

COMPACT CATALOGUE

Thermal Management | Signaling Technology | Process Cooling | Service
EDITION 30



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.pfannenberger.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 pfannenberger.com.
3. Type in the “#” followed by the 4-digit code in the search window on the top right and click “enter”.

PSS Pfannenberger Sizing Software.



The Software

The Pfannenberger 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 visual and audible Pfannenberger 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!



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 cooling technology.
- Pfannenberg Sizing Software: find the most suitable solution for individual application.
- Plant V2 communication 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	PAS 6203
Size 2	DTx 6301C DTx 6201C	PWx 6302C PWx 6152	PAS 6133
Size 3	DTx 9041	PWx 6105 PWx 6052	PAS 6043

Controller at a glance.



	Standard Controller SC	Multi Controller MC	Premium Controller PC
Status LED	•	•	•
Main fault contact	•	•	•
Door contact	•	•	•
Integrated self test	•	•	•
Service interface	•	•	•
Plant V2 communication	•	•	•
Anti freeze control	• ¹⁾	• ¹⁾	•
Energy saving mode	—	•	•
Temperature display	—	•	•
Set buttons	—	•	•
Multi Master	—	•	•
Modbus interface	—	—	•
BLDC technology	—	—	•
Cloud capable	—	—	•

1) Anti freeze functionality is standard for top mounted cooling units DTT.

Supported cooling units.

	500 W	1000 W	1500 W	2000 W	2500 W	3000 W	4000 W
SC MC	—	DTI/DTS 6201	DTI/DTS 6301	DTI/DTS 6401	DTI/DTS 6501	—	DTI/DTS 6801
SC MC	—	DTI/DTS 6201C	DTI/DTS 6301C	—	—	—	—
SC MC	DTT 6101	DTT 6201	DTT 6301	DTT 6401	—	DTT 6601	DTT 6801
PC	DTI/DTS 6X1E				DTI/DTS 6X2E		

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 maximum airflow with minimal energy consumption.
- Filterfans 4.0 should be equipped with an additional thermostat which makes sure the fan is only powered when cooling is needed and saves energy this way
- 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 up to 300% longer than with conventional filter media.
- Minimum thickness of cover ensures unobtrusive design.



92 x 92 mm



WEBCODE #8001

PRODUCT	PF 11,000 IP 54	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	
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

125 x 125 mm



WEBCODE #8002

PRODUCT	PF 22,000 IP 54	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	61 70 m³/h	61 m³/h
Airflow rate in combination (PF + PFA)	44 50 m³/h	44 m³/h
Power consumption	19 18 W	5 W
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	
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

125 x 125 mm



WEBCODE #8002

PRODUCT	PF 22,000 IP 55	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	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 cURus CSA EAC CE UKCA	
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

FILTERFANS 4.0

177 x 177 mm



WEBCODE #8003

PRODUCT	PF 32,000 IP 54	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	98 108 m ³ /h	98 m ³ /h
Airflow rate in combination (PF + PFA)	73 80 m ³ /h	73 m ³ /h
Power consumption	19 18 W	5 W
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	
ARTICLE NO. 	11632101055	11632801055
ARTICLE NO. 	11632101050	11632801050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600031	
ARTICLE NO. Spare part fan	18611000016	18611000026

Please find further variants at www.pfannenber.com

177 x 177 mm



WEBCODE #8003

PRODUCT	PF 32,000 IP 55	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	100 110 m ³ /h	100 m ³ /h
Airflow rate in combination (PF + PFA)	55 64 m ³ /h	55 m ³ /h
Power consumption	19 18 W	5 W
Degree of protection (UL50) – filter type	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 cURus CSA EAC CE UKCA	
ARTICLE NO. 	11632103055	11632803055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600031	
ARTICLE NO. Spare part fan	18611000016	18611000026

Please find further variants at www.pfannenber.com

223 x 223 mm



WEBCODE #8004

PRODUCT	PF 42,500 IP 54	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	125 138 m ³ /h	125 m ³ /h
Airflow rate in combination (PF + PFA)	93 102 m ³ /h	93 m ³ /h
Power consumption	28 29 W	4.7 W
Degree of protection (UL50) – filter type	NEMA type 12 – fleece filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	50,000 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 cURus CSA EAC CE UKCA	
ARTICLE NO. 	11642101055	11642801055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600032	
ARTICLE NO. Spare part fan	18611000033	18611000040

Please find further variants at www.pfannenber.com

223 x 223 mm



WEBCODE #8004

PRODUCT	PF 42,500 IP 55	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	145 160 m ³ /h	145 m ³ /h
Airflow rate in combination (PF + PFA)	109 113 m ³ /h	109 m ³ /h
Power consumption	28 29 W	4.7 W
Degree of protection (UL50) – filter type	NEMA type 12 – fluted filter	
Type of connection	spring-type terminal	
Service life L ₁₀ (+40 °C)	50,000 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 cURus CSA EAC CE UKCA	
ARTICLE NO. 	11642103055	11642803055
ARTICLE NO. Spare part filter mats (5 pieces)	18611600032	
ARTICLE NO. Spare part fan	18611000033	18611000040

Please find further variants at www.pfannenber.com

FILTERFANS 4.0

223 x 223 mm



WEBCODE #8005

PRODUCT	PF 43,000 IP 54	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

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.pfannenbergl.com

223 x 223 mm



WEBCODE #8005

PRODUCT	PF 43,000 IP 55	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	233 265 m³/h	233 m³/h
Airflow rate in combination (PF + PFA)	180 207 m³/h	180 m³/h
Power consumption	45 39 W	12 W
Degree of protection (UL50) – filter type	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 cURus CSA EAC CE UKCA	

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.pfannenbergl.com

292 x 292 mm



WEBCODE #8006

PRODUCT	PF 65,000	
	IP 54	IP 55
Rated voltage $\pm 10\%$	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	
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

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.pfannenbergl.com

292 x 292 mm



WEBCODE #8007

PRODUCT	PF 66,000 IP 54	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	400/460 V AC 3 ~ 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
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus EAC CE UKCA	

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.pfannenbergl.com

FILTERFANS 4.0

292 x 292 mm



WEBCODE #8007

PRODUCT	PF 66,000 IP 55	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	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 cURus EAC CE UKCA	

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.pfannenber.com

292 x 292 mm



WEBCODE #8008

PRODUCT	PF 67,000 IP 54	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus EAC CE UKCA	

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.pfannenber.com

292 x 292 mm



WEBCODE #8008

PRODUCT	PF 67,000 IP 55	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	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 cURus EAC CE UKCA	

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.pfannenber.com

SLIM LINE FILTERANS 4.0 – low installation depth

292 x 292 mm



WEBCODE #8009

PRODUCT	PF 65,000 SL IP 55	
Rated voltage $\pm 10\%$	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	
Degree of protection (UL50) – filter type	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 cURus CSA EAC CE UKCA	

ARTICLE NO. ● ●	11675103055	11675103050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600037	
ARTICLE NO. Spare part fan	18611000001	

Please find further variants at www.pfannenber.com

SLIM LINE FILTERFANS – low installation depth

292 x 292 mm



WEBCODE #8010

PRODUCT	PF 67,000 SL IP 55	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	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 cURus EAC CE UKCA	

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

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.
- Minimum thickness of cover ensures unobtrusive design.

92 x 92 mm



WEBCODE #8011

PRODUCT	PFA 10,000 IP 54
Degree of protection (UL50) – filter type	NEMA type 12 – fleece filter
Colour	RAL 7035 ● RAL 9011 ●
Dimension (WxHxD)	109 x 109 x 23 mm
Cut-out (WxH)	92 x 92 mm
Approvals	cULus cURus CSA EAC CE UKCA

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

Please find further variants at www.pfannenberg.com

125 x 125 mm



WEBCODE #8012

PRODUCT	PFA 20,000	
	IP 54	IP 55
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

ARTICLE NO. ●	11720001055	11720003055
ARTICLE NO. ●	11720001050	11720003050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600030	18611600034

Please find further variants at www.pfannenberg.com

177 x 177 mm



WEBCODE #8013

PRODUCT	PFA 30,000	
	IP 54	IP 55
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

ARTICLE NO. ●	11730001055	11730003055
ARTICLE NO. ●	11730001050	11730004050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600031	18611600035

Please find further variants at www.pfannenberg.com

EXHAUST FILTERS 4.0

223 x 223 mm



WEBCODE #8014

PRODUCT	PFA 40,000	
	IP 54	IP 55
Degree of protection (UL50) - filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

ARTICLE NO. 	11740001055	11740003055
ARTICLE NO. 	11740001050	11740003050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600032	18611600036

Please find further variants at www.pfannenber.com

292 x 292 mm



WEBCODE #8015

PRODUCT	PFA 60,000	
	IP 54	IP 55
Degree of protection (UL50) - filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

ARTICLE NO. 	11760002055	11760003055
ARTICLE NO. 	11760002050	11760003050
ARTICLE NO. Spare part filter mats (5 pieces)	18611600033	18611600037

Please find further variants at www.pfannenber.com

FILTERFANS EMC – Electromagnetic compatibility

93 x 93 mm



WEBCODE #8121

PRODUCT	PF 11,000 EMC IP 54	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) - filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

