

Type : **P-PRZ9/355/800/1**

TECHNICAL DATA

48.3 Hz @ VSD

Volume flow rate	V m ³ /h	10.753
Static pressure at ρ= 1,2 kg/m ³	Δpsf Pa	7.953
Total pressure at ρ= 1,2 kg/m ³	Δpt Pa	8.499
Static pressure at ρ= 0,75 kg/m ³	Δpsf Pa	5.000
Total pressure at ρ= 0,75 kg/m ³	Δpt Pa	5.344
Rated speed	n 1/min	2.862
Impeller power at ρ= 1,2 kg/m ³	Pr kW	29,2
Impeller power at ρ= 0,75 kg/m ³	Pr kW	18,4
Sound pressure, free field	Lp dB(A)	723m
for installation type D (ISO) calculated acc. to VDI 3731		
Sound pressure at free inlet	dB(A)	873m
Fan weight (without motor) approx.	kg	321
Inlet temperature t	°C	170
maximum inlet temperature tmax	°C	200

ERP 2015: Acc. EU regulation No 327/2011 (centr./D/total)
Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free Flue gas
Ex-protection

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

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer outlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

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	Standard IEC Motor
Type/Size	IE3W41R 200 L2 / 200L
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2965
Rated power P	kW (acc. eff.-cl.) 30 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 305
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I/ Starting current I approx. A	52,5 / 8,6times

- Ex-protection
- 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

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Impeller rear disk blades, welded
- 1 x Shaft lining, Promatec insulation plate

MAIN MATERIALS

Impeller, main mat.	S355J2+N plus30%
	Welded both sides - key hub
Casing	S235JR+N=RS137-2
Base frame/support	S235JR+N=RS137-2

N 64
64,8/80,0

SURFACE TREATMENT

Impeller	A7-Brantho-Korrux ca.80µm (300°C)
color/corr.-cl.	RAL 3009 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing inside	A7-Brantho-Korrux ca.80µm (300°C)
color/corr.-cl.	RAL 3009 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -

Motor

- 1 x Inlet spigot size 355 mild steel
- 1 x Cooling disc D 315
- 1 x Drain plug 1"
- Protection grill inlet
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening VS

SEPARATE PARTS

- Documentation as attached
- 6 x Vibration attenuators ST.2g (rubber)
- Counter flange inlet
- Counter flange outlet
- 1 x Flex.connect. inlet LT200 U w.2cl.fl.vz
- 1 x Guide duct inlet size 355 RSt 372
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 355 RSt 372
- 1 x Exhaust split silencer WxHxL: 650x675x850 mm

Type : **P-LRZ9/450/710/1**

TECHNICAL DATA

		51.2 Hz @ VSD	
Volume flow rate	V m³/h	17.069	
Static pressure at ρ= 1,2 kg/m³	Δpsf Pa	7.953	
Total pressure at ρ= 1,2 kg/m³	Δpt Pa	8.486	
Static pressure at ρ= 0,75 kg/m³	Δpsf Pa	5.000	
Total pressure at ρ= 0,75 kg/m³	Δpt Pa	5.335	
Rated speed	n 1/min	3.033	
Impeller power at ρ= 1,2 kg/m³	Pr kW	46,6	
Impeller power at ρ= 0,75 kg/m³	Pr kW	29,3	
Sound pressure, free field	Lp dB(A)	743m	
for installation type D (ISO) calculated acc. to VDI 3731			
Sound pressure at free inlet	dB(A)	893m	
Fan weight (without motor) approx.	kg	298	
Inlet temperature t	°C	170	
maximum inlet temperature tmax	°C	200	

ERP 2015: Acc. EU regulation No 327/2011 (centr./D/total)
Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free Flue gas
Ex-protection

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

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer outlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

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	Standard IEC Motor
Type/Size	IE3W41R 225 M2 / 225M
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2960
Rated power P	kW (acc. eff.-cl.) 45 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 375
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I/ Starting current I approx. A	77,5 / 8,8times

