

COMPACT CATALOGUE

Thermal Management
Signaling Technology
Process Cooling | Service

EDITION 20.3

The Pfannenberg group:

A global network to provide the best for you.

Pfannenberg is one of the largest globally active companies in the following sectors: thermal management for electrical enclosures, process cooling and signaling technology. An efficient sales and service network around the globe means we can be there for you quickly and individually worldwide.

To be one of the market leaders, you always have to achieve a little more. Pfannenberg has been doing so for over 60 years, when Otto Pfannenberg invented the filterfan and thus laid the foundation for thermal management of electrical enclosures.

Today, Pfannenberg offers components, integrated systems and tailor-made application solutions for different tasks in the entire field of manufacturing and processing in more than 42 countries worldwide.

Furthermore, we are also represented with our products in mechanical engineering, the automotive industry, in medical engineering, by the generation of conventional and renewable energy and infrastructure.

Hardly any other company can advise you so comprehensively and supply you from one source like Pfannenberg can.

Whether it is the thermal management of electrical enclosures, process cooling, signaling technology, obstacle lighting or the worldwide art illuminations by Pfannenberg, which make the Eiffel Tower in Paris amongst other things, sparkle. As different as our applications may be, they all have one thing in common: they are energy efficient, durable, innovative and in regard to assembly and maintenance, absolutely service oriented.

Regardless of what you are planning, we are always open for requests of all sorts. We will be happy to advise you on combining safety and economic efficiency optimally.



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New: Quick reference web lookup.

Find additional information quickly for products of interest by entering the appropriate webcode into the search window at www.pfannenber.com.

You can find the webcodes under the product images on the left side of each page. Use our new service in order to get more detailed information about the products and other topics described here in the catalogue quickly and easily.



How to use:

1. Write down the “#” plus the short 4-digit number combination.
2. On the internet, visit pfannenber.com.
3. Type in the “#” followed by the 4-digit code in the search window on the top right and click “enter”.

PSS Pfannenber Sizing Software.



The Software

The Pfannenber Sizing Software is the free and easy tool we developed to help you determine your cooling requirements. You can easily get a recommendation for the correct device components needed in your project.

NEW: For every optical and acoustic Pfannenber device are now information about the guaranteed covered signaling area available, ensuring a systematic, reliable and automatically calculated planning in dependence of different environmental conditions.

[Visit our website and try the PSS software now!](http://www.pss-pfannenber.com)



THERMAL MANAGEMENT:

Determine the correct air conditioning products.



Cooling with filterfans.

A filterfan sends cool, filtered ambient air into the interior of the electrical enclosure. At the same time, it increases the pressure slightly, which prevents dust from infiltrating into the enclosure. Fitting a filterfan to the lower third of the electrical enclosure and placing the exhaust filter as high as possible also aids natural air convection processes and avoids the build-up of heat pockets.



Cooling with air/air heat exchangers.

An air/air heat exchanger is used when the ambient air is heavily contaminated (dust, fluids). The external and internal air circuits are isolated from each other in order to form a hermetic seal between the interior of the electrical enclosure and environmental influences.



Cooling with cooling units.

An active cooling unit takes in air from inside the electrical enclosure and lowers its temperature to a suitable level, in order to guarantee a defined temperature in the electrical enclosure. The lowest temperature inside the cabinet is not necessarily the best. Our units are pre-set to 35 °C, which achieves a good balance between useful lifetime and condensate build up. It is essential to have good air intake and air exhaust features in the cooling unit's external air circuit to ensure proper heat energy dispersal into the environment.



Cooling with air/water heat exchangers.

An air/water heat exchanger works without servicing and independently of ambient air quality. Suitable areas for use include extremely high ambient temperatures (>55 °C) and in oily, dusty, humid and aggressive ambient air (IP protection system up to IP 65). Since it uses water to dissipate thermal losses, it is also suitable for use in air-conditioned manufacturing areas in which additional heating is not allowed.



THE PFANNENBERG THERMAL MANAGEMENT CONCEPT:

1 Enclosure cut-out
3 Cooling technologies
9 Device versions

Easy installation



The Plug&Play system enables a single person installation within minutes.

Easy service



Few screws and the easy access of the components make the devices particularly service friendly.

Pfannenberg's unique thermal management concept.

Our offer:

- Complete program of thermal management units:
 - air/air heat exchangers
 - active cooling units
 - air/water heat exchangers

The cooling technologies are cut-out compatible designed to be mounted to cabinets from all electrical enclosure manufacturers.

- Efficient **ECOOL** technology.
- Pfannenberg Sizing Software: find the most suitable solution for individual application.
- **ECOOL**-Plant for cooling units – software service tool for all active cooling units of the 6000-series.

Your benefit:

Manufacturers of machines, plant engineers, end users and distributors profit from increased flexibility and cost savings:

- The cooling technologies are completely interchangeable to suit customer's cooling demand.
- Through one standard cut-out size, only few enclosure variants are needed.
- Minimum logistic expenditure.
- Flexibility of appropriate cooling technology – even after the planning phase.
- Simple upgrade of the cooling technology when temperature conditions change.
- Easy and fast installation reduces service and maintenance costs.



Cut-out	Cooling unit 800–4000 Watt	Air/water heat exchanger 500–5000 Watt	Air/air heat exchanger 20–100 W/K
Size 1	DTx 6801 DTx 6501 DTx 6401 DTx 6301 DTx 6201	PWx 6502 PWx 6302	PAx 6203 PAx 6173
Size 2	DTx 6301C DTx 6201C	PWx 6302C PWx 6152	PAx 6133 PAx 6103 PAx 6073
Size 3	DTx 9041	PWx 6105 PWx 6052	PAx 6043

Controller at a glance.



Standard Controller (SC)



Multi Controller (MC)

	SC	MC
Status LED	•	•
Main fault contact	•	•
Door contact	•	•
Integrated self test	•	•
Service interface	•	•
ECOOL-Plant V2 communication	•	•
Anti freeze control	• ¹⁾	• ¹⁾
Energy saving mode	—	•
Temperature display	—	•
Set buttons	—	•
Multi Master	—	•

¹⁾ available for top mounted cooling units (DTT) only.

Main fault contact

- T_{max} alert.
- Cabinet door is open.
- High pressure switch (e.g. high pressure in refrigerant circuit due to dirty heat exchanger or too high ambient temperature).
- Wrong settings on the controller board.
- Temperature sensor is broken.

Temperature display

- Set temperature (25–45 °C) and alarm temperature (45–60 °C) adjustable.

Status LED

- Ready.
- User fault (e.g. cabinet door open).
- System fault (e.g. high pressure switch).
- Self test.

Service interface at rear side of the cooling unit

- Adjustment of set temperature and switch hysteresis.
- Read outs and logging of temperature and error codes.
- Converter to USB interface is available as an accessory.

Energy saving mode

- Extended energy saving function and prolonged durability by switching the internal fan off.

Multi Master

- The possibility to combine up to 6 cooling units for simultaneous operating mode by a simple two wire connection. No complicated setting or programming of master and slave units.

ECOOL FILTERFANS 4.0

- The patented 4 corner fastening system allows a tool-free installation in seconds and guarantees a secure hold.
- The design cover's fastening system enables a filter mat replacement in seconds.
- Airflow optimised fins and rotor blades guarantee maximal airflow with the minimal energy consumption.
- Filterfans 4.0 can be equipped with a thermostat: it only works when cooling is actually necessary, and so saves energy.
- With the fluted filter mats filterfans 4.0 reach IP 55 system of protection. The intervals in which they need to be replaced extend to 300 % longer than with conventional filter media.
- UL listed.



92 x 92 mm



WEBCODE #8001

PRODUCT	PF 11.000 IP 54	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	19 24 m³/h	19 m³/h
Airflow rate in combination (PF + PFA)	12 14 m³/h	12 m³/h
Power consumption	12 11 W	2.4 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	cable, 2-core, length 310 mm	
Service life L ₁₀ (+40 °C)	52,500 hrs	70,000 hrs

Colour	RAL 7035 ● RAL 9011 ●
Dimension (WxHxD) mm	109 x 109 x 66 109 x 109 x 53
Cut-out (WxH) mm	92 x 92
Approvals	cULus CSA EAC
ARTICLE NO. ●	11611101055 11611801055
ARTICLE NO. ●	11611101050 11611801050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600029
ARTICLE NO. Spare part fan	18611000032 18611000039

Please find further variants at www.pfannenber.com or in our main catalogues.

125 x 125 mm



WEBCODE #8002

PRODUCT	PF 22.000 IP 54	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	60 66 m³/h	60 m³/h
Airflow rate in combination (PF + PFA)	38 42 m³/h	38 m³/h
Power consumption	19 18 W	5 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	terminal strip	cable, 2-core, length 310 mm
Service life L ₁₀ (+40 °C)	37,500 hrs	62,500 hrs

Colour	RAL 7035 ● RAL 9011 ●
Dimension (WxHxD) mm	145 x 145 x 75 145 x 145 x 69
Cut-out (WxH) mm	125 x 125
Approvals	cULus CSA EAC
ARTICLE NO. ●	11622101055 11622801055
ARTICLE NO. ●	11622101050 11622801050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600030
ARTICLE NO. Spare part fan	18611000016 18611000026

Please find further variants at www.pfannenber.com or in our main catalogues.

125 x 125 mm



WEBCODE #8002

PRODUCT	PF 22.000 IP 55	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	56 64 m³/h	
Airflow rate in combination (PF + PFA)	40 46 m³/h	
Power consumption	19 18 W	5 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – fluted filter	
Type of connection	terminal strip	cable, 2-core, length 310 mm
Service life L ₁₀ (+40 °C)	37,500 hrs	62,500 hrs

Colour	RAL 7035 ● RAL 9011 ●
Dimension (WxHxD) mm	145 x 145 x 75 145 x 145 x 69
Cut-out (WxH) mm	125 x 125
Approvals	cULus CSA EAC
ARTICLE NO. ●	11622103055 11622803055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600034
ARTICLE NO. Spare part fan	18611000016 18611000026

Please find further variants at www.pfannenber.com or in our main catalogues.

ECOOL FILTERFANS 4.0

177 x 177 mm



WEBCODE #8003

PRODUCT	PF 32.000 IP 54	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	98 108 m³/h	100 110 m³/h
Airflow rate in combination (PF + PFA)	73 80 m³/h	55 64 m³/h
Power consumption	19 18 W	
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	terminal strip	cable, 2-core, length 310 mm
Service life L ₁₀ (+40 °C)	37,500 hrs	62,500 hrs

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD) mm	202 x 202 x 93	202 x 202 x 87
Cut-out (WxH) mm	177 x 177	
Approvals	cULus CSA EAC	
ARTICLE NO. ●	11632101055	11632801055
ARTICLE NO. ●	11632101050	11632801050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600031	
ARTICLE NO. Spare part fan	18611000016	18611000006

Please find further variants at www.pfannenberg.com or in our main catalogues.

177 x 177 mm



WEBCODE #8003

PRODUCT	PF 32.000 IP 55	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	100 110 m³/h	100 m³/h
Airflow rate in combination (PF + PFA)	55 64 m³/h	55 m³/h
Power consumption	19 18 W	5 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – fluted filter	
Type of connection	terminal strip	cable, 2-core, length 310 mm
Service life L ₁₀ (+40 °C)	37,500 hrs	62,500 hrs

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD) mm	202 x 202 x 93	202 x 202 x 87
Cut-out (WxH) mm	177 x 177	
Approvals	cULus CSA EAC	
ARTICLE NO. ●	11632101055	11632103055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600035	
ARTICLE NO. Spare part fan	18611000016	18611000006

Please find further variants at www.pfannenberg.com or in our main catalogues.

223 x 223 mm



WEBCODE #8004

PRODUCT	PF 42.500 IP 54	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	125 138 m³/h	125 m³/h
Airflow rate in combination (PF + PFA)	93 102 m³/h	93 m³/h
Power consumption	18 17 W	4.7 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	70,000 hrs

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	252 x 252 x 103 mm	
Cut-out (WxH)	223 x 223 mm	
Approvals	cULus CSA EAC	
ARTICLE NO. (RAL 7035)	11642101055	11642801055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600032	
ARTICLE NO. Spare part fan	18611000033	18611000040

Please find further variants at www.pfannenberg.com or in our main catalogues.

223 x 223 mm



WEBCODE #8004

PRODUCT	PF 42.500 IP 55	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	145 160 m³/h	145 m³/h
Airflow rate in combination (PF + PFA)	109 113 m³/h	109 m³/h
Power consumption	18 17 W	4.7 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – fluted filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	70,000 hrs

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	252 x 252 x 103 mm	
Cut-out (WxH)	223 x 223 mm	
Approvals	cULus CSA EAC	
ARTICLE NO. (RAL 7035)	11642101055	11642103055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600036	
ARTICLE NO. Spare part fan	18611000033	18611000040

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL FILTERFANS 4.0

223 x 223 mm



WEBCODE #8005

PRODUCT	PF 43.000 IP 54	
	Rated voltage ±10 %	230 V AC 50 60 Hz
Unimpeded airflow	223 247 m³/h	233 m³/h
Airflow rate in combination (PF + PFA)	201 223 m³/h	201 m³/h
Power consumption	45 39 W	12 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	80,000 hrs
Colour	RAL 7035 ● RAL 9011 ●	

Dimension (WxHxD) mm	252 x 252 x 119	252 x 252 x 103
Cut-out (WxH) mm	223 x 223	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11643101055	11643801055
ARTICLE NO. ●	11643101050	11643801050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600032	
ARTICLE NO. Spare part fan	18611000019	18611000056

Please find further variants at www.pfannenber.com or in our main catalogues.

223 x 223 mm



WEBCODE #8005

PRODUCT	PF 43.000 IP 55	
	Rated voltage ±10 %	230 V AC 50 60 Hz
Unimpeded airflow	233 265 m³/h	233 m³/h
Airflow rate in combination (PF + PFA)	180 207 m³/h	180 m³/h
Power consumption	49 42 W	
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – fluted filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	80,000 hrs

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD) mm	252 x 252 x 119	252 x 252 x 103
Cut-out (WxH) mm	223 x 223	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11643103055	11643803055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600036	
ARTICLE NO. Spare part fan	18611000019	18611000056

Please find further variants at www.pfannenber.com or in our main catalogues.

292 x 292 mm



WEBCODE #8006

PRODUCT	PF 65.000 IP 54	
	Rated voltage ±10 %	230 V AC 50 60 Hz
Unimpeded airflow	480 480 m³/h	505 505 m³/h
Airflow rate in combination (PF + PFA)	370 370 m³/h	380 380 m³/h
Power consumption	80 100 W	
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	NEMA type 12 – fluted filter
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	
Colour	RAL 7035 ● RAL 9011 ●	

Dimension (WxHxD)	320 x 320 x 157 mm	
Cut-out (WxH)	292 x 292 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11665102055	11665103055
ARTICLE NO. ●	11665102050	
ARTICLE NO. Spare part filter mats (5 pieces)	18611600033	18611600037
ARTICLE NO. Spare part fan	18611000044	

Please find further variants at www.pfannenber.com or in our main catalogues.

292 x 292 mm



WEBCODE #8007

PRODUCT	PF 66.000 IP 54	
	Rated voltage ±10 %	230 V AC 50 60 Hz
Unimpeded airflow	640 653 m³/h	
Airflow rate in combination (PF + PFA)	445 445 m³/h	
Power consumption	120 160 W	120 155 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	320 x 320 x 157 mm	
Cut-out (WxH)	292 x 292 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11666102055	11666022055
ARTICLE NO. ●		11666022050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600033	
ARTICLE NO. Spare part fan	18611000045	18611000050

Please find further variants at www.pfannenber.com or in our main catalogues.

ECOOL FILTERFANS 4.0

292 x 292 mm



WEBCODE #8007

PRODUCT	PF 66.000 IP 55	
Rated voltage ±10 %	230 V AC 50 60 Hz	400/460 V AC 3 ~ 50 60 Hz
Unimpeded airflow	770 785 m³/h	
Airflow rate in combination (PF + PFA)	490 501 m³/h	
Power consumption	120 160 W	120 155 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – fluted filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	320 x 320 x 157 mm	
Cut-out (WxH)	292 x 292 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11666103055	11666023055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600037	
ARTICLE NO. Spare part fan	18611000045	18611000050

Please find further variants at www.pfannenberg.com or in our main catalogues.

292 x 292 mm



WEBCODE #8008

PRODUCT	PF 67.000 IP 54	
Rated voltage ±10 %	230 V AC 50 60 Hz	400/460 V AC 3 ~ 50 60 Hz
Unimpeded airflow	845 875 m³/h	
Airflow rate in combination (PF + PFA)	560 625 m³/h	
Power consumption	140 197 W	140 170 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	320 x 320 x 157 mm	
Cut-out (WxH)	292 x 292 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11667102055	11667022055
ARTICLE NO. ●		11667022050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600033	
ARTICLE NO. Spare part fan	18611000046	18611000051

Please find further variants at www.pfannenberg.com or in our main catalogues.

292 x 292 mm



WEBCODE #8008

PRODUCT	PF 67.000 IP 55	
Rated voltage ±10 %	230 V AC 50 60 Hz	400/460 V AC 3 ~ 50 60 Hz
Unimpeded airflow	925 950 m³/h	
Airflow rate in combination (PF + PFA)	570 625 m³/h	
Power consumption	140 197 W	140 170 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – fluted filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	320 x 320 x 157 mm	
Cut-out (WxH)	292 x 292 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11667103055	11667023055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600037	
ARTICLE NO. Spare part fan	18611000046	18611000051

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL SLIM LINE FILTERANS 4.0 – low installation depth

292 x 292 mm



WEBCODE #8009

PRODUCT	PF 65.000 SL	
Rated voltage ±10 %	230 V AC 50 60 Hz	
Unimpeded airflow	500 550 m³/h	
Airflow rate in combination (PF + PFA)	345 423 m³/h	
Power consumption	64 80 W	
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – fluted filter	
Type of connection	screw terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	320 x 320 x 131 mm	
Cut-out (WxH)	292 x 292 mm	
Approvals	cULus CSA	

ARTICLE NO. ●	11675103055	
ARTICLE NO. Spare part filter mats (5 pieces)	18611600037	
ARTICLE NO. Spare part fan	18611000001	

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL SLIM LINE FILTERFANS – low installation depth

292 x 292 mm



WEBCODE #8010

PRODUCT	PF 67.000 SL	
Rated voltage ±10 %	230 V AC 50 60 Hz	400/460 V AC 3 ~ 50 60 Hz
Unimpeded airflow	705 725 m³/h	
Airflow rate in combination (PF + PFA)	530 580 m³/h	
Power consumption	115 165 W	110 165 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – fluted filter	
Type of connection	screw terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	

Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	320 x 320 x 134 mm	
Cut-out (WxH)	292 x 292 mm	
Approvals	cULus CSA	

ARTICLE NO. ●	11677103055	11677023055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600037	
ARTICLE NO. Spare part fan	18611000000	18611000065

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL EXHAUST FILTERS 4.0

- Snap fastener developed and patented by Pfannenberg.
- Mounting without screws in accordance with VDE 0113 (EN 60204).
- Simple filter mat exchange during operation.
- With integrated foam seal to enclosure.

92 x 92 mm



WEBCODE #8011

PRODUCT	PFA 10.000 IP 54	
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	109 x 109 x 23 mm	
Cut-out (WxH)	92 x 92 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11710001055	
ARTICLE NO. ●	11710001050	
ARTICLE NO. Spare part filter mats (5 pieces)	18611600029	

Please find further variants at www.pfannenberg.com or in our main catalogues.

125 x 125 mm



WEBCODE #8012

PRODUCT	PFA 20.000	
	IP 54	IP 55
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	NEMA type 12 – fluted filter
Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	145 x 145 x 31 mm	
Cut-out (WxH)	125 x 125 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11720001055	11720003055
ARTICLE NO. ●	11720001050	
ARTICLE NO. Spare part filter mats (5 pieces)	18611600030	18611600034

Please find further variants at www.pfannenberg.com or in our main catalogues.