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.pfannenber.com

126.5 x 126.5 mm



WEBCODE #8016

PRODUCT	PF 22,000 EMC IP 54	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	24 V DC
Unimpeded airflow	61 70 m³/h	61 m³/h
Airflow rate in combination (PF + PFA)	44 52 m³/h	44 m³/h
Power consumption	19 18 W	5 W
Degree of protection (UL50) - filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

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.pfannenber.com

FILTERFANS EMC – Electromagnetic compatibility

178 x 178 mm



WEBCODE #8122

PRODUCT	PF 32,000 EMC IP 54	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

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.pfannenbergl.com

224 x 224 mm



WEBCODE #8123

PRODUCT	PF 42,500 EMC IP 54	
Rated voltage $\pm 10\%$	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	28 29 W	4.7 W
Degree of protection (UL50) – filter type	NEMA type 12 – fleece filter	
Type of connection	spring-type terminal	
Service life L_{10} (+40 °C)	50,000 hrs	70,000 hrs
EMC screen	stainless steel	

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

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.pfannenbergl.com

224 x 224 mm



WEBCODE #8017

PRODUCT	PF 43,000 EMC IP 54	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

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.pfannenbergl.com

292 x 292 mm



WEBCODE #8018

PRODUCT	PF 67,000 EMC IP 54	
Rated voltage $\pm 10\%$	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
Degree of protection (UL50) – filter type	NEMA type 12 – fleece 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 cURus CSA EAC CE UKCA	

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.pfannenbergl.com

Filterfans for top 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	350 m³/h	500 m³/h
Airflow rate in combination (PF + PFA)	242 m³/h	310 m³/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 cURus EAC CE UKCA	

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.pfannenber.com

800 m³/h



Webcode #8020

Product	PTF 60,700	
	IP 54	IP 33
Rated voltage ±10 %	230 V AC 50 60 Hz	
Unimpeded airflow	600 m³/h	800 m³/h
Airflow rate in combination (PF + PFA)	400 m³/h	450 m³/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 cURus EAC CE UKCA	

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.pfannenber.com

1000 m³/h



Webcode #8021

Product	PTF 61,000	
	IP 54	IP 33
Rated voltage ±10 %	230 V AC 50 60 Hz	
Unimpeded airflow	880 m³/h	1000 m³/h
Airflow rate in combination (PF + PFA)	570 m³/h	650 m³/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 cURus EAC CE UKCA	

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.pfannenber.com

Exhaust filter for top 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 CE UKCA	

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

Please find further variants at www.pfannenber.com

Accessories

Internal enclosure fan



Product		PEF 180	
Article NO.	18110000000	18110000002	Unit
Data			
Rated voltage ±10 %	AC 50 60 Hz	DC	
	230	24	V

For long rows of electrical enclosures which are only cooled with one unit. • Distribution of the cold air in the electrical enclosure. • Robust – steel housing and bracket. • Variable – air stream can with adjustable bracket be guided to any direction. • Slim – even suitable for limited space.

Weather protection hood



Product		Weather Protection Hood		
Article NO.	VA	18102000014	18102000017	18102000020
Article NO.	RAL 7035	18102000013	18102000016	18102000019
Suitable for...				
Installation size		1 2	3 4	6

Weather protection hood NEMA 3R/4 in VA or powder-coated. • The mounting bracket can easily be installed to the enclosure around the existing cut-out.

Green Series COOLING UNITS

Highest energy efficiency for significant energy savings and operating cost reduction

- Significantly less refrigerant used
- UL listed according to UL 60335 for long-term planning even after 2024
- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated

DTI: for partially recessed mounting in the door or side

DTS: for outer mounting on the door or side



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

1150 W



WEBCODE #8025

PRODUCT	DTI 6201 DTS 6201	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1150 W	
Power consumption	500 631 W	532 653 W
Current consumption	3.1 4.8 A	2.4 2.5 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C) or stainless steel	
Colour	RAL 7035	
Dimension (WxHxD)	DTI: 485 x 1537 x 158mm DTS 485 x 1540 x 218mm	
Weight (net)	50 kg 51 kg	55 kg 56 kg

Degrees of protection (EN 60538)	IP 55 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC CE UKCA	
ARTICLE NO.	DTI	DTS
SC 230V	13899211055	13889211055
SC 400V	13899219055	13889219055
MC 230V	13899221055	13889221055
MC 400V	13899229055	13889229055
V2A SC 230V	13899211015	13889211015
V2A SC 400V	13899219015	13889219015
V2A MC 230V	13899219015	13889221015
V2A MC 400V	13899229015	13889229015

Please find further variants at www.pfannenbergl.com

1550 W



WEBCODE #8124

PRODUCT	DTI 6301 DTS 6301	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1550 W	
Power consumption	721 845 W	778 874 W
Current consumption	3.1 4.8 A	2.4 2.5 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C) or stainless steel	
Colour	RAL 7035	
Dimension (WxHxD)	DTI: 485 x 1537 x 218 mm DTS 485 x 1540 x 218 mm	
Weight (net)	55kg 58kg	59kg 62kg

Degrees of protection (EN 60538)	IP 55 towards the enclosure, IP 34 towards the surroundings	
Approvals	cURus EAC CE UKCA	
ARTICLE NO.	DTI	DTS
SC 230V	13899311055	13889311055
SC 400V	13899319055	13889319055
MC 230V	13899321055	13889321055
MC 400V	13899329055	13889329055
V2A SC 230V	13899311015	13889311015
V2A SC 400V	13899319015	13889319015
V2A MC 230V	13899321015	13889321015
V2A MC 400V	13899329015	13889329015

Please find further variants at www.pfannenbergl.com

2000 W



WEBCODE #8026

PRODUCT	DTI 6401 DTS 6401	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	2000 W	
Power consumption	931 1126 W	727 911 W
Current consumption	5.8 6.9 A	2.2 2.1 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C) or stainless steel	
Colour	RAL 7035	
Dimension (WxHxD)	DTI: 485 x 1537 x 278 mm DTS 485 x 1540 x 278 mm	
Weight (net)	55kg 58kg	63kg 66kg

Degrees of protection (EN 60538)	IP55 towards the electrical enclosure IP 24 towards the surroundings	
Approvals	cURus EAC CE UKCA	
ARTICLE NO.	DTI	DTS
SC 230V	13899311055	13889311055
SC 400V	13899319055	13889319055
MC 230V	13899321055	13889329055
MC 400V	13899329055	13889321055
V2A SC 230V	13899311015	13889311015
V2A SC 400V	13899319015	13889319015
V2A MC 230V	13899321015	13889321015
V2A MC 400V	13899329015	13889329015

Please find further variants at www.pfannenbergl.com

2000 W



WEBCODE #8026

PRODUCT	DTI 6501 DTS 6501	
Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	2500 W	
Power consumption	926 1140 W	926 1140 W
Current consumption	5.8 6.9 A	2.3 2.4 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C) or stainless steel	
Colour	RAL 7035	
Dimension (WxHxD)	DTI: 485 x 1537 x 278 mm DTS 485 x 1540 x 278 mm	

Weight (net)	69kg	72kg
Degrees of protection (EN 60538)	IP55 towards the electrical enclosure IP 24 towards the surroundings	
Approvals	cURus EAC CE UKCA	
ARTICLE NO.	DTI	DTS
SC 400V	13899512055	13889512055
MC 400V	13899522055	13889522055
V2A SC 400V	13899512015	13889512015
V2A MC 400V	13899522015	13889522015

Please find further variants at www.pfannenbergl.com

Green Series COOLING UNITS

4000 W



WEBCODE #8027

PRODUCT	DTI 6801	DTS 6801	Degrees of protection (EN 60538)	IP55 towards the electrical enclosure IP 24 towards the surroundings
Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz		Approvals	cURus EAC CE UKCA
Cooling capacity (EN 14511) @ A35/A35	4000 W			
Power consumption	1800 2416 W			
Current consumption	4.6 4.7 A			
Design (housing)	galvanised sheet steel			
Design (cover)	electrostatically powder coated (200 °C) or stainless steel			
Colour	RAL 7035			
Dimension (WxHxD)	485 x 1537 x 372 mm	485 x 1540 x 372 mm		
Weight (net)	90 kg	94 kg		

ARTICLE NO.	DTI	DTS
SC	13899812055	13889812055
MC	13899822055	13889822055
V2A, SC	13899812015	13889812015
V2A, MC	13899822015	13889822015

Please find further variants at www.pfannenber.com

1000W - 4500W



WEBCODE #8192 | #8193

PRODUCT	DTI 6X1E	DTS 6X1E	DTI 6X2E	DTS 6X2E
ARTICLE NO.	13897331055	13887331055	13897831055	13887831055
Rated voltage ±10 %	230V AC~50 I 60 Hz			
Cooling capacity (EN 14511) @ A35/A35	1000 - 2800 W automatically adapting to heat load		2000 - 4500 W automatically adapting to heat load	
Power consumption	160 - 1030 W		440 - 1770 W	
Current consumption	7.4 A		12.2 A	
Design (housing)	galvanised sheet steel			
Design (cover)	electrostatically powder coated (200 °C) or stainless steel			
Colour	RAL 7035			
Dimension (WxHxD)	1538 x 485 x 278 mm	1547 x 485 x 278 mm	1538 x 485 x 372 mm	1547 x 485 x 372 mm
Weight (net)	70kg	75kg	84kg	87kg
Degrees of protection (EN 60538)	IP 54 against the switch cabinet - IP 34 against the environment			
Approvals	CE UKCA			

COMPACT COOLING UNITS

- Compact design for smaller cabinets or to cool hot spots.

