

**DATA SHEET FOR CENTRIFUGAL BLOWER**

<b>YOUR REF.:</b>	<b>ENQUIRY:</b>	<b>Item:</b> 1
	<b>PROJECT:</b>	<b>Units:</b> 1
	<b>Y/DESC.:</b>	

**Type : 500/1076**

**TECHNICAL DATA**

		50Hz	25Hz
Volume flow rate	V m³/h	<b>10'000</b>	<b>5'001</b>
Static pressure at ρ= 1.2 kg/m³	Δpsf Pa	<b>21'748</b>	<b>5'163</b>
Total pressure at ρ= 1.2 kg/m³	Δpt Pa	<b>21'868</b>	<b>5'193</b>
Static pressure at ρ= 1.22 kg/m³	Δpsf Pa	<b>22'038</b>	<b>5'232</b>
Total pressure at ρ= 1.22 kg/m³	Δpt Pa	<b>22'159</b>	<b>5'263</b>
Rated speed	n 1/min	<b>2'975</b>	<b>1'488</b>
Impeller power at ρ= 1.2 kg/m³	Pr kW	<b>100.0</b>	<b>12.5</b>
Impeller power at ρ= 1.22 kg/m³	Pr kW	<b>101.0</b>	<b>12.7</b>
Sound pressure, free field	Lpp dB(A)	<b>94-1m</b>	<b>79-1m</b>
for installation type D (ISO) calculated acc. to VDI 3731			
Sound pressure at free inlet	Lp dB(A)	<b>111-1m</b>	<b>96-1m</b>
Fan weight (without motor) approx.	kg	<b>0</b>	
Inlet temperature t	°C	<b>25</b>	<b>25</b>
maximum inlet temperature tmax	°C	<b>60</b>	<b>60</b>

Flow medium  Air  Dust free  **Dry biogas**  
 Ex-protection  II 2G / 3G c IIA T1

for speed control: block resonance frequencies, max speed see above

**INSTALLATION TYPE according to ISO 13349**

- A -Free inlet, free outlet
- B -Free inlet, ducted outlet
- C -Ducted inlet, free outlet
- D -Ducted inlet and outlet

Exhaust position according to ISO 13349 **LG270 -**

**MOTOR**

Make	<b>Standard IEC Motor</b>
Type/Size	<b>/ 315M</b>
Rated voltage U/Frequency f	V/Hz <b>3x400 / 50</b>
Rated speed n approx.	1/min <b>2975</b>
Rated power P	kW (acc. eff.-cl.) <b>132</b>
Design/protection class	<b>B3 / IP55</b>
Motor weight approx.	kg <b>820</b>
Classification	<b>IEC 60034</b>
Insulation class/ utilised	<b>F/B</b>
Rated current I / Starting current I approx.	<b>225 / 9.2-times</b>

- Ex-protection **II3GExecICT3Gc**
- Multi speed
- Direct-Connection  with fan
- Thermistor protection 3-times  Bearing with external lubrication
- Space heater
- terminal box on Top /loc. Mid,A o.B side
- without separate rating plate
- Standard paint system
- Verlängerte Welle

**Motor suitable for frequency converter at Zone 2, 25- 50Hz**

**OTHER REQUIREMENTS**

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3

**CENTRIFUGAL FAN**

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- 1 x Shaft seal FPM
- Split casing
- 1 x Fan casing gastight ISO13349 Kat.H1
- 1 x Automatic greaser

**MAIN MATERIALS**

Impeller, main mat.	Aluminium
Casing	S235JR+N
Base frame/support	S235JR+N

**SURFACE TREATMENT**

Impeller	no paint
color/corr.-cl.	- / -
Casing outside	N60/BR 2-Komp. Deckanstr., 80µm
color/corr.-cl.	RAL 7032 / -
Casing inside	N60/BR 2-Komp. Deckanstr., 80µm
color/corr.-cl.	RAL 7032 / -
Base frame/support	N60/BR 2-Komp. Deckanstr., 80µm
color/corr.-cl.	RAL 7032 / -

- Centrifugal fan
- Motor incl.
- 1 x Pressure und Ansaugstutzen DN500 PN10 incl.
- Cooling disc
- Drain plug
- Protection grill inlet
- Protection grill outlet
- 1 x Anti-spark lining (brass) gem. EN14986 incl.
- Inspection opening

**SEPARATE PARTS**

- Vibration attenuators
- Counter flange inlet
- Counter flange outlet
- Flex.connect. inlet
- Guide duct inlet
- Flex.connect. outlet
- Guide duct outlet
- 1 x ATEX- Certificate II 2G/3G T1 incl.