177 x 177 mm



WEBCODE #8013

PRODUCT	PFA 30.000	
	IP 54	IP 55
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	NEMA type 12 – fluted filter
Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	202 x 202 x 40 mm	
Cut-out (WxH)	177 x 177 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11730001055	11730003055
ARTICLE NO. ●	11730001050	
ARTICLE NO. Spare part filter mats (5 pieces)	18611600031	18611600035

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL EXHAUST FILTERS 4.0

223 x 223 mm



WEBCODE #8014

PRODUCT	PFA 40.000	
	IP 54	IP 55
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	NEMA type 12 – fluted filter
Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	252 x 252 x 44 mm	
Cut-out (WxH)	223 x 223 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11740001055	11740003055
ARTICLE NO. ●	11740001050	
ARTICLE NO. Spare part filter mats (5 pieces)	18611600032	18611600036

Please find further variants at www.pfannenberg.com or in our main catalogues.

292 x 292 mm



WEBCODE #8015

PRODUCT	PFA 60.000	
	IP 54	IP 55
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	NEMA type 12 – fluted filter
Colour	RAL 7035 ● RAL 9011 ●	
Dimension (WxHxD)	320 x 320 x 46 mm	
Cut-out (WxH)	292 x 292 mm	
Approvals	cULus CSA EAC	

ARTICLE NO. ●	11760002055	11760003055
ARTICLE NO. ●	11760002050	
ARTICLE NO. Spare part filter mats (5 pieces)	18611600033	18611600037

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL FILTERFANS EMC – Electromagnetic compatibility

126.5 x 126.5 mm



WEBCODE #8121

PRODUCT	PF 11.000 EMC IP 54	
	Rated voltage ±10 %	230 V AC 50 60 Hz
Unimpeded airflow	19 24 m³/h	19 m³/h
Airflow rate in combination (PF + PFA)	12 14 m³/h	12 m³/h
Power consumption	12 11 W	2.4 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	cable, 2-core, length 310 mm	
Service life L ₁₀ (+40 °C)	52,500 hrs	70,000 hrs
EMC screen	stainless steel	

Colour	RAL 7035 ●	
Dimension (WxHxD)	109 x 109 x 66 mm	109 x 109 x 53 mm
Cut-out (WxH)	93 x 93 mm	
Approvals	cULus EAC	

ARTICLE NO. ●	11811101055	11811801055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600029	
ARTICLE NO. Spare part fan	18611000032	18611000039

Please find further variants at www.pfannenberg.com or in our main catalogues.

126.5 x 126.5 mm



WEBCODE #8016

PRODUCT	PF 22.000 EMC IP 54	
	Rated voltage ±10 %	230 V AC 50 60 Hz
Unimpeded airflow	60 66 m³/h	60 m³/h
Airflow rate in combination (PF + PFA)	38 42 m³/h	38 m³/h
Power consumption	19 18 W	5 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	terminal strip	cable, 2-core, length 310 mm
Service life L ₁₀ (+40 °C)	37,500 hrs	62,500 hrs
EMC screen	stainless steel	

Colour	RAL 7035 ●	
Dimension (WxHxD)	145 x 145 x 75 mm	145 x 145 x 69 mm
Cut-out (WxH)	126.5 x 126.5 mm	
Approvals	cULus EAC	

ARTICLE NO. ●	11822101055	11822801055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600030	
ARTICLE NO. Spare part fan	18611000016	18611000026

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL FILTERFANS EMC – Electromagnetic compatibility

178 x 178 mm



WEBCODE #8122

PRODUCT	PF 32.000 EMC IP 54	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	98 108 m³/h	98 m³/h
Airflow rate in combination (PF + PFA)	73 80 m³/h	73 m³/h
Power consumption	19 18 W	5 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	terminal strip	cable, 2-core, length 310 mm
Service life L ₁₀ (+40 °C)	37,500 hrs	62,500 hrs
EMC screen	stainless steel	

Colour	RAL 7035 ●	
Dimension (WxHxD) mm	202 x 202 x 93	202 x 202 x 87
Cut-out (WxH) mm	178 x 178	
Approvals	cULus EAC	

ARTICLE NO. ●	11832101055	11832801055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600031	
ARTICLE NO. Spare part fan	18611000016	18611000026

Please find further variants at www.pfannenber.com or in our main catalogues.

224 x 224 mm



WEBCODE #8123

PRODUCT	PF 42.500 EMC IP 54	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	125 138 m³/h	125 m³/h
Airflow rate in combination (PF + PFA)	93 102 m³/h	93 m³/h
Power consumption	18 17 W	4.7 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	70,000 hrs
EMC screen	stainless steel	

Colour	RAL 7035 ●	
Dimension (WxHxD) mm	252 x 252 x 103	252 x 252 x 119
Cut-out (WxH) mm	224 x 224	
Approvals	cULus EAC	

ARTICLE NO. ●	11842101055	11842801055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600032	
ARTICLE NO. Spare part fan	18611000033	18611000040

Please find further variants at www.pfannenber.com or in our main catalogues.

224 x 224 mm



WEBCODE #8017

PRODUCT	PF 43.000 EMC IP 54	
Rated voltage ±10 %	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	223 247 m³/h	223 m³/h
Airflow rate in combination (PF + PFA)	201 223 m³/h	201 m³/h
Power consumption	45 39 W	12 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	80,000 hrs
EMC screen	stainless steel	

Colour	RAL 7035 ●	
Dimension (WxHxD) mm	252 x 252 x 119	252 x 252 x 103
Cut-out (WxH) mm	224 x 224	
Approvals	cULus EAC	

ARTICLE NO. ●	11843101055	11843801055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600032	
ARTICLE NO. Spare part fan	18611000019	18611000056

Please find further variants at www.pfannenber.com or in our main catalogues.

292 x 292 mm



WEBCODE #8018

PRODUCT	PF 67.000 EMC IP 54	
Rated voltage ±10 %	230 V AC 50 60 Hz	400/460 V AC 3 ~ 50 60 Hz
Unimpeded airflow	845 875 m³/h	
Airflow rate in combination (PF + PFA)	560 625 m³/h	
Power consumption	140 197 W	140 170 W
Degrees of protection (EN 60529 / UL 50)	NEMA type 12 – standard filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	40,000 hrs	
EMC screen	stainless steel	

Colour	RAL 7035 ●	
Dimension (WxHxD)	320 x 320 x 157 mm	
Cut-out (WxH)	292 x 292 mm	
Approvals	cULus EAC	

ARTICLE NO. ●	11867102055	11867022055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600033	
ARTICLE NO. Spare part fan	18611000046	18611000051

Please find further variants at www.pfannenber.com or in our main catalogues.

ECOOL FILTERFANS FOR ROOF MOUNTING

500 m³/h



WEBCODE #8019

PRODUCT	PTF 60.500	
	IP 54	IP 33
Rated voltage ±10 %	230 V AC 50 60 Hz	
Unimpeded airflow	310 m ³ /h	500 m ³ /h
Airflow rate in combination (PF + PFA)	210 m ³ /h	268 m ³ /h
Power consumption	4x 28 29 W	
Type of connection	terminal strip	
Service life L ₁₀ (+40 °C)	approx. 50,000 hrs	
Colour	RAL 7035 ●	

Dimension (WxHxD)	436 x 106 x 436 mm	
Cut-out (WxH)	291 x 291 mm	
Approvals	cULus EAC	

ARTICLE NO. ●	11685101055	11685100055
ARTICLE NO. Spare part filter mats (20 pieces)	18611600124	
ARTICLE NO. Spare part fan	18611000052	

Please find further variants at www.pfannenberg.com or in our main catalogues.

700 m³/h



WEBCODE #8020

PRODUCT	PTF 60.700	
	IP 54	IP 33
Rated voltage ±10 %	230 V AC 50 60 Hz	
Unimpeded airflow	646 m ³ /h	700 m ³ /h
Airflow rate in combination (PF + PFA)	360 m ³ /h	427 m ³ /h
Power consumption	80 100 W	
Type of connection	terminal strip	
Service life L ₁₀ (+40 °C)	approx. 40,000 hrs	
Colour	RAL 7035 ●	

Dimension (WxHxD)	470 x 152 x 470 mm	
Cut-out (WxH)	291 x 291 mm	
Approvals	cULus EAC	

ARTICLE NO. ●	11687102055	11687100055
ARTICLE NO. Spare part filter mats (20 pieces)	18611600143	
ARTICLE NO. Spare part fan	18611000044	

Please find further variants at www.pfannenberg.com or in our main catalogues.

1000 m³/h



WEBCODE #8021

PRODUCT	PTF 61.000	
	IP 54	IP 33
Rated voltage ±10 %	230 V AC 50 60 Hz	
Unimpeded airflow	1035 m ³ /h	1000 m ³ /h
Airflow rate in combination (PF + PFA)	570 m ³ /h	582 m ³ /h
Power consumption	120 160 W	
Type of connection	terminal strip	
Service life L ₁₀ (+40 °C)	approx. 40,000 hrs	
Colour	RAL 7035 ●	

Dimension (WxHxD)	470 x 152 x 470 mm	
Cut-out (WxH)	291 x 291 mm	
Approvals	cULus EAC	

ARTICLE NO. ●	11681102055	11681100055
ARTICLE NO. Spare part filter mats (20 pieces)	18611600143	
ARTICLE NO. Spare part fan	18611000045	

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL EXHAUST FILTER FOR ROOF MOUNTING



WEBCODE #8022

PRODUCT	PTFA 60.000	
	IP 54	IP 33
Colour	RAL 7035 ●	
Dimension (WxHxD)	320 x 320 x 46 mm	
Cut-out (WxH)	291 x 291 mm	
Approvals	cULus EAC	

ARTICLE NO. ●	11786001055	11786000055
ARTICLE NO. Spare part filter mats (20 pieces)	18611600124	

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL COOLING UNITS

- High EER (energy efficiency ratio).
- Condenser with large fin spacing for highly effective protection in strongly contaminated ambient air.
- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated.
- Optional Multi Controller (see page 7).
- Optional filter (easy to retrofit).
- Energy-saving mode by default integrated into the Multi Controller.

DTI: for partially recessed mounting in the door or side

- DTI units can be installed within 3 minutes.
- One man installation with Pfannenberg's fastening clips.
- Due to partial integration DTI units need less space, so they do not block paths in the factory and do not disturb production processes.
- Easy upgrade: DTI units can be easily upgraded to a more powerful and secure air/water heat exchanger (PWI) due to cut-out compatibility (more infos in brochure »The Pfannenberg Thermal Management Concept«).

DTS: for outer mounting on the door or side

- DTS units virtually do not need any space inside the enclosure.
- For better service the steel hood can be removed easily.
- Easy upgrade: DTS units can be easily upgraded to a more powerful and secure air/water heat exchanger (PWS) due to cut-out compatibility.



Installation of partially integrated thermal management unit (DTI/PWI).

1000 W



WEBCODE #8025

PRODUCT	DTI 6201 DTS 6201	
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1000 W	
Power consumption	454 567 W	490 570 W
Current consumption	3.08 3.65 A	2.33 2.54 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Colour	RAL 7035	
Dimension (WxHxD)	DTI: 485 x 1536 x 218 mm DTS: 485 x 1543 x 218 mm	
Weight (net)	50 kg 51 kg	55 kg 56 kg

Noise level	<62 dB(A) (EN ISO 3741)
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings
Approvals	cURus EAC

ARTICLE NO.	DTI	DTS
Standard Controller 230 V	13896211055	13886211055
Standard Controller 400 V	13896219055	13886219055
Multi Controller 230 V	13896221055	13886221055
Multi Controller 400 V	13896229055	13886229055

Please find further variants at www.pfannenberg.com or in our main catalogues.

1500 W



WEBCODE #8124

PRODUCT	DTI 6301 DTS 6301	
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1500 W	
Power consumption	727 868 W	786 863 W
Current consumption	5.08 5.17 A	3.65 3.35 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Colour	RAL 7035	
Dimension (WxHxD)	DTI: 485 x 1536 x 218 mm DTS: 485 x 1543 x 218 mm	
Weight (net)	50 kg 51 kg	55 kg 56 kg

Noise level	<62 dB(A) (EN ISO 3741)
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings
Approvals	cURus EAC

ARTICLE NO.	DTI	DTS
Standard Controller 230 V	13896311055	13886311055
Standard Controller 400 V	13896319055	13886319055
Multi Controller 230 V	13896321055	13886321055
Multi Controller 400 V	13896329055	13886329055

Please find further variants at www.pfannenberg.com or in our main catalogues.

2000–2500 W



WEBCODE #8026

PRODUCT	DTI 6401 DTS 6401	DTI 6501 DTS 6501
Rated voltage ±10 %	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	2000 W	2500 W
Power consumption	753 908 W	1048 1247 W
Current consumption	2.71 2.59 A	3.27 3.1 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Colour	RAL 7035	
Dimension (WxHxD)	DTI: 485 x 1536 x 278 mm DTS: 485 x 1543 x 278 mm	

Weight (net)	67 71 kg	67 71 kg
Noise level	<65 dB(A) (EN ISO 3741)	
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC	

ARTICLE NO.	DTI	DTS
6401 SC	13896412055	13886412055
6401 MC	13896422055	13886422055
6501 SC	13896512055	13886512055
6501 MC	13896522055	13886522055

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL COOLING UNITS

4000 W



WEBCODE #8027

PRODUCT	DTI 6801	DTS 6801
Rated voltage ±10 %	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	4000 W	
Power consumption	1918 2369 W	
Current consumption	4.5 4.6 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Colour	RAL 7035	
Dimension (WxHxD)	485 x 1539 x 372 mm	485 x 1549 x 372 mm

Weight (net)	91 kg	95 kg
Noise level	<70 dB(A) (EN ISO 3741)	
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC	

ARTICLE NO.	DTI	DTS
SC	13896812055	13886812055
MC	13896822055	13886822055

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL COMPACT COOLING UNITS

- Compact design for smaller cabinets or to cool hot spots.
- Very high energy efficiency ratio (EER) for up to 43 % energy savings and operating costs reduction.
- Additional temperature sensor in the Multi Controller (MC) model allows the deactivation of the internal fan and condensate evaporation for additional 10 % energy savings and service life extension of the fan.
- Highest variability due to cut-out compatibility for 2 performance classes and to Pfannenberg air/water and air/air heat exchangers.
- Interface to use ECOOL-Plant software at the Multi Controller (MC) model with operating hours counter and error history observation for preventive maintenance processes and exact error analysis.
- Service friendly due to direct access to the PCB and the fans, thus 80 % shorter repair times.
- Optional pre-filter upgradable with aluminium, vlies or fluted filter, for the application of the cooling units in different ambient conditions.
- Optional Multi Controller (see page 7).

DTI: for partially recessed mounting in the door or side

- Tool-free mounting (DTI) by 1 person is possible in less than 3 minutes with 55 % lower mounting costs.
- Elegantly integrated in the machine design; transport and escape routes are kept clear.
- Spring plate enables 1 person to install the cooling unit. This prevents it from falling out when unsupervised.

DTS: for outer mounting on the door or side

- DTS units virtually do not need any space inside the enclosure.
- For better service the steel hood can be removed easily.

1000 W



WEBCODE #8023

PRODUCT	DTI 6201C	DTS 6201C
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1000 W	
Power consumption	445 560 W	480 570 W
Current consumption	2.4 2.9 A	1.8 2.1 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Colour	RAL 7035	
Dimension (WxHxD)	410 x 962 x 253 mm	410 x 968 x 253 mm

Weight (net)	40 kg	45 kg
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus	

ARTICLE NO.	DTI	DTS
Standard Controller 230 V	13895211055	13885211055
Standard Controller 400 V	13895219055	13885219055
Multi Controller 230 V	13895221055	13885221055
Multi Controller 400 V	13895229055	13885229055

Please find further variants at www.pfannenberg.com or in our main catalogues.

1500 W



WEBCODE #8024

PRODUCT	DTI 6301C	DTS 6301C
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1500 W	
Power consumption	705 820 W	770 820 W
Current consumption	5.0 5.2 A	3.5 3.3 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Colour	RAL 7035	
Dimension (WxHxD)	410 x 962 x 253 mm	410 x 968 x 253 mm

Weight (net)	40 kg	45 kg
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus	

ARTICLE NO.	DTI	DTS
Standard Controller 230 V	13895311055	13885311055
Standard Controller 400 V	13895319055	13885319055
Multi Controller 230 V	13895321055	13885321055
Multi Controller 400 V	13895329055	13885329055

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL TOP MOUNTING COOLING UNITS

DTT: for mounting on the top of enclosure

- Tool-less installation due to Pfannenberg's fastening clips.
- Designed to be placed on top of the enclosure when there is a space shortage or aisles need to be kept clear.
- Patented condensate management provides the best security against dangerous condensate drops inside the enclosure.
- Service-friendly: robust cover completely removable towards the front. Easily accessible filter mats (optional) and control elements in front area.
- Energy efficiency: around 20 % saving on energy thanks to the use of more effective, lighter components.
- Design and colour matching: perfect mixture of functionality and design.
- Optional Multi Controller (see page 7).



Easy maintenance and quick installation.

640 W



WEBCODE #8031

PRODUCT	DTT 6101
Rated voltage ±10 %	230 V AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	640 W
Power consumption	450 540 W
Current consumption	2.1 2.3 A
Design (housing)	galvanised sheet steel
Design (cover)	electrostatically powder coated (200 °C)
Weight (net)	33 kg

Dimension (WxHxD)	588 x 451 x 393 mm	
Colour	RAL 7035	
Noise level	<62 dB(A) (EN ISO 3741)	
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC NEMA type 12	

ARTICLE NO.	Standard Controller	Multi Controller
DTT 6201	13256141055	13256171055

Please find further variants at www.pfannenberg.com or in our main catalogues.

1000 W



WEBCODE #8125

PRODUCT	DTT 6201	
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1000 1080 W	
Power consumption	600 640 W	
Current consumption	2.4 2.7 A	1.6 1.7 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Weight (net)	35 kg	41 kg
Dimension (WxHxD)	588 x 451 x 393 mm	

Colour	RAL 7035	
Noise level	<62 dB(A) (EN ISO 3741)	
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC NEMA type 12	

ARTICLE NO.	Standard Controller	Multi Controller
DTT 6201 230 V	13256241055	13256271055
DTT 6201 400 V	13256249055	13256279055

Please find further variants at www.pfannenberg.com or in our main catalogues.

1500 W



WEBCODE #8126

PRODUCT	DTT 6301	
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1500 1620 W	
Power consumption	1000 1160 W	
Current consumption	5.73 7 A	3.75 3.6 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Weight (net)	45 kg	50.5 kg
Dimension (WxHxD)	595 x 435 x 495 mm	

Colour	RAL 7035	
Noise level	<62 dB(A) (EN ISO 3741)	
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC NEMA type 12	

ARTICLE NO.	Standard Controller	Multi Controller
DTT 6301 230 V	13256341055	13256371055
DTT 6301 400 V	13256349055	13256379055

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL TOP MOUNTING COOLING UNITS

2000 W



WEBCODE #8032

PRODUCT	DTT 6401	
Rated voltage ±10 %	AC 50 60 Hz	
	230 V	400/460 V 3~
Cooling capacity (EN 14511) @ A35/A35	2000 2100 W	
Power consumption	1049 1275 W	1300 1598 W
Current consumption	6.2 7 A	3 3.3 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Weight (net)	46 kg	51 kg

Dimension (WxHxD)	595 x 435 x 495 mm	
Colour	RAL 7035	
Noise level	<62 dB(A) (EN ISO 3741)	
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC NEMA type 12	

ARTICLE NO.	Standard Controller	Multi Controller
DTT 6401 230 V	13256441055	13256471055
DTT 6401 400/460 V	13256432055	13256462055

Please find further variants at www.pfannenberg.com or in our main catalogues.

3000–4000 W



WEBCODE #8033

PRODUCT	DTT 6601	DTT 6801
Rated voltage ±10 %	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	3000 W	4000 W
Power consumption	1700 2100 W	1618 2050 W
Current consumption	3.16 4.5 A	7.07 5 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Weight (net)	75 kg	77 kg
Dimension (WxHxD)	795 x 485 x 575 mm	

Colour	RAL 7035	
Noise level	<62 dB(A) (EN ISO 3741)	
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC NEMA type 12	

ARTICLE NO.	DTT 6601	DTT 6801
Standard Controller	13256632055	13256832055
Multi Controller	13256662055	13256862055

Please find further variants at www.pfannenberg.com or in our main catalogues.

COOLING UNITS

DTI | DTFI: for partially recessed mounting in the door or side

DTS: for outer mounting on the door or side

- Optional Multi Controller (see page 7).