- Ex-protection
- 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

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Impeller rear disk blades, welded
- 1 x Shaft lining, Promatec insulation plate

MAIN MATERIALS

Impeller, main mat.	S355J2+N plus NAXTRA Welded both sides - key hub
Casing	S235JR+N=RS137-2
Base frame/support	S235JR+N=RS137-2

N 64
65,2/79,6

SURFACE TREATMENT

Impeller color/corr.-cl.	A7-Brantho-Korrux ca.80µm (300°C) RAL 3009 / -
Casing outside color/corr.-cl.	A3-Grd.+ 2-K PA-Coat. approx.160µm RAL 7000 / -
Casing inside color/corr.-cl.	A7-Brantho-Korrux ca.80µm (300°C) RAL 3009 / -
Base frame/support color/corr.-cl.	A3-Grd.+ 2-K PA-Coat. approx.160µm RAL 7000 / -

- Motor
- 1 x Inlet spigot size 450 mild steel
- 1 x Cooling disc D 315
- 1 x Drain plug 1"
- Protection grill inlet
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening VS

SEPARATE PARTS

- Documentation as attached
- 6 x Vibration attenuators ST.2g (rubber)
- Counter flange inlet
- Counter flange outlet
- 1 x Flex.connect. inlet LT200 U w.2cl.fl.vz
- 1 x Guide duct inlet size 450 RSt 372
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 450 RSt 372
- 1 x Exhaust split silencer WxHxL: 850x850x1100 mm

Type : **P-LRZ9B/500/800/1**

TECHNICAL DATA

50.0 Hz @ VSD

Volume flow rate	V m³/h	21.336
Static pressure at ρ= 1,2 kg/m³	Δpsf Pa	7.953
Total pressure at ρ= 1,2 kg/m³	Δpt Pa	8.499
Static pressure at ρ= 0,75 kg/m³	Δpsf Pa	5.000
Total pressure at ρ= 0,75 kg/m³	Δpt Pa	5.344
Rated speed	n 1/min	2.972
Impeller power at ρ= 1,2 kg/m³	Pr kW	57,5
Impeller power at ρ= 0,75 kg/m³	Pr kW	36,1
Sound pressure, free field	Lp dB(A)	753m
for installation type D (ISO) calculated acc. to VDI 3731		
Sound pressure at free inlet	dB(A)	903m
Fan weight (without motor) approx.	kg	486
Inlet temperature t	°C	170
maximum inlet temperature tmax	°C	200

ERP 2015: Acc. EU regulation No 327/2011 (centr./D/total)
Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free Flue gas
Ex-protection

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

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer outlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

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	Standard IEC Motor
Type/Size	IE3W41R 250 M2 / 250M
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2970
Rated power P	kW (acc. eff.-cl.) 55 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 510
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I/ Starting current I approx. A	92 / 8,9times

- Ex-protection
- 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

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Impeller rear disk blades, welded
- 1 x Shaft lining, Promatec insulation plate

MAIN MATERIALS

Impeller, main mat.	13CrMo4-5 plus 30% Welded both sides - key hub
Casing	S235JR+N=RS137-2
Base frame/support	S235JR+N=RS137-2

N 64
65,4/81,4

SURFACE TREATMENT

Impeller	A7-Brantho-Korrux ca.80µm (300°C) color/corr.-cl. RAL 3009 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm color/corr.-cl. RAL 7000 / -
Casing inside	A7-Brantho-Korrux ca.80µm (300°C) color/corr.-cl. RAL 3009 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm color/corr.-cl. RAL 7000 / -

- Motor
- 1 x Inlet spigot size 500 mild steel
- 1 x Cooling disc D 315
- 1 x Drain plug 1"
- Protection grill inlet
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening VS