DTI: for partially recessed mounting in the door or side

DTS: for outer mounting on the door or side

1000 W



WEBCODE #8023

PRODUCT	DTI 6201C	DTS 6201C	Weight (net)	40 kg	45 kg															
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz	Degrees of protection (EN 60529)	IP54 towards the electrical enclosure IP34 towards the surroundings																
Cooling capacity (EN 14511) @ A35/A35	1000 W		Approvals	cURus EAC CE UKCA																
Power consumption	445 560 W	480 570 W	<table><tr><th>ARTICLE NO.</th><th>DTI</th><th>DTS</th></tr><tr><td>SC 230V</td><td>13895211055</td><td>13885211055</td></tr><tr><td>SC 400V</td><td>13895219055</td><td>13885219055</td></tr><tr><td>MC 230V</td><td>13895221055</td><td>13885221055</td></tr><tr><td>MC 400V</td><td>13895229055</td><td>13885229055</td></tr></table> Please find further variants at www.pfannenber.com			ARTICLE NO.	DTI	DTS	SC 230V	13895211055	13885211055	SC 400V	13895219055	13885219055	MC 230V	13895221055	13885221055	MC 400V	13895229055	13885229055
ARTICLE NO.	DTI	DTS																		
SC 230V	13895211055	13885211055																		
SC 400V	13895219055	13885219055																		
MC 230V	13895221055	13885221055																		
MC 400V	13895229055	13885229055																		
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)	DTI: 410 x 962 x 253mm DTS: 410 x 968 x 253mm																			

1500 W



WEBCODE #8024

PRODUCT	DTI 6301C	DTS 6301C	Weight (net)	40 kg	45 kg
Rated voltage ±10 %	230 V AC 50 60 Hz	400 V 2~ AC 50 60 Hz	Degrees of protection (EN 60529)	IP54 towards the electrical enclosure IP34 towards the surroundings	
Cooling capacity (EN 14511) @ A35/A35	1500 W		Approvals	cURus EAC CE UKCA	
Power consumption	705 820 W	770 820 W			
Current consumption	5.0 5.2 A	3.7 2.4 A			
Design (housing)	galvanised sheet steel				
Design (cover)	electrostatically powder coated (200 °C)				
Colour	RAL 7035				
Dimension (WxHxD)	DTI: 410 x 962 x 253mm DTS 410 x 968 x 253mm				

ARTICLE NO.	DTI	DTS
SC 230V	13895311055	13885311055
SC 400V	13895319055	13885319055
MC 230V	13895321055	13885321055
MC 400V	13895329055	13885329055

Please find further variants at www.pfannenber.com

TOP MOUNTING COOLING UNITS

DTT: for mounting on the top of enclosure

- Tool-less installation due to Pfannenberger'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.

500 W



WEBCODE #8031

PRODUCT	DTT 6101
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	500 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 CE UKCA

ARTICLE NO.	Standard Controller	Multi Controller
DTT 6201	13256141055	13256171055

Please find further variants at www.pfannenberger.com

1000 W



WEBCODE #8125

PRODUCT	DTT 6201	
Rated voltage $\pm 10\%$	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 CE UKCA

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

Please find further variants at www.pfannenberger.com

1500 W



WEBCODE #8126

PRODUCT	DTT 6301	
Rated voltage $\pm 10\%$	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 CE UKCA

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

Please find further variants at www.pfannenberger.com

TOP MOUNTING COOLING UNITS

2000 W



WEBCODE #8032

PRODUCT	DTT 6401	
Rated voltage $\pm 10\%$	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 CE UKCA

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.pfannenber.com

3000–4000 W



WEBCODE #8033

PRODUCT	DTT 6601	DTT 6801
Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	3000 W 3200 W	4000 W 4250 W
Power consumption	1700 2100 W	1618 2050 W
Current consumption	3.16 4.5 A	4.6 4.5 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 CE UKCA	

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

Please find further variants at www.pfannenber.com

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 $\pm 10\%$	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 CE UKCA

ARTICLE NO.	DTS 9011H
SC	13242541055

Please find further variants at www.pfannenber.com

COOLING UNITS

320 W



WEBCODE #8029

PRODUCT	DTFI 9021 Standard Controller	DTI 9021
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	320 340 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 252 mm	385 x 329 x 252 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 CE UKCA	

ARTICLE NO.	DTFI 9021	DTI 9021
SC	13293141055	13293041055

Please find further variants at www.pfannenbergl.com

510 W



WEBCODE #8144

PRODUCT	DTI 9031 Standard Controller	DTS 9031
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	510 580 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 CE UKCA	

ARTICLE NO.	DTI	DTS
SC	13295041055	13245041055

Please find further variants at www.pfannenbergl.com

870 W



WEBCODE #8145

PRODUCT	DTI 9041 DTS 9041 Standard Controller	DTS 9041
Rated voltage $\pm 10\%$	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)	

Dimension (WxHxD)	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 CE UKCA		

ARTICLE NO.	DTI	DTS
SC 230 V	13299041055	13249041055
SC 400 V	13299049055	13249049055

Please find further variants at www.pfannenbergl.com

2000–2500 W



WEBCODE #8030

PRODUCT	DTI 9441 DTS 9441 Standard Controller	DTI 9541 DTS 9541
Rated voltage $\pm 10\%$	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)	
Dimension (WxHxD)	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 CE UKCA	

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

Please find further variants at www.pfannenbergl.com

OUTDOOR COOLING UNITS

DTS: for outer mounting on the door or side

- Robust cooling unit in compact design.
- 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
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	306 322 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)	177.8 x 393.7 x 191.4 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 CE UKCA	

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

Please find further variants at www.pfannenber.com

694 W



WEBCODE #8115

PRODUCT	DTS 3061	DTS 3081
Rated voltage $\pm 10\%$	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)	255.3 x 515.2 x 274 mm	

Weight (net)	25 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 CE UKCA	

ARTICLE NO.	DTS 3061	DTS 3081
Standard Controller	13382341355	13382341300
Low Ambient Package	13382341375	13382341178

Please find further variants at www.pfannenber.com

1235 W



WEBCODE #8109

PRODUCT	DTS 3161
Rated voltage $\pm 10\%$	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 CE UKCA

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

Please find further variants at www.pfannenber.com

1235 W



WEBCODE #8109

PRODUCT	DTS 3181	
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz	460 V 3~ AC 50 60 Hz
Cooling capacity (EN 14511) @ A35/A35	1235 W	1140 1200 W
Power consumption	795 W	1200 W
Current consumption	4 A	2 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 CE UKCA	

ARTICLE NO.	DTS 3181	
230 V	13385441158	
460 V	13385436158	

Please find further variants at www.pfannenber.com

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 2000 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 269 mm	

Weight (net)	56 60 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 CE UKCA	

ARTICLE NO.	DTS 3261	DTS 3281
Standard Controller	13385736355	13385736158
Low Ambient Package	13385736375	13385736178

Please find further variants at www.pfannenbergl.com

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 2050 W	
Power consumption	1020 W	
Current consumption	4.6 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	stainless steel 304
Dimension (WxHxD)	304 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 CE UKCA	

ARTICLE NO.	DTS 3165	DTS 3185
Standard Controller	13383639355	13383639158
Low Ambient Package	13383639375	13383639178

Please find further variants at www.pfannenbergl.com

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 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	stainless steel 304
Dimension (WxHxD)	406 x 1347 x 301 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 CE UKCA	

ARTICLE NO.	DTS 3265	DTS 3285
Standard Controller	13383836355	13383836158
Low Ambient Package	13383836375	13383836176

Please find further variants at www.pfannenbergl.com

5800 W



WEBCODE #8127

PRODUCT	DTS 3461C	DTS 3481C
Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	5800 W	
Power consumption	2431 W	
Current consumption	4.06 A	
Design (housing)	galvanised sheet steel	
Design (cover)	galvanised electrostatically powder coated (200 °C)	stainless steel 304
Dimension (WxHxD)	400 x 1452 x 500 mm	

Weight (net)	95.3 kg	
Noise level	< 81 dB(A)	
Degrees of protection (NEMA)	Type 3R/4	Type 4/4X
	towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC CE UKCA	

ARTICLE NO.	DTS 3461C	DTS 3481C
Standard Controller	13384136375	13384136178

Please find further variants at www.pfannenbergl.com

OUTDOOR COOLING UNITS

7200 W



WEBCODE #8113

PRODUCT	DTS 3661C	DTS 3681C
	Standard Controller	
Rated voltage $\pm 10\%$	400/460 V 3~ AC 50 60 Hz	
Cooling capacity (EN 14511) @ A35/A35	7200 W	
Power consumption	1769 W	
Current consumption	5.18 A	
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C)	stainless steel 304
Dimension (WxHxD)	400 x 1452 x 500 mm	

Weight (net)	106.5 kg	
Noise level	< 81 dB(A)	
Degrees of protection (NEMA)	Type 3R/4	Type 4/4X
	towards the enclosure	
	1 towards the surroundings	
Approvals	cULus EAC CE UKCA	

ARTICLE NO.	DTS 3661C	DTS 3681C
Standard Controller	13384036375	13384036178

Please find further variants at www.pfannenber.com

INDOOR COOLING UNITS

1235–2000 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 2000 W	
Power consumption	795 W	1400 W
Current consumption	4 A	2.6 A
Design (housing)	galvanised sheet steel	
Design (cover)	electrostatically powder coated (200 °C), RAL 7035	
Dimension (WxHxD)	395 x 748 x 237 mm	395 x 1209 x 269 mm

Weight (net)	40 kg	61 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 CE UKCA	

ARTICLE NO.	DTS 3141	DTS 3241
Standard Controller	13385436255	13385736255

Please find further variants at www.pfannenber.com

3500 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	3.14 A
Design (housing)	galvanised sheet steel
Design (cover)	electrostatically powder coated (200 °C), RAL 7035
Dimension (WxHxD)	410 x 1350 x 306 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 CE UKCA

ARTICLE NO.	DTS 3245
Standard Controller	13383836255

Please find further variants at www.pfannenber.com

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.



