bronze with an ample grease reserve.
Bearing design life is 20 000 hours. Drive motor wired with capacitor and terminal block. Intake and discharge openings have sealing planes to connect exactly to ducts and appliances. Low noise operation due to aerodynamically good impeller and scroll shape.



Dimensions in mm

Dimensions and performance data

Type	Dimensions [inch] [mm]			Air Volume V	Speed n	Power consumption P_A	Full load Amps J_A	Capacitor		Masses
	A	L	M	[cfm] [m^3/h]	[rpm]	[W]	[A]	[µF]	[V]	[lb] [kg]
TAR 90/397/N TAL 90/397/N	19.73 (502)	15.63 (397)	3.43 (87)	471 (800)	1230	68	0.31	2	400	6.4 (2.9)
TAR 90/397/US TAL 90/397/US	20.47 (520)	15.63 (397)	4.13 (105)	553 (940)	1570	115	1.00	12	220	6.4 (2.9)
TAR 90/597/N TAL 90/597/N	27.63 (702)	23.5 (597)	3.43 (87)	612 (1040)	1050	77	0.35	2	400	7.5 (3.4)
TAR 90/597/US TAL 90/597/US	28.35 (720)	23.5 (597)	4.13 (105)	789 (1340)	1390	134	1.17	12	220	7.5 (3.4)
TAR 90/827/N TAL 90/827/N	37.4 (950)	32.6 (827)	4.13 (105)	965 (1640)	1210	115	0.52	4	400	10.14 (4.6)
TAR 90/827/US TAL 90/827/US	37.4 (950)	32.6 (827)	4.13 (105)	977 (1660)	1220	149	1.28	12	220	10.14 (4.6)
TAR 90/1027/N TAL 90/1027/N	45.28 (1150)	40.43 (1027)	4.13 (105)	1095 (1860)	1150	123	0.56	4	400	11.46 (5.2)
TAR 90/1027/US TAL 90/1027/US	45.28 (1150)	40.43 (1027)	4.13 (105)	960 (1630)	1130	150	1.31	12	220	11.46 (5.2)

LTG Tangential Fans Type TAt, Impeller Diameter 90 mm (3.54") -40°C up to +120°C (-40°F up to +250°F)

Tangential fan type TARt 90 (right hand drive)

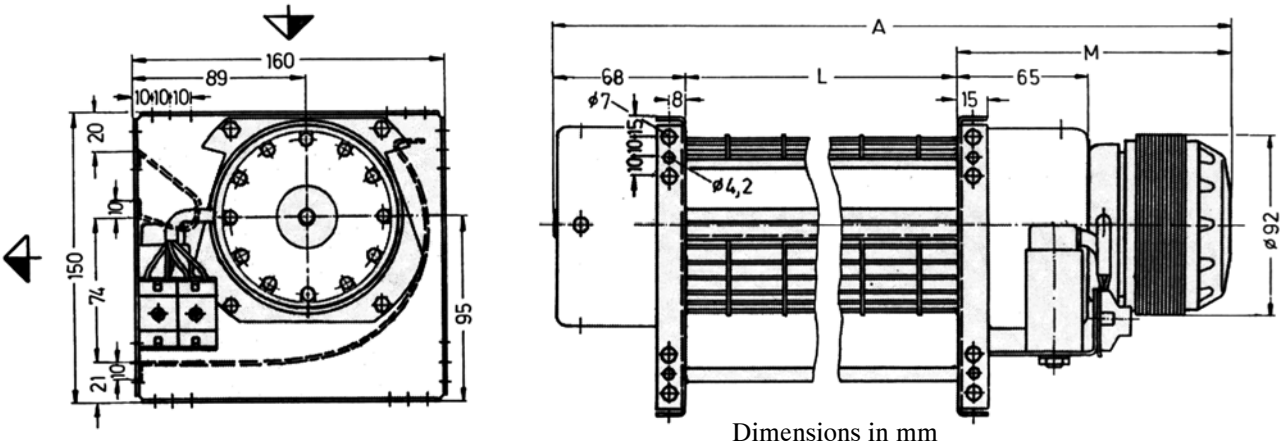
Specification and design features

Tangential fan with close coupled, spray water protected drive motor.

Rigid bolted, corrosion proof casing. Impeller and casing of marine grade aluminium. Side elements of stainless steel (1.4301). On the drive side the impeller is bedded via an elastic coupling on the motorshaft; on the counter side in vibration damped friction bearings from sinter bronze with an ample grease reserve.

Bearing design life is 20 000 hours. Drive motor wired with capacitor and terminal block. Intake and discharge openings have sealing planes to connect exactly to ducts and appliances.

Low noise operation due to aerodynamically good impeller and scroll shape.