DTS 9011H | DTFI 9021 | DTI 9021 | DTI/DTS 9031 | DTI/DTS 9041:

- Small mounting area, ideal for small electrical enclosures and larger electrical enclosures for the cooling of hot spots.
- Ideal for flat control cabinets, control consoles and operating units.
- Simple and fast mounting with brackets for door or side mounting.

DTFI 9021:

- Cut-out compatible with 3rd and 4th Generation Filterfans, installation size 6.
- Integrated fault and door contact.
- Optionally available with integrated condensate evaporation system.



300 W



WEBCODE #8028

PRODUCT	DTS 9011H Standard Controller
Rated voltage ±10 %	230 V AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	300 W
Power consumption	275 290 W
Current consumption	1.52 1.56 A
Design (housing)	galvanised sheet steel
Design (cover)	electrostatically powder coated (200 °C)
Colour	RAL 7035

Dimension (WxHxD)	495 x 300 x 140 mm
Weight (net)	15 kg
Noise level	<65 dB(A) (EN ISO 3741)
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings
Approvals	cURus EAC

ARTICLE NO.	DTS 9011H
SC	13242541055

Please find further variants at www.pfannenberg.com or in our main catalogues.

COOLING UNITS

320 W



WEBCODE #8029

PRODUCT	DTFI 9021	DTI 9021
	Standard Controller	
Rated voltage ±10 %	230 V AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	320 W	
Power consumption	230 240 W	
Current consumption	1.6 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Colour	RAL 7035	

Dimension (WxHxD)	385 x 326 x 245 mm	385 x 329 x 245 mm
Weight (net)	16 kg	17 kg
Noise level	<62 dB(A) (EN ISO 3741)	
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC	

ARTICLE NO.	DTFI 9021	DTI 9021
SC	13293141055	13293041055

Please find further variants at www.pfannenber.com or in our main catalogues.

510 W



WEBCODE #8144

PRODUCT	DTI 9031	DTS 9031
	Standard Controller	
Rated voltage ±10 %	230 V AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	510 W	
Power consumption	283 337 W	
Current consumption	1.58 1.64 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	
Colour	RAL 7035	
Dimension (WxHxD)	310 x 562 x 212 mm	310 x 565 x 212 mm

Weight (net)	21 kg	22 kg
Noise level	63 dB(A) (EN ISO 3741)	
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC	

ARTICLE NO.	DTI	DTS
SC	13295041055	13245041055

Please find further variants at www.pfannenber.com or in our main catalogues.

870 W



WEBCODE #8145

PRODUCT	DTI 9041	DTS 9041	DTS 9041
	Standard Controller		
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	870 W	810 W	
Power consumption	524 634 W	580 702 W	
Current consumption	3.06 3.34 A	3.2 3.49 A	
Design (housing)	galvanised sheet steel		
Design (cover)	electrostatically powder coated (200 °C)		
Colour	RAL 7035		
Noise level	<63 dB(A) (EN ISO 3741)		

Abmessung (BxHxT)	DTI	380 x 599 x 231 mm	
	DTS	380 x 604 x 231 mm	380 x 604 x 363 mm
Weight (net)	DTI	29.5 kg	
	DTS	29.5 kg	37 kg
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings		
Approvals	cURus EAC		

ARTICLE NO.	DTI	DTS
SC 230 V	13299041055	13249041055
SC 400 V		13249049055

Please find further variants at www.pfannenber.com or in our main catalogues.

2000–2500 W



WEBCODE #8030

PRODUCT	DTI 9441	DTS 9441	DTI 9541	DTS 9541
	Standard Controller			
Rated voltage ±10 %	400/460 V 3~ AC 50 60 Hz			
Cooling capacity (EN 14511) @ A35/A35	2000 W	2500 W		
Power consumption	880 1250 W	1140 1450 W		
Current consumption	3.2 3.7 A	3.5 3.9 A		
Design (housing)	galvanised sheet steel			
Design (cover)	electrostatically powder coated (200 °C)			
Colour	RAL 7035			
Noise level	<65 dB(A) (EN ISO 3741)			
Abmessung (BxHxT)	DTI	485 x 1536 x 240 mm		
	DTS	485 x 1543 x 240 mm		

Weight (net)	DTI	67 kg		
	DTS	71 kg		
Degrees of protection (EN 60529)	IP 54 towards the enclosure, IP 34 towards the surroundings			
Approvals	cURus EAC			

ARTICLE NO.	DTI	DTS
9441 SC	13269432055	13289432055
9541 SC	13269532055	13289532055

Please find further variants at www.pfannenber.com or in our main catalogues.

OUTDOOR COOLING UNITS

DTS: for outer mounting on the door or side

- Robust cooling unit in compact design for smaller cabinets or to cool hot spots.
- In stainless steel with NEMA 4X approval or powder coated with IP 56 particularly suitable for outdoor applications.
- Optional pre-filter for even greater protection for oily air.
- Condenser with large fin spacing enables very long maintenance intervals even without additional Nano coating.
- Coated components in the external circuit actively prevent corrosion caused by aggressive media (copper pipe | solder joints | heat exchanger).
- Integrated condensate evaporation; no puddles of water under the device for increased operation safety.



320 W



WEBCODE #8107

PRODUCT	DTS 3031	DTS 3031 VA Standard Controller
Rated voltage ±10 %	230 V AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	306 W	
Power consumption	253 W	
Current consumption	1.2 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	stainless steel 304
Dimension (WxHxD)	178 x 394 x 229 mm	

Weight (net)	14 kg	
Noise level	<64 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 3R/4	Type 4/4X
	towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	

ARTICLE NO.	DTS 3031	DTS 3031 VA
230 V	13383141355	13383141158

Please find further variants at www.pfannenberg.com or in our main catalogues.

694 W



WEBCODE #8115

PRODUCT	DTS 3061	DTS 3081
Rated voltage ±10 %	230 V AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	694 W	
Power consumption	663 W	
Current consumption	4.1 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	stainless steel 304
Dimension (WxHxD)	254 x 512 x 274 mm	

Weight (net)	23 kg	25 kg
Noise level	<64 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 3R/4	Type 4/4X
	towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	

ARTICLE NO.	DTS 3061	DTS 3081
Standard Controller	13382341355	13382341300
Low Ambient Package	13382341375	

Please find further variants at www.pfannenberg.com or in our main catalogues.

1235 W



WEBCODE #8109

PRODUCT	DTS 3161
Rated voltage ±10 %	230 V AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1235 W
Power consumption	795 W
Current consumption	4 A
Design (housing)	galvanised sheet steel
Design (cover)	electrostatically powder coated (200 °C), RAL 7035
Dimension (WxHxD)	395 x 748 x 294 mm

Weight (net)	40 kg	
Noise level	<70 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 3R/4	towards the enclosure
	1 towards the surroundings	
Approvals	cULus EAC	

ARTICLE NO.	DTS 3161
Standard Controller	13385441355
Low Ambient Package	13385441375

Please find further variants at www.pfannenberg.com or in our main catalogues.

1235 W



WEBCODE #8109

PRODUCT	DTS 3181	
Rated voltage ±10 %	230 V AC 50 60 Hz	460 V 3~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1235 W	
Power consumption	795 W	
Current consumption	4 A	
Design (housing)	galvanised sheet steel	
Design (cover)	stainless steel 304	
Dimension (WxHxD)	395 x 748 x 294 mm	395 x 748 x 237 mm

Weight (net)	42 kg	44 kg
Noise level	<70 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 4/4X	towards the enclosure
	1 towards the surroundings	
Approvals	cULus EAC	

ARTICLE NO.	DTS 3181 Standard Controller
230 V	13385441158
460 V	13385436158

Please find further variants at www.pfannenberg.com or in our main catalogues.

OUTDOOR COOLING UNITS

1900 W



WEBCODE #8116

PRODUCT	DTS 3261	DTS 3281
Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	1900 W	
Power consumption	1400 W	
Current consumption	2 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	stainless steel 304
Dimension (WxHxD)	395 x 1209 x 326 mm	

Weight (net)	67 kg	
Noise level	<73 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 3R/4	Type 4/4X
	towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	
ARTICLE NO.	DTS 3261	DTS 3281
Standard Controller	13385736355	13385736158
Low Ambient Package	13385736375	

Please find further variants at www.pfannenberg.com or in our main catalogues.

1948 W



WEBCODE #8117

PRODUCT	DTS 3165	DTS 3185
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	1948 W	
Power consumption	1020 W	
Current consumption	6.2 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	stainless steel 304
Dimension (WxHxD)	305 x 918 x 305 mm	

Weight (net)	49 kg	
Noise level	<70 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 3R/4	Type 4/4X
	towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	
ARTICLE NO.	DTS 3165	DTS 3185
Standard Controller	13383639355	13385736158
Low Ambient Package	13383639375	

Please find further variants at www.pfannenberg.com or in our main catalogues.

3325 W



WEBCODE #8111

PRODUCT	DTS 3265	DTS 3285
Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	3325 W	
Power consumption	1700 W	
Current consumption	2.6 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	stainless steel 304
Dimension (WxHxD)	411 x 1347 x 365.2 mm	

Weight (net)	68 kg	
Noise level	<73 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 3R/4	Type 4/4X
	towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	
ARTICLE NO.	DTS 3265	DTS 3285
Standard Controller	13383836355	13383836158
Low Ambient Package	13383836375	

Please find further variants at www.pfannenberg.com or in our main catalogues.

5490 W



WEBCODE #8127

PRODUCT	DTS 3461	DTS 3481
Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	5490 W	
Power consumption	1979 W	
Current consumption	2.5 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	stainless steel 304
Dimension (WxHxD)	406 x 1440 x 484.5 mm	

Weight (net)	79 kg	
Noise level	<73 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 3R/4	Type 4/4X
	towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	
ARTICLE NO.	DTS 3461	DTS 3481
Standard Controller	13385036355	13385036158

Please find further variants at www.pfannenberg.com or in our main catalogues.

OUTDOOR COOLING UNITS

5795 W



WEBCODE #8113

PRODUCT	DTS 3661	DTS 3681
	Standard Controller	
Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	5795 W	
Power consumption	2920 W	
Current consumption	6.3 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	stainless steel 304
Dimension (WxHxD)	485 x 1665 x 520 mm	

Weight (net)	108 kg	109 kg
Noise level	<73 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 3R/4	Type 4/4X
	towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	
ARTICLE NO.	DTS 3661	DTS 3681
Standard Controller	13383936355	13383936158
Low Ambient Package	13383936365	

Please find further variants at www.pfannenberg.com or in our main catalogues.

680–1948 W



WEBCODE #8128

PRODUCT	DTS 3061 HT	DTS 3165 HT
	Rated voltage $\pm 10\%$	230 V AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	680 W	1948 W
Power consumption	350 W	860 W
Current consumption	1.9 A	7.8 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	
Dimension (WxHxD)	254 x 515 x 279 mm	305 x 914 x 302 mm

Weight (net)	23 kg	49 kg
Noise level (EN ISO 3741)	<73 dB(A)	<70 dB(A)
Degrees of protection (NEMA)	Type 3R/4 towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	
ARTICLE NO.	DTS 3061 HT	DTS 3165 HT
230 V	13392341005	13393641001

Please find further variants at www.pfannenberg.com or in our main catalogues.

3040 W



WEBCODE #8129

PRODUCT	DTS 3265 HT	
	Rated voltage $\pm 10\%$	230 V AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	3040 W	
Power consumption	1360 W	
Current consumption	7 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	
Dimension (WxHxD)	485 x 1665 x 520 mm	

Weight (net)	68 kg	
Noise level	<64 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Type 3R/4 towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	
ARTICLE NO.	DTS 3265 HT	
230 V	13393841001	

Please find further variants at www.pfannenberg.com or in our main catalogues.

1235–1900 W



WEBCODE #8128

PRODUCT	DTS 3141	DTS 3241
	Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1235 W	1900 W
Power consumption	795 W	1400 W
Current consumption	4 A	2 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	
Dimension (WxHxD)	395x748x237 mm	395x1209x269 mm

Weight (net)	38 kg	54 kg
Noise level	<70 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Typ 12 towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	
ARTICLE NO.	DTS 3141	DTS 3241
Standard Controller	13385436255	13385736255

Please find further variants at www.pfannenberg.com or in our main catalogues.

1235–1900 W



WEBCODE #8146

PRODUCT	DTS 3245	
	Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	3500 W	
Power consumption	1700 W	
Current consumption	2.6 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	
Dimension (WxHxD)	406 x 1347 x 301 mm	

Weight (net)	68 kg	
Noise level	<70 dB(A) (EN ISO 3741)	
Degrees of protection (NEMA)	Typ 12 towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC	
ARTICLE NO.	DTS 3245	
Standard Controller	13383836255	

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL AIR/WATER HEAT EXCHANGERS

- Offers the highest degree of safety and energy efficiency.
- Perfect for very harsh (hot or dusty) ambient conditions up to +70 °C.
- Integrated thermostat and solenoid valve for temperature control.
- Integrated temperature monitoring with alarm contact.
- Optionally available with water connection on top (PWI 6000T).

PWI: for partially recessed mounting in the door or side

- Easy mounting with click and fit system for partially sunk-in within 3 minutes.
- One man installation with Pfannenberg's fastening clips.
- Due to partial integration units need less space, so they do not block paths in the factory and do not disturb production processes.

PWI T: Device version with water inlet and outlet from above

PWS: for outer mounting on the door or side

- PWS units virtually do not need any space inside the enclosure.
- More components can be used inside the enclosure.
- For better service the steel hood can be removed easily.



Easy installation and connection to water circuit or chiller.

1000 W



WEBCODE #8037

PRODUCT	PWI 6102	PWS 6102
Rated voltage ±10 %	230 V AC 50 60 Hz	
Cooling capacity	1000 W	
Power consumption	68 78 W	
Current consumption	0.3 0.34 A	
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	380 x 615 x 142 mm	380 x 622.5 x 142 mm
Weight (net)	10.5 kg	11 kg
Noise level (EN ISO 3741)	≤48 dB(A)	
Colour	RAL 7035	
Design (housing)	galvanised sheet steel	

Design (cover)	electrostatically powder coated (200 °C)
Design (heat exchanger)	copper pipe with aluminium fins
Type of connection	spring-type terminal included with plug G 3/8" internal thread for fluid I appropriate hose nozzle in accessory pack
Degrees of protection (EN 60529)	IP 55 towards the enclosure
Approvals	cURus EAC

ARTICLE NO.	PWI	PWS
230 V	12891401055	12881401055

Please find further variants at www.pfannenberg.com or in our main catalogues.

1500–3000 W



WEBCODE #8038

PRODUCT	PWI 6152 PWS 6152	PWI 6302C PWS 6302C
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V AC 50 60 Hz
Cooling capacity	1500 W	3000 W
Power consumption	91 122 W	78 78 W
Current consumption	0.47 0.54 A	0.36 0.35 A
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	PWI 410 x 938 x 142 mm PWS 410 x 945.5 x 142 mm	
Weight (net)	PWI 15 kg PWS 16 kg	20 kg 21 kg
Noise level (EN ISO 3741)	53 dB(A)	54 dB(A)
Colour	RAL 7035	

Design (housing)	galvanised sheet steel
Design (cover)	electrostatically powder coated (200 °C)
Design (heat exchanger)	copper pipe with aluminium fins
Type of connection	spring-type terminal included with plug G 3/8" internal thread for fluid I appropriate hose nozzle in accessory pack
Degrees of protection (EN 60529)	IP 55 towards the enclosure
Approvals	cURus EAC

ARTICLE NO.	PWI	PWS
6152, 230 V	12892301055	12882301055
6302C, 400 V	12892609055	12882609055

Please find further variants at www.pfannenberg.com or in our main catalogues.

3000–5000 W



WEBCODE #8039

PRODUCT	PWI 6302 PWS 6302	PWI 6502 PWS 6502
Rated voltage ±10 %	400/460 V 2~ AC 50 60 Hz	
Cooling capacity	3000 W	5000 W
Power consumption	53 75 W	79 130 W
Current consumption	0.47 0.49 A	0.69 0.83 A
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	PWI 485 x 1549 x 142 mm PWS 485 x 1556 x 142 mm	485 x 1544 x 186 mm 485 x 1556 x 186 mm
Weight (net)	PWI 26 kg PWS 28 kg	36.5 kg 31.5 kg
Noise level (EN ISO 3741)	54 dB(A)	57 dB(A)
Colour	RAL 7035	

Design (housing)	galvanised sheet steel
Design (cover)	electrostatically powder coated (200 °C)
Design (heat exchanger)	copper pipe with aluminium fins
Type of connection	spring-type terminal included with plug G 3/8" internal thread for fluid I appropriate hose nozzle in accessory pack
Degrees of protection (EN 60529)	IP 55 towards the enclosure
Approvals	cURus EAC

ARTICLE NO.	PWI	PWS
6302, 400/460 V	12893309055	12883309055
6502, 400/460 V	12893509055	12883509055

Please find further variants at www.pfannenberg.com or in our main catalogues.

ECOOL AIR/WATER HEAT EXCHANGERS

3000 W



WEBCODE #8039

PRODUCT	PWI 6302 T
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz
Cooling capacity	3000 W
Power consumption	152 170 W
Current consumption	0.58 0.6 A
Ambient temperature	+1 ... +70 °C
Dimension (WxHxD)	485 x 1549 x 142 mm
Weight (net)	24.5 kg
Noise level	54 dB(A) (EN ISO 3741)
Colour	RAL 7035
Design (housing)	galvanised sheet steel

Design (cover)	electrostatically powder coated (200 °C)
Design (heat exchanger)	copper pipe with aluminium fins
Type of connection	spring-type terminal included with plug hose nozzle in accordance with DIN 8542 R 1/2" (13 mm), connection on top
Degrees of protection (EN 60529)	IP 55 towards the enclosure
Approvals	cURus

ARTICLE NO.	230 V
PWI 6302 T	12893301155

Please find further variants at www.pfannenberg.com or in our main catalogues.

5000 W



WEBCODE #8039

PRODUCT	PWI 6502 T	
Rated voltage $\pm 10\%$	AC 50 60 Hz	
	230 V	400 V 2~
Cooling capacity	5000 W	
Power consumption	209 292 W	79 130 W
Current consumption	0.94 1.20 A	0.69 0.80 A
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	485 x 1549 x 186 mm	485 x 1544 x 186 mm
Weight (net)	31.5 kg	36.5 kg
Noise level	54 dB(A) (EN ISO 3741)	
Colour	RAL 7035	
Design (housing)	galvanised sheet steel	

Design (cover)	electrostatically powder coated (200 °C)	
Design (heat exchanger)	copper pipe with aluminium fins	
Type of connection	spring-type terminal included with plug hose nozzle in accordance with DIN 8542 R 1/2" (13 mm), connection on top	
Degrees of protection (EN 60529)	IP 55 towards the enclosure	
Approvals	cURus	

ARTICLE NO.	230 V	400 V
PWI 6502 T	12893501155	12893509155

Please find further variants at www.pfannenberg.com or in our main catalogues.

AIR/WATER HEAT EXCHANGERS

600–950 W



WEBCODE #8120

PRODUCT	PWS 7062	PWS 7102
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	
Cooling capacity	600 W	950 W
Power consumption	68 70 W	82 84 W
Current consumption	0.35 0.38 A	0.35 0.40 A
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	200 x 500 x 100 mm	200 x 500 x 150 mm
Weight (net)	6 kg	7.5 kg
Noise level (EN ISO 3741)	≤ 48 dB(A)	
Colour	RAL 7035	
Design (housing)	galvanised sheet steel	

Design (cover)	electrostatically powder coated (200 °C)	
Design (heat exchanger)	copper pipe with aluminium fins	
Type of connection	spring-type terminal included with plug 13 mm hose nozzle	
Degrees of protection (EN 60529)	IP 55 towards the enclosure	
Approvals	cURus EAC	

ARTICLE NO.	PWS 7062	PWS 7102
IP 55	12050610055	12051010055
IP 65		12051010190

Please find further variants at www.pfannenberg.com or in our main catalogues.

1500–3150 W



WEBCODE #8120

PRODUCT	PWS 7152	PWS 7332
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	
Cooling capacity	1500 W	3150 W
Power consumption	125 182 W	295 385 W
Current consumption	0.55 0.75 A	1.3 1.7 A
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	400 x 950 x 115 mm	400 x 950 x 190 mm
Weight (net)	21 kg	23 kg
Noise level (EN ISO 3741)	53 dB(A)	54 dB(A)
Colour	RAL 7035	
Design (housing)	galvanised sheet steel	

Design (cover)	electrostatically powder coated (200 °C)	
Design (heat exchanger)	copper pipe with aluminium fins	
Type of connection	spring-type terminal included with plug 13 mm hose nozzle connections with G 3/8" internal thread on request	
Degrees of protection (EN 60529)	IP 55 towards the enclosure	
Approvals	cURus EAC	

ARTICLE NO.	PWS 7152	PWS 7332
IP 55	12051510055	12053010055
IP 65	12051510190	12053010190

Please find further variants at www.pfannenberg.com or in our main catalogues.