1000 W



WEBCODE #8037

PRODUCT	PWI 6102	PWS 6102
Rated voltage $\pm 10\%$	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	cULus EAC CE UKCA

ARTICLE NO.	PWI	PWS
230 V	12891401055	12881401055

Please find further variants at www.pfannenberg.com

1500–3000 W



WEBCODE #8038

PRODUCT	PWI 6152 PWS 6152	PWI 6302C PWS 6302C
Rated voltage $\pm 10\%$	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 PWS	410 x 938 x 142 mm 410 x 945.5 x 142 mm
Weight (net)	PWI PWS	15 kg 16 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	cULus EAC CE UKCA

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

Please find further variants at www.pfannenberg.com

3000–5000 W



WEBCODE #8039

PRODUCT	PWI 6302 PWS 6302	PWI 6502 PWS 6502
Rated voltage $\pm 10\%$	400/460 V 2~ AC 50 60 Hz	
Cooling capacity	3000 W	5000 W
Power consumption	53 75 W	79 130 W
Current consumption	0.4 A	0.69 0.83 A
Ambient temperature	+1 ... +70 °C	
Dimension (WxHxD)	PWI PWS	485 x 1549 x 142 mm 485 x 1556 x 142 mm
Weight (net)	PWI PWS	29.5 kg 28 kg
Noise level (EN ISO 3741)	54 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	cULus EAC CE UKCA

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

Please find further variants at www.pfannenberg.com

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 CE UKCA

ARTICLE NO.	230 V
PWI 6302 T	12893301155

Please find further variants at www.pfannenber.com

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 1.29 A	0.69 0.83 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 CE UKCA	

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

Please find further variants at www.pfannenber.com

SLIM 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 CE UKCA	

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

Please find further variants at www.pfannenber.com

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 other connectors on request	
Degrees of protection (EN 60529)	IP 55 towards the enclosure	
Approvals	cURus EAC CE UKCA	

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

Please find further variants at www.pfannenber.com

AIR/WATER HEAT EXCHANGERS

5200 W



WEBCODE #8147

PRODUCT	PWS 7502
Rated voltage $\pm 10\%$	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 other connectors on request
Degrees of protection (EN 60529)	IP 55 towards the enclosure
Approvals	cURus EAC CE UKCA

ARTICLE NO.	PWS 7502
IP 55	12055010055

Please find further variants at www.pfannenbergl.com

7000 W



WEBCODE #8148

PRODUCT	PWS 7702	
Rated voltage $\pm 10\%$	AC 50 60 Hz	
	230 V	400 V 3~
Cooling capacity	7000 W	
Power consumption	530 770 W	550 790 W
Current consumption	1.39 1.39 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 other connectors on request	
Degrees of protection (EN 60529)	IP 55 towards the enclosure	
Approvals	cURus EAC CE UKCA	

ARTICLE NO.	230 V	400 V
PWS 7702	12057710055	12057702055

Please find further variants at www.pfannenbergl.com

10000 W



WEBCODE #8149

PRODUCT	PWS 71002	
Rated voltage $\pm 10\%$	AC 50 60 Hz	
	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 other connectors on request	
Degrees of protection (EN 60529)	IP 55 towards the enclosure	
Approvals	cURus EAC CE UKCA	

ARTICLE NO.	230 V	400 V
PWS 71002	12057810055	12057802055

Please find further variants at www.pfannenbergl.com

TOP MOUNTING AIR/WATER HEAT EXCHANGERS

3800 W



WEBCODE #8149

PRODUCT	PWT 6402	
Rated voltage $\pm 10\%$	AC 50 60 Hz	
	230 V	400 460 V 3~
Cooling capacity	3800 W	
Power consumption	177 209 W	195 242 W
Current consumption	0.76 0.96 A	0.55 1.55 A
Ambient temperature	> +1 ... +70 °C	
Dimension (WxHxD)	796 x 274 x 584 mm	
Weight (net)	34.5 kg	37 kg
Noise level (EN ISO 3741)	54 dB(A)	
Colour	RAL 7035	
Design (housing)	galvanised sheet steel	

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

ARTICLE NO.	230 V	400 V
PWS 71002	12813401055	12813409055

Please find further variants at www.pfannenber.com

2150–3400 W



WEBCODE #8130

PRODUCT	PWD 5302	PWD 5402
Rated voltage $\pm 10\%$	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 other connectors on request
Degrees of protection (EN 60529)	IP 54 towards the enclosure
Approvals	cURus EAC CE UKCA

ARTICLE NO.	PWD 5302	PWD 5402
230 V	12065310055	12065410055

Please find further variants at www.pfannenber.com

AIR/AIR HEAT EXCHANGER

20–100 W/K



WEBCODE #8131

PRODUCT	PAS 6043	PAS 6133	PAS 6203
Rated voltage $\pm 10\%$	230 V AC 50 60 Hz		
Specific cooling capacity	20 W/K	65 W/K	100 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)	15.2 kg	24.9 kg	46 kg
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
Approvals	CE
ARTICLE NO.	230 V
PAS 6043	12981111055
PAS 6133	12982411055
PAS 6203	12983611055

Please find further variants at www.pfannenber.com

ACTIVE CHILLERS (water)

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	HS	HSP
Hydraulic Protection H	—	+	+	+
Smart Cooling S	—	—	+	+
Precision Cooling P	—	—	—	+

PRODUCT	PC 2500
Rated voltage $\pm 10\%$	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
Approvals	CE UKCA

Please find further variants at www.pfannenber.com

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
6.5–22 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	HS	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 571.5 x 495 mm		
Approvals	CE UKCA		

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 921.5 x 676 mm		
Approvals	CE UKCA		

Please find further variants at www.pfannenbergl.com

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

PRODUCT	EB 65 WT	EB 80 WT	EB 95 WT
Rated voltage $\pm 10\%$	400 3~ 460 3~ AC 50 60 Hz		
Cooling capacity W18/A32	6.5 7.2 kW	8 8.8 kW	9.5 10.6 kW
Flow rate	17 l/min	21 l/min	26 l/min
Ambient temperature	+15 ... +45 °C		
Dimension (WxHxD)	600 x 1276 x 760.5 mm		
Approvals	EAC CE UKCA Option: UL 508A		

PRODUCT	EB 140 WT	EB 160 WT	EB 180 WT	EB 220 WT
Rated voltage $\pm 10\%$	400 3~ 460 3~ AC 50 60 Hz			
Cooling capacity W18/A32	14 15.4 kW	16 17.6 kW	18 21.5 kW	22 26.4 kW
Flow rate	37 l/min	43 l/min	48 57 l/min	52 62 l/min
Ambient temperature	+15 ... +45 °C			
Dimension (WxHxD)	855 x 1434.5 x 761 mm			
Approvals	EAC CE UKCA Option: UL 508A			

Please find further variants at www.pfannenbergl.com

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, Pfannenber'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)	1411.6 x 1261.5 x 770 mm	
Approvals	cULus EAC CE UKCA	

PRODUCT	EB 310 WT	EB 360 WT	EB 410 WT	EB 440 WT
Rated voltage ±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 ... +45 °C			
Dimension (WxHxD)	1680 x 1410 x 790 mm			
Approvals	cULus EAC CE UKCA			

Please find further variants at www.pfannenber.com

EB XT 36–150 kW

Pfannenber 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 kW	47 kW	58 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		
Approvals	CE UKCA		

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	69 kW	76 kW	86 kW	92 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			
Approvals	CE UKCA			

PRODUCT	EB XT 1200 WT	EB XT 1600 WT
Rated voltage $\pm 10\%$	400 V 3~ AC 50 Hz	
Cooling capacity W18/A32	119 kW	148 kW
Flow rate	333 l/min	367 l/min
Ambient temperature	+5 ... +50 °C	
Dimension (WxHxD)	1200 x 2030 x 2665 mm	
Approvals	CE UKCA	

Please find further variants at www.pfannenber.com

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
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 CE UKCA