Dimensions in mm

Dimensions and performance data

Type	Dimensions [inch] [mm]			Air Volume V	Speed n	Power consumption P_A	Full load Amps J_A	Capacitor		Masses
	A	L	M	[cfm] [m^3/h]	[rpm]	[W]	[A]	[µF]	[V]	[lb] [kg]
TARt 90/397/N TALt 90/397/N	23.74 (603)	15.63 (397)	5.43 (138)	471 (800)	1230	68	0.31	2	400	7.05 (3.2)
TARt 90/397/US TALt 90/397/US	24.45 (621)	15.63 (397)	6.1 (155)	553 (940)	1570	115	1.00	12	220	7.05 (3.2)
TARt 90/597/N TALt 90/597/N	31.61 (803)	23.5 (597)	5.43 (138)	612 (1040)	1050	77	0.35	2	400	8.16 (3.7)
TARt 90/597/US TALt 90/597/US	32.32 (821)	23.5 (597)	6.1 (155)	789 (1340)	1390	134	1.17	12	220	8.16 (3.7)

LTG Tangential Fans Type TA, Impeller Diameter 90 mm (3.54")

Fan curves for 220 V, 50 Hz

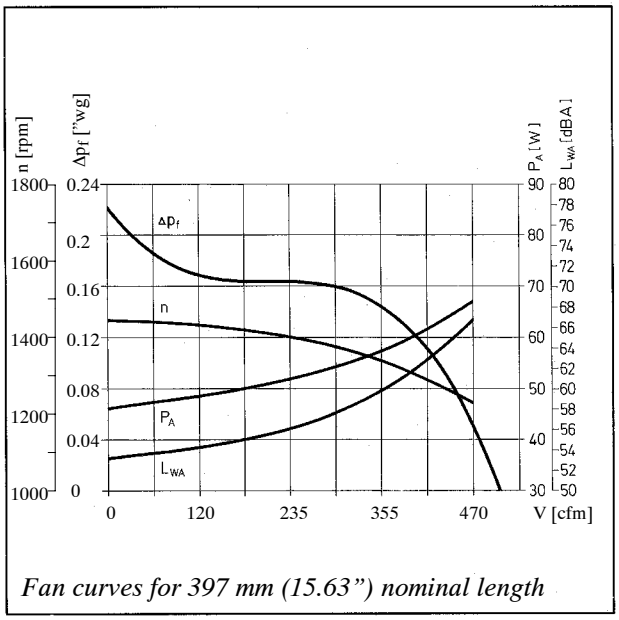
Test conditions for the fan curves

The indicated curves are valid for an air density of $\varrho = 1.2$ kg/m^3, a supply voltage of U = 220 V with f = 50 cps, if operated with a 4-pole motor.
The rating tests where done as laboratory tests according to VDI 2044 with unrestricted inlet and discharge.

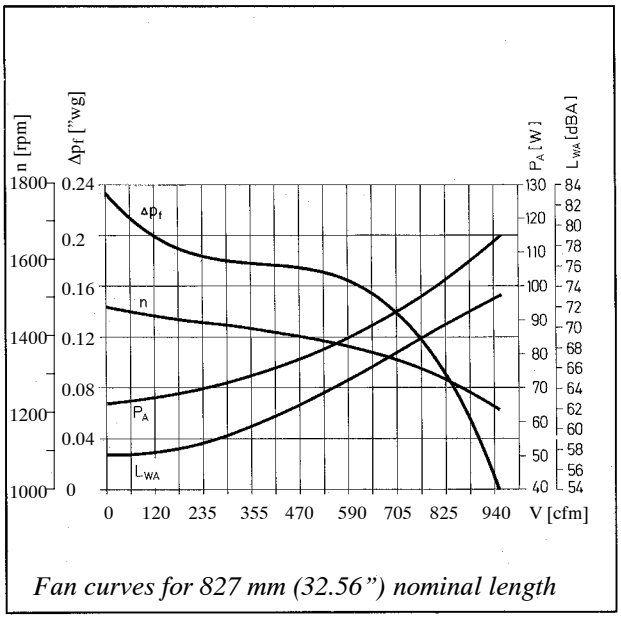
Acoustical data

The acoustical data are for discharge side, tested in a reverberant field.
The A-weighted sound power level L_{WA} can be transformed into an A-weighted sound pressure level by the equation $L_{pA} = L_{WA} - 10 \log S/1\ m^2$. For this the exact total panel area S can be used. The sound pressure level in the free field in 1 m distance (full spheric sound radiation) is abt. 11 dB less than the sound power level.

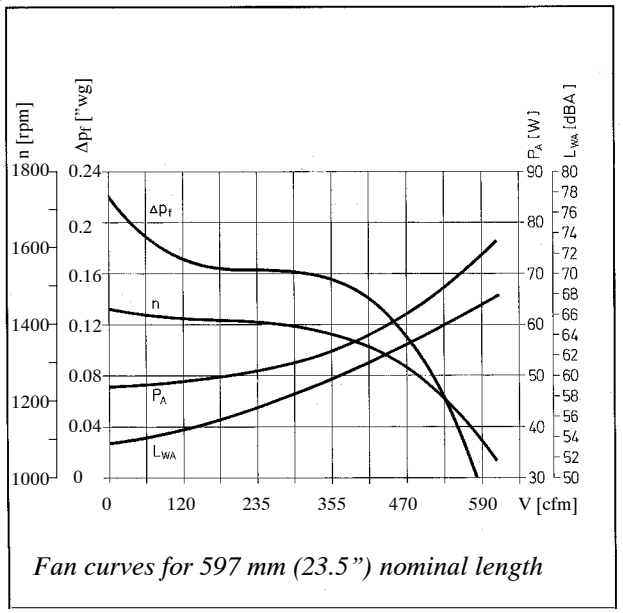
Measuring tolerances for Δp: ±0.08 "wg; measuring tolerances for L_{WA} : ±2dB (A)