AIR/WATER HEAT EXCHANGERS

5200 W



WEBCODE #8147

PRODUCT	PWS 7502
Rated voltage ±10 %	230 V AC 50 60 Hz
Cooling capacity	5200 W
Power consumption	295 385 W
Current consumption	1.3 1.7 A
Ambient temperature	+1 ... +70 °C
Dimension (WxHxD)	460 x 1400 x 239 mm
Weight (net)	39 kg
Noise level (EN ISO 3741)	57 dB(A)
Colour	RAL 7035
Design (housing)	galvanised sheet steel

Design (cover)	electrostatically powder coated (200 °C)
Design (heat exchanger)	copper pipe with aluminium fins
Type of connection	spring-type terminal included with plug 13 mm hose nozzle connections with G 3/8" internal thread on request
Degrees of protection (EN 60529)	IP 55 towards the enclosure
Approvals	cURus EAC

ARTICLE NO.	PWS 7502
IP 55	12055010055

Please find further variants at www.pfannenbergl.com or in our main catalogues.

7000 W



WEBCODE #8148

PRODUCT	PWS 7702	
Rated voltage ±10 %	230 V	400 V 3~
Cooling capacity	7000 W	
Power consumption	520 680 W	550 790 W
Current consumption	2.40 3.20 A	0.80 0.95 A
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	460 x 1800 x 310 mm	
Weight (net)	58 kg	
Noise level (EN ISO 3741)	63 dB(A)	
Colour	RAL 7035	
Design (housing)	galvanised sheet steel	

Design (cover)	electrostatically powder coated (200 °C)	
Design (heat exchanger)	copper pipe with aluminium fins	
Type of connection	spring-type terminal included with plug 13 mm hose nozzle connections with G 3/8" internal thread on request	
Degrees of protection (EN 60529)	IP 55 towards the enclosure	
Approvals	cURus EAC	

ARTICLE NO.	230 V	400 V
PWS 7702	12057710055	12057702055

Please find further variants at www.pfannenbergl.com or in our main catalogues.

10000 W



WEBCODE #8149

PRODUCT	PWS 71002	
Rated voltage ±10 %	230 V	400 V 3~
Cooling capacity	10000 W	
Power consumption	820 1200 W	1050 1450 W
Current consumption	3.8 5.2 A	1.9 2.2 A
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	600 x 1800 x 315 mm	
Weight (net)	75 kg	73 kg
Noise level (EN ISO 3741)	66 dB(A)	
Colour	RAL 7035	
Design (housing)	galvanised sheet steel	

Design (cover)	electrostatically powder coated (200 °C)	
Design (heat exchanger)	copper pipe with aluminium fins	
Type of connection	spring-type terminal included with plug 13 mm hose nozzle connections with G 3/8" internal thread on request	
Degrees of protection (EN 60529)	IP 55 towards the enclosure	
Approvals	cURus EAC	

ARTICLE NO.	230 V	400 V
PWS 71002	12057810055	12057802055

Please find further variants at www.pfannenbergl.com or in our main catalogues.

2150–3400 W



WEBCODE #8130

PRODUCT	PWD 5302	PWD 5402
Rated voltage ±10 %	230 V AC 50 60 Hz	
Cooling capacity	2150 W	3400 W
Power consumption	85 100 W	115 165 W
Current consumption	0.4 A	0.84 A
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	600 x 140 x 390 mm	720 x 190 x 465 mm
Weight (net)	21 kg	30 kg
Noise level (EN ISO 3741)	54 dB(A)	64 dB(A)
Colour	RAL 7035	
Design (housing)	galvanised sheet steel	

Design (cover)	electrostatically powder coated (200 °C)	
Design (heat exchanger)	copper pipe with aluminium fins	
Type of connection	3.5 m of cable 3x 0.75 mm ² 13 mm hose nozzle connections with G 3/8" internal thread on request	
Degrees of protection (EN 60529)	IP 54 towards the enclosure	
Approvals	cURus EAC	

ARTICLE NO.	PWD 5302	PWD 5402
230 V	12065310055	12065410055

Please find further variants at www.pfannenbergl.com or in our main catalogues.

AIR/AIR HEAT EXCHANGERS

20–100 W/K



WEBCODE #8131

PRODUCT	PAS 6043	PAS 6133	PAS 6203
Rated voltage ±10 %	230 V AC 50 60 Hz		
Specific cooling capacity	20 W/K	65 W/K	200 W/K
Power consumption	50 56 W	310 420 W	
Current consumption	0.25 0.26 A	1.3 1.8 A	1.3 1.7 A
Ambient temperature	−25 ... +55 °C		
Dimension (WxHxD)	380 x 618 x 212 mm	410 x 937 x 199 mm	485 x 1555 x 252 mm
Weight (net)	15.5 kg	24.9 kg	46.3kg
Noise level (EN ISO 3741)	<61 dB(A)	<70 dB(A)	<69 dB(A)
Colour	RAL 7035		

Design (housing)	galvanised sheet steel
Design (cover)	electrostatically powder coated (200 °C)
Type of connection	spring-type terminal included with plug
Degrees of protection (EN 60529)	IP 54 towards the enclosure

ARTICLE NO.	230 V
PAS 6043	12981111055
PAS 6133	12982411055
PAS 6203	12983611055

Please find further variants at www.pfannenber.com or in our main catalogues.

ACTIVE CHILLERS (water)

Rack
1.1–1.7 kW

- Anodised aluminium housing cover.
- Robust industry standard.



WEBCODE #8040

PRODUCT	Rack 1100	Rack 1700
Rated voltage ±10 %	230 V 1~ AC 50 60 Hz	
Cooling capacity W18/A32	1.1 1.4 kW	1.7 2.1 kW
Flow rate	12 l/min	
Ambient temperature	+15 ... +45 °C	
Dimension (WxHxD)	480 x 395 x 450 mm	
Approvals	cUL EAC	

Please find further variants at www.pfannenber.com or in our main catalogues.

PC 2500
2.5 kW

- Ambient temperature up to +50 °C.
- Micro-channel condenser.
- Low content of refrigerant.
- Powerful low-noise pump.



WEBCODE #8118

PRODUCT CHARACTERISTIC	CONFIGURATION					
	BASIC	H	S	HS	SP	HSP
Hydraulic Protection H	—	+	<input checked="" type="checkbox"/>	+	<input checked="" type="checkbox"/>	+
Smart Cooling S	—	—	<input checked="" type="checkbox"/>	+	<input checked="" type="checkbox"/>	+
Precision Cooling P	—	—	<input checked="" type="checkbox"/>	—	<input checked="" type="checkbox"/>	+

PRODUCT	PC 2500
Rated voltage ±10 %	230 V 1~ AC 50 Hz
Cooling capacity W15/A32	2.5 kW
Flow rate	7.5 l/min
Ambient temperature	+10 ... +50 °C
Dimension (WxHxD)	708 x 473 x 654 mm

Please find further variants at www.pfannenber.com or in our main catalogues.

CHILLERS (water)

CCE 1.1–6.5 kW

Compact and efficient, the CCE line offers many features usually found in larger models. CCE chillers are a top choice for integrated motor and/or process cooling required for high-speed machining centres. Due to single phase power requirements they can easily be installed in most commercial and industrial settings.

- Removable side and front panels and a well thought-out inner structure offer a full and quick access to internal components.
- Hydraulic circuit made with non-ferrous components.



WEBCODE #8041

EB 2.0 WT 3.2–16 kW

The EB 2.0 series offers pre-configured units in 7 cooling capacities as well as many options to easily meet a wide range of applications such as tool machines, automotive industry, inspection technologies, packaging industry, laser applications, textile treatment, and many more. The design of these chillers takes into account requirements of high availability as well as possibility of good access for service and inspection.

- Using microchannel heat exchangers for condenser coil design allows more efficient and compact solutions.
- Eco-design and careful selection of the main components according to ErP 2018 ensures maximum efficiency without lowering the performances.



WEBCODE #8042

PRODUCT CHARACTERISTIC	CONFIGURATION					
	BASIC	H	S	HS	SP	HSP
Hydraulic Protection H	—	+	—	+	—	+
Smart Cooling S	—	—	+	+	+	+
Precision Cooling P	—	—	—	—	+	+

PRODUCT	CCE 6101	CCE 6201	CCE 6301
Rated voltage $\pm 10\%$	230 V 1~ AC 50 60 Hz		
Cooling capacity W18/A32	1.1 kW	1.7 kW	2.4 kW
Flow rate	7.5 l/min		
Ambient temperature	+15 ... +45 °C		
Dimension (WxHxD)	600 x 634 x 495 mm		

PRODUCT	CCE 6401	CCE 6501	CCE 6601
Rated voltage $\pm 10\%$	400 V 3~ 460 V 3~ AC 50 60 Hz		
Cooling capacity W18/A32	3.5 kW	5 kW	6.5 kW
Flow rate	17 l/min		
Ambient temperature	+15 ... +45 °C		
Dimension (WxHxD)	600 x 983 x 676 mm		

Please find further variants at www.pfannenber.com or in our main catalogues.

PRODUCT CHARACTERISTIC	CONFIGURATION					
	BASIC	H	S	HS	SP	HSP
Hydraulic Protection H	—	+	—	+	—	+
Smart Cooling S	—	—	+	+	+	+
Precision Cooling P	—	—	—	—	+	+

PRODUCT	EB 32 WT	EB 44 WT	EB 65 WT
Rated voltage $\pm 10\%$	400 V 3~ AC 50 Hz		400 V 3~ 460 V 3~ AC 50 60 Hz
Cooling capacity W18/A32	3.2 kW	4.4 kW	6.5 7.2 kW
Flow rate	8.6 l/min	12.3 l/min	17.2 l/min
Ambient temperature	+15 ... +45 °C		
Dimension (WxHxD)	600 x 1225 x 760 mm		
Approvals	cULus on request EAC		

PRODUCT	EB 80 WT	EB 95 WT	EB 140 WT	EB 160 WT
Rated voltage $\pm 10\%$	400 V 3~ 460 V 3~ AC 50 60 Hz			
Cooling capacity W18/A32	8.0 8.8 kW	9.5 10.6 kW	14 15.4 kW	16 17.6 kW
Flow rate	21.5 l/min	25.8 l/min	37.3 l/min	43 l/min
Ambient temperature	+15 ... +45 °C			
Dimension (WxHxD)	600 x 1225 x 760 mm		855 x 1400 x 800 mm	
Approvals	cULus on request EAC			

Please find further variants at www.pfannenber.com or in our main catalogues.

CHILLERS (water)

EB 2.0 L 21–44 kW

Specifically developed to meet the demanding requirements of today's industrial applications, the EB 2.0 L chillers allow higher cooling capacities in the smallest possible footprint. With a long list of standard features and many available options, Pfannenberg's EB series provides the best choice for cooling of machinery of any kind.

- Possible use in different voltages. E.g. 400 V 50 Hz and 460 V 60 Hz.
- Huge airflow to guarantee operation even at high ambient conditions.



WEBCODE #8043

PRODUCT	EB 210 WT	EB 260 WT
Rated voltage $\pm 10\%$	400 V 3~ 460 V 3~ AC 50 60 Hz	
Cooling capacity W18/A32	21.3 23.,4 kW	25.7 28.5
Flow rate	54 64 l/min	70 84 l/min
Ambient temperature	+15 ... +45 °C	+15 ... +43 °C
Dimension (WxHxD)	1230 x 1410 x 790 mm	
Approvals	cULus EAC	

PRODUCT	EB 310 WT	EB 360 WT	EB 410 WT	EB 440 WT
Rated voltage $\pm 10\%$	400 V 3~ 460 V 3~ AC 50 60 Hz			
Cooling capacity W18/A32	30.6 36.,7 kW	35.6 42.7 kW	40.5 48.5 kW	43.5 52.2 kW
Flow rate	82 98 l/min	90 107 l/min	105 125 l/min	
Ambient temperature	+15 ... +43 °C			
Dimension (WxHxD)	1680 x 1410 x 790 mm			
Approvals	cULus EAC			

Please find further variants at www.pfannenberg.com or in our main catalogues.

EB XT 36–150 kW

Pfannenberg introduced a new product series to extend our portfolio with a new extreme performance range up to 150 kW in cooling capacity. The EB XT consists of nine units in three different housing sizes following our high-level standards in efficiency, compact design and innovation in chiller technology.

- Variable speed control, EC motor technology, further increasing energy savings.
- Using microchannel heat exchangers for condenser coil design allows more efficient and compact solutions.
- Controller system and digital display of temperature, pressure, tank level and status values.



WEBCODE #8044

PRODUCT	EB XT 400 WT	EB XT 500 WT	EB XT 600 WT
Rated voltage $\pm 10\%$	400 V 3~ AC 50 Hz		
Cooling capacity W18/A32	36.5 kW	47.3 kW	58.6 kW
Flow rate	117 l/min	150 l/min	183 l/min
Ambient temperature	+5 ... +50 °C		
Dimension (WxHxD)	830 x 2030 x 1240 mm		

PRODUCT	EB XT 700 WT	EB XT 800 WT	EB XT 900 WT	EB XT 1000 WT
Rated voltage $\pm 10\%$	400 V 3~ AC 50 Hz			
Cooling capacity W18/A32	66.5 kW	74.2 kW	82.1 kW	94.9 kW
Flow rate	200 l/min	233 l/min	267 l/min	300 l/min
Ambient temperature	+5 ... +50 °C			
Dimension (WxHxD)	830 x 2030 x 1840 mm			

PRODUCT	EB XT 1200 WT	EB XT 1600 WT
Rated voltage $\pm 10\%$	400 V 3~ AC 50 Hz	
Cooling capacity W18/A32	115.8 kW	148.8 kW
Flow rate	333 l/min	367 l/min
Ambient temperature	+5 ... +50 °C	
Dimension (WxHxD)	1200 x 2030 x 2665 mm	

Please find further variants at www.pfannenberg.com or in our main catalogues.

PASSIVE COOLING SYSTEMS (water/water)

PWW 9–24 kW

- 3-way valve for primary water regulation.
- Multi stage pump for high flow rates even at high pressure resistance.
- Digital controller with clear error message and easily editable set point.



WEBCODE #8046

PRODUCT	PWW 9.000	PWW 12.000	PWW 18.000	PWW 24.000
Rated voltage ±10 %	230 V 1~ AC 50 60 Hz		400 V 3~ 460 V 3~ AC 50 60 Hz	
Cooling capacity WP15/WS20	9.0 kW	12 kW	18 kW	24 kW
Primary water inlet flow rate	min. 15 l/min	min. 18 l/min	min. 25 l/min	min. 35 l/min
Secondary water outlet flow rate	22 l/min	22 l/min	27 l/min	45 l/min
Ambient temperature	+10 ... +45 °C		+10 ... +50 °C	
Dimension (WxHxD)	580 x 475 x 580 mm			
Approvals	UL on request EAC			

Please find further variants at www.pfannenber.com or in our main catalogues.

ACTIVE CHILLERS (oil)

EB 2.0 OL 3.2–16 kW

Technology flexibility and performance common to all EB series are available also to all the applications in which the cooling liquid is oil or an emulsion with high viscosity, mainly in tool machine industry. Taking into account the typical market requirements, the units are available also without pumps as standard units.

- Using microchannel heat exchangers (MCHX) for condenser coil design allows more efficient and compact solution.
- Highly customisable – many optional features including hot gas bypass, flow switch and aluminium filter.
- Pump as an option – standard versions come without pump (no tank included)..



WEBCODE #8045

PRODUCT		EB 32 OL	EB 2.0 OL EB 44 OL	EB 65 OL
Rated voltage ±10 %	no pump	400 V 3~ AC 50 Hz		400 V 3~ 460 V 3~ AC 50 60 Hz
	with pump	400 V 3~ AC 50 Hz		
Cooling capacity O26/A32		3.2 kW	4.4 kW	6 6.5 kW
Required flow rate		10 l/min	16 l/min	25 l/min
Medium		oil (viscosity 22 cSt to 68 cSt @ +40 °C)		
Ambient temperature		+15 ... +45 °C		
Dimension (WxHxD)		606 x 1254 x 764 mm		
Approvals		UL on request EAC		

PRODUCT		EB 80 OL	EB 2.0 OL EB 95 OL	EB 140 OL	EB 160 OL
Rated voltage ±10 %	no pump	400 V 3~ 460 V 3~ AC 50 60 Hz			
	with pump	400 V 3~ AC 50 Hz			
Cooling capacity O26/A32		8 kW	9.5 kW	14 kW	16 kW
Required flow rate		25 l/min	45 l/min	65 l/min	
Medium		oil (viscosity 22 cSt to 68 cSt @ +40 °C)			
Ambient temperature		+15 ... +45 °C			
Dimension (WxHxD)		606 x 1254 x 764 mm		856 x 1435 x 761 mm	
Approvals		UL on request EAC			

Please find further variants at www.pfannenber.com or in our main catalogues.

RADIANT HEATERS

15–45 W

Radiant heaters

- For the avoidance of excessively low temperatures or excessively high humidity in the control cabinet.



WEBCODE #8048

PRODUCT	FLH 015	FLH 030	FLH 045
Heating performance	15 W	30 W	45 W
Rated voltage	230 V AC 50 60 Hz		
Operating range	110–250 V AC 50 60 Hz		
Max. starting current	1.1 A	1.2 A	1.8 A
Max. surface temperature	65 °C	90 °C	105 °C
Power consumption	15 W	30 W	45 W
Design	aluminium profile, brightly anodised		
Type of connection	connecting terminal		
Type of mounting	35 mm profile bar		

Degrees of protection	IP 20 (EN 60529)
Operating temperature	–40 °C ... +70 °C
Dimension (WxHxD)	70 x 100 x 50 mm
Approvals	cURus EAC

ARTICLE NO.	230 V
FLH 015	17001505007
FLH 030	17003005007
FLH 045	17004505007

Please find further variants at www.pfannenberg.com or in our main catalogues.

60–100 W

Radiant heaters

- For the avoidance of excessively low temperatures or excessively high humidity in the control cabinet.



WEBCODE #8049

PRODUCT	FLH 060	FLH 075	FLH 100
Heating performance	60 W	75 W	100 W
Rated voltage	230 V AC 50 60 Hz		
Operating range	110–250 V AC 50 60 Hz		
Max. starting current	2.5 A	4.5 A	5 A
Max. surface temperature	105 °C	120 °C	130 °C
Power consumption	60 W	75 W	100 W
Design	aluminium profile, brightly anodised		
Type of connection	connecting terminal		
Type of mounting	35 mm profile bar		

Degrees of protection	IP 20 (EN 60529)
Operating temperature	–40 °C ... +70 °C
Dimension (WxHxD)	70 x 175 x 50 mm
Approvals	cURus EAC

ARTICLE NO.	230 V
FLH 060	17006005007
FLH 075	17007505007
FLH 100	17010005007

Please find further variants at www.pfannenberg.com or in our main catalogues.

150 W

Radiant heaters

- For the avoidance of excessively low temperatures or excessively high humidity in the control cabinet.



WEBCODE #8049

PRODUCT	FLH 150
Heating performance	150 W
Rated voltage	230 V AC 50 60 Hz
Operating range	110–250 V AC 50 60 Hz
Max. starting current	7.5 A
Max. surface temperature	150 °C
Power consumption	150 W
Design	aluminium profile, brightly anodised
Type of connection	connecting terminal
Type of mounting	35 mm profile bar
Degrees of protection	IP 20 (EN 60529)

Operating temperature	–40 °C ... +70 °C
Dimension (WxHxD)	70 x 250 x 50 mm
Approvals	cURus EAC

ARTICLE NO.	230 V
FLH 150	17015005007

Please find further variants at www.pfannenberg.com or in our main catalogues.