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

Please find further variants at www.pfannenbergl.com

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
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 CE UKCA

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

Please find further variants at www.pfannenbergl.com

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
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 CE UKCA

ARTICLE NO.	230 V
FLH 150	17015005007

Please find further variants at www.pfannenbergl.com

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
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 CE UKCA		

ARTICLE NO.	230 V
FLH 020 LST	17002105007
FLH 030 LST	17003105007
FLH 050 LST	17005105007

Please find further variants at www.pfannenbergl.com

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
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 CE UKCA

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

Please find further variants at www.pfannenberg.com

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 m³/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 CE UKCA

ARTICLE NO.	230 V
FLH 250	17025010007
FLH 400	17040010007

Please find further variants at www.pfannenberg.com

275 W

Fan heaters

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



WEBCODE #8053

PRODUCT	FLH 275 SLM
Heating performance	275 W
Rated voltage	230 V AC 50 60 Hz
Operating range	207–258 V AC 50 60 Hz
Max. starting current	1.5 A
Surface temperature	70 °C
Design	galvanised sheet steel
Type of connection	plug terminal connector

Type of mounting	M6 screw fastening
Degrees of protection	IP 20
Operating temperature	–40 °C ... +70 °C
Dimension (WxHxD)	118 x 110.5 x 163.5 mm
Approvals	CE UKCA

ARTICLE NO.	230 V
FLH 275 SLM	17027610007

Please find further variants at www.pfannenberg.com

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	250 W	400 W
Rated voltage	230 V AC 50 60 Hz	
Operating range	207–258 V AC 50 60 Hz	
Volumetric airflow	160 180 m³/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	cURus EAC CE UKCA

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

Please find further variants at www.pfannenberg.com

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 m³/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	cURus EAC CE UKCA

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

Please find further variants at www.pfannenber.com

200–500 W

Compact fan heaters

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



WEBCODE #8051

PRODUCT	PFH 200 PFH-T 200	PFH 300 PFH-T 300	PFH 400 PFH-T 400	PFH 500 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 m³/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	515 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 CSA EAC CE UKCA	

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.pfannenber.com

650–1200 W

Compact fan heaters

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



WEBCODE #8052

PRODUCT	PFH 600 PFH-T 650	PFH 800 PFH-T 800	PFH 1000 PFH-T 1000	PFH 1200 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 m³/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 CSA EAC CE UKCA	

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.pfannenber.com

Thermostats

FLZ 510

Thermostat; changeover with spring contact.



WEBCODE #8055

PRODUCT		FLZ 510	
Switching temperature difference		1 K	3 K
Type of 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 CE UKCA	
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

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

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	–40 °C ... +80 °C	
Colour	RAL 7035	
Dimension (WxHxD)	59 x 80.5 x 38 mm	
Approvals	cURus EAC CE UKCA	
ARTICLE NO.	0 °C ... +60 °C	
FLZ 541	17141000000	
FLZ 542	17142000000	
FLZ 543	17143000000	

Please find further variants at www.pfannenber.com

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	240 V AC / 8 A
	N.O.	24–250 V AC / 5 A	24 V DC / 4 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 CE UKCA	

ARTICLE NO.	FLZ 600	FLZ 610
	17207000000	17218100000

Please find further variants at www.pfannenber.com

PFANNENBERG SERVICE

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.



Please contact us:

service@pfannenberg.com

SIGNALING TECHNOLOGY:

Signaling devices
for all industrial areas
and applications.



“Digital Twin” - supporting data and software

Pfannenberg now provides MultiCAD-data for our signaling technologies for all common CAD formats, enabling the creation of a complete, detailed, three-dimensional, virtual representation or “digital twin” of the product. In addition, we also offer the electronic equivalent in the form of EPLAN data.

Minimize the risk of dangerous and costly planning errors by creating virtual 3D building models with the Pfannenberg BIM Revit library. This allows you to easily integrate and visualize signaling systems and their coverage in your planning.

The free and intelligent Pfannenberg Sizing Software supports you to capture customized solutions for your projects and makes them even more economical, more accurate, safer and avoid costly oversizing or dangerous undersizing.



Warranty extension for signaling devices worldwide

Customer and service friendliness are our top priorities: That's why we offer a 10-year warranty on our visual, audible and combined devices from our Patrol, Pyra, DS and Quadro series. And with the introduction of the “Easy Replacement Process”, we enable our customers to replace defective devices even more easily and quickly.

PFANNENBERG 3D-COVERAGE:

A visual representation of device performance in any space.



What is 3D-Coverage?

Any planning based on insufficient performance data leads to great risks, not only financially but also in terms of danger to life!

3D-Coverage is a smart and easy method to identify and document the optimal and safe signaling solution for customers and users. In a nutshell, based on the product parameters of the signaling device and the environmental conditions, a 3-dimensional space is determined in which the signaling device exactly meets the project requirement of the customer application. This 3-dimensional space represents the “digital twin” of the functional area required by the user.



The Pfannenberg 3D Coverage offer:

- Detailed technical documentation with all performance parameters (3D coverage) of all signaling devices
- Supporting technical and commercial planning methods such as PSS, 3D Coverage Calculation Tool, planning methods, Revit BIM files
- Webinars and e-learning platforms for on-demand use
- Know-How pages and white papers on various topics
- Consulting based on international standards in relation to the respective application
- Documentation to prove the design complies with the regulations
- Active planning / project support
- On-site consultation by experts and stocktaking and full planning

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 85.8 x 80.6 mm	

Warranty	10 years	
Approvals	UL EAC CE UKCA option: DNV 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.pfannenber.com

10 J

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



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 CE UKCA	
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.pfannenber.com

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 CE UKCA 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	21561803000	21561803055
24 V	21561804000	21561804055
24 V	21561805000	21561805055

Please find further variants at www.pfannenber.com

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.

FLASHING LIGHTS

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) (vertical mounting)	
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 CE UKCA	

ARTICLE NO.	direct mounting	bracket mounting
230 V	21007104000	21007104010
230 V	21007105000	21007105010
24 V	21007804000	21007804010
24 V	21007805000	21007805010

Please find further variants at www.pfannenbergl.com

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) (vertical mounting)	

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 CE UKCA	

ARTICLE NO.	direct mounting	bracket mounting
	21010104000	21010104010
	21010105000	21010105010

Please find further variants at www.pfannenbergl.com

13 J

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



WEBCODE #8066

PRODUCT	Quadro F12	
	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	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 CE UKCA	

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

Please find further variants at www.pfannenbergl.com

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.

LED TRAFFIC LIGHTS

125 cd

- Simple to combine for horizontal or vertical configuration.



WEBCODE #8067

PRODUCT	P 450 TLA	
Rated voltage	115 / 230 V AC/DC	12 / 24 V DC
Operating range	48–260 V	10–14 16–33 V
Max. viewing distance	259 m	
Light source	high output LED array	
Light intensity	125 cd (DIN 5037)	
Lens colour	/	
Degrees of protection	IP 65 (EN 60529)	
Operating temperature	–40 °C ... +70 °C	

Service life	>50,000 hrs	
Dimension (WxHxD)	177 x Ø 140 mm	
Approvals	EAC CE UKCA	

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

Please find further variants at www.pfannenber.com

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	
Dimension (WxHxD)	396 x 130 x 130 mm	
Approvals	EAC CE UKCA	

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

Please find further variants at www.pfannenber.com

76 cd

- Feel free to compose your traffic light as you wish! The prewired base can be complemented with several stages of LEDs plus a sounder.



WEBCODE #8188

PRODUCT	PY L-S-TL / A	
Rated voltage	115 / 230 V	12–48V DC
Operating range	90–253 V	10–60V
Max. viewing distance	202 m	
Light source	one high output LED per single unit	
Light intensity (DIN 5037)	76 cd (reducible) per single unit	
Lens colour	/ ● ● ● ● ● ●	
Degrees of protection	IP 66 (EN 60529), NEMA TYPE 4/4x, IK 08 (EN 50102)	

Operating temperature	–40 °C ... +55 °C	
Service life	≥50,000 hrs	
Dimension (WxHxD)	345 x 109.5 x 80.6 mm	
Warranty	10 years	
Approvals	UL CE UKCA	

ARTICLE NO.	115 / 230 V AC	12–48V DC
● / ●	21120615000	21120605000
● / ● / ●	21514643055	21514813055

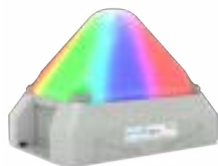
Please find further variants at www.pfannenber.com

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.

LED LIGHTS

23 cd

- RGB multi colour or single colour LED light with wide signaling area and maximum visibility.