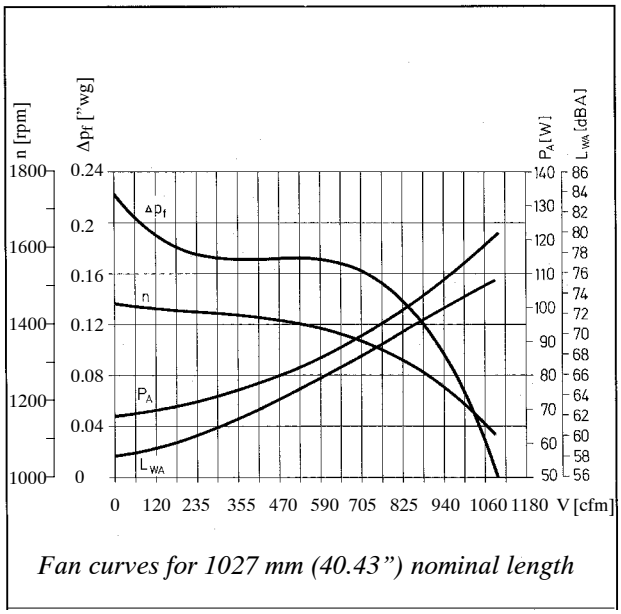
Fan curves for 397 mm (15.63") nominal length



Fan curves for 827 mm (32.56") nominal length



Fan curves for 597 mm (23.5") nominal length



Fan curves for 1027 mm (40.43") nominal length

LTG Tangential Fans Type TA, Impeller Diameter 90 mm (3.54")

Fan curves for 110 -115 V, 60 Hz

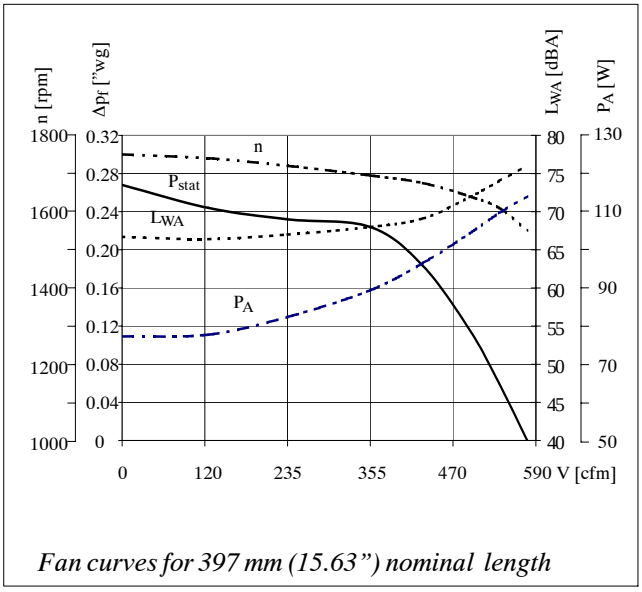
Test conditions for the fan curves

The indicated curves are valid for an air density of $\varrho = 1.2$ kg/m^3, a supply voltage of U = 220 V with f = 50 cps, if operated with a 4-pole motor.
The rating tests where done as laboratory tests according to VDI 2044 with unrestricted inlet and discharge.

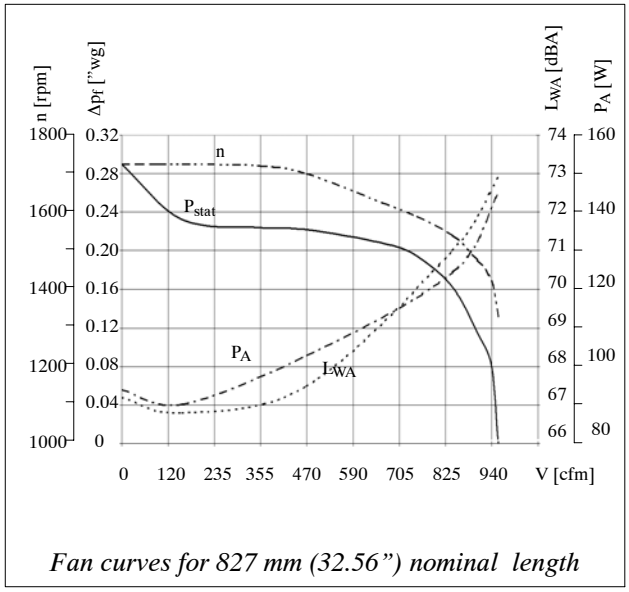
Acoustical data

The acoustical data are for discharge side, tested in a reverberant field.
The A-weighted sound power level L_{WA} can be transformed into an A-weighted sound pressure level by the equation $L_{pA} = L_{WA} - 10 \log S/1\ m^2$. For this the exact total panel area S can be used. The sound pressure level in the free field in 1 m distance (full spheric sound radiation) is abt. 11 dB less than the sound power level.