**Warranty**

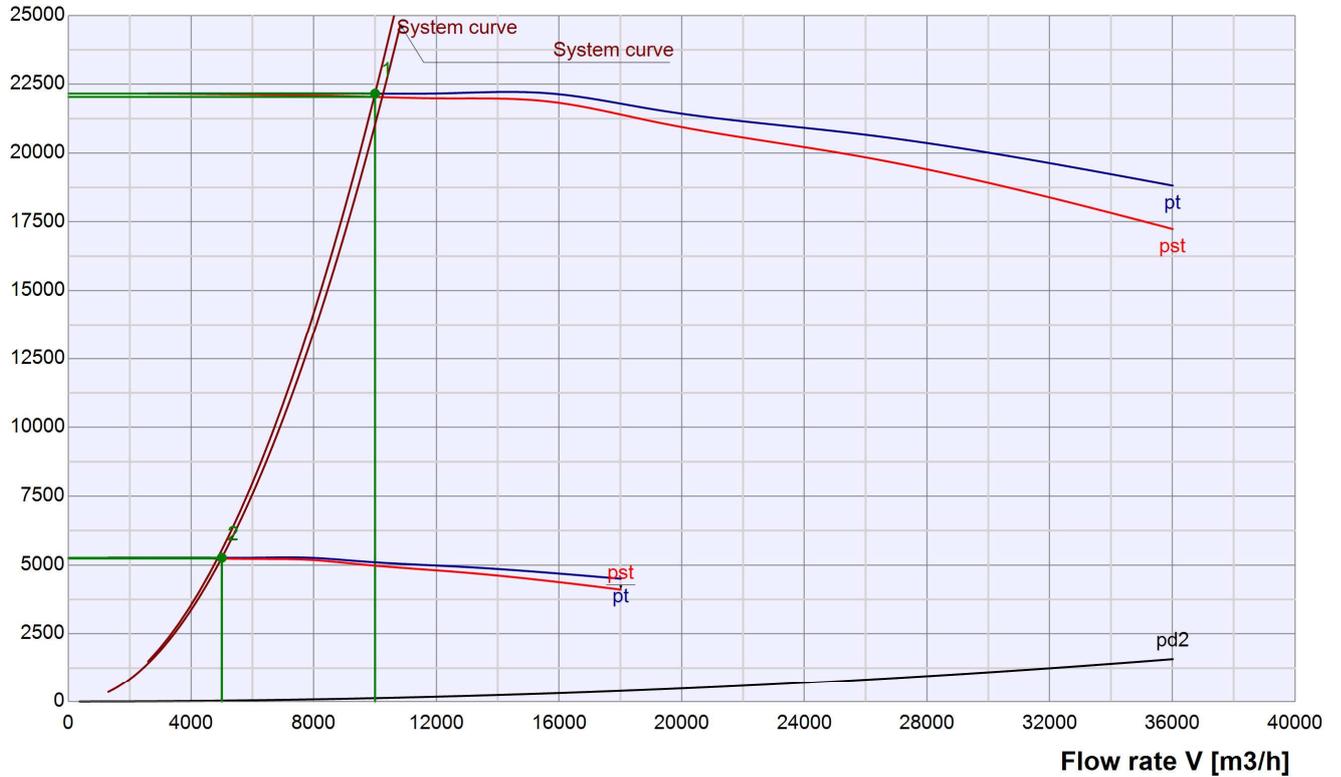
**12 months from delivery,  
wear & tear parts and electrical  
parts 12 months**

# CURVE FOR CENTRIFUGAL BLOWER

<b>CUSTOMER:</b>	<b>ENQUIRY:</b>	<b>Item:</b>	
		1	
	<b>PROJECT:</b>	<b>Units:</b>	
<b>YOUR REF.:</b>	<b>Y/DESC.:</b>	1	

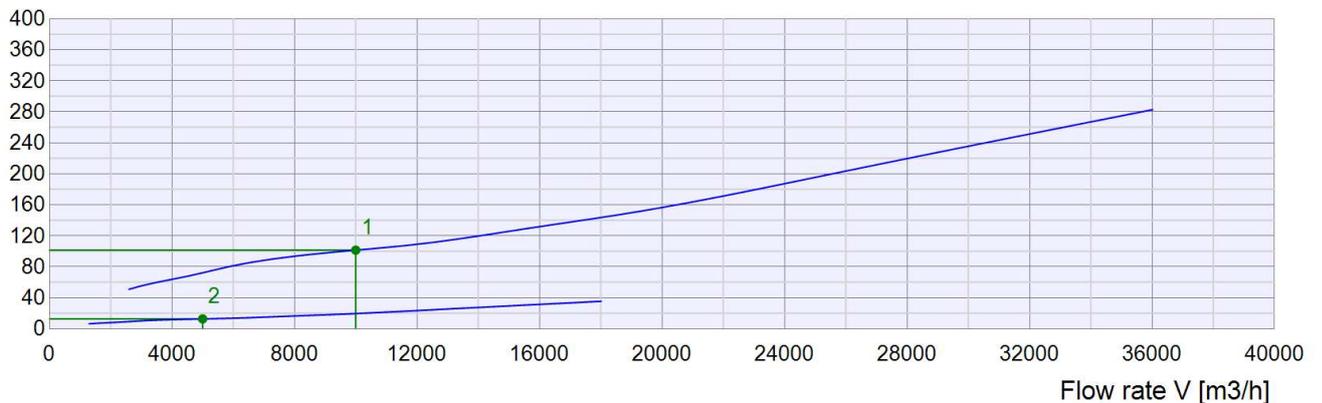
**Fan type : 500 (d2=1076)**

**Total press. pt, static press. pst, dynamic press. pd2 [Pa]**



0    1    2    3    4    5    6    7    8    9    10 [m<sup>3</sup>/s]

**Impeller power Pw [kW]**



		1	2		
Flow rate	V [m <sup>3</sup> /h]	10'000	5'002		
Inlet density	Rho [kg/m <sup>3</sup> ]	1.216	1.216		
Fan speed	n [1/min]	2'975	1'488		

The fan data is for naked fan and NOT taking into account the effects from additional parts/accessories unless explicitly stated. Dotted lines above indicate stall zone: NOT allowed for the operation of the fan!