WEBCODE #8189

PRODUCT	PY L-M / PY L-M RGB		
Rated voltage	115 / 230 V	120 V DC	12-48V DC
Operating range	95-265 V	108-132 V	10-60V
Max. viewing distance	111 m		
Light source	single colour: two high output LED / RGB: one high output LED		
Light intensity (DIN 5037)	23 cd (reducible)		
Lens colour	- RGB Polycarbonate (PC)		
Degrees of protection	IP 66 (EN 60529), NEMA TYPE 4/4X, IK 08 (EN 50102)		
Operating temperature	-40 °C ... +55 °C		

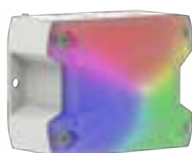
Service life	>50,000 hrs
Dimension (WxH)	166 x 114 x 124 mm
Warranty	10 years
Approvals	UL CE UKCA

ARTICLE NO.	115 / 230 V AC; 120 V DC	12-48 V DC
	21513648055	21513818055
	21513643055	21513813055
	21513644055	21513814055
	21553645055	21553815055

Please find further variants at www.pfannenbergl.com

76 cd

- Most flexible, ultra bright RGB multi colour or single colour LED technology



WEBCODE #8190

PRODUCT	PY L-S / PY L-S RGB		
Rated voltage	115 / 230 V	120 V DC	12-48V DC
Operating range	95-265 V	108-132 V	10-60V
Max. viewing distance	202 m		
Light source	one high output LED		
Light intensity (DIN 5037)	76 cd (reducible)		
Lens colour	- RGB Polycarbonate (PC)		
Degrees of protection	IP 66 (EN 60529), NEMA TYPE 4/4X, IK 08 (EN 50102)		
Operating temperature	-40 °C ... +55 °C		

Service life	≥50,000 hrs
Dimension (WxH)	109.6 x 86 x 80.6mm
Warranty	10 years
Approvals	UL CE UKCA

ARTICLE NO.	115/230 V AC/DC	24 V DC
	21553648055	21553818055
	21553643055	21553813055
	21553643055	21553814055
	21513645055	21513815055

Please find further variants at www.pfannenbergl.com

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) (vertical mounting)	

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 CE UKCA	

ARTICLE NO.	direct mounting	bracket mounting
	21151644006	21151644007
	21151645006	21151645007

Please find further variants at www.pfannenbergl.com

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) (vertical mounting)	

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

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

Please find further variants at www.pfannenbergl.com

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.

LED LIGHTS

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
Dimension (WxHxD)	130 x 130 x 130 mm
Warranty	10 years
Approvals	EAC CE UKCA

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

Please find further variants at www.pfannenber.com

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 (vertical mounting)	

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 CE UKCA

ARTICLE NO.	direct mounting	bracket mounting
	21155634006	21155634007
	21155635006	21155635007

Please find further variants at www.pfannenber.com

FUNCTION-MONITORED LIGHTS

23 cd

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



WEBCODE #8184

PRODUCT	PY L-M-M		
Rated voltage	115 / 230 V	120 V DC	12–48V DC
Operating range	95–265 V	108–132 V	10–60 V
Max. viewing distance	111 m		
Light source	two high output LED		
Light intensity	23 cd (reducible)		
Lens colour			
Degree of protection	IP 66 (EN 60529), NEMA TYPE 4/4X, IK 08 (EN 50102)		
Operating temperature	–40 °C ... +55 °C		
Service life	≥50,000 hrs		

Dimension (WxHxD)	166 x 114 x 124mm
Warranty	10 years
Approvals	UL CE UKCA

ARTICLE NO.	115 / 230 V AC; 120 V DC	12–48 V DC
	21553643004	21553813004
	21553644004	21553814004
	21553645004	21553815004
	21553646004	21553816004

Please find further variants at www.pfannenber.com

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) (vertical mounting)

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	EAC CE UKCA option: DNV

ARTICLE NO.	230 V AC
	21003103156
	21003105156

Please find further variants at www.pfannenber.com

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.

FUNCTION-MONITORED LIGHTS

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 CE UKCA

ARTICLE NO.	bracket mounting
 24 V	21007804012
 24 V	21007805012

Please find further variants at www.pfannenbergl.com

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 CE UKCA

ARTICLE NO.	230 V AC
	21042101179
	21042104179
	21042105179

Please find further variants at www.pfannenbergl.com

OBSTACLE LIGHTS

- LED obstacle lights, AVV-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 EAC CE UKCA	

ARTICLE NO.	115 / 230 V AC	12 / 24 V DC
	21105681005	21105671005

Please find further variants at www.pfannenbergl.com

LED – 18 cd

- AVV | 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	AVV ICAO EAC CE UKCA	

ARTICLE NO.	115 / 230 V AC	12 / 24 V DC
	21105641010	21105631010

Please find further variants at www.pfannenbergl.com

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 CE UKCA	

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

Please find further variants at www.pfannenberg.com

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) (vertical mounting)	
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 CE UKCA	

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

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) (vertical mounting)	

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 CE UKCA	

ARTICLE NO.	direct mounting	bracket mounting
	21154634006	21154634007
	21154635006	21154635007

Please find further variants at www.pfannenberg.com

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.

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	
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 CE UKCA

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

Please find further variants at www.pfannenbergl.com

114 dB(A)



WEBCODE #8093

PRODUCT	DS 10-SIL	
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 CE UKCA

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

Please find further variants at www.pfannenbergl.com

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. –12 dB via potentiometer	
Alarm tones	80 thereof 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 EN 54-3 (24 V) VdS (24 V) CNBOP CE UKCA option: DNV MED	

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

Please find further variants at www.pfannenbergl.com

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. –12 dB via potentiometer	
Alarm tones	80 thereof 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 EN 54-3 (24 V) VdS (24 V) CNBOP CE UKCA option: DNV MED	

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

Please find further variants at www.pfannenbergl.com

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

PATROL SOUNDERS

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. –10 dB via potentiometer	
Alarm tones	80 thereof 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 EN 54-3 (24 V) VdS (24 V) CNBOP CE UKCA option: DNV MED	

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

Please find further variants at www.pfannenber.com

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	118 dB(A) @ DIN tone	120 dB(A) @ DIN tone
Sound level reduction	max. –9 dB via potentiometer	
Alarm tones	80 thereof 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 EN 54-3 (24 V) VdS (24 V) CNBOP CE UKCA option: DNV MED	

ARTICLE NO.	115–230 V AC	12–48 V DC
●	23370640055	23370300055
●	23370640000	23370300000

Please find further variants at www.pfannenber.com

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 CE UKCA option: DNV UL	

ARTICLE NO.	230 V AC	24 V DC
	23106100000	23106800000

Please find further variants at www.pfannenber.com

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 CE UKCA option: DNV UL	

ARTICLE NO.	230 V AC	24 V DC
	23111100000	23111800000

Please find further variants at www.pfannenber.com

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.

PATROL LED SOUNDERS

76cd / 105 dB(A)



WEBCODE #8081

PRODUCT	PA L 1		
Rated voltage	230 V AC	115 V AC	12-48 V DC
Operating range	195-253 V	95-127 V	10-57 V
Max. viewing distance	202 m		
Light source	one high output LED per single unit		
Light intensity (DIN 5037)	76 cd (reducible) per single unit		
Max sound level	105 dB (A) @ 1m		
Sound level reduction	max. -12 dB		
Alarm tones	80		
Lens colour	(- RGB) Polycarbonate (PC)		
Housing colour	RAL 3000 RAL 7035		
Degrees of protection	IP 66 (EN 60529), NEMA TYPE 4/4x, IK 08 (EN 50102)		

Operating temperature	-40 °C ... +55 °C
Service life	≥50,000 hrs
Dimension (WxHxD)	172.4 x 109.5 x 80.6mm
Warranty	10 years
Approvals	UL CE UKCA

ARTICLE NO.		PA L 1	
HOUSING COLOUR	LIGHT / LENS COLOUR	230 V	12-48 V DC
		23313108055	23313638055
		23313105000	23313635000
		23313103055	23313633055
		23313104055	23313634055
		23313105055	23313635055

Please find further variants at www.pfannenberg.com

23cd / 107 db(A)



WEBCODE #8185

PRODUCT	PA L 5		
Rated voltage	230 V AC	115 V AC	12-48 V DC
Operating range	195-253 V	95-127 V	10-57 V
Max. viewing distance	111m		
Light source	single colour: two high output LED / RGB: one high output LED		
Light intensity (DIN 5037)	23 cd (reducible)		
Sound pressure level	max. 107 dB (A)		
Sound level reduction	max. -12 dB		
Alarm tones	80		
Lens colour	(- RGB) Polycarbonate (PC)		
Housing colour	RAL 3000 RAL 7035		
Degrees of protection	IP 66 (EN 60529), NEMA TYPE 4/4x, IK 08 (EN 50102)		

Operating temperature	-40 °C ... +55 °C
Service life	≥50,000 hrs
Dimension (WxHxD)	163.4 x 215 x 132mm
Warranty	10 years
Approvals	UL CE UKCA

ARTICLE NO.		PA L 5	
HOUSING COLOUR	LIGHT / LENS COLOUR	230 V	12-48 V DC
		23353108055	23353638055
		23353103055	23353633055
		23353104055	23353634055
		23353105055	23353635055
		23353106055	23353636055

Please find further variants at www.pfannenberg.com

PATROL FLASHING SOUNDERS

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	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)	109.5 x 172.4 x 80.6 mm
Warranty	10 years
Approvals	EN 54-3 EN 54-23 VdS UL EAC CNBOP CE UKCA option: DNV MED

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

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

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	 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)	163.4 x 215 x 132 mm
Warranty	10 years
Approvals	UL EAC CE UKCA option: DNV 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.pfannenber.com

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	 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 156 mm
Warranty	10 years
Approvals	UL EAC CE UKCA option: DNV 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.pfannenber.com

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	
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 CE UKCA option: DNV MED

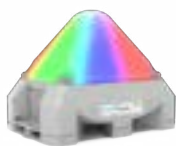
ARTICLE NO.	 housing	 housing
 230 V	23372103000	23372103055
 230 V	23372104000	23372104055
 230 V	23372105000	23372105055
 24 V	23372803000	23372803055
 24 V	23372804000	23372804055
 24 V	23372805000	23372805055

Please find further variants at www.pfannenber.com

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.