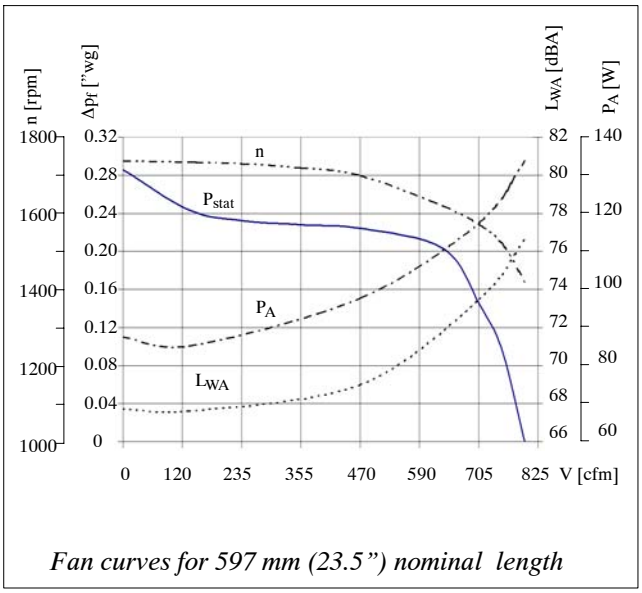
Measuring tolerances for Δp: ±0.08 "wg; measuring tolerances for L_{WA} : ±2dB (A)



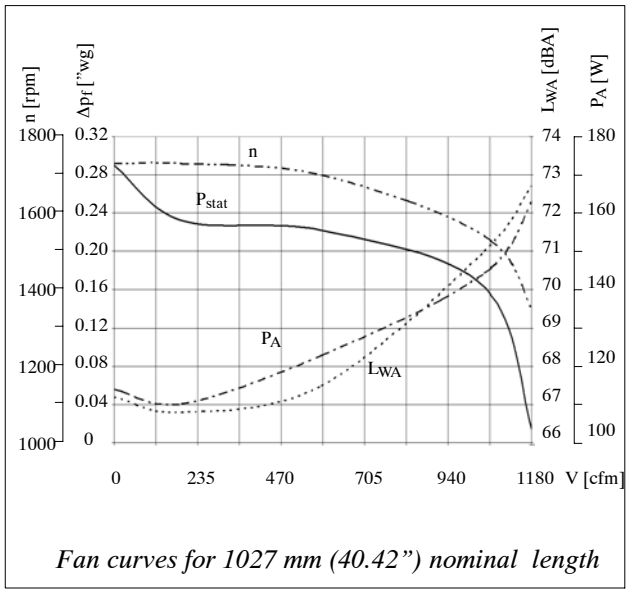
Fan curves for 397 mm (15.63") nominal length



Fan curves for 827 mm (32.56") nominal length

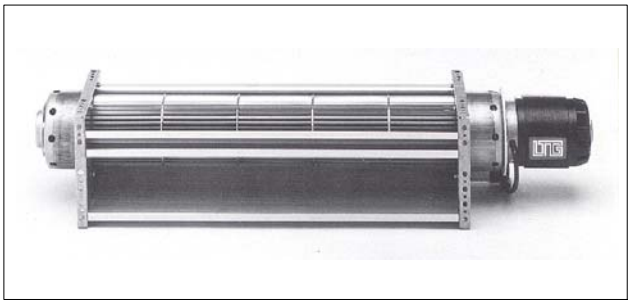


Fan curves for 597 mm (23.5") nominal length



Fan curves for 1027 mm (40.42") nominal length

LTG Tangential Fans Type TEt, Impeller Diameter 90 mm -25°C up to +200°C (-13°F up to +400°F)



Tangential fan type TERt 90 (right hand drive)

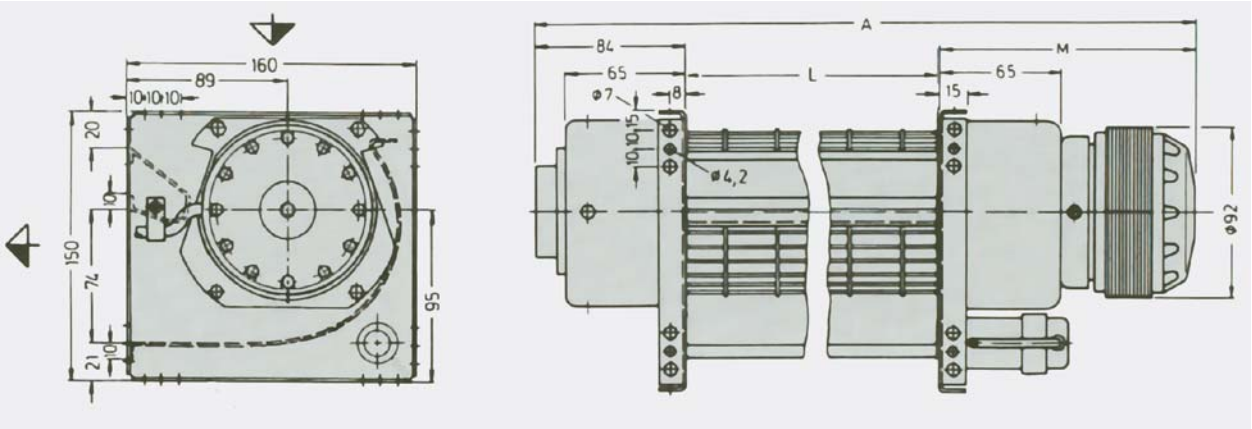
Specification and design features

Tangential fan with close coupled, spray water protected drive motor.