SEPARATE PARTS

- Documentation as attached
- 8 x Vibration attenuators ST.2g (rubber)
- Counter flange inlet
- Counter flange outlet
- 1 x Flex.connect. inlet LT200 U w.2cl.fl.vz
- 1 x Guide duct inlet size 500 RSt 372
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 500 RSt 372
- 1 x Exhaust split silencer WxHxL: 900x900x1250 mm

Type : **P- LRZ9C/560/800/1**

TECHNICAL DATA

47.3 Hz @ VSD

Volume flow rate	V m ³ /h	27.310
Static pressure at ρ= 1,2 kg/m ³	Δpsf Pa	7.953
Total pressure at ρ= 1,2 kg/m ³	Δpt Pa	8.522
Static pressure at ρ= 0,75 kg/m ³	Δpsf Pa	5.000
Total pressure at ρ= 0,75 kg/m ³	Δpt Pa	5.358
Rated speed	n 1/min	2.805
Impeller power at ρ= 1,2 kg/m ³	Pr kW	72,5
Impeller power at ρ= 0,75 kg/m ³	Pr kW	45,6
Sound pressure, free field	Lp dB(A)	753m
for installation type D (ISO) calculated acc. to VDI 3731		
Sound pressure at free inlet	dB(A)	913m
Fan weight (without motor) approx.	kg	576
Inlet temperature t	°C	170
maximum inlet temperature tmax	°C	200

ERP 2015: Acc. EU regulation No 327/2011 (centr./D/total)
 Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free Flue gas
 Ex-protection

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

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer outlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

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	Standard IEC Motor
Type/Size	IE3W41R 280 S2 / 280S
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2967
Rated power P	kW (acc. eff.-cl.) 75 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 500
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I/ Starting current I approx. A	128 / 8,1times

- Ex-protection
- 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
- Insulated bearing NDE for VSD control

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

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

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Impeller rear disk blades, welded
- 1 x Shaft lining, Promatec insulation plate

MAIN MATERIALS

Impeller, main mat.	13CrMo4-5 plus 30% Welded both sides - key hub
Casing	S235JR+N=RSSt37-2
Base frame/support	S235JR+N=RSSt37-2

N 64
65,7/83,0

SURFACE TREATMENT

Impeller color/corr.-cl.	A7-Brantho-Korrux ca.80µm (300°C) RAL 3009 / -
Casing outside color/corr.-cl.	A3-Grd.+ 2-K PA-Coat. approx.160µm RAL 7000 / -
Casing inside color/corr.-cl.	A7-Brantho-Korrux ca.80µm (300°C) RAL 3009 / -
Base frame/support color/corr.-cl.	A3-Grd.+ 2-K PA-Coat. approx.160µm RAL 7000 / -

- Motor
- 1 x Inlet spigot size 560 mild steel
- 1 x Cooling disc D 400
- 1 x Drain plug 1"
- Protection grill inlet
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening VS

SEPARATE PARTS

- Documentation as attached
- 8 x Vibration attenuators ST.2g (rubber)
- Counter flange inlet
- Counter flange outlet
- 1 x Flex.connect. inlet LT200 U w.2cl.fl.vz
- 1 x Guide duct inlet size 560 RSt 372
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 560 RSt 372
- 1 x Exhaust split silencer WxHxL: 1000x1000x1000 mm

Type : **P-RNZ9/630/800/1**

TECHNICAL DATA

48.4 Hz @ VSD

Volume flow rate	V m³/h	34.137
Static pressure at ρ= 1,2 kg/m³	Δpsf Pa	7.953
Total pressure at ρ= 1,2 kg/m³	Δpt Pa	8.508
Static pressure at ρ= 0,75 kg/m³	Δpsf Pa	5.000
Total pressure at ρ= 0,75 kg/m³	Δpt Pa	5.349
Rated speed	n 1/min	2.875
Impeller power at ρ= 1,2 kg/m³	Pr kW	90,8
Impeller power at ρ= 0,75 kg/m³	Pr kW	57,1
Sound pressure, free field	Lp dB(A)	773m
for installation type D (ISO) calculated acc. to VDI 3731		
Sound pressure at free inlet	dB(A)	933m
Fan weight (without motor) approx.	kg	349
Inlet temperature t	°C	170
maximum inlet temperature tmax	°C	200