PYRA® LED SOUNDERS

PYRA L M-A



WEBCODE #8185

PRODUCT	PY L-M-A		
Rated voltage	115 / 230 V	120 V DC	12-48V DC
Operating range	95-265 V	108-132 V	10-60V
Max. viewing distance	111m		
Light source	single colour: two high output LED / RGB: one high output LED		
Light alternation frequency	blinking light 1 Hz / 2 Hz flashing light 0.1 Hz / 0.5 Hz / 0.75 Hz / 1 Hz / 2 Hz		
Light intensity (DIN 5037)	23 cd (reducible)		
Sound pressure level	max. 101 dB (A)		
Sound level reduction	max. -20 dB		
Alarm tones	8		
Lens colour	- RGB) Polycarbonate (PC)		
Housing colour	RAL 3000 RAL 7035		

Degree of protection	IP 66 (EN 60529), NEMA TYPE 4/4X, IK 08 (EN 50102)	
Operating temperature	-40 °C ... +55 °C	
Service life	≥50,000 hrs	
Dimensions	172 x 114 x 134 mm	
Warrenty	10 years	
Approvals	UL CE UKCA	
ARTICLE NO.	115 / 230 V AC; 120 V DC	12-48 V DC
housing		
	21556648055	21556818055
	21556643055	21556813055
	21556644055	21556814055
	21556645055	21556815055
	21556646055	21556816055

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)



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. -20 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 x 114 mm	
Warranty	10 years	
Approvals	UL EAC CE UKCA	
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.pfannenber.com

10 J / 101 dB(A)



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. -20 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 x 114 mm	
Warranty	10 years	
Approvals	UL EAC CE UKCA	
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.pfannenber.com

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.

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		
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 EAC CE UKCA	

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.pfannenberg.com

Ex FLASHING LIGHTS

5 J

- Usable in all chemical and petrochemical plants as well as offshore plants.
- Zones 1, 2, 21 and 22.



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	see manual at pfannenberg.com	
Degrees of protection	IP 66 (EN 60529)	

Service life	light emission still 70 % after 8,000,000 flashes	
Dimension (WxHxD)	Ø 76 x 260 mm	
Approvals	DNV CE	

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

7.5 J

- For use in potentially explosive areas in Zone 2 and 22.



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	see manual at pfannenberg.com	
Lens colour		
Degrees of protection	IP 66 (EN 60529) IK08 (EN 50102)	

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

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

Please find further variants at www.pfannenberg.com

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 FLASHING LIGHTS

5 J

- Powerful visual safety for hazardous areas.
- Large connection box for simple mounting.
- Zones 1, 2, 21 and 22.



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	see manual at pfannenber.com	

Degrees of protection	IP 66 (EN 60529)	
Service life	light emission still 70 % after 8,000,000 flashes	
Dimension (WxHxD)	Ø 165 x 240 mm	
Approvals	CE	
ARTICLE NO.	230 V AC	24 V DC
	31130103000	31130803000
	31130104000	31130804000
	31130105000	31130805000

Please find further variants at www.pfannenber.com

15 J

- Powerful visual safety for hazardous areas.
- Simple and safe electrical connection.
- Zones 1, 2, 21 and 22.



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	see manual at pfannenber.com	

Degrees of protection	IP 66 (EN 60529)	
Service life	light emission still 70 % after 8,000,000 flashes	
Dimension (WxHxD)	Ø 165 x 240 mm	
Approvals	CE	
ARTICLE NO.	230 V AC	24 V DC
	31110103000	31110803000
	31110104000	31110804000
	31110105000	31110805000

Please find further variants at www.pfannenber.com

Ex LED LIGHTS

LED – 7 cd

- Compact design permits versatile installation in practically any space.
- Zones 0, 1 and 2



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
Lens colour	

Cable entry	2x M20
Degrees of protection	IP 65
Dimension (WxHxD)	88.7 x 85 x 95 mm
Approvals	CE UKCA
ARTICLE NO.	24 V DC
	31008804000
	31008805000

Please find further variants at www.pfannenber.com

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	see manual at pfannenber.com	
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)	
Dimension (WxHxD)	130 x 130 x 130 mm	
Warranty	10 years	
Approvals	CE UKCA	
ARTICLE NO.	115–230 V AC/DC	12–48 V DC
	21108643009	21108633009
	21108644009	21108634009
	21108645009	21108635009

Please find further variants at www.pfannenber.com

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 LED LIGHTS

LED – 23 cd

- Most flexible, ultra-bright RGB multi colour LED technology certified for Ex-Zones 2 and 22.



WEBCODE #8181

PRODUCT	Quadro RGB 3G/3D	
Rated voltage	115-230 V AC	12-48 V DC
Operating range	90-253 V AC	11-60 V
Max. viewing distance	66m	
Light source	1 High output LED (RGBW)	
Light intensity (DIN 5037) ¹	8 cd (signal color yellow, flashing light 1 Hz, 10% – 100%)	
Operating mode	continuous light blinking light 1 / 2 Hz flashing light 0.1 / 0.5 / 0.75 / 1 / 2 Hz	
Explosion protection	see manual at pfannenberg.com	
Lens colour		

Cable entry	2x M20 x 1.5 (1x sealing screw, 1x cable connection)
Service life	>50,000 h
Degrees of protection	IP 66 / 67, IK 08
Dimension (WxHxD)	130 x 130 x 130mm
Warranty	10 years
Approvals	CE UKCA

ARTICLE NO.	115-230 V AC	12-48 V DC
	21556648055	21556818055

Please find further variants at www.pfannenberg.com

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
Operating range	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	see manual at pfannenberg.com	

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 CE UKCA option: DNV

ARTICLE NO.	230 V AC	24 V DC
	23106100007	23106800007

Please find further variants at www.pfannenberg.com

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
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	
Explosion protection	see manual at pfannenberg.com	

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 CE UKCA option: DNV

ARTICLE NO.	230 V AC	24 V DC
	23111100007	23111800007

Please find further variants at www.pfannenberg.com

103 dB(A)

- 49 unique alarm tones
- Zones 0, 1 and 2



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	see manual at pfannenberg.com

Operating temperature	-40 °C ... +70 °C
Degrees of protection	IP 66 (EN 60529)
Dimension (WxHxD)	130 x 130 x 132 mm
Approvals	CE UKCA

ARTICLE NO.	24 V DC
	32033800000

Please find further variants at www.pfannenberg.com

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.



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	see manual at pfannenber.com

Degrees of protection	IP 65 (EN 60529)
Dimension (WxHxD)	88.7 x 99 x 95
Approvals	CE UKCA

ARTICLE NO.	24 V DC
	32034800000

Please find further variants at www.pfannenber.com

112 dB(A)

- Certified for use in 2G zones 1 and 2, 2D zones 21 and 22.



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 and temperature classes	see certificate at pfannenber.com	
Type of protection	„D“ = Ex db / Ex tb or „E“ = Ex db / Ex db eb / Ex tb	

Degrees of protection	IP66 and IP67 (EN 60529)	
Operating temperature	max. –50°C ... +70°C (see also temperature classes)	
Dimension (W/HxD)	Ø 181 x 275 mm	
Approvals	EAC BExS110D 24VDC: EN54-3 + VdS CE Option: IECEx	

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

Please find further variants at www.pfannenber.com

120 dB(A)

- Certified for use in 2G zones 1 and 2, 2D zones 21 and 22.



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 and temperature classes	see certificate at pfannenber.com	
Type of protection	„D“ = Ex db / Ex tb or „E“ = Ex db / Ex db eb / Ex tb	

Degrees of protection	IP66 and IP67 (EN 60529)	
Operating temperature	max. –50°C ... +70°C (see also temperature classes)	
Dimension (W/HxD)	Ø 181 x 275 mm	
Approvals	EAC BExS110D 24VDC: EN54-3 + VdS CE Option: IECEx	

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

Please find further variants at www.pfannenber.com

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 SOUNDERS

5 J / 113 dB(A)

- Combined flashing light and powerful sounder for enhanced alarming and safety for Zones 1, 2, 21 und 22.



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	see manual at pfannenberg.com
Degrees of protection	IP 67 (EN 60529)
Service life des Leucht-mittels	light emission still 70 % after 8,000,000 flashes
Dimension (WxHxD)	Ø 181 x 368 mm
Approvals	CE

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

Please find further variants at www.pfannenberg.com

7 cd / 102 dB(A)

- Compact design
- Zones 0, 1 and 2



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	see manual at pfannenberg.com

Lens colour	
Cable entry	2x M20
Degrees of protection	IP 65
Dimension (WxHxD)	88.7 x 116 x 95 mm
Approvals	CE UKCA

ARTICLE NO.	24 V DC
	32035804000
	32035805000

Please find further variants at www.pfannenberg.com

ZENER BARRIERS

For intrinsically safe signalling devices in Ex applications.