Rigid bolted, corrosion proof casing. Impeller and casing of marine grade aluminium. Side elements of stainless steel (1.4301). On the drive side the impeller is bedded via an elastic coupling on the motorshaft, on the counter side via vibration dampened bearing inserted in the heat insulation cover.

Motor and end bearing side in specially greased ball bearings, made for a service life of 10,000 hours. Intake and discharge openings have sealing planes to connect exactly to ducts and appliances.

Low noise operation due to aerodynamically good impeller and scroll shape.



Dimensions and performance data

Type	Dimensions [inch] [mm] A	L	M	Air Volume V [cfm] [m³/h]	Speed n [rpm]	Power consumption P_A [W]	Full load Amps J_A [A]	Capacitor [µF]	[V]	Masses [lb] [kg]
TERt 90/497/E104 TELt 90/497/E104	30.24 (768)	19.57 (497)	7.36 (187)	1060 (1800)	2600	430	0.8	6	400	10 (4.5)

LTG Tangential Fans Type TEt, Impeller Diameter 90 mm (3.54")

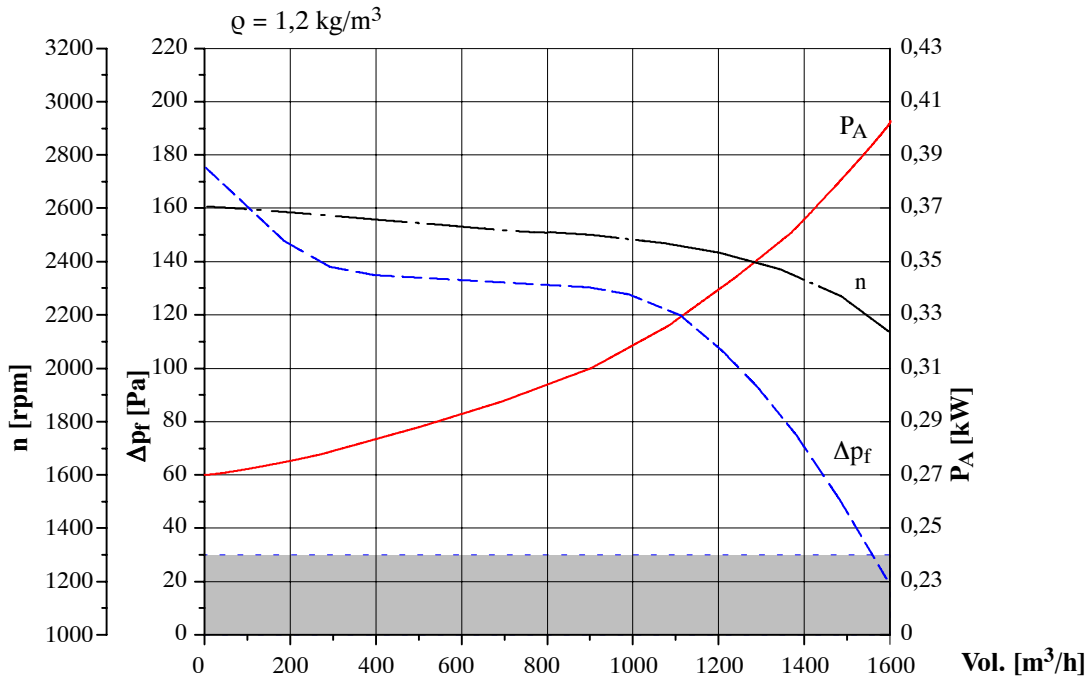
Fan curves for 220 V, 50 Hz

Test conditions for the fan curves

The indicated curves are valid for an air density of ϱ = 1.2 kg/m^3, a supply voltage of U = 220 V, with f=50Hz if operated with a 2-pole motor.

The rating tests where done as laboratory tests according to VDI 2044 with unrestricted inlet and discharge.

The sound pressure level in the free field in 1 m distance (full spheric sound radiation) is abt. 11 dB less than the sound power level.



Fan curves for 497 mm nominal length

Attention! The fan is not suitable for an operation with free diffusion!
Minimum counter pressure (static) should be 30 Pa.