20–50 W

Surface temperature-limited radiant heaters



WEBCODE #8132

PRODUCT	FLH 020 LST	FLH 030 LST	FLH 050 LST
Heating performance	20 W	30 W	50 W
Rated voltage	230 V AC 50 60 Hz		
Operating range	110–250 V AC 50 60 Hz		
Starting current	1.1 A	1.2 A	2.3 A
Max. surface temperature	55 °C		
Power consumption	10 W	20 W	30 W
Design	aluminium profile, brightly anodised		
Type of connection	connecting terminal		
Type of mounting	35 mm profile bar		

Degrees of protection	IP 20 (EN 60529)		
Operating temperature	–40 °C ... +70 °C		
Dimension (WxHxD)	70 x 132 x 50 mm	70 x 177 x 50 mm	70 x 252 x 50 mm
Approvals	cURus EAC		

ARTICLE NO.	230 V
FLH 020 LST	17000105317
FLH 030 LST	17000205317
FLH 050 LST	17000305317

Please find further variants at www.pfannenberg.com or in our main catalogues.

RADIANT HEATERS

10–30 W

Mini radiant heaters

- Particularly suitable for use in small housings or for the heating of isolated spots in sensitive areas.



WEBCODE #8047

PRODUCT	PRH 010-M	PRH 020-M	PRH 030-M
Heating performance	10 W	20 W	30 W
Rated voltage	230 V AC 50 60 Hz		
Operating range	110–250 V AC 50 60 Hz		
Max. starting current	1 A	1.1 A	1.2 A
Max. surface temperature	95 °C	115 °C	140 °C
Power consumption	10 W	20 W	30 W
Design	aluminium profile, black anodised		
Type of connection	connecting cable (300 mm)		
Type of mounting	35 mm profile bar		

Degrees of protection	IP 54 (EN 60529)
Operating temperature	–40 °C ... +70 °C
Dimension (WxHxD)	29.5 x 45 x 75 mm
Approvals	cURus EAC

ARTICLE NO.	230 V
PRH 010-M	17000105317
PRH 020-M	17000205317
PRH 030-M	17000305317

Please find further variants at www.pfannenber.com or in our main catalogues.

FAN HEATERS

250–400 W

Fan heaters

- Ideal for use in larger electrical enclosures.
- Integrated fan for fast and even distribution of the heat.



WEBCODE #8050

PRODUCT	FLH 250	FLH 400
Heating performance	250 W	400 W
Rated voltage	230 V AC 50 60 Hz	
Operating range	207–258 V AC 50 60 Hz	
Volumetric airflow	50 61 m ³ /h	
Max. starting current	1.1 A	1.8 A
Max. surface temperature	70 °C	85 °C
Power consumption	260 W	410 W
Design	aluminium profile, brightly anodised	
Type of connection	connecting terminal	
Type of mounting	35 mm profile bar	

Degrees of protection	IP 20 (EN 60529)	
Operating temperature	–40 °C ... +70 °C	
Dimension (WxHxD)	FLH 250	85 x 186.5 x 104 mm
	FLH 400	85 x 226.5 x 104 mm
Approvals	cURus EAC	

ARTICLE NO.	230 V
FLH 250	17025010007
FLH 400	17040010007

Please find further variants at www.pfannenber.com or in our main catalogues.

250 W

Fan heaters

- The heaters compact design make it ideal for use in enclosures where space is at a premium.



WEBCODE #8053

PRODUCT	FLH 250 SL
Heating performance	250 W
Rated voltage	230 V AC 50 60 Hz
Operating range	207–258 V AC 50 60 Hz
Volumetric airflow	160 m ³ /h
Max. starting current	2.4 A
Surface temperature	max. 70 °C
Power consumption	269 W
Design	galvanised sheet steel
Type of connection	connecting terminal

Type of mounting	M6 screw fastening
Degrees of protection	IP 20 (EN 60529)
Operating temperature	–40 °C ... +70 °C
Dimension (WxHxD)	126 x 170.5 x 105 mm
Approvals	cURus

ARTICLE NO.	230 V
FLH 250 SL	17025110007

Please find further variants at www.pfannenber.com or in our main catalogues.

250–400 W

Vibration resistant fan heaters

- Developed for demanding environments, especially wind turbines and railway applications.



WEBCODE #8054

PRODUCT	FLH-T 250	FLH-T 400
Heating performance	400 W	1000 W
Rated voltage	230 V AC 50 60 Hz	
Operating range	207–258 V AC 50 60 Hz	
Volumetric airflow	160 180 m ³ /h	
Max. starting current	0.7 A	2.6 A
Power consumption	300 W	450 W
Design	plastic UL 94V-0, black	
Type of connection	2-pole terminal strip	
Type of mounting	4x M5 screws (not included)	

Degrees of protection	IP 20 (EN 60529)
Operating temperature	–40 °C ... +70 °C
Dimension (WxHxD)	150 x 100 x 164 mm
Approvals	EAC

ARTICLE NO.	230 V
FLH-T 250	17025310007
FLH-T 400	17040310007

Please find further variants at www.pfannenber.com or in our main catalogues.

FAN HEATERS

400–1000 W

Vibration resistant fan heaters

- Developed for demanding environments, especially wind turbines and railway applications.



WEBCODE #8054

PRODUCT	FLH-T 600	FLH-T 800	FLH-T 1000
Heating performance	600 W	800 W	1000 W
Rated voltage	230 V AC 50 60 Hz		
Operating range	207–258 V AC 50 60 Hz		
Volumetric airflow	160 180 m ³ /h		
Max. starting current	3.4 A	4.3 A	5.2 A
Power consumption	650 W	850 W	1050 W
Design	plastic UL 94V-0, black		
Type of connection	2-pole terminal strip		
Type of mounting	4x M5 screws (not included)		

Degrees of protection	IP 20 (EN 60529)
Operating temperature	–40 °C ... +70 °C
Dimension (WxHxD)	150 x 100 x 164 mm
Approvals	EAC

ARTICLE NO.	230 V
FLH-T 600	17060310007
FLH-T 800	17080310007
FLH-T 1000	17099310007

Please find further variants at www.pfannenberg.com or in our main catalogues.

200–500 W

Compact fan heaters

- Fast heating due to PTC technology.
- Low surface temperature.
- Ultra compact.



WEBCODE #8051

PRODUCT	PFH 200	PFH 300	PFH 400	PFH 500
	PFH-T 200	PFH-T 300	PFH-T 400	PFH-T 500
Heating performance	200 W	300 W	400 W	500 W
Rated voltage	230 V AC 50 60 Hz			
Operating range	207–258 V AC 50 60 Hz			
Volumetric airflow	50 m ³ /h			
Max. starting current	9 A	12 A	15 A	20 A
Surface temperature	max. 55 °C			
Power consumption	215 W	315 W	415 W	545 W
Design	plastic UL 94V-0, black			
Type of connection	connecting terminal			
Type of mounting	4x M5 screws (not included) 35 mm profile bar			

Degrees of protection	IP 20 (EN 60529)	
Operating temperature	–40 °C ... +70 °C	
Dimension (WxHxD)	PFH	88 x 142 x 126 mm
	PFH-T	88 x 142 x 139 mm
Approvals	cURus EAC	

ARTICLE NO.	PFH ohne Thermostat	PFH-T mit Thermostat
200 W	17020610030	17020710034
300 W	17030610030	17030710034
400 W	17040610030	17040710034
500 W	17050610030	17050710034

Please find further variants at www.pfannenberg.com or in our main catalogues.

650–1200 W

Compact fan heaters

- Fast heating due to PTC technology.
- Low surface temperature.
- Ultra compact.



WEBCODE #8052

PRODUCT	PFH 600	PFH 800	PFH 1000	PFH 1200
	PFH-T 650	PFH-T 800	PFH-T 1000	PFH-T 1200
Heating performance	650 W	800 W	1000 W	1200 W
Rated voltage	230 V AC 50 60 Hz			
Operating range	207–258 V AC 50 60 Hz			
Volumetric airflow	50 m ³ /h			
Max. starting current	25 A	31 A	25 A	31 A
Surface temperature	max. 70 °C			
Power consumption	665 W	815 W	1015 W	1215 W
Design	plastic UL 94V-0, black			
Type of connection	connecting terminal			
Type of mounting	4x M5 screws (not included) 35 mm profile bar			

Degrees of protection	IP 20 (EN 60529)	
Operating temperature	–40 °C ... +70 °C	
Dimension (WxHxD)	PFH	88 x 142 x 126 mm
	PFH-T	88 x 142 x 139 mm
Approvals	cURus EAC	

ARTICLE NO.	PFH ohne Thermostat	PFH-T mit Thermostat
650 W	17065610030	17065710034
800 W	17080610030	17080710034
1000 W	17099610030	17099710034
1200 W	17099910030	17099810034

Please find further variants at www.pfannenberg.com or in our main catalogues.

THERMOSTATS

FLZ 510

Thermostat; changeover with spring contact.



WEBCODE #8055

PRODUCT	FLZ 510	
Switching temperature difference	1 K	3 K
Type of contact	changeover with spring contact	
Switching point tolerance	±3 K	
Max. switching power	N.C.	100–250 V AC / 10 A
	N.O.	100–250 V AC / 5 A
Degrees of protection	IP 20 (EN 60529)	
Type of connection	screw terminal	
Type of mounting	35 mm profile bar	

Operating temperature	–40 °C ... +80 °C	
Colour	RAL 7035	
Dimension (WxHxD)	37 x 59.5 x 47.5 mm	
Approvals	cURus EAC	

ARTICLE NO.	1 K	3 K
–20 °C ... +40 °C	17103000003	17105000003
0 °C ... +60 °C	17103000000	17105000000
+20 °C ... +80 °C	17103000004	17105000004

Please find further variants at www.pfannenber.com or in our main catalogues.

FLZ 520 | FLZ 530

Thermostats; N.C. | N.O.



WEBCODE #8056

PRODUCT	FLZ 520	FLZ 530
Switching temperature difference	<7 K	<7 K
Type of contact	N.C. with spring contact	N.O. with spring contact
Switching point tolerance	±4 K	
Max. switching power	240 V AC / 10 A 120 V AC / 15 A	
Type of connection	screw terminal	
Type of mounting	35 mm profile bar	
Degrees of protection	IP 20 (EN 60529)	

Operating temperature	–20 °C ... +80 °C	
Colour	RAL 7035	
Dimension (WxHxD)	40 x 72 x 36 mm	
Approvals	cURus CSA EAC	

ARTICLE NO.	FLZ 520	FLZ 530
–20 °C ... +40 °C	17111000003	17121000003
0 °C ... +60 °C	17111000000	17121000000
+20 °C ... +80 °C	17111000004	17121000004

Please find further variants at www.pfannenber.com or in our main catalogues.

FLZ 541 – FLZ 543

Twin thermostats; N.C./N.O. | N.C./N.C. | N.O./N.O.



WEBCODE #8057

PRODUCT	FLZ 541	FLZ 542	FLZ 543
Switching temperature difference	<7 K		
Type of contact	N.C./N.O.	N.C./N.C.	N.O./N.O.
	with spring contact		
Switching point tolerance	±4 K		
Max. switching power	240 V AC / 10 A 120 V AC / 15 A		
Type of connection	screw terminal		
Type of mounting	35 mm profile bar		
Degrees of protection	IP 20 (EN 60529)		

Operating temperature	–20 °C ... +80 °C	
Colour	RAL 7035	
Dimension (WxHxD)	59 x 80.5 x 38 mm	
Approvals	cURus EAC	

ARTICLE NO.	0 °C ... +60 °C
FLZ 541	17141000000
FLZ 542	17142000000
FLZ 543	17143000000

Please find further variants at www.pfannenber.com or in our main catalogues.

HYGROSTATS

FLZ 600 | FLZ 610

For controlling enclosure heaters or filterfans when the set relative air humidity is exceeded.



WEBCODE #8058

PRODUCT	FLZ 600	FLZ 610
Device implementation	mechanical hygrostat	electronic hygrostat-thermostat combination device
Type of contact	changeover with spring contact	changeover/relay
Setting range	40–90 % R.H.	0 ... +60 °C 40–90 % R.H.
Switching difference	approx. 5 %	approx. 2 K ±1 K approx. 4 % R.H. ±1 %
Max. switching power	N.C.	24–250 V AC / 2 A
	N.O.	24–250 V AC / 5 A
Operating temperature	0 ... +60 °C	–20 °C ... +60 °C

Type of connection	screw terminal	
Type of mounting	35 mm profile bar	
Degrees of protection	IP 30 (EN 60529)	IP 20 (EN 60529)
Colour	RAL 7035	
Dimension (WxHxD)	37 x 60 x 47 mm	59 x 80.5 x 38 mm
Approvals	cURus EAC	

ARTICLE NO.	FLZ 600	FLZ 610
	17207000000	17218100000

Please find further variants at www.pfannenber.com or in our main catalogues.

SIGNALING TECHNOLOGY:

Signaling devices for all industrial areas and applications.



PFANNENBERG – YOUR COMPETENT PARTNER FOR VISUAL AND AUDIBLE INDICATION, WARNING AND ALARM SIGNALS.

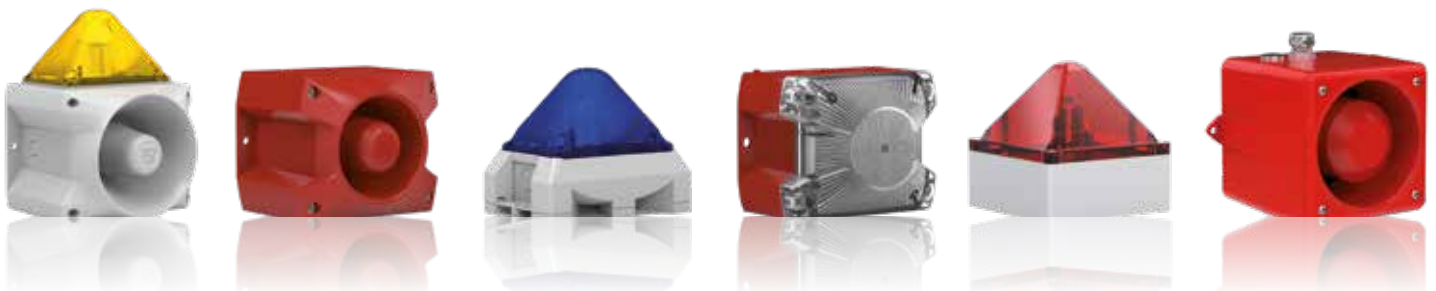


An extended warranty for signaling devices worldwide.

Customer service and “service friendliness” are top priority for us: That’s why, with immediate effect, we provide a 10 year warranty on flashing lights, sounders and flashing sounders from the PATROL, PYRA®, DS and Quadro series. And by introducing the “Easy Replacement Process”, we have made it possible for our customers to exchange defective devices even more easily and quickly.

With our new series of flashing lights, PYRA M, Pfannenberg is responding to the increased demand for more process reliability in the field of mechanical engineering and construction. The pyramid-shaped flashing light, which is also available as a combination device with an integrated sounder, guarantees the largest possible signaling range thanks to efficient Xenon technology.

Certified according to EN 54-23, the new EU standard in the fire alarm sector, the flashing lights are consistent with the Pfannenberg company motto: “Protecting man, machine and the environment”.



PFANNENBERG 3D-COVERAGE:

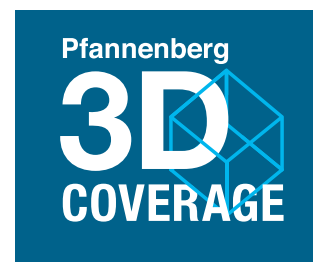
A visual representation of device performance in any space.



A holistic approach to alarm notification planning. Pfannenberg presents 3D-Coverage, a method for determining the actual effective coverage area for audible and visual signaling devices. Now planners can gain confidence in knowing whether signals can be perceived in relation to different environmental conditions and requirements.

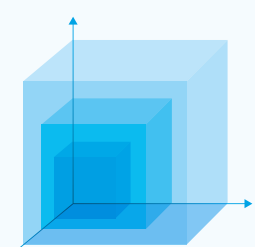
The benefits 3D-Coverage planning method.

- Clear information about the coverage volume.
- The ideal solution for safety signaling.
- Confidence in design, costing, and acceptance.
- Prevents incorrect sizing.
- Getting it right the first time.
- Protecting man, machine and the environment.



3D-Coverage in the catalogue and on pfannenberg.com.

The main catalogue and the Pfannenberg homepage contain the guaranteed coverage volume of each signaling device under different environmental situations. An example can be found here:



PA X 20-15		
AUDIBLE	80 dB(A)	85.6 x 97.7 x 85.6 m
	85 dB(A)	48.1 x 55 x 48.1 m
	90 dB(A)	27.1 x 30.9 x 27.1 m
VISUAL	Indicate	84.6 x 74.7 x 144.5 m
	Warn	37.6 x 33.2 x 64.2 m
	Alarm	18.8 x 16.6 x 32.1 m

Coverage area with DIN tone and required sound levels of 80, 85 and 90 dB(A) and also to be used for the applications „Indicate“, „Warn“ and „Alarm“ (EN 54-23) with clear lens. To determine the exact signaling area for your needs, please use the online available Pfannenberg Sizing Software PSS.

PSS – the perfect planning aid.

For the 3D-Coverage planning with individual values, Pfannenberg Sizing Software (PSS) is a user-friendly online tool which provides an instant, informed recommendation for the optimum signaling devices and their positioning. It enables you to avoid expensive over-specification and risky under-specification at the planning stage or when reviewing the configuration.

PSS is available online at www.pfannenberg.com/pss free of charge.

PYRA® FLASHING LIGHTS

5 J

- The small flashing light is adaptable to many applications and is also impressive due to its safe and simple mounting.
- Suitable for panel mounting.



WEBCODE #8059

PRODUCT	PY X-S-05	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	184–253 V	18–30 V
Max. viewing distance	164 m	
Light source	xenon flash tube	
Light intensity	5 J, 50 cd (DIN 5037)	
Flash rate	1 Hz = 60 flashes/min	
Lens colour		
Housing colour	● RAL 3000 ● RAL 7035	
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)	
Service life	light emission still 70 % after 8,000,000 flashes	
Operating temperature	–40 °C ... +55 °C	
Dimension (WxHxD)	109.5 x 85 x 80.6 mm	

Warranty	10 years	
Approvals	UL EAC option: GL CNBOP EN 54-23 (24 V) VdS (24 V)	
ARTICLE NO.	● housing	● housing
230 V	21510101000	21510101055
230 V	21510103000	21510103055
230 V	21510104000	21510104055
230 V	21510105000	21510105055
24 V	21510801000	21510801055
24 V	21510803000	21510803055
24 V	21510804000	21510804055
24 V	21510805000	21510805055

Please find further variants at www.pfannenberg.com or in our main catalogues.

10 J

- Providing full synchronisation on multi-flashing light systems.
- 5 Joule version available.



reddot award 2015 winner



WEBCODE #8061

PRODUCT	PY X-M-10	
Rated voltage	230 V AC	24 V DC
Operating range	187–255 V	10–57 V
Max. viewing distance	283 m	
Light source	xenon flash tube	
Light intensity	10 J, 149 cd (DIN 5037)	
Flash rate	0.1 0.5 0.75 1 Hz (DIP switch)	
Lens colour		
Housing colour	● RAL 3000 ● RAL 7035	
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)	
Service life	light emission still 70 % after 8,000,000 flashes	
Operating temperature	–40 °C ... +55 °C	
Dimension (WxHxD)	166 x 124 x 114 mm	

Warranty	10 years	
Approvals	EN 54-23 (SSM version, 24 V) VdS (SSM version, 24 V) UL EAC	
ARTICLE NO.	● housing	● housing
230 V	21551103000	21551103055
230 V	21551104000	21551104055
230 V	21551105000	21551105055
SSM 24 V	21551801005	–
24 V	21551813000	21551813055
24 V	21551814000	21551814055
24 V	21551815000	21551815055
SSM 24 V	21551805005	–

Please find further variants at www.pfannenberg.com or in our main catalogues.

15 J

- Inrush current regulator (DC version) provides electrical protection for control devices such as switching components and relays.
- Redundant electrical contacts provides ease of wiring and daisy-chain connection.