Possible combinations: Zener barrier, IS-A105N sounder and signaling devices IS-Mini series.

Available as: Barriers to ground-based operations or as barrier for earth-free operation (e.g. for systems with ground fault test).



WEBCODE #8194

TECHNICAL DATA FOR ZENER BARRIERS								
Type	Version		Rated data		Technical data			
			V	Ω	max. longitudinal resistance (Ω)	U in at 10 μA (V)	U in max. (V)	rated fuse current (mA)
Z 728	Zener barrier DC +Ve		28	300	327	26.5	28	50
Z 928	Zener barrier AC		28	300	327	26	27.6	50
Z 786	Diode barrier		28	Diode A1	36 + 0.9 V	26.5	28	50
				A2	36 + 0.9 V	26.5	28	50
				B	—	—	—	—
Z 787	Zener barrier DC +Ve	Channel 1	28	301	327	26.5	28	50
		Channel 2	28	Diode	36 + 0.9 V	26.5	28	50

TYPE	Z 728	Z 928	Z 786	Z 787
Article number	38109800000	38109300000	38109800001	38109800002

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.

INTENSE BR50 SIGNAL TOWERS



Slim and bright – Elegant 54mm design and remarkably bright luminosity

Flexible design options – Fully Coloured or Crystal-Clear modules with coloured LEDs - the choice is yours. Assemble your individual signal tower according to your needs and design ideas.

Versatile mounting options – Can either be mounted by tubular stand with plinth, tube, mounting bracket or directly.

Universally applicable – Usable indoors and outdoors.

Function-monitored – Separate LED module for more safety in sensitive applications where a signal must be sent to an external safety system, operating station or control centre in the event of a malfunction.

New equipment – ready-made M12 plug connection technology. For direct mounting or stand mounting with 100mm, 250mm or 400mm length plus matching stainless steel brackets.

Approvals for all applications – UL | EAC | CE | UKCA

WEBCODE #8100

	EASY AND FLEXI MODULES	BASE/END MODULE
Total number of modules	max. 5 (Customisable order and colour)	1
Operating temperature	-25°C - +55°C	
Protection type EN 60529	IP 54 (Option IP65)	
Article no.		28250010000

EASY MODULES (LED INTEGRATED BY DEFAULT)				
	LIGHT INTENSITY	NOMINAL CURRENT CONSUMPTION	OPERATING RANGE	ARTICLE NO.
Continuous light module Fully coloured - Yellow	27 cd	AC: 171mA; DC: 101 mA	10-30V AC/DC	28250376033
Continuous light module Fully coloured - Amber	15 cd	AC: 114mA; DC: 116 mA		28250376042
Continuous light module Fully coloured - Red	5 cd	AC: 121mA; DC: 73 mA		28250376055
Continuous light module Fully coloured - Green	9 cd	AC: 113mA; DC: 105 mA		28250376066
Continuous light module Fully coloured - Blue	3 cd	AC: 114mA; DC: 116 mA		28250376072
Continuous light module Crystal Clear - White	23 cd	AC: 114mA; DC: 116 mA		28250376012
Continuous light module Crystal Clear - Yellow	28 cd	AC: 171mA; DC: 101 mA		28250376013
Continuous light module Crystal Clear - Green	22 cd	AC: 113mA; DC: 105 mA		28250376016
Continuous light module Crystal Clear - Red	6 cd	AC: 121mA; DC: 73 mA		28250376015

FLEXI MODULES (WITHOUT LIGHT SOURCE)			
	LIGHT INTENSITY	OPERATING RANGE	ARTICLE NO.
Signaling module Clear (Crystal Clear)	According to the selected LED		28250040010
Signaling module Yellow			28250040030
Signaling module Orange			28250040040
Signaling module Red			28250040050
Signaling module Green			28250040060
Signaling module Blue			28250040070

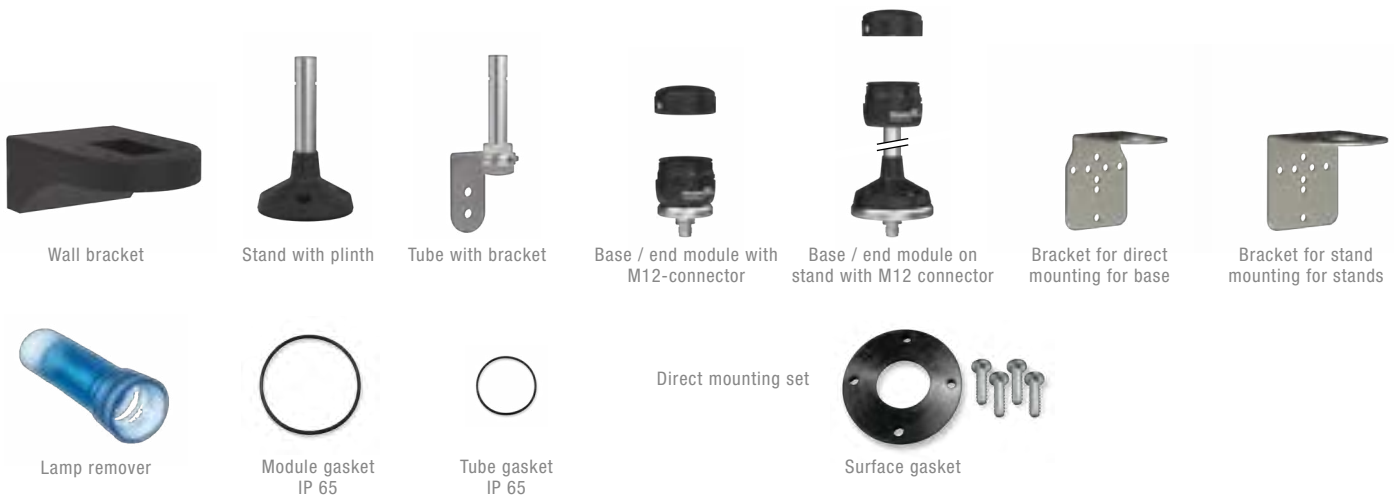
LED CONTINUOUS LIGHT					
	LIGHT INTENSITY*	NOMINAL CURRENT CONSUMPTION	OPERATING RANGE	SERVICE LIFE	ARTICLE NO.
LED BA 15d Continuous light Yellow 24V AC/DC	28 cd	AC: 171mA; DC: 101 mA	10-30V AC/DC	>25,000h	28213000099
LED BA 15d Continuous light Red 24V AC/DC	6 cd	AC: 121mA; DC: 73 mA			28213000100
LED BA 15d Continuous light Green 24V AC/DC	22 cd	AC: 113mA; DC: 105 mA			28213000101
LED BA 15d Continuous light White 24V AC/DC	23 cd	AC: 114mA; DC: 116 mA			28213000102
LED BA 15d Continuous light Yellow 230V AC	17 cd	19 mA	220-240V AG		28213000103
LED BA 15d Continuous light Red 230V AC	4 cd	21 mA			28213000104
LED BA 15d Continuous light Green 230V AC	12 cd	22 mA			28213000105
LED BA 15d Continuous light White 230V AC	14 cd	22 mA			28213000106

LED with integrated blinking function are available for 24V AC/DC and 230V AC supply voltage and in all colours.
They are designed to be used in BR50 Flexi Modules only. * Values have been measured in Crystal Clear modules. Further versions on request.

SOUNDER MODULES		
	24V AC/DC	230V AC
Sound pressure level /reducible	87 / -10 dB (A)	
ARTICLE NO.		
Sounder module	28250088000	28250081000

Further versions on request

MOUNTING EQUIPMENT		
	MATERIAL	ARTICLE NO.
Wall bracket	ABS; for mounting stand	28250200000
Mounting stand with plinth - 100mm	Stainless steel tube and PA 6 (Polyamid) plinth	28250150010
Mounting stand with plinth - 250mm	Stainless steel tube and PA 6 (Polyamid) plinth	28250150020
Mounting stand with plinth - 400mm	Stainless steel tube and PA 6 (Polyamid) plinth	28250150040
Tube with thread and bracket - 100mm	Stainless steel tube and bracket	28250160010
Tube with thread and bracket - 250mm	Stainless steel tube and bracket	28250160020
Tube with thread and bracket - 400mm	Stainless steel tube and bracket	28250160040
Base / end module with M12-connector	ABS with stainless steel adapter	28250126000
Base / end module on stand 100 mm + M12 connector	ABS with stainless steel adapter and tube	28250126010
Base / end module on stand 250 mm + M12 connector	ABS with stainless steel adapter and tube	28250126020
Base / end module on stand 400 mm + M12 connector	ABS with stainless steel adapter and tube	28250126040
Bracket for direct mounting for base with or without M12 connector	Stainless steel	28250180000
Bracket for stand mounting for stands with or without M12 connector	Stainless steel	28250190000
Lamp remover	plastic	28250250000
Module gasket IP 65	rubber	28250220000
Tupe gasket IP 65	rubber	28250230000
Direct mounting set	surface gasket + screws 4,2x16	28250210000



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