LTG Tangential Fans Type TA, TAt and TEt, Impeller Diameter 90 mm (3.54")

Selection

Application				Example	Your data
gas				hot air	
gas temperature		t	[°F]	210	
ambient temperature drive side counter side		 t t	 [°F] [°F]	 95 115	
condensation				no	
located at				drying oven	
drive side				right hand	
arrangement				horizontal	
Drive motor					
power supply				AC	
voltage		U	[V]	400 / 460	
frequency		f	[Hz]	60	
Specified performance					
air volume		V	[cfm]	470	
static pressure		Δp_f	[”wg]	0.2	
at specific gravity		ϱ	[kg/m^3]	1.2	
aktive impeller length	min. max.	L L	[”] [”]	12 24	
total length		A	[”]	36	
Procedure					
1. conditions of application fan type				hot air 210°F TAt	
2. air volume achieveable with length		V	[cfm]	470 397 and 597	
3. static pressure achieveable with length		Δp_f	[”wg]	0.2 597	
4. drive side				right hand	
Selected					
LTG-Tangential fan type				TARt 90/597/N	
Performance data					
air volume		V	[cfm]	470	
static pressure		Δp_f	[”ws]	0.21	
dynamic pressure		p_d	[”ws]	0.06	
exhaust velocity		c	[fpm]	1000	
speed		n	[rpm]	1700	
Electrical data					
power input		P_A	[W]	74	
full load amps		J_A	[A]	0.28	
Acoustical data					
sound power level A-weighted		L_{WA}	[dB$_A$]	69	
sound pressure level in the free field in 1 m distance (full spheric sound radiation)		L_{pA}	[dB$_A$]	59	

Designations

V	[cfm]	air volume
Δp_f	[”wg]	static pressure
p_d	[”wg]	dynamic pressure at the discharge area
c	[fpm]	velocity at the discharge area
ϱ	[kg/m^3]	specific gravity
p_d	= $\varrho/2 \bullet c^2$	$J_A = P_A/U$
n	[rpm]	speed
U	[V]	voltage
f	[Hz]	frequency
J_A	[A]	full load amps
P_A	[W]	power consumption
L_{WA}	[dBA]	A-weighted sound power level
L_{pA}	[dBA]	A-weighted sound power level
S	[m^2]	panel area

LTG Tangential Fans Type GA, Impeller Diameter 90 mm (3,54")

Gas temperature

-40 °C up to +70 °C (- 40 °F up to + 160 °F)

Service conditions

Gas temperatures:
-40 °C up to +70 °C/120 °C (- 40 °F up to + 160/250 °F)

Ambient temperatures:
-25 °C up to +40 °C (- 13 °F up to + 104 °F)
for the drive side with motor and

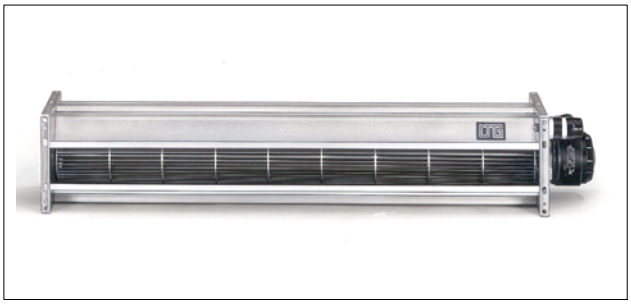
-40 °C up to max. +70 °C (- 40 °F up to + 160 °F)
for the counter side.

Type GA: the range

Type	Max. medium temperatures	Impeller length	Casing	Impeller	Motor*	
GAR 90/397/N GAL 90/397/N	-40°F to +158°F (-40°C to +70°C)	15.63 inch (397 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz 220 V, 60 Hz 240 V, 50 Hz	IP 44 4 pole
GAR 90/597/N GAL 90/597/N		23.5 inch (597 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz 220 V, 60 Hz 240 V, 50 Hz	IP 44 4 pole
GAR 90/827/N GAL 90/827/N		32.56 inch (827 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz 240 V, 50 Hz	IP 44 4 pole
GAR 90/1027/N GAL 90/1027/N		40.43 inch (1027 mm)	marine grade aluminium	marine grade aluminium	220 V, 50 Hz	IP 44 4 pole

**) Use the standard for every voltage and frequency indicated.*

LTG Tangential Fans Type GA, Impeller Diameter 90 mm (3.54") -40°C up to + 70°C (-40°F up to +160°F)



Tangential fan type GAR 90 (right hand drive)

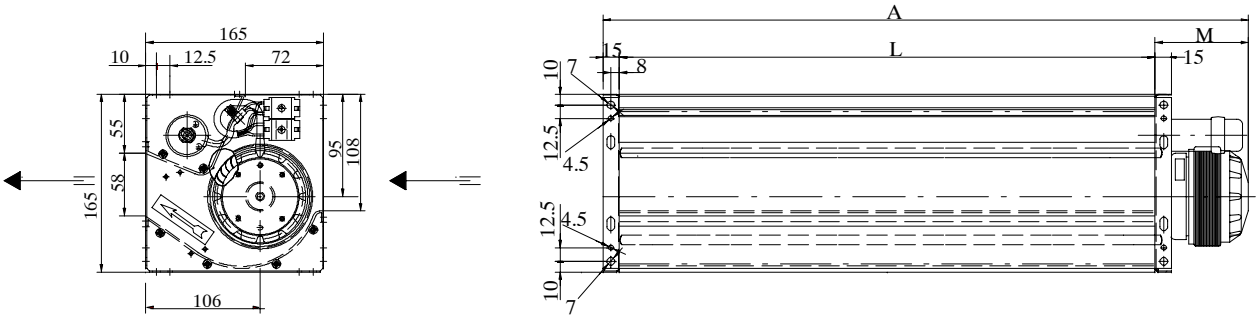
Specification and design features

Tangential fan with close coupled, spray water protected drive motor.