ERP 2015: Acc. EU regulation No 327/2011 (centr./D/total)
 Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free Flue gas
 Ex-protection

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

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer outlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

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	Standard IEC Motor
Type/Size	IE3W41R 280 M2 / 280M
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2970
Rated power P	kW (acc. eff.-cl.) 90 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 545
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I/ Starting current I approx. A	152 / 8,4times

- Ex-protection
- 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
- Insulated bearing NDE for VSD control

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

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

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Impeller rear disk blades, welded
- 1 x Shaft lining, Promatec insulation plate
- 1 x Add. price high pressure reinforced casing

MAIN MATERIALS

Impeller, main mat.	N-A-XTRA 700
	Welded both sides - key hub
Casing	S235JR+N=RS37-2
Base frame/support	S235JR+N=RS37-2

N 64
65,9/82,8

SURFACE TREATMENT

Impeller color/corr.-cl.	A7-Brantho-Korrux ca.80µm (300°C) RAL 3009 / -
Casing outside color/corr.-cl.	A3-Grd.+ 2-K PA-Coat. approx.160µm RAL 7000 / -
Casing inside color/corr.-cl.	A7-Brantho-Korrux ca.80µm (300°C) RAL 3009 / -
Base frame/support color/corr.-cl.	A3-Grd.+ 2-K PA-Coat. approx.160µm RAL 7000 / -

- Motor
- 1 x Inlet spigot size 630 mild steel
- 1 x Cooling disc D 400
- 1 x Drain plug 1"
- Protection grill inlet
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening VS

SEPARATE PARTS

- Documentation as attached
- 8 x Vibration attenuators ST.2g (rubber)
- Counter flange inlet
- Counter flange outlet
- 1 x Flex.connect. inlet LT200 U w.2cl.fl.vz
- 1 x Guide duct inlet size 630 RSt 372
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 560 RSt 372
- 1 x Exhaust split silencer WxHxL: 1200x1200x1125 mm

Type : **P-RNZ9/710/900/1**

TECHNICAL DATA

42.8 Hz @ VSD

Volume flow rate	V m³/h	42.671
Static pressure at ρ= 1,2 kg/m³	Δpsf Pa	7.953
Total pressure at ρ= 1,2 kg/m³	Δpt Pa	8.490
Static pressure at ρ= 0,75 kg/m³	Δpsf Pa	5.000
Total pressure at ρ= 0,75 kg/m³	Δpt Pa	5.338
Rated speed	n 1/min	2.540
Impeller power at ρ= 1,2 kg/m³	Pr kW	113,0
Impeller power at ρ= 0,75 kg/m³	Pr kW	70,8
Sound pressure, free field	Lp dB(A)	783m
for installation type D (ISO) calculated acc. to VDI 3731		
Sound pressure at free inlet	dB(A)	933m
Fan weight (without motor) approx.	kg	507
Inlet temperature t	°C	170
maximum inlet temperature tmax	°C	200

ERP 2015: Acc. EU regulation No 327/2011 (centr./D/total)
 Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free Flue gas
 Ex-protection

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

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer outlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

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	Standard IEC Motor
Type/Size	IE3W41R 315 S2 / 315S
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2970
Rated power P	kW (acc. eff.-cl.) 110 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 750
Classification	IEC 60034
Insulation class/utilised	F/B
Rated current I/ Starting current I approx. A	187 / 10times

- Ex-protection
- 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
- Insulated bearing NDE for VSD control

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
 General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Impeller rear disk blades, welded
- 1 x Shaft lining, Promatec insulation plate
- 1 x Add. price high pressure reinforced casing