WEBCODE #8103

PRODUCT	PY X-L-15	PY X-L-15-CPR	
Rated voltage	230 V AC	24 V DC	24 V DC
Operating range	187–255 V	19.2–28.8 V	19.2–28.8 V
Max. viewing distance	320 m		
Light source	xenon flash tube		
Light intensity	15 J, 190 cd (DIN 5037)		
Flash rate	0.1 0.5 0.75 1 Hz (DIP switch)		
Lens colour			
Housing colour	● RAL 3000 ● RAL 7035		
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)		
Service life	light emission still 70 % after 8,000,000 flashes		
Operating temperature	–40 °C ... +55 °C		
Dimension (WxHxD)	212 x 157 x 144 mm		

Warranty	10 years	
Approvals	UL EAC CPR version: EAC EN 54-23 VdS	
ARTICLE NO.	● housing	● housing
230 V	21561103000	21561103055
230 V	21561104000	21561104055
230 V	21561105000	21561105055
CPR 24 V	21561801020	on request
CPR 24 V	21561805020	on request
24 V	21561103000	21561803055
24 V	21561804000	21561804055
24 V	21561805000	21561805055

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

FLASHING LIGHTS

5 J

- Sturdy metal housing.



WEBCODE #8062

PRODUCT	WBL	WBS
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	185–255 V	18–35 V
Max. viewing distance	181 m	
Light source	xenon flash tube	
Light intensity	5 J, 61 cd (DIN 5037)	
Flash rate	1 Hz = 60 flashes/min	
Lens colour		
Operating temperature	light emission still 70 % after 8,000,000 flashes	

Degrees of protection	IP 54 (EN 60529)
Operating temperature	–40 °C ... +55 °C
Dimension (WxH)	Ø 54 x 200 mm
Approvals	EAC option: GL

ARTICLE NO.	WBL 230 V AC	WBS 24 V DC
	21003103000	21003803000
	21003104000	21003804000
	21003105000	21003805000

Please find further variants at www.pfannenberg.com or in our main catalogues.

15 J

- Extremely bright and highly visible flashing light.



WEBCODE #8063

PRODUCT	ABL	ABS
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	185–255 V	18–30 V
Max. viewing distance	348 m	
Light source	xenon flash tube	
Flash energy	15 J	
Light intensity	226 cd (DIN 5037)	
Flash rate	1 Hz = 60 flashes/min	
Lens colour		
Degrees of protection	IP 54 (EN 60529)	

Service life	light emission still 70 % after 8,000,000 flashes
Operating temperature	–40 °C ... +55 °C
Dimension (WxH)	Ø 80 x 242 mm
Approvals	EAC option: GL

ARTICLE NO.	ABL 230 V AC	ABS 24 V DC
	21001103000	21001803000
	21001104000	21001804000
	21001105000	21001805000

Please find further variants at www.pfannenberg.com or in our main catalogues.

7 J

- Powerful 360° omnidirectional signaling for large distances (indoor and outdoor).



WEBCODE #8064

PRODUCT	PMF 2015	
	direct mounting	bracket mounting
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	195–253 V	18–30 V
Operating mode	quad, double flash	
Max. viewing distance	366 m	
Light source	xenon flash tube	
Light intensity	7 J, 250 cd (DIN 5037)	
Flash rate	1 Hz = 60 flashes/min	
Lens colour		
Degrees of protection	IP 55 (EN 60529)	
Operating temperature	–40 °C ... +55 °C	

Service life	light emission still 70 % after 8,000,000 flashes	
Dimension (WxH)	direct	Ø 177 x 185 mm
	bracket	Ø 130 x 170.5 mm
Approvals	EAC	

ARTICLE NO.	direct mounting	bracket mounting
230 V	21010104000	21010104010
230 V	21010105000	21010105010
24 V	21010804000	21010804010
24 V	21010805000	21010805010

Please find further variants at www.pfannenberg.com or in our main catalogues.

30 J

- Very good perceptibility over great distances; low power consumption.



WEBCODE #8065

PRODUCT	PMF 2030	
	direct mounting	bracket mounting
Rated voltage	230 V AC 50 60 Hz	
Operating range	195–253 V	
Max. viewing distance	898 m	
Light source	xenon flash tube	
Light intensity	max. 30 J switchable to 20 J, 1.500 cd (DIN 5037)	
Flash rate	1 Hz = 60 flashes/min	
Lens colour		
Degrees of protection	IP 55 (EN 60529)	

Operating temperature	–40 °C ... +55 °C	
Service life	light emission still 70 % after 8,000,000 flashes	
Dimension (WxH)	Ø 177 x 185 mm	Ø 130 x 170.5 mm
	EAC	

ARTICLE NO.	direct mounting	bracket mounting
	21010104000	21010104010
	21010105000	21010105010

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

FLASHING LIGHTS

13 J

- Redundant electrical contacts provides ease of wiring and daisychain connection for multi-unit installations.



WEBCODE #8066

PRODUCT	Quadro F12	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	195–253 V	18–30 V
Max. viewing distance	374 m	
Light source	xenon flash tube	
Light intensity	13 J, 260 cd (DIN 5037)	
Flash rate	1 Hz = 60 flashes/min	
Lens colour	/ ● ● ● ● ● ● ● ●	
Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)	
Operating temperature	–40 °C ... +55 °C	

Service life	light emission still 70 % after 12,000,000 flashes	
Dimension (WxHxD)	130 x 130 x 130 mm	
Warranty	10 years	
Approvals	EAC	

ARTICLE NO.	230 V AC	24 V DC
●	21041103000	21041803000
●	21041104000	21041804000
●	21041105000	21041805000

Please find further variants at www.pfannenberg.com or in our main catalogues.

LED TRAFFIC LIGHTS

60 cd

- Simple to combine for horizontal or vertical configuration.



WEBCODE #8067

PRODUCT	P 450 TLA	
Rated voltage	115 / 230 V AC	12 / 24 V DC
Operating range	90–253 V	10–30 V
Max. viewing distance	180 m	
Light source	high output LED array	
Light intensity	60 cd (DIN 5037)	
Lens colour	/	
Degrees of protection	IP 65 (EN 60529)	
Operating temperature	–25 °C ... +50 °C	

Service life	>50,000 hrs @ 20 °C	
Dimension (WxHxD)	166.2 x Ø 140 mm	
Approvals	EAC	

ARTICLE NO.	115 / 230 V AC	12 / 24 V DC
●	21355645000	21355635000
●	21355646000	21355636000

Please find further variants at www.pfannenberg.com or in our main catalogues.

75 cd

- Face-on LEDs provide far-reaching signals for traffic control and machinery feedback applications.



WEBCODE #8068

PRODUCT	Quadro LED-TL	
Rated voltage	115 / 230 V AC	24 V DC
Operating range	90–253 V	11–60 V
Operating mode (adjustable)	continuous light blinking light flashing light	
Max. viewing distance	201 m	
Light source	4 high performance LEDs each	
Light intensity	>75 cd, reducible	
Lens colour	● ● ●	

Degrees of protection	IP 65 (EN 60529) IK08 (EN 50102)	
Operating temperature	–40 °C ... +55 °C	
Service life	>50,000 hrs @ 20 °C	
Dimension (WxHxD)	396 x 130 x 130 mm	

ARTICLE NO.	115 / 230 V AC	24 V DC
● / ● / ●	21106640008	21106630008

Please find further variants at www.pfannenberg.com or in our main catalogues.

LED LIGHTS

5 cd

- LED light source for extremely long service life.
- Vibration/shock-resistant.



WEBCODE #8069

PRODUCT	PD 2100-LED	
Rated voltage	230 V AC 50 60 Hz	24 V AC/DC
Operating range	±10 %	AC: 18–30 V DC: 19–30 V
Max. viewing distance	52 m	
Light source	LED	
Light intensity	5 cd (DIN 5037)	
Lens colour	/ ● ● ● ● ● ● ● ●	
Degrees of protection	IP 55 (EN 60529)	

Operating temperature	–25 °C ... +55 °C	
Service life	>50,000 hrs @ 20 °C	
Dimension (WxHxD)	166.2 x 128 x 111.2 mm	
Approvals	EAC	

ARTICLE NO.	230 V AC	24 V AC/DC
●	21120615000	21120605000

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

LED LIGHTS

27 cd

- LED technology – multi-function capability.



WEBCODE #8133

PRODUCT	PMF-LED Flex	
	direct mounting	bracket mounting
Operating range	AC 50 60 Hz	DC
	95–253 V	100–350 V
Max. viewing distance	120 m	
Light source	8x 2 LED (3 chip version)	
Light intensity	27 cd (DIN 5037)	
Operating mode	continuous light blinking light (1.5 Hz) flashing light (1 Hz) rotating allround light (2.5 Hz)	
Lens colour	/ / / / / / /	
Degrees of protection	IP 55 (EN 60529)	

Operating temperature	–30 °C ... +55 °C	
Service life	>50,000 hrs	
Dimension (WxH)	Ø 177 x 185 mm	Ø 130 x 170.5 mm
Approvals	EAC	

ARTICLE NO.	direct mounting	bracket mounting
	21151644006	21151644007
	21151645006	21151645007

Please find further variants at www.pfannenberg.com or in our main catalogues.

75 cd

- Operating mode internally and externally selectable (DC).



WEBCODE #8119

PRODUCT	ABL LED-HI	ABS LED-HI
Rated voltage	115/230 V AC/DC	24 V DC
Operating range	90–253 V	11–60 V DC
Max. viewing distance	201 m	
Light source	LED	
Operating mode	continuous light blinking light (1 Hz 2 Hz) flashing light (0.1 Hz 0.5 Hz 0.75 Hz 1 Hz 2 Hz)	
Light intensity	75 cd, reduzierbar (DIN 5037)	
Lens colour	/ / / / / / /	
Degrees of protection	IP 54 (EN 60529)	

Operating temperature	–40 °C ... +55 °C	
Service life	≥50,000 hrs	
Dimension (WxH)	Ø 80 x 242 mm	
Warranty	10 years	

ARTICLE NO.	115/230 V AC/DC	24 V DC
	21118643000	21118633000
	21118644000	21118634000
	21118645000	21118635000

Please find further variants at www.pfannenberg.com or in our main catalogues.

75 cd

- For recognition over long distances.
- 3 selectable operating modes (internally and externally selectable).



WEBCODE #8070

PRODUCT	Quadro-LED-HI	
Rated voltage	230 V AC/DC	24 V DC
Operating range	90–253 V	11–60 V
Max. viewing distance	201 m	
Light source	4 high performance LEDs	
Operating mode	continuous light blinking light (1 Hz 2 Hz) flashing light (0.1 Hz 0.5 Hz 1 Hz 2 Hz)	
Light intensity	75 cd, reducible (DIN 5037)	
Lens colour	/ / / / / / /	
Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)	

Operating temperature	–40 °C ... +55 °C	
Service life	≥50,000 hrs @ 20 °C	
Dimension (WxHxD)	130 x 130 x 130 mm	
Warranty	10 years	

ARTICLE NO.	230 V AC	24 V DC
	21108643000	21108633000
	21108644000	21108634000
	21108645000	21108635000

Please find further variants at www.pfannenberg.com or in our main catalogues.

315 cd

- Automatic brightness adjustment to ambient light can be activated.



WEBCODE #8134

PRODUCT	PMF LED-HI	
	direct mounting	bracket mounting
Operating range	10–30 V DC	
Max. viewing distance	411 m	
Light source	8x 2 high performance LEDs	
Light intensity	315 cd, automatically reducible (day/night operation) (DIN 5037)	
Operating mode	blinking light (1.5 Hz) flashing light (1 Hz) rotating allround light (2.5 Hz)	
Lens colour	/ / / / / / /	
Degrees of protection	IP 55 (EN 60529)	

Operating temperature	–40 °C ... +55 °C	
Service life	>50,000 hrs	
Dimension (WxH)	Ø 177 x 185 mm	Ø 130 x 170.5 mm
Approvals	EAC	

ARTICLE NO.	direct mounting	bracket mounting
	21155634006	21155634007
	21155635006	21155635007

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

FUNCTION-MONITORED LIGHTS

5 cd

- Control and function monitoring directly via AS-I field bus.
- Low current consumption.



WEBCODE #8074

PRODUCT	PD 2100-M-AS-i
Rated voltage	28 V (AS-i)
Operating range	26.5–32.6 V
Max. viewing distance	52 m
Light source	LED
Light intensity	5 cd (DIN 5037)
Lens colour	
AS-i specification	AS-i 2.1, A/B capable EN 50295

Degrees of protection	IP 55 (EN 60529)
Operating temperature	–25 °C ... +45 °C
Service life	>50,000 hrs
Dimension (WxHxD)	166.2 x 128 x 111.2 mm
Approvals	EAC

ARTICLE NO.	26.5–32.6 V
	21120505004

Please find further variants at www.pfannenberg.com or in our main catalogues.

5 J

- Integrated flash monitoring and fault message contact.



WEBCODE #8071

PRODUCT	WBL-M
Rated voltage	230 V AC
Operating range	185–242 V
Max. viewing distance	181 m
Light source	xenon flash tube
Light intensity	5 J, 61 cd (DIN 5037)
Flash rate	1 Hz = 60 flashes/min
Lens colour	
Degrees of protection	IP 54 (EN 60529)

Operating temperature	–20 °C ... +55 °C
Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxH)	Ø 80 x 242 mm
Approvals	GL EAC

ARTICLE NO.	230 V AC
	21003103156
	21003105156

Please find further variants at www.pfannenberg.com or in our main catalogues.

7 J

- Internally monitored via an optical sensor and evaluation circuitry.



WEBCODE #8072

PRODUCT	PMF 2015-M
Rated voltage	24 V DC
Operating range	18–30 V
Operating mode	double flash
Max. viewing distance	366 m
Light source	xenon flash tube
Light intensity	7 J, 250 cd (DIN 5037)
Flash rate	1 Hz = 60 flashes/min
Lens colour	

Degrees of protection	IP 55 (EN 60529)
Operating temperature	–30 °C ... +55 °C
Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxH)	Ø 130 x 170.5 mm
Approvals	EAC

ARTICLE NO.	bracket mounting
24 V	21007804012
24 V	21007805012

Please find further variants at www.pfannenberg.com or in our main catalogues.

13 J

- Synchronised flashing of up to 10 beacons in series with no additional controller.
- Integrated function monitoring with fault message contact.



WEBCODE #8073

PRODUCT	Quadro S-M-Flex
Rated voltage	230 V AC 50 60 Hz
Operating range	195–253 V
Max. viewing distance	374 m
Light source	xenon flash tube
Light intensity	13 J, 260 cd (DIN 5037)
Flash rate	adjustable (1 Hz = 60 flashes/min factory setting)
Lens colour	
Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)

Operating temperature	–25 °C ... +55 °C
Service life	light emission still 70 % after 12,000,000 flashes
Dimension (WxHxD)	130 x 130 x 130 mm
Warranty	10 years
Approvals	EAC

ARTICLE NO.	230 V AC
	21042101179
	21042104179
	21042105179

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

OBSTACLE LIGHTS

- LED obstacle lights, AVW-approved, compliant to ICAO, Annex 14, Volume 1, Chapter 6.
- Omnidirectional LED array. Light radiation of 360° offers superb marking of aviation obstructions for night time and twilight safety.
- Integrated functional fault monitoring with dry contact relay permits automatic switchover to backup lighting.
- POL 10-M-RA: Automatic switching over to standby light in case of error or by means of external control system.

LED – 32 cd

- ICAO.
- Low Intensity, type B.



WEBCODE #8075

PRODUCT	POL 32-M	
Rated voltage	115 / 230 V AC	12 / 24 V DC
Operating range	85–265 V	9.6–28.8 V
Operating mode	continuous light	
Version	monitored	
Beam angle	vertical approx. ±35° horizontal 360°	
Light source	LED array (red)	
Light intensity	32 cd (DIN 5037)	
Lens colour	/	

Light colour	aviation red
Degrees of protection	IP 68 (EN 60529)
Operating temperature	–40 °C ... +55 °C
Service life	>50,000 hrs
Dimension (HxW)	240 x Ø 118 mm
Approvals	ICAO

ARTICLE NO.	115 / 230 V AC	12 / 24 V DC
	21105685005	21105675005

Please find further variants at www.pfannenberg.com or in our main catalogues.

LED – 18 cd

- AVW | ICAO.
- Low Intensity, type A.



WEBCODE #8076

PRODUCT	POL 10-M-RA	
Rated voltage	115 / 230 V AC	12 / 24 V DC
Operating range	85–265 V	9.6–28.8 V
Operating mode	continuous light	
Version	monitored redundant	
Beam angle	vertical approx. ±35° horizontal 360°	
Light source	LED array (red)	
Light intensity	18 cd (DIN 5037)	
Lens colour	/	

Light colour	aviation red
Degrees of protection	IP 68 (EN 60529)
Operating temperature	–40 °C ... +55 °C
Service life	>50,000 hrs
Dimension (HxW)	240 x Ø 118 mm
Approvals	ICAO AVV

ARTICLE NO.	115 / 230 V AC	12 / 24 V DC
	21105645010	21105635010

Please find further variants at www.pfannenberg.com or in our main catalogues.

SAFETY-RELATED LIGHTS



Since 1st June 2015, the European Directive, Seveso III, has been implemented as national law. In Germany, this occurs with the Amendment to the Hazardous Incident Ordinance (12 BImSchV). Official, government inspections and monitoring will have even more influence in the new Hazardous Incident Ordinance. Basic obligations are to take precautions to prevent hazardous incidents and the possible consequences thereof. This includes equipping the operating area with sufficient warning, alerting and safety facilities.

- Devices be implemented in Safety Instrumented Systems (SIS) up to SIL 2/PLd.

10 J

- To signal dangerous situations in safety-relevant application such as process and plant safety.



WEBCODE #8091

PRODUCT	Quadro F12-SIL	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	195–253 V	18–30 V
Max. viewing distance	348 m	
Light source	xenon flash tube	
Light intensity	10 J, 225 cd (DIN 5037)	
Flash rate	1 Hz = 60 flashes/min	
Lens colour	/ ● ● ● ● ● ● ● ●	
Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)	
Operating temperature	–30 °C ... +55 °C	

Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	130 x 130 x 130 mm
Warranty	10 years
Approvals	EAC

ARTICLE NO.	230 V AC	24 V DC
	21041103601	21041803601
	21041104601	21041804601
	21041105601	21041805601

Please find further variants at www.pfannenberg.com or in our main catalogues.

SAFETY-RELATED LIGHTS



10 J

- Extremely bright flashing light by light bundling with fensel lens, low power consumption.



WEBCODE #8090

PRODUCT	PMF 2015-SIL	
	direct mounting	bracket mounting
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	195–253 V	18–30 V
Max. viewing distance	348 m	
Light source	xenon flash tube	
Light intensity	10 J, 225 cd (DIN 5037)	
Flash rate	1 Hz = 60 flashes/min	
Lens colour		
Degrees of protection	IP 55 (EN 60529)	
Operating temperature	–30 °C ... +55 °C	

Service life	light emission still 70 % after 8,000,000 flashes	
Dimension (WxH)	Ø 177 x 185 mm	Ø 150 x 185 mm
Approvals	EAC	

ARTICLE NO.	direct mounting	bracket mounting
230 V	21007104601	21007104611
230 V	21007105601	21007105611
24 V	21007804601	21007804611
24 V	21007805601	21007805611

Please find further variants at www.pfannenberg.com or in our main catalogues.

315 cd

- Automatic brightness adjustment to ambient light can be activated.



WEBCODE #8135

PRODUCT	PMF LED-HI-SIL	
	direct mounting	bracket mounting
Operating range	10–30 V DC	
Max. viewing distance	411 m	
Light source	8x 2 high performance LEDs	
Light intensity	315 cd, automatically reducible (day/night operation) (DIN 5037)	
Operating mode	blinking light (1.5 Hz) flashing light (1 Hz) rotating allround light (2.5 Hz)	
Lens colour		
Degrees of protection	IP 55 (EN 60529)	

Operating temperature	–40 °C ... +55 °C	
Service life	>50,000 hrs	
Dimension (WxH)	Ø 177 x 185 mm	Ø 130 x 170.5 mm
Approvals	EAC	

ARTICLE NO.	direct mounting	bracket mounting
	21154634006	21154634007
	21154635006	21154635007

Please find further variants at www.pfannenberg.com or in our main catalogues.

SAFETY-RELATED SOUNDERS



- Integrated safety tough demands under industrial conditions.
- 32 different sounds selectable.
- Can be implemented in Safety Instrumented Systems (SIS) up to SIL 2/PLD.

108 dB(A)



WEBCODE #8092

PRODUCT	DS 5-SIL	
	direct mounting	bracket mounting
Rated voltage	115–230 V AC 50/60 Hz	24 V DC
Operating range	95–253 V	19–29 V
Sound pressure level	107 dB(A) @ DIN tone	
Alarm tones	32 4 tones are externally selectable (option)	
Colour	RAL 3000	
Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102) IP 66 IP 67 (EN 60529)	
Cable entry	2x M20	

Connecting terminals	max. 2.5 mm ²	
Operating temperature	–25 °C ... +55 °C	
Dimension (WxHxD)	133.5 x 133.5 x 143 mm	
Warranty	10 years	
Approvals	EAC	

ARTICLE NO.	115–230 V AC	24 V DC
	23106100601	23106800601

Please find further variants at www.pfannenberg.com or in our main catalogues.

114 dB(A)



WEBCODE #8093

PRODUCT	DS 10-SIL	
	direct mounting	bracket mounting
Rated voltage	115–230 V AC 50/60 Hz	24 V DC
Operating range	95–253 V	19–29 V
Sound pressure level	112 dB(A) @ DIN tone	
Alarm tones	32 4 tones are externally selectable (option)	
Colour	RAL 3000	
Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)	
Cable entry	2x M20	

Connecting terminals	max. 2.5 mm ²	
Operating temperature	–25 °C ... +55 °C	
Dimension (WxHxD)	133.5 x 133.5 x 143 mm	
Warranty	10 years	
Approvals	EAC	

ARTICLE NO.	115–230 V AC	24 V DC
	23111100601	23111800601

Please find further variants at www.pfannenberg.com or in our main catalogues.

PATROL SOUNDERS

- Safe; an incorrect installation is virtually impossible.
- Easy; significantly shorter assembly and installation times.
- Economical; extremely high efficiency and good penetration of acoustical obstacles significantly reduce the required number of sounders.

105 dB(A)



WEBCODE #8077

PRODUCT	PA 1	
Rated voltage	230 V AC 50 60 Hz	12–48 V DC
Operating range	195–253 V	10–57 V
Sound pressure level	104 dB(A) @ DIN tone	
Sound level reduction	max. –16 dB via potentiometer	
Alarm tones	80 – 4 tones are externally selectable	
Colour	● RAL 3000 ● RAL 7035	
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)	
Operating temperature	–40 °C ... +55 °C	

Dimension (WxHxD)	109.5 x 86 x 80.6 mm	
Warranty	10 years	
Approvals	UL EAC option: GL MED CNBOP EN 54-3 (24 V) VdS (24 V)	

ARTICLE NO.	230 V AC	12–48 V DC
●	23310100055	23310630055
●	23310100000	23310630000

Please find further variants at www.pfannenberg.com or in our main catalogues.

107 dB(A)



WEBCODE #8078

PRODUCT	PA 5	
Rated voltage	230 V AC 50 60 Hz	12–48 V DC
Operating range	195–253 V	10–57 V
Sound pressure level	105 dB(A) @ DIN tone	
Sound level reduction	max. –16 dB via potentiometer	
Alarm tones	80 – 4 tones are externally selectable	
Colour	● RAL 3000 ● RAL 7035	
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)	
Operating temperature	–40 °C ... +55 °C	

Dimension (WxHxD)	163.4 x 135 x 132 mm	
Warranty	10 years	
Approvals	UL EAC option: GL MED CNBOP EN 54-3 (24 V) VdS (24 V)	

ARTICLE NO.	230 V AC	12–48 V DC
●	23350100055	23350630055
●	23350100000	23350630000

Please find further variants at www.pfannenberg.com or in our main catalogues.

117 dB(A)



WEBCODE #8079

PRODUCT	PA 10	
Rated voltage	115–230 V AC 50/60 Hz	12–48 V DC
Operating range	95–265 V	10–60 V
Sound pressure level	115 dB(A) @ DIN tone	
Sound level reduction	max. –12 dB via potentiometer	
Alarm tones	80 – 4 tones are externally selectable	
Colour	● RAL 3000 ● RAL 7035	
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)	
Operating temperature	–40 °C ... +55 °C	

Dimension (WxHxD)	214 x 170 x 156 mm	
Warranty	10 years	
Approvals	UL EAC option: GL MED CNBOP EN 54-3 (24 V) VdS (24 V)	

ARTICLE NO.	115–230 V AC	12–48 V DC
●	23360640055	23360630055
●	23360640000	23360630000

Please find further variants at www.pfannenberg.com or in our main catalogues.

122 dB(A)



WEBCODE #8080

PRODUCT	PA 20	
Rated voltage	115–230 V AC 50/60 Hz	12–48 V DC
Operating range	95–265 V	10–60 V
Sound pressure level	120 dB(A) @ DIN tone	118 dB(A) @ DIN tone
Sound level reduction	max. –12 dB via potentiometer	
Alarm tones	80 – 4 tones are externally selectable	
Colour	● RAL 3000 ● RAL 7035	
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)	
Operating temperature	–40 °C ... +55 °C	

Dimension (WxHxD)	214 x 170 x 181 mm	
Warranty	10 years	
Approvals	UL EAC option: GL MED CNBOP EN 54-3 (24 V) VdS (24 V)	

ARTICLE NO.	115–230 V AC	12–48 V DC
●	23370640055	23370630055
●	23370640000	23370630000

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

DS SOUNDERS

- Die-cast aluminium housing resistant to UV light, seawater, and many chemicals. Sturdy construction resists vandalism to ensure a high degree of functional safety.
- Choice of 32 unique alarm tones with three stages of tone control for distinctive signaling of specific events.

108 dB(A)



WEBCODE #8081

PRODUCT	DS 5	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	195–253 V	19–29 V
Sound pressure level	107 dB(A) @ DIN tone	
Sound level reduction	by –20 dB via potentiometer (option)	
Alarm tones	32 4 tones are externally selectable (option)	
Colour	● RAL 3000	
Operating temperature	–40 °C ... +55 °C	

Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)	
Dimension (WxHxD)	133.5 x 133.5 x 143 mm	
Warranty	10 years	
Approvals	EN 54-3 VdS EAC option: GL cUL	

ARTICLE NO.	230 V AC	24 V DC
	23106100000	23106800000

Please find further variants at www.pfannenberg.com or in our main catalogues.

114 dB(A)



WEBCODE #8082

PRODUCT	DS 10	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	195–253 V	19–29 V
Sound pressure level	112 dB(A) @ DIN tone	
Alarm tones	32 4 tones are externally selectable (option)	
Colour	● RAL 3000	
Operating temperature	–40 °C ... +55 °C	

Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)	
Dimension (WxHxD)	133.5 x 133.5 x 143 mm	
Warranty	10 years	
Approvals	EN 54-3 VdS EAC option: GL cUL	

ARTICLE NO.	230 V AC	24 V DC
	23111100000	23111800000

Please find further variants at www.pfannenberg.com or in our main catalogues.

SOUNDERS

132 dB(A)

- Secure alarming in the loudest environments and over large areas.



WEBCODE #8083

PRODUCT	PA 130	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	–25% / +15%	20–60 V
Sound pressure level	130 dB(A) @ DIN tone	
Alarm tones	80	
Remote controlled tones	9, externally controllable	
Colour	● RAL 7035	
Degrees of protection	IP 54 (EN 60529)	
Operating temperature	–20 °C ... +50 °C	
Dimension (WxHxD)	490 x 295 x 622 mm	
Approvals	EAC	

ARTICLE NO.	230 V AC	24 V DC
	23026100000	23026910000

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

PATROL FLASHING SOUNDERS

Three dimensional innovation;

- Safe; an incorrect installation is virtually impossible.
- Easy; significantly shorter assembly and installation times.
- Economical; extremely high efficiency and good penetration of acoustical obstacles significantly reduce the required number of sounders.
- Pre-wired sounder and light ex works.
- Corresponding light intensity available for every sound pressure level.

5 J / 105 dB(A)



WEBCODE #8084

PRODUCT	PA X 1-05	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	187–255 V	18–30 V
Max. viewing distance	164 m	
Light source	xenon flash tube	
Flash rate	1 Hz = 60 flashes/min	
Light intensity	5 J, 44 cd (DIN 5037)	
Sound pressure level	104 dB(A) @ DIN tone	
Sound level reduction	max. -16 dB via potentiometer	
Alarm tones	80 4 tones are externally selectable	
Lens colour		
Housing colour		
Operating temperature	-40 °C ... +55 °C	

Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)
Dimension (WxHxD)	109.5 x 172.4 x 80.6 mm
Warranty	10 years
Approvals	EN 54-3 EN 54-23 VdS UL EAC option: GL MED CNBOP standard

ARTICLE NO.	housing	housing
230 V	23311103000	23311103055
230 V	23311104000	23311104055
230 V	23311105000	23311105055
24 V	23311803000	23311803055
24 V	23311804000	23311804055
24 V	23311805000	23311805055

Please find further variants at www.pfannenberg.com or in our main catalogues.

5 J / 107 dB(A)



WEBCODE #8085

PRODUCT	PA X 5-05	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	187–255 V	18–30 V
Max. viewing distance	173 m	
Light source	xenon flash tube	
Flash rate	1 Hz = 60 flashes/min	
Light intensity	5 J, 47 cd (DIN 5037)	
Sound pressure level	105 dB(A) @ DIN tone	
Sound level reduction	max. -16 dB via potentiometer	
Alarm tones	80 4 tones are externally selectable	
Lens colour		
Housing colour		
Operating temperature	-40 °C ... +55 °C	

Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)
Dimension (WxHxD)	163.4 x 215 x 132 mm
Warranty	10 years
Approvals	UL EAC option: GL MED

ARTICLE NO.	housing	housing
230 V	23351103000	23351103055
230 V	23351104000	23351104055
230 V	23351105000	23351105055
24 V	23351803000	23351803055
24 V	23351804000	23351804055
24 V	23351805000	23351805055

Please find further variants at www.pfannenberg.com or in our main catalogues.

10 J / 117 dB(A)



WEBCODE #8086

PRODUCT	PA X 10-10	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	187–255 V	18–30 V
Max. viewing distance	283 m	
Light source	xenon flash tube	
Flash rate	1 Hz = 60 flashes/min	
Light intensity	10 J, 129 cd (DIN 5037)	
Sound pressure level	115 dB(A) @ DIN tone	
Sound level reduction	max. -12 dB via potentiometer	
Alarm tones	80 / 4 tones are externally selectable	
Lens colour		
Housing colour		
Operating temperature	-40 °C ... +55 °C	

Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)
Dimension (WxHxD)	214 x 270 x 156 mm
Warranty	10 years
Approvals	UL EAC option: GL MED

ARTICLE NO.	housing	housing
230 V	23361103000	23361103055
230 V	23361104000	23361104055
230 V	23361105000	23361105055
24 V	23361803000	23361803055
24 V	23361804000	23361804055
24 V	23361805000	23361805055

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

PATROL FLASHING SOUNDERS

15 J / 122 dB(A)



WEBCODE #8087

PRODUCT	PA X 20-15	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	187–255 V	18–30 V
Max. viewing distance	377 m	
Light source	xenon flash tube	
Flash rate	1 Hz = 60 flashes/min	
Light intensity	15 J, 265 cd (DIN 5037)	
Sound pressure level	120 dB(A) @ DIN tone	118 dB(A) @ DIN tone
Sound level reduction	max. -12 dB via potentiometer	
Alarm tones	80 4 tones are externally selectable	
Lens colour		
Housing colour	● RAL 3000 ● RAL 7035	
Operating temperature	-40 °C ... +55 °C	

Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)
Dimension (WxHxD)	214 x 270 x 181 mm
Warranty	10 years
Approvals	UL EAC option: GL MED

ARTICLE NO.	● housing	● housing
● 230 V	23372103000	23372103055
● 230 V	23372104000	23372104055
● 230 V	23372105000	23372105055
● 24 V	23372803000	23372803055
● 24 V	23372804000	23372804055
● 24 V	23372805000	23372805055

Please find further variants at www.pfannenberg.com or in our main catalogues.

PYRA® FLASHING SOUNDERS

- Safe; an incorrect installation is virtually impossible.
- Economical; largest possible signaling range due to effective XENON technology.
- Integrated inrush current limitation and undervoltage detection.
- Light and sounder can be controlled separately.

5 J / 101 dB(A)



reddot award 2015
winner

WEBCODE #8088

PRODUCT	PY X-MA-05	
Rated voltage	230 V AC 50 60 Hz	24 V AC 50 60 Hz / DC
Operating range	187–255 V	AC: 18–30 V DC: 10–57 V
Max. viewing distance	173 m	
Light source	xenon flash tube	
Flash rate	0.1 0.5 0.75 1 Hz (DIP switch)	
Light intensity	5 J, 56 cd (DIN 5037)	
Sound pressure level	99 dB(A) @ DIN tone	
Sound level reduction	max. -50 dB via potentiometer	
Alarm tones	8	
Lens colour		
Housing colour	● RAL 3000 ● RAL 7035	
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)	

Operating temperature	-40 °C ... +55 °C
Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	166 x 134.2 x 114 mm
Warranty	10 years
Approvals	UL EAC

ARTICLE NO.	● housing	● housing
● 230 V	21554103000	21554103055
● 230 V	21554104000	21554104055
● 230 V	21554105000	21554105055
● 24 V	21554813000	21554813055
● 24 V	21554814000	21554814055
● 24 V	21554815000	21554815055

Please find further variants at www.pfannenberg.com or in our main catalogues.

10 J / 101 dB(A)



reddot award 2015
winner

WEBCODE #8089

PRODUCT	PY X-MA-10	
Rated voltage	230 V AC 50 60 Hz	24 V AC 50 60 Hz / DC
Operating range	187–255 V	AC: 18–30 V DC: 10–57 V
Max. viewing distance	283 m	
Light source	xenon flash tube	
Flash rate	0.1 0.5 0.75 1 Hz (DIP switch)	
Light intensity	10 J, 149 cd (DIN 5037)	
Sound pressure level	99 dB(A) @ DIN tone	
Sound level reduction	max. -50 dB via potentiometer	
Alarm tones	8	
Lens colour		
Housing colour	● RAL 3000 ● RAL 7035	
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)	

Operating temperature	-40 °C ... +55 °C
Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	166 x 134.2 x 114 mm
Warranty	10 years
Approvals	UL EAC

ARTICLE NO.	● housing	● housing
● 230 V	21555103000	21555103055
● 230 V	21555104000	21555104055
● 230 V	21555105000	21555105055
● 24 V	21555813000	21555813055
● 24 V	21555814000	21555814055
● 24 V	21555815000	21555815055

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

PYRA® FLASHING SOUNDERS

15 J / 103 dB(A)



WEBCODE #8104

PRODUCT	PY X-LA-15	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	187–255 V	19.2–28.8 V
Max. viewing distance	320 m	
Light source	xenon flash tube	
Flash rate	0.1 0.5 0.75 1 Hz (DIP switch)	
Light intensity	15 J, 190 cd (DIN 5037)	
Sound pressure level	101 dB(A) @ DIN tone	
Sound level reduction	max. –50 dB via potentiometer	
Alarm tones	8	
Lens colour		
Housing colour	RAL 3000 RAL 7035	
Degrees of protection	IP 66 (EN 60529) / NEMA 4/4X IK08 (EN 50102)	

Operating temperature	–40 °C ... +55 °C
Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	216 x 172 x 144 mm
Warranty	10 years
Approvals	UL (pending) EAC

ARTICLE NO.	housing	housing
230 V	21565103000	21565103055
230 V	21565104000	21565104055
230 V	21565105000	21565105055
24 V	21565803000	21565803055
24 V	21565804000	21565804055
24 V	21565805000	21565805055

Please find further variants at www.pfannenber.com or in our main catalogues.

FLASHING SOUNDERS

13 J / 108 dB(A)



WEBCODE #8136

PRODUCT	DSF 5	
Rated voltage	230 V AC 50/60 Hz	24 V DC
Operating range	195–253 V	19–29 V
Max. viewing distance	374 m	
Light source	xenon flash tube	
Flash rate	1 Hz = 60 flashes/min	
Sound pressure level	107 dB(A) @ DIN tone	
Alarm tones	32 4 tones are externally selectable (option)	
Lens colour		
Colour	RAL 3000	
Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)	

Cable entry	2x M20
Connecting terminals	max. 2.5 mm ²
Operating temperature	–40 °C ... +55 °C
Dimension (WxHxD)	133.5 x 263.5 x 143 mm
Warranty	10 years
Approvals	EAC

ARTICLE NO.	115–230 V AC	24 V DC
	23107105000	23107805000

Please find further variants at www.pfannenber.com or in our main catalogues.

13 J / 114 dB(A)



WEBCODE #8136

PRODUCT	DSF 10	
Rated voltage	230 V AC 50/60 Hz	24 V DC
Operating range	195–253 V	19–29 V
Max. viewing distance	374 m	
Light source	xenon flash tube	
Flash rate	1 Hz = 60 flashes/min	
Sound pressure level	112 dB(A) @ DIN tone	
Alarm tones	32 4 tones are externally selectable (option)	
Lens colour		
Colour	RAL 3000	
Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)	

Cable entry	2x M20
Connecting terminals	max. 2.5 mm ²
Operating temperature	–40 °C ... +55 °C
Dimension (WxHxD)	133.5 x 263.5 x 143 mm
Warranty	10 years
Approvals	EAC

ARTICLE NO.	115–230 V AC	24 V DC
	23112105000	23112805000

Please find further variants at www.pfannenber.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenber.com and in the Pfannenber Sizing Software (PSS). Use the indicated web code at the product image for quick access.

Ex FLASHING LIGHTS

5 J

- Usable in all chemical and petrochemical plants as well as offshore plants.
- Zone 1/21.



WEBCODE #8095

PRODUCT	CWB-ATEX	
Rated voltage	230 V AC 50 60 Hz	24–42 V AC / 12–48 V DC
Operating range	±10 %	
Max. viewing distance	172 m	
Light source	xenon flash tube	
Light intensity	5 J, 55 cd (DIN 5037)	
Flash rate	1 Hz	
Lens colour	/ ● ● ● ● ● ●	
Explosion protection	II 2 G Ex d e IIC T6 Gb II 2 G Ex d e IIC T5 Gb II 2 D Ex tb IIIC T85°C Db IP66 (T6) II 2 D Ex tb IIIC T100°C Db IP66 (T5)	
Degrees of protection	IP 66 (EN 60529)	

Operating temperature	–40 °C ... +40 °C (T6) –40 °C ... +50 °C (T5)
Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	Ø 70 x 260 mm
Approvals	GL EAC

ARTICLE NO.	230 V AC	24–42 V AC / 12–48 V DC
●	31006103000	31006903000
●	31006104000	31006904000
●	31006105000	31006905000

Please find further variants at www.pfannenberg.com or in our main catalogues.

7.5 J

- For use in potentially explosive areas in Zone 2 as per EN 60079-10 and Zone 22 as per EN 61241-1.



WEBCODE #8137

PRODUCT	Quadro F12-3G/3D	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	195–253 V	18–30 V
Max. viewing distance	374 m	
Light source	xenon flash tube	
Light intensity	7.5 J, 84 cd (DIN 5037)	
Flash rate	0.83 Hz = 50 flashes/min	
Explosion protection	II 3G Ex nR IIC T4 –20 °C Ta +45 °C II 3D Ex tD A22 IP66 T105 °C –20 °C Ta +45 °C	
Lens colour	/ ● ● ● ● ● ●	
Degrees of protection	IP 66 (EN 60529) IK08 (EN 50102)	
Operating temperature	–20 °C ... +45 °C	

Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	130 x 130 x 130 mm
Warranty	10 years
Approvals	EAC

ARTICLE NO.	230 V AC	24 V DC
/	21041101008	21041801008
●	21041103008	21041803008
●	21041104008	21041804008
●	21041105008	21041805008

Please find further variants at www.pfannenberg.com or in our main catalogues.

5 J

- Powerful visual safety for hazardous areas.
- Large connection box for simple mounting.
- Zone 1/21.



WEBCODE #8096

PRODUCT	BExBG 05-E	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	±10 %	±25 %
Max. viewing distance	172 m	
Light source	xenon flash tube	
Light intensity	5 J, 55 cd (DIN 5037)	
Flash rate	60 flashes/min	
Lens colour	/ ● ● ● ● ● ●	
Explosion protection	II2G Ex de IIC T4, T5 oder T6 II2D Ex tD A21 IP67 T115	
Operating temperature	T4 / T115°C @ Ta –50 °C ... +70 °C T5 / T100°C @ Ta –50 °C ... +55 °C T6 / T85°C @ Ta –50 °C ... +40 °C	

Degrees of protection	IP 66 (EN 60529)
Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	Ø 70 x 260 mm
Approvals	GL EAC

ARTICLE NO.	230 V AC	24 V DC
●	31130103000	31130803000
●	31130104000	31130804000
●	31130105000	31130805000

Please find further variants at www.pfannenberg.com or in our main catalogues.

15 J

- Powerful visual safety for hazardous areas.
- Simple and safe electrical connection.
- Zone 1/21.



WEBCODE #8096

PRODUCT	BExBG 15-E	
Rated voltage	230 V AC 50 60 Hz	24 V DC
Operating range	±10 %	±25 %
Max. viewing distance	348 m	
Light source	xenon flash tube	
Light intensity	15 J, 226 cd (DIN 5037)	
Flash rate	60 flashes/min	
Lens colour	/ ● ● ● ● ● ●	
Explosion protection	II2G Ex de IIC T4, T5 oder T6 II2D Ex tD A21 IP67 T115	
Operating temperature	T4 / T115°C @ Ta –50 °C ... +70 °C T5 / T100°C @ Ta –50 °C ... +55 °C T6 / T85°C @ Ta –50 °C ... +40 °C	

Degrees of protection	IP 66 (EN 60529)
Service life	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	Ø 70 x 260 mm
Approvals	GL EAC

ARTICLE NO.	230 V AC	24 V DC
●	31110103000	31110803000
●	31110104000	31110804000
●	31110105000	31110805000

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

Ex LED LIGHTS

LED – 7 cd

- Compact design permits versatile installation in practically any space.



WEBCODE #8138

PRODUCT	IS-mB1
Rated voltage	24 V DC
Operating range	16–28 V
Max. viewing distance	52 m
Light source	LED
Light intensity	7 cd (DIN 5037)
Operating mode	blinking light, can be set to 2 Hz or 1 Hz
Explosion protection	II 1G EEx ia IIC T4
Lens colour	
Cable entry	2x M20

Degrees of protection	IP 65
Temperature class T	T4 @ Ta –40 °C ... +60 °C
Dimension (WxHxD)	88.7 x 85 x 95 mm
Approvals	EAC

ARTICLE NO.	24 V DC
	31008804000
	31008805000

Please find further variants at www.pfannenbergl.com or in our main catalogues.

LED – 75 cd

- User-adjustable brightness up to 75 cd.
- Certified for use in Ex zone 2 (per EN 60079-10) and zone 22 (per EN 61241-10).



WEBCODE #8139

PRODUCT	Quadro LED-HI 3G/3D	
Operating range	AC/DC	DC
	90–253 V	11–60 V
Max. viewing distance	201 m	
Light source	LED	
Light intensity	75 cd, reducible (DIN 5037)	
Operating mode	internally and externally (DC) selectable	
Explosion protection	II 3G Ex nRc IIC T6 X –20 °C ≤ Ta ≤ +55 °C II 3D Ex tc IIIB T80 °C IP66/67 –20 °C ≤ Ta ≤ +55 °C	
Lens colour		
Cable entry	2x M20 x 1.5	
Service life	min. 50,000 hrs	

Degrees of protection	IP 66/67 (EN 60529) IK08 (EN 50102)
Temperature class T	–20 °C ... +55 °C (T6)
Dimension (WxHxD)	130 x 130 x 130 mm
Warranty	10 years
Approvals	EAC

ARTICLE NO.	115–230 V AC/DC	12–48 V DC
	21108643009	21108633009
	21108644009	21108634009
	21108645009	21108635009

Please find further variants at www.pfannenbergl.com or in our main catalogues.

Ex SOUNDERS

108 dB(A)

- For device categories 3G (Zone 2) and 3D (Zone 22).



WEBCODE #8097

PRODUCT	DS 5 3G/3D	
Rated voltage	230 V AC 50 60 Hz	24 V DC
	195–253 V	19–29 V
Sound pressure level	107 dB(A) @ DIN tone	
Alarm tones	32	
	4 tones are externally selectable (option)	
Colour	RAL 3000	
Explosion protection	II 3G Ex nA II T4 II 3D Ex tD A22 IP 67 T135°C	
Temperature class	T4/T3 @ –25 °C ... +55 °C	

Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)
Dimension (WxHxD)	133.5 x 133.5 x 143 mm
Warranty	10 years
Approvals	EN 54-3 VdS EAC Option: GL

ARTICLE NO.	230 V AC	24 V DC
	23106100007	23106800007

Please find further variants at www.pfannenbergl.com or in our main catalogues.

114 dB(A)

- For device categories 3G and 3D (category for gas and dust protection).



WEBCODE #8098

PRODUCT	DS 10 3G/3D	
Rated voltage	230 V AC 50 60 Hz	24 V DC
	195–253 V	19–29 V
Sound pressure level	112 dB(A) @ DIN tone	
Alarm tones	32	
	4 tones are externally selectable (option)	
Colour	RAL 3000	
Explosion protection	II 3G Ex nA II T4 II 3D Ex tD A22 IP 67 T135°C	
Temperature class	T4/T3 @ –25 °C ... +55 °C	

Degrees of protection	IP 66, IP 67 (EN 60529) IK08 (EN 50102)
Dimension (WxHxD)	133.5 x 133.5 x 143 mm
Warranty	10 years
Approvals	EN 54-3 VdS EAC option: GL

ARTICLE NO.	230 V AC	24 V DC
	23111100007	23111800007

Please find further variants at www.pfannenbergl.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenbergl.com and in the Pfannenbergl Sizing Software (PSS). Use the indicated web code at the product image for quick access.

Ex SOUNDERS

103 dB(A)

- Choice of 49 unique alarm tones with three stages of tone control.



WEBCODE #8140

PRODUCT	IS-A105N
Rated voltage	24 V DC
Operating range	10–28 V
Sound pressure level	100 dB(A) @ DIN tone
Sound level reduction	up to 15 dB(A) via an internal potentiometer
Alarm tones	49, can be set via DIP switch / 2 tones are externally selectable
Colour	● RAL 3000
Explosion protection	II 1G Ex ia IIC T4 –40 °C ... +60 °C Ta

Operating temperature	–40 °C ... +60 °C
Degrees of protection	IP 66 (EN 60529)
Dimension (WxHxD)	130 x 130 x 132 mm
Approvals	EAC

ARTICLE NO.	24 V DC
	32033800000

Please find further variants at www.pfannenberg.com or in our main catalogues.

102 dB(A)

- Certified for use in Ex zones 0, 1 and 2.



WEBCODE #8141

PRODUCT	IS-mA1
Rated voltage	24 V DC
Operating range	16–28 V
Sound pressure level	98 dB(A) @ DIN tone
Sound level reduction	–20 dB
Alarm tones	49
Colour	● RAL 3000
Explosion protection	II 1G EEx ia IIC T4

Temperature class	T4 @ Ta –40 °C ... +60 °C
Degrees of protection	IP 65 (EN 60529)
Dimension (WxHxD)	88.7 x 99 x 95
Approvals	EAC

ARTICLE NO.	24 V DC
	32034800000

Please find further variants at www.pfannenberg.com or in our main catalogues.

113 dB(A)

- Certified for use in Ex zones 1 and 2.



WEBCODE #8142

PRODUCT	BExS 110D BExS 110E	
Rated voltage	230 V AC ±10 % 50 60 Hz	24 V ±25 % DC
Sound pressure level	112 dB(A) @ DIN tone	
Sound level reduction	–9 dB	
Alarm tones	32	
Colour	● RAL 3000	
Explosion protection	II 2G Ex d IIC T4 II 2G Ex d IIB T4	II 2G Ex de IIC T4 II 2G Ex de IIB T4
Temperature class	IIC: T4 @ –50 °C ... +55 °C Ta IIB: T4 @ –50 °C ... +70 °C Ta	

Degrees of protection	IP 67 (EN 60529)	IP 66 (EN 60529)
Dimension (W/HxD)	Ø 181 x 275 mm	
Approvals	AC: EAC DC: EN 54-3 VdS (BExS 110D) EAC	

ARTICLE NO.	230 V AC	24 V DC
BExS 110D	32080100000	32080800000
BExS 110E	32082100000	32082800000

Please find further variants at www.pfannenberg.com or in our main catalogues.

113 dB(A)



WEBCODE #8142

PRODUCT	BExDS 110D BExDS 110E	
Rated voltage	230 V AC ±10 % 50 60 Hz	24 V ±25 % DC
Sound pressure level	112 dB(A) @ DIN tone	
Sound level reduction	–9 dB	
Alarm tones	32	
Colour	● RAL 3000	
Explosion protection	II2G/D Exd IIC T4 100°C II2G/D Exd IIB T4 115°C	II2G/D Exde IIC T4 100°C II2G/D Exde IIB T4 115°C

Temperature class	T4 @ –50 °C ... +55 °C Ta	
Degrees of protection	IP 67 (EN 60529)	IP 66 (EN 60529)
Dimension (W/HxD)	Ø 181 x 275 mm	
Approvals	AC: EAC DC: EN 54-3 EAC	

ARTICLE NO.	BExDS 110D	BExDS 110E
230 V AC	32075100000	32085100000

Please find further variants at www.pfannenberg.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenberg.com and in the Pfannenberg Sizing Software (PSS). Use the indicated web code at the product image for quick access.

Ex SOUNDERS

120 dB(A)

- Certified for use in Ex zones 1 and 2.



WEBCODE #8101

PRODUCT	BExS 120D BExS 120E	
Rated voltage	230 V AC ±10 % 50 60 Hz	24 V ±25 % DC
Sound pressure level	118 dB(A) @ DIN tone	
Sound level reduction	-9 dB	
Alarm tones	32	
Colour	● RAL 3000	
Explosion protection	II 2G Ex d IIC T4 II 2G Ex d IIB T4	II 2G Ex de IIC T4 II 2G Ex de IIB T4
Temperature class	IIC: T4 @ -50 °C ... +55 °C Ta IIB: T4 @ -50 °C ... +70 °C Ta	

Degrees of protection	IP 67 (EN 60529)	IP 66 (EN 60529)
Dimension (W/HxD)	Ø 220 x 326 mm	
Approvals	AC: EAC DC: EN 54-3 EAC	

ARTICLE NO.	230 V AC	24 V DC
BExS 120D	32076100000	32076800000
BExS 120E	32078100000	32078800000

Please find further variants at www.pfannenber.com or in our main catalogues.

120 dB(A)



WEBCODE #8101

PRODUCT	BExDS 120D BExDS 120E	
Rated voltage	230 V AC ±10 % 50 60 Hz	24 V ±25 % DC
Sound pressure level	118 dB(A) @ DIN tone	
Sound level reduction	-9 dB	
Alarm tones	32	
Colour	● RAL 3000	
Explosion protection	II2G/D Exd IIC T4 100°C II2G/D Exd IIB T4 115°C	II2G/D Exde IIC T4 100°C II2G/D Exde IIB T4 115°C

Temperature class	T4 @ -50 °C ... +55 °C Ta	
Degrees of protection	IP 67 (EN 60529)	IP 66 (EN 60529)
Dimension (W/HxD)	Ø 220 x 326 mm	
Approvals	AC: EAC DC: EN 54-3 EAC	

ARTICLE NO.	BExDS 120D	BExDS 120E
230 V AC	32089100000	32081100000

Please find further variants at www.pfannenber.com or in our main catalogues.

Ex FLASHING SOUNDERS

5 J / 113 dB(A)

- Combined flashing light and powerful siren for enhanced alarming and safety for Zone 1.



WEBCODE #8102

PRODUCT	BExCS 110-05D	
Rated voltage	230 V AC	24 V DC
Operating range	±10 %	sounder: ±25 % light: 20-28 V
Max. viewing distance	172 m	
Sound pressure level	112 dB(A) @ DIN tone	
Sound level reduction	-9 dB	
Alarm tones	32	
Light source	xenon flash tube	
Light intensity	5 J, 55 cd (DIN 5037)	
Flash rate	1 Hz	
Lens colour	/ ● ● ● ● ● ●	

Explosion protection	II 2G Ex d IIB T4 -50 °C ... +70 °C Ta
Degrees of protection	IP 67 (EN 60529)
Service life des Leuchtmittels	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	Ø 181 x 368 mm
Approvals	GL EAC

ARTICLE NO.	230 V AC	24 V DC
●	32074103000	32074803000
●	32074105000	32074805000

Please find further variants at www.pfannenber.com or in our main catalogues.

7 cd / 102 dB(A)

- Compact design permits versatile installation in practically any space.



WEBCODE #8143

PRODUCT	IS-mC1
Rated voltage	24 V DC
Operating range	16-28 V
Max. viewing distance	52 m
Sound pressure level	98 dB(A) @ DIN tone
Sound level reduction	-20 dB
Alarm tones	49
Light source	LED ● ● ● ● ●
Light intensity	7 cd (DIN 5037)
Operating mode	blinking light, can be set to 2 Hz or 1 Hz
Explosion protection	II 1G Ex ia IIC T4

Lens colour	/
Cable entry	2x M20
Degrees of protection	IP 65
Temperature class T	T4 @ Ta -40 °C ... +60 °C
Dimension (WxHxD)	88.7 x 116 x 95 mm
Approvals	EAC

ARTICLE NO.	24 V DC
●	32035804000
●	32035805000

Please find further variants at www.pfannenber.com or in our main catalogues.

Detailed 3D-Coverage values (signaling ranges) can be found on pfannenber.com and in the Pfannenber Sizing Software (PSS). Use the indicated web code at the product image for quick access.

BR 35 SIGNAL TOWERS Ø 35 mm

- Modular design with six different colour elements and four mounting methods offers endless combination possibilities.
- The light is amplified by the internal prisms of the impact-proof, heat-resistant and dust-proof polycarbonate lens and can be easily identified from all sides.
- Appealing design with a diameter of just 35 mm.
- For use in electronic production, in laboratories, in medical technology and in all other indoor applications.



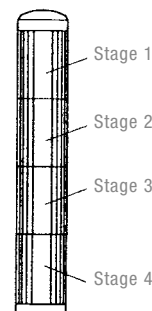
WEBCODE #8099

MOUNTING	STAND MOUNTING		PLINTH MOUNTING		TUBE MOUNTING		PANEL MOUNTING	
	230 V AC 50 60 Hz	24 V DC	230 V AC 50 60 Hz	24 V DC	230 V AC 50 60 Hz	24 V DC	230 V AC 50 60 Hz	24 V DC
Rated voltage	230 V AC 50 60 Hz	24 V DC	230 V AC 50 60 Hz	24 V DC	230 V AC 50 60 Hz	24 V DC	230 V AC 50 60 Hz	24 V DC
Operating range	-15% / + 10%	-15% / +20 %	-15% / +10 %	-15% / +20 %	-15 % / +10 %	-15% / +20 %	-15% / +10 %	-15% / +20 %
Light source	filament lamp BA9s (pre-installed)							
Light intensity	44 cd (DIN 5037)							
Lens colour								
Diameter globe	35 mm square-shaped							
Degrees of protection	IP 54 (EN 60529)							
Connecting terminals	single wire: 1.5 mm ² , fine wire: 0.14–1.5 mm ²							
Type of connection					cable length 0.5 m		cable length 0.65 m	
Height	1-stage	228 mm		210 mm		91 mm		
	2-stage	276 mm		258 mm		142 mm		
	3-stage	324 mm		306 mm		190 mm		
	4-stage	372 mm		354 mm		238 mm		
ARTICLE NO.								
1-stage	22080101000	22080801000	22081101000	22081801000	22082101000	22082801000	22083101000	22083801000
2-stage	22080102000	22080802000	22081102000	22081802000	22082102000	22082802000	22083102000	22083802000
3-stage	22080103000	22080803000	22081103000	22081803000	22082103000	22082803000	22083103000	22083803000
4-stage	22080104000	22080804000	22081104000	22081804000	22082104000	22082804000	22083104000	22083804000

Please find further variants at www.pfannenberg.com or in our main catalogues.

ORDER STEPS

Step 1: ARTICLE NO.										
Step 2: Lens colours (top-down) write down lens colours										
1										
2										
3										
4										



Pfannenberg's PSS software tool provides easy signal tower configuration to suit individual requirements: pss-pfannenberg.de or pfannenberg.com.

BR 50 SIGNAL TOWERS Ø 50 mm

- Modular design with sturdy housing for all indoor and outdoor applications in tough conditions.
- Flexible building kit system guarantees easy handling.
- Up to 5 modules with 6 lens colours can be combined as desired by simply plugging together, even retrospectively.



MODULES

WEBCODE #8100



VERSIONS	CONTINUOUS LIGHT		BLINKING LIGHT (1.5 Hz)		FLASHING LIGHT		SOUNDER		
	Rated voltage	12 V–253 V	230 V AC 50 60 Hz	24 V DC	230 V AC 50 60 Hz	24 V DC	230 V AC 50 60 Hz	24 V DC	
Operating range	–	–15 % / +10 %	–15 % / +20 %	–10 % / +15 %	AC: 10–27 V DC: 10–35 V	–15 % / +10 %	–15 % / +20 %		
Light source	BA15d LED (order separately)			xenon flash tube (pre-installed)			–		
Light intensity	5 W							–	
Sound pressure level								87 dB(A)	
Lens colour									
Diameter globe	Ø 50 mm								
Degrees of protection	IP 54 (EN 60529) option: IP 65						IP 43 (EN 60529)		
ARTICLE NO.									
	28250040010	28250051010	28250058010	28250071010	28250078010	28250081000	28250088000		
	28250040030	28250051030	28250058030	28250071030	28250078030				
	28250040040	28250051040	28250058040	28250071040	28250078040				
	28250040050	28250051050	28250058050	28250071050	28250078050				
	28250040060	28250051060	28250058060	28250071060	28250078060				
	28250040070	28250051070	28250058070	28250071070	28250078070				

Please find further variants at www.pfannenber.com or in our main catalogues.

MOUNTING OPTIONS



SPECIAL MODULES

VARIATIONS	BASE AND END MODULE	TUBULAR STAND WITH PLINTH	TUBE WITH THREAD AND BRACKET	PRODUCT	BR 50 AS-I BUS SLAVE	
Tube thread		30 mm, M16 x 1.5		ARTICLE NO.	28250148300	28250178300
ARTICLE NO.				Modules	AS-i	AS-i-AB
100 mm	28250010000	28250150010	28250160010	Module types	LED, sounder, continuous light, blinking light	
250 mm		28250150020	28250160020	Segment stages	max. 4	max. 3
400 mm		28250150040	28250160040	Slave/Master	max. 31	max. 62

ACCESSORIES



LIGHT SOURCE	LED STANDARD		LED STANDARD PLUS		FILAMENT LAMP 5 W	
Rated voltage	230 V AC	24 V AC/DC	230 V AC	24 V AC/DC	230 V AC	24 V AC/DC
ARTICLE NO.						
	28213000014	28213000006	28213000013		28213000005	28213000001
	28213000015			28213000007		
	28213000016			28213000009		
	28213000018	28213000011	28213000017			
	28213000020	28213000012	28213000019			

* White LED can be used in combination with all lens colours.



WALL BRACKET WITH HOOD	
ARTICLE NO.	
BR50-W	28250200000

Pfannenber's PSS software tool provides easy signal tower configuration to suit individual requirements: pss-pfannenber.de or pfannenber.com.

Operational safety right from the start: Customised for maximum machine availability.



Choose from our modular additional services.

And put a hook to it!

Installation and assembly on site

We take care of piping and on-schedule installation for you: for new installations and rebuilding measures/retrofit.

Professional commissioning

Only a perfect start avoids malfunctions and expensive machine damage.

Leak tests (F-gases)

Mission: Detect the smallest leaks, stop refrigerant loss immediately. Your advantage: With us, you at once comply with statutory inspection obligations as an operator.

Retrofits & modernisations

Whether you need to change the refrigerant for old devices or optimise your cooling solution, we make you fit for the future.

Technical trainings

We make your commissioning and maintenance personnel fit for the essentials.

Backup devices planning

Increase your flexibility in day-to-day service: especially if you have to take care of a large stock of equipment.

Preventative maintenance

Preventive against disturbances and standstills. We actively maintain your entire equipment inventory – manufacturer-independent.

Filter media for every area

The right filter protects against dust, air containing oil or aerosols and thus against overheating. Only the original protects you against warranty forfeiture.

Recommended spare parts

You should always have these original parts ready: because their availability makes all the difference when speed counts.



Repair service

Whether in the Service Center against a cost estimate or directly on site in an emergency: We repair your equipment – reliably and manufacturer-independently.

Warranty extension

Get a secure calculation base for a small surcharge.



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