Rigid bolted, corrosion proof casing. Impeller and casing of marine grade aluminium. Side elements of stainless steel (1.4301). On the drive side the impeller is bedded via an elastic coupling on the motorshaft; on the counter side in vibration damped friction bearings from sinter bronze with an ample grease reserve.

Bearing design life is 20 000 hours. Drive motor wired with capacitor and terminal block. Intake and discharge openings have sealing planes to connect exactly to ducts and appliances.

Low noise operation due to aerodynamically good impeller and scroll shape.



Dimensions in mm

Dimensions and performance data

Typ	Dimensions [inch] [mm]			Air Volume V	Speed n	Power consumption P_A	Power consumption P_A	Capacitor		Masses
	A	L	M	[cfm] [m³/h]	[rpm]	[W]	[A]	[µF]	[V]	[lb] [kg]
GAR 90/397/N GAL 90/397/N	19.73 (502)	15.63 (397)	3.43 (87)	371 (630)	1330	67	0.31	2	400	7.5 (3.4)
GAR 90/597/N GAL 90/597/N	27.63 (702)	23.5 (597)	3.43 (87)	536 (910)	1260	75	0.34	2	400	9 (4.1)
GAR 90/827/N GAL 90/827/N	37.4 (950)	32.6 (827)	4.13 (105)	783 (1330)	1340	95	0.43	4	400	11.9 (5.4)
GAR 90/1027/N GAL 90/1027/N	45.28 (1150)	40.43 (1027)	4.13 (105)	942 (1600)	1280	119	0.53	4	400	13.45 (6.1)

LTG Tangential Fans Type GA, Impeller Diameter 90 mm (3.54")

Fan curves

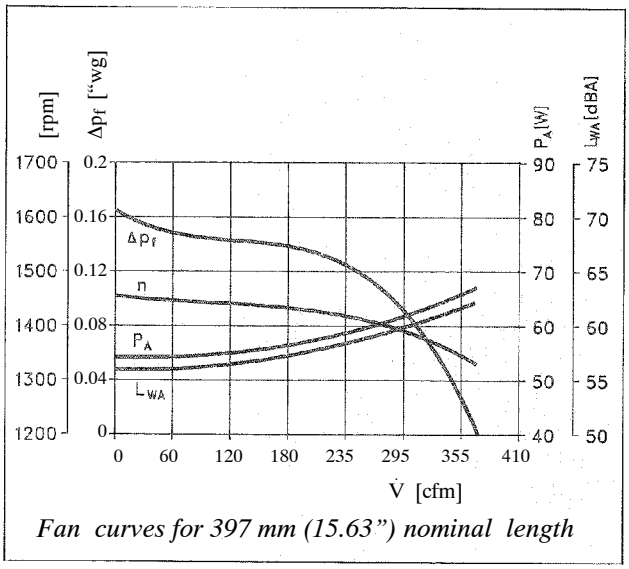
Test conditions for the fan curves

The indicated curves are valid for an air density of $\varrho = 1.2$ kg/m^3, a supply voltage of U=220 V with f = 50 cps, if operated with a 4-pole motor.
The rating tests where done as laboratory tests according to DIN 2044 with unrestricted inlet and discharge.

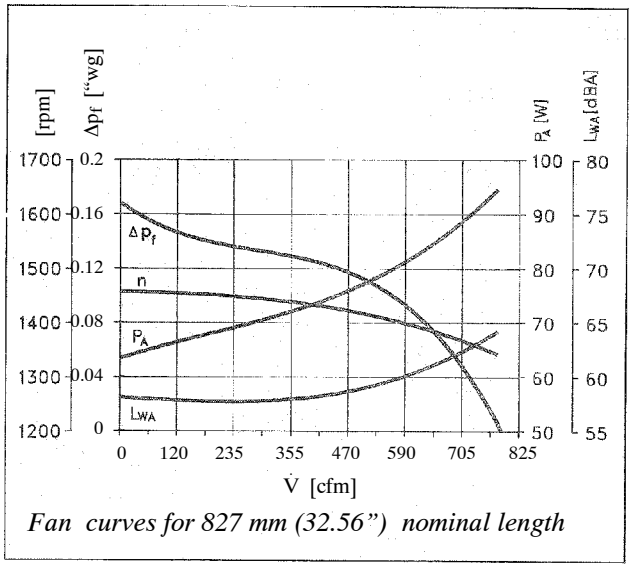
Acoustical data

The acoustical data are for discharge side, tested in a reverberant field.
The A-weighted sound power level L_{WA} can be transformed into an A-weighted sound pressure level by the equation $L_{pA} = L_{WA} - 10 \log S/1\ m^2$. For this the exact total applicable panel area S can be used. The sound pressure level in the free field in 1 m distance (full spheric sound radiation) is abt. 11 dB less than the sound power level.