MAIN MATERIALS

Impeller, main mat.	N-A-XTRA 700
	Welded both sides - key hub
Casing	S235JR+N=RSSt37-2
Base frame/support	S235JR+N=RSSt37-2

N 64
66,2/83,5

SURFACE TREATMENT

Impeller	A7-Brantho-Korrux ca.80µm (300°C)
color/corr.-cl.	RAL 3009 / C2(M) EN12944-2
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / C3(M) EN12944-2
Casing inside	A7-Brantho-Korrux ca.80µm (300°C)
color/corr.-cl.	RAL 3009 / C2(M) EN12944-2
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / C3(M) EN12944-2

- Motor
- 1 x Inlet spigot size 710 mild steel
- 1 x Cooling disc D 400
- 1 x Drain plug 1"
- Protection grill inlet
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening VS

SEPARATE PARTS

- Documentation as attached
- 10 x Vibration attenuators ST.2g (rubber)
- Counter flange inlet
- Counter flange outlet
- 1 x Flex.connect. inlet LT200 U w.2cl.fl.vz
- 1 x Guide duct inlet size 710 RSt 372
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 710 RSt 372
- 1 x Exhaust split silencer WxHxL: 1250x1250x1375 mm

Type : **P-RNZ9/800/1000/1 (d2=980)**

TECHNICAL DATA

			39.7 Hz @ VSD
Volume flow rate	V m³/h	53.766	
Static pressure at ρ= 1,2 kg/m³	Δpsf Pa	7.960	
Total pressure at ρ= 1,2 kg/m³	Δpt Pa	8.490	
Static pressure at ρ= 0,75 kg/m³	Δpsf Pa	5.005	
Total pressure at ρ= 0,75 kg/m³	Δpt Pa	5.338	
Rated speed	n 1/min	2.368	
Impeller power at ρ= 1,2 kg/m³	Pr kW	142,0	
Impeller power at ρ= 0,75 kg/m³	Pr kW	89,2	
Sound pressure, free field	Lp dB(A)	793m	
for installation type D (ISO) calculated acc. to VDI 3731			
Sound pressure at free inlet	dB(A)	943m	
Fan weight (without motor) approx.	kg	590	
Inlet temperature t	°C	170	
maximum inlet temperature tmax	°C	200	

ERP 2015: Acc. EU regulation No 327/2011 (centr./D/total)
Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free Flue gas
Ex-protection

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

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer outlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

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	Standard IEC Motor
Type/Size	IE3W41R 315 M2 / 315M
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2980
Rated power P	kW (acc. eff.-cl.) 132 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 815
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I/ Starting current I approx. A	224 / 10times

- Ex-protection
- 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
- Insulated bearing NDE for VSD control

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Impeller rear disk blades, welded
- 1 x Shaft lining, Promatec insulation plate
- 1 x Add. price high pressure reinforced casing

MAIN MATERIALS

Impeller, main mat.	N-A-XTRA 700
	Welded both sides - key hub
Casing	S235JR+N=RSSt37-2
Base frame/support	S235JR+N=RSSt37-2

N 64
66,4/83,7

SURFACE TREATMENT

Impeller	A7-Brantho-Korrux ca.80µm (300°C)
color/corr.-cl.	RAL 3009 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing inside	A7-Brantho-Korrux ca.80µm (300°C)
color/corr.-cl.	RAL 3009 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -

- Motor
- 1 x Inlet spigot size 800 mild steel
- 1 x Cooling disc D 400
- 1 x Drain plug 1"
- Protection grill inlet
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening VS

SEPARATE PARTS

- Documentation as attached
- 10 x Vibration attenuators ST.2g (rubber)
- Counter flange inlet
- Counter flange outlet
- 1 x Flex.connect. inlet LT200 U w.2cl.fl.vz
- 1 x Guide duct inlet size 800 RSt 372
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 800 RSt 372
- 1 x Exhaust split silencer WxHxL: 1400x1400x1250 mm