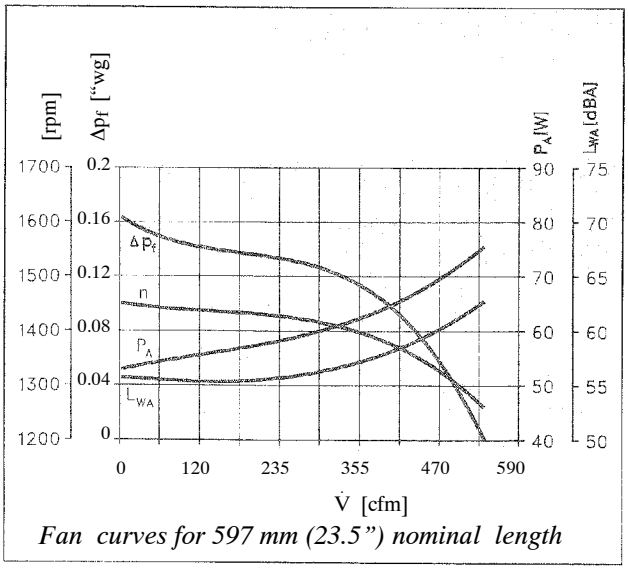
Measuring tolerances for Δp: ±0.008 "wg; measuring tolerances for L_{WA} : ±2dB (A)



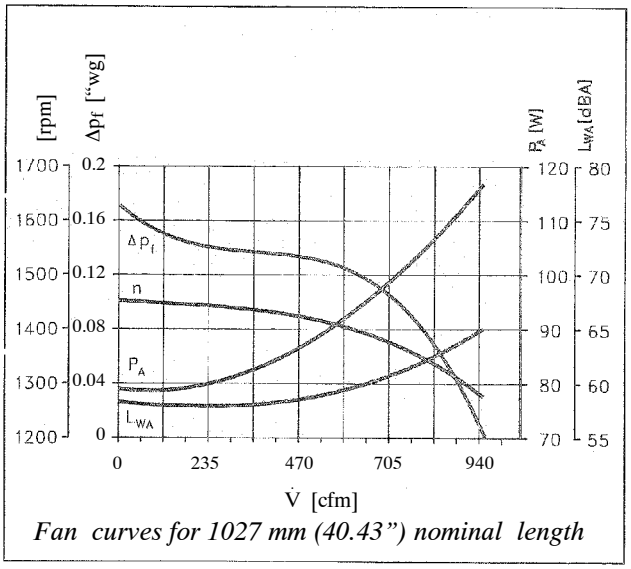
Fan curves for 397 mm (15.63") nominal length



Fan curves for 827 mm (32.56") nominal length



Fan curves for 597 mm (23.5") nominal length



Fan curves for 1027 mm (40.43") nominal length

LTG Tangential Fans Type GA, Impeller Diameter 90 mm (3.54")

Selection

Application				Example	Your data
gas				warm air	
gas temperature		t	[°F]	140	
ambient temperature					
drive side		t	[°F]	95	
counter side		t	[°F]	115	
condensation				no	
located at				drying oven	
drive side				right hand	
arrangement				horizontal	
Drive motor					
power supply				AC	
voltage		U	[V]	400 / 460	
frequency		f	[Hz]	50	
Specified performance					
air volume		V	[cfm]	470	
static pressure		Δp_f	[”wg]	25	
at specific gravity		ϱ	[kg/m^3]	1.2	
aktive impeller length	min.	L	[”]	20	
	max.	L	[”]	35	
total length		A	[”]	40	
Procedure					
1. conditions of application fan type				warm air 140°F GA	
2. air volume achieveable with length		V	[cfm]	470 597 and 827	
3. static pressure achieveable with length		Δp_f	[”wg]	25 827	
4. drive side				right hand	
Selected					
LTG-Tangential fan type				GAR 90/827/N	
Performance data					
air volume		V	[cfm]	470	
static pressure		Δp_f	[“wg]	0.12	
dynamic pressure		p_d	[”wg]	0.05	
exhaust velocity		c	[fpm]	900	
speed		n	[rpm]	1420	
Electrical data					
power input		P_A	[W]	76	
full load amps		J_A	[A]	0.35	
Acoustical data					
sound power level A-weighted		L_{WA}	[dB$_A$]	58	
sound pressure level in the free field in 1 m distance (full spheric sound radiation)		L_{pA}	[dB$_A$]	47	

Designations

V	[cfm]	air volume
Δp_f	[”wg]	static pressure
p_d	[”wg]	dynamic pressure at the discharge area
c	[fpm]	velocity at the discharge area
ϱ	[kg/m^3]	specific gravity
p_d	= ϱ/2•c^2	$J_A=P_A/U$
n	[rpm]	speed
U	[V]	voltage
f	[Hz]	frequency
J_A	[A]	full load amps
P_A	[W]	power consumption
L_{WA}	[dBA]	A-weighted sound power level
L_{pA}	[dBA]	A-weighted sound power level
S	[m^2]